

Chemical Analysis Report

NE-DIST-2024-02-09-02

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **LSJR South West 2024**
Request ID: **RQ-2024-01-08-49**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Marek Topolski, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 06-MAR-2024 09:19

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light pink rectangular background.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals and 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: CORMORANT BRANCH AT MARBON RD

Collection Date/Time: 02/08/2024 13:20

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468046	EPA 8321B	Aldicarb	0.020	U	ug/L	P441099	
		Aldicarb Sulfone	0.0020	U	ug/L	P441099	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P441099	MS
		Carbaryl	0.0020	U	ug/L	P441099	
		Carbofuran	0.0020	U	ug/L	P441099	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P441099	
		Methiocarb	0.0020	U	ug/L	P441099	
		Methomyl	0.0020	U	ug/L	P441099	
		Oxamyl	0.0020	U	ug/L	P441099	
		Propoxur	0.0020	U	ug/L	P441099	
2468047		2,4-D	0.011		ug/L	P441220	
		Acesulfame K	0.10	I	ug/L	P441276	
		2,4,5-T	0.0040	U	ug/L	P441220	
		AMPA	0.14	I	ug/L	P441276	
		Acetaminophen	0.0080	U	ug/L	P441220	
		Acetamiprid	0.0020	U	ug/L	P441220	
		Endothall	0.25	U	ug/L	P441276	
		Glufosinate	0.10	U	ug/L	P441276	
		Glyphosate	0.14	I	ug/L	P441276	
		Afidopyropen	0.0020	U	ug/L	P441220	
		Bentazon	0.023		ug/L	P441220	
		Sucralose	0.22		ug/L	P441276	
		Benzovindiflupyr	0.0020	U	ug/L	P441220	
		Carbamazepine	8.0E-04	U	ug/L	P441220	
		Clothianidin	0.0034	I	ug/L	P441220	
		Dinotefuran	0.0020	U	ug/L	P441220	
		Diuron	0.0058	I	ug/L	P441220	
		Fenuron	0.032	U	ug/L	P441220	
		Fluridone	0.0094		ug/L	P441220	
		Imazapyr	0.11		ug/L	P441220	
		Hydrocodone	0.0020	U	ug/L	P441220	
		Ibuprofen	0.080	U	ug/L	P441220	
		Imidacloprid	0.012		ug/L	P441220	
		Linuron	0.0040	U	ug/L	P441220	
		Mandestrobin	0.0020	U	ug/L	P441220	
		MCPP	0.0020	U	ug/L	P441220	
		Naproxen	0.0080	U	ug/L	P441220	
		Primidone	0.0040	U	ug/L	P441220	
		Pyraclostrobin	0.0020	U	ug/L	P441220	
		Silvex	0.0040	U	ug/L	P441220	
		Thiamethoxam	0.0020	U	ug/L	P441220	
		Tolfenpyrad	0.0020	U	ug/L	P441220	
		Triclopyr	0.0040	U	ug/L	P441220	
2468048	EPA 8270E	Aldrin	0.68	U	ng/L	P441041	

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468048	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P441041	
		Alpha-Chlordane	0.21	U	ng/L	P441041	
		PCB-1016	2.1	U	ng/L	P441041	
		Beta-BHC	0.10	U	ng/L	P441041	
		PCB-1221	2.1	U	ng/L	P441041	
		Beta-Cyfluthrin	1.3	U	ng/L	P441041	
		PCB-1232	2.1	U	ng/L	P441041	
		Bifenthrin	0.52	U	ng/L	P441041	
		PCB-1242	2.1	U	ng/L	P441041	
		PCB-1248	2.1	U	ng/L	P441041	
		Chlorothalonil	3.8	U	ng/L	P441041	
		PCB-1254	2.1	U	ng/L	P441041	
		Cis-Nonachlor	0.21	U	ng/L	P441041	
		PCB-1260	2.1	U	ng/L	P441041	
		Cypermethrin	1.6	U	ng/L	P441041	
		Dacthal	0.16	U	ng/L	P441041	
		DDD-p,p'	0.26	U	ng/L	P441041	
		DDE-p,p'	0.21	U	ng/L	P441041	
		DDT-p,p'	1.3	I	ng/L	P441041	
		Delta-BHC	0.42	U	ng/L	P441041	
		Deltamethrin	1.3	U	ng/L	P441041	
		Dichlobenil	0.26	U	ng/L	P441041	
		Dicofol	1.3	UJ	ng/L	P441041	CCV
		Dieldrin	0.42	U	ng/L	P441041	
		Endosulfan I	0.42	UJ	ng/L	P441041	LCS, MS
		Endosulfan II	0.94	U	ng/L	P441041	
		Endosulfan Sulfate	0.31	U	ng/L	P441041	
		Endrin	0.94	U	ng/L	P441041	
		Endrin Aldehyde	0.78	U	ng/L	P441041	
		Endrin Ketone	0.42	U	ng/L	P441041	MS
		Esfenvalerate	0.78	U	ng/L	P441041	
		Ethalfuralin	0.16	U	ng/L	P441041	
		Fenpropathrin	0.26	U	ng/L	P441041	
		Gamma-BHC	0.13	UJ	ng/L	P441041	LCS
		Gamma-Chlordane	0.21	U	ng/L	P441041	MS
		Heptachlor	0.21	U	ng/L	P441041	
		Heptachlor Epoxide	0.26	UJ	ng/L	P441041	LCS, MS
		Hexachlorobenzene**	1.0	U	ng/L	P441041	
		Kepone	14	U	ng/L	P441041	
		Lambda-Cyhalothrin	0.78	U	ng/L	P441041	
		Methoprene	0.78	U	ng/L	P441041	
		Methoxychlor	0.31	U	ng/L	P441041	
		MGK-264	0.21	U	ng/L	P441041	
		Mirex	0.37	U	ng/L	P441041	
		Oxychlordane	0.31	UJ	ng/L	P441041	LCS, MS

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468048	EPA 8270E	Permethrin	1.7	U	ng/L	P441041	
		Phenothrin	0.94	U	ng/L	P441041	
		Piperonyl Butoxide	0.16	U	ng/L	P441041	
		Prallethrin	2.1	U	ng/L	P441041	
		Tau-Fluvalinate	0.26	U	ng/L	P441041	
		Tetramethrin	0.78	U	ng/L	P441041	
		Trans-Nonachlor	0.21	U	ng/L	P441041	
		Triclosan Methyl	0.16	U	ng/L	P441041	MS
		Trifluralin	0.21	U	ng/L	P441041	
		Chlordane	2.1	U	ng/L	P441041	
2468049	EPA 8276	Toxaphene	16	U	ng/L	P441041	
	EPA 8270E	Oxybenzone**	11	U	ng/L	P441143	
		Acetochlor	0.21	U	ng/L	P441143	
		Octinoxate**	160	U	ng/L	P441143	
		Alachlor	0.42	U	ng/L	P441143	
		Avobenzone**	110	U	ng/L	P441143	
		Ametryn	1.2	U	ng/L	P441143	
		Atrazine	300		ng/L	P441143	
		PBDE-47**	4.2	U	ng/L	P441143	
		Atrazine Desethyl	23		ng/L	P441143	
		PBDE-99**	5.3	U	ng/L	P441143	
		Azinphos Methyl	3.2	U	ng/L	P441143	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P441143	
		Azoxystrobin	2.5	J	ng/L	P441143	
		Bromacil	7.7		ng/L	P441143	
		2-Ethylhexyl	13	U	ng/L	P441143	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.47	U	ng/L	P441143	
		Dechlorane Plus**	32	U	ng/L	P441143	
		Caffeine**	26	I	ng/L	P441143	
		Dechlorane 602**	5.3	U	ng/L	P441143	
		Carbophenothion	0.53	U	ng/L	P441143	
		Dechlorane 603**	4.2	U	ng/L	P441143	
		Carfentrazone Ethyl	0.16	U	ng/L	P441143	
		Hexabromobenzene**	6.3	U	ng/L	P441143	
		Chlorfenapyr	0.32	U	ng/L	P441143	
		PBB-153**	6.3	U	ng/L	P441143	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P441143	
		Pentabromotoluene**	3.2	U	ng/L	P441143	
		Chlorpyrifos Methyl	0.11	U	ng/L	P441143	
		Tris(2-chloroethyl) phosphate (TCEP)**	58	U	ng/L	P441143	RPD
		Coumaphos	1.1	U	ng/L	P441143	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P441143	
		Cyanazine	5.3	U	ng/L	P441143	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	5.8	I	ng/L	P441143	

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468049	EPA 8270E	Cyprodinil	0.21	U	ng/L	P441143	
		Tetradecachloro-m-terphenyl**	7.9	U	ng/L	P441143	
		Demeton	3.7	U	ng/L	P441143	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	63	U	ng/L	P441143	MS
		Diazinon	0.13	U	ng/L	P441143	
		Difenoconazole	0.63	U	ng/L	P441143	
		Dimethenamid	0.11	U	ng/L	P441143	
		Dimethomorph	0.32	U	ng/L	P441143	
		Disulfoton	0.63	U	ng/L	P441143	
		Dithiopyr	1.8	I J	ng/L	P441143	CCV, MS
		EPTC	0.53	U	ng/L	P441143	
		Ethion	0.32	U	ng/L	P441143	
		Ethoprop	0.13	U	ng/L	P441143	
		Etridiazole	0.11	U	ng/L	P441143	
		Fenamiphos	0.47	U	ng/L	P441143	MS
		Fenbuconazole	0.53	U	ng/L	P441143	
		Fipronil	0.95	I	ng/L	P441143	
		Fipronil Desulfinyl**	1.6		ng/L	P441143	
		Fipronil Sulfide	1.8		ng/L	P441143	
		Fipronil Sulfone	3.9		ng/L	P441143	
		Fluazifop-P-butyl	0.11	U	ng/L	P441143	RPD
		Fludioxonil	0.11	U	ng/L	P441143	
		Flumioxazin	3.2	U	ng/L	P441143	
		Flutolanil	0.11	U	ng/L	P441143	
		Fluxapyroxad	0.26	U	ng/L	P441143	
		Fonofos	0.16	U	ng/L	P441143	
		Hexazinone	0.53	U	ng/L	P441143	
		Imazalil	0.68	U	ng/L	P441143	
		Iprodione	0.53	U	ng/L	P441143	
		Loratadine**	0.32	U	ng/L	P441143	
		Malathion	0.37	U	ng/L	P441143	
		Metalaxyl	0.53	U	ng/L	P441143	
		Metolachlor	0.82	I	ng/L	P441143	
		Metribuzin	0.42	U	ng/L	P441143	
		Mevinphos	1.1	U	ng/L	P441143	
		Molinate	0.26	U	ng/L	P441143	
		Myclobutanil	4.2		ng/L	P441143	
		Naled	2.6	U	ng/L	P441143	
		Napropamide	0.74	U	ng/L	P441143	
		Norflurazon	1.1	U	ng/L	P441143	
		Oxadiazon	0.37	U	ng/L	P441143	
		Oxyfluorfen	0.21	U	ng/L	P441143	
		Parathion Ethyl	0.16	U	ng/L	P441143	
		Parathion Methyl	0.21	U	ng/L	P441143	

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468049	EPA 8270E	Pendimethalin	1.8	U	ng/L	P441143	MS
		Phenytain**	5.6	U	ng/L	P441143	
		Phorate	0.26	U	ng/L	P441143	
		Prodiamine	0.82	I	ng/L	P441143	
		Prometon	3.2	U	ng/L	P441143	
		Prometryn	0.37	U	ng/L	P441143	RPD
		Pronamide	0.11	U	ng/L	P441143	
		Propanil	0.11	UJ	ng/L	P441143	LCS
		Propargite	0.84	U	ng/L	P441143	
		Propiconazole	6.3		ng/L	P441143	
		Pyraflufen Ethyl	0.32	U	ng/L	P441143	
		Pyridaben	1.5	U	ng/L	P441143	
		Pyriproxyfen	0.26	U	ng/L	P441143	
		Simazine	30		ng/L	P441143	
		Stirophos	0.42	U	ng/L	P441143	
		Sulfentrazone	9.8		ng/L	P441143	
		Tebuconazole	1.5	U	ng/L	P441143	
		Terbufos	0.21	U	ng/L	P441143	
		Terbuthylazine	0.21	U	ng/L	P441143	
		Thiobencarb	0.53	U	ng/L	P441143	
		Triadimefon	0.16	U	ng/L	P441143	
2468050	EPA 200.7 Rev. 4.4	Calcium	35.5		mg/L	P441284	
		Iron	670		ug/L	P441284	
		Magnesium	6.50		mg/L	P441284	
		Potassium	2.0		mg/L	P441284	
		Sodium	17.2		mg/L	P441284	
		Tin	3.0	U	ug/L	P441284	
		Titanium	0.75	U	ug/L	P441284	
		Vanadium	2.0	U	ug/L	P441284	
		Zinc	5.0	U	ug/L	P441284	
	EPA 200.8 Rev. 5.4	Aluminum	37		ug/L	P441284	
		Antimony	0.053	I	ug/L	P441284	
		Arsenic	0.61		ug/L	P441284	
		Barium	39.1		ug/L	P441284	
		Beryllium	0.010	U	ug/L	P441284	
		Boron	23.8		ug/L	P441284	
		Cadmium	0.020	U	ug/L	P441284	
		Chromium	0.40	U	ug/L	P441284	
		Cobalt	0.123		ug/L	P441284	
		Copper	1.26		ug/L	P441284	
		Lead	0.20	U	ug/L	P441284	
		Manganese	22.2		ug/L	P441284	
		Molybdenum	0.15	U	ug/L	P441284	
		Nickel	0.50	U	ug/L	P441284	
		Selenium	0.20	U	ug/L	P441284	

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468050	EPA 200.8 Rev. 5.4	Silver	0.010	U	ug/L	P441284	
		Strontium**	394		ug/L	P441284	
		Thallium	0.10	U	ug/L	P441284	
	SM 2340 B-2011	Hardness	115		mg/L	P441284	

Ref. Method and Comment:

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

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: Estimation for azoxystrobin due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P441284

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P441284

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Strontium	0.20	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 8270E

Batch ID: P441041

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P441041

Component	Result	Code	Units
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P441143

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P441143

Component	Result	Code	Units
Avobenzene	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P441143

Component	Result	Code	Units
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8276
Batch ID: P441041

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

Reference Method: EPA 8321B
Batch ID: P441099

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P441099

Component	Result	Code	Units
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

Reference Method: EPA 8321B

Batch ID: P441220

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
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P441276

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441284

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	95.7		P	85 - 115
Iron	103		P	85 - 115
Magnesium	102		P	85 - 115
Potassium	101		P	85 - 115
Sodium	95.1		P	85 - 115
Tin	99.8		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	97.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441284

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	100		P	85 - 115
Barium	101		P	85 - 115
Beryllium	94.4		P	85 - 115
Boron	106		P	85 - 115
Cadmium	104		P	85 - 115
Chromium	104		P	85 - 115
Cobalt	100		P	85 - 115
Copper	99.7		P	85 - 115
Lead	95.0		P	85 - 115
Manganese	103		P	85 - 115
Molybdenum	99.4		P	85 - 115
Nickel	100		P	85 - 115
Selenium	100		P	85 - 115
Silver	100		P	85 - 115
Strontium	97.9		P	85 - 115
Thallium	99.3		P	85 - 115

Reference Method: EPA 8270E
Batch ID: P441041

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	86.3		P	30 - 96.0
Alpha-BHC	95.8		P	70 - 109
Alpha-Chlordane	76.0		P	45 - 107
Beta-BHC	125		P	64 - 138
Beta-Cyfluthrin	54.7		P	17 - 141
Bifenthrin	49.9		P	10 - 113
Chlorothalonil	77.1		P	26 - 180
Cis-Nonachlor	78.6		P	37 - 102
Cypermethrin	41.1		P	20 - 133
Dacthal	83.6		P	69 - 114
DDD-p,p'	64.2		P	42 - 105
DDE-p,p'	75.3		P	42 - 106
DDT-p,p'	77.4		P	42 - 107
Delta-BHC	95.7		P	67 - 144
Deltamethrin	61.9		P	15 - 149

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441041

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dichlobenil	47.9		P	46 - 117
Dicofol	50.7		P	34 - 114
Dieldrin	78.2		P	50 - 108
Endosulfan I	113		F	55 - 104
Endosulfan II	102		P	51 - 111
Endosulfan Sulfate	89.9		P	56 - 121
Endrin	87.5		P	10 - 106
Endrin Aldehyde	51.7		P	34 - 114
Endrin Ketone	153		P	63 - 177
Esfenvalerate	55.2		P	29 - 143
Ethalfuralin	78.8		P	46 - 96.0
Fenpropathrin	61.2		P	28 - 115
Gamma-BHC	49.4		F	65 - 121
Gamma-Chlordane	93.2		P	39 - 103
Heptachlor	71.2		P	39 - 94.0
Heptachlor Epoxide	111		F	54 - 104
Hexachlorobenzene	54.6		P	36 - 100
Kepone	112		P	10 - 225
Lambda-Cyhalothrin	54.8		P	10 - 135
Methoprene	45.1		P	10 - 109
Methoxychlor	81.2		P	52 - 112
MGK-264	73.0		P	44 - 117
Mirex	62.6		P	20 - 90.0
Oxychlordane	105		F	44 - 102
PCB-1016	83.3		P	45 - 107
PCB-1260	80.2		P	40 - 118
Permethrin	55.8		P	18 - 135
Phenothrin	43.4		P	10 - 102
Piperonyl Butoxide	70.2		P	28 - 156
Prallethrin	72.2		P	28 - 113
Tau-Fluvalinate	42.2		P	10 - 123
Tetramethrin	58.9		P	18 - 158
Trans-Nonachlor	80.0		P	39 - 104
Triclosan Methyl	102		P	54 - 108
Trifluralin	83.4		P	46 - 97.0

Reference Method: EPA 8270E
Batch ID: P441143

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	56.6		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.1		P	37 - 154
Acetochlor	90.4		P	64 - 124
Alachlor	96.4		P	61 - 118
Ametryn	116		P	47 - 158
Atrazine	92.9		P	68 - 121
Atrazine Desethyl	102		P	30 - 119
Avobenzone	140		P	48 - 193
Azinphos Methyl	172		P	30 - 194
Azoxystrobin	94.4		P	58 - 154
Bromacil	94.8		P	47 - 126
Butylate	66.1		P	31 - 83.0

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441143

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Caffeine	92.7		P	10 - 180
Carbophenothion	117		P	59 - 133
Carfentrazone Ethyl	131		P	59 - 147
Chlorfenapyr	82.3		P	52 - 118
Chlorpyrifos Ethyl	111		P	59 - 119
Chlorpyrifos Methyl	114		P	65 - 123
Coumaphos	116		P	11 - 223
Cyanazine	97.7		P	63 - 250
Cyprodinil	92.7		P	52 - 143
Dechlorane 602	100		P	23 - 142
Dechlorane 603	93.5		P	51 - 171
Dechlorane Plus	102		P	46 - 161
Demeton	75.7		P	42 - 119
Diazinon	97.1		P	67 - 132
Difenoconazole	111		P	12 - 204
Dimethenamid	88.5		P	53 - 113
Dimethomorph	114		P	13 - 238
Disulfoton	102		P	56 - 126
Dithiopyr	92.4		P	58 - 127
EPTC	63.2		P	31 - 78.0
Ethion	84.7		P	24 - 127
Ethoprop	90.8		P	60 - 118
Etridiazole	64.6		P	32 - 91.0
Fenamiphos	97.2		P	54 - 129
Fenbuconazole	102		P	31 - 162
Fipronil	80.7		P	56 - 131
Fipronil Desulfinyl	113		P	58 - 132
Fipronil Sulfide	96.2		P	51 - 123
Fipronil Sulfone	90.4		P	50 - 125
Fluazifop-P-butyl	96.9		P	52 - 132
Fludioxonil	97.0		P	52 - 129
Flumioxazin	142		P	34 - 250
Flutolanil	113		P	45 - 128
Fluxapyroxad	96.8		P	31 - 150
Fonofos	92.2		P	60 - 116
Hexabromobenzene	78.9		P	52 - 165
Hexazinone	94.7		P	59 - 120
Imazalil	97.4		P	39 - 134
Iprodione	96.6		P	39 - 243
Loratadine	109		P	10 - 240
Malathion	106		P	53 - 145
Metalaxyl	94.2		P	59 - 120
Metolachlor	105		P	64 - 122
Metribuzin	106		P	33 - 128
Mevinphos	96.1		P	48 - 119
Molinate	63.9		P	42 - 89.0
Myclobutanil	92.3		P	54 - 129
Naled	58.4		P	10 - 138
Napropamide	103		P	40 - 122
Norflurazon	89.1		P	49 - 132
Octinoxate	125		P	29 - 176
Oxadiazon	83.9		P	50 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441143

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxybenzone	123		P	45 - 145
Oxyfluorfen	123		P	62 - 149
Parathion Ethyl	109		P	68 - 119
Parathion Methyl	113		P	68 - 147
PBB-153	92.2		P	42 - 179
PBDE-47	115		P	44 - 141
PBDE-99	95.0		P	36 - 141
Pendimethalin	145		P	59 - 158
Pentabromotoluene	85.8		P	58 - 148
Phenytoln	48.2		P	10 - 151
Phorate	93.3		P	44 - 124
Prodiamine	47.6		P	10 - 136
Prometon	101		P	45 - 131
Prometryn	127		P	52 - 140
Pronamide	115		P	70 - 129
Propanil	161		F	54 - 144
Propargite	71.9		P	10 - 191
Propiconazole	82.4		P	49 - 128
Pyraflufen Ethyl	86.1		P	46 - 141
Pyridaben	119		P	29 - 198
Pyriproxyfen	110		P	33 - 221
Simazine	107		P	62 - 119
Stiophos	120		P	13 - 144
Sulfentrazone	69.2		P	12 - 152
Tebuconazole	87.3		P	10 - 135
Terbufos	98.0		P	67 - 136
Terbutylazine	82.0		P	66 - 113
Tetradecachloro-m-terphenyl	80.6		P	30 - 235
Thiobencarb	113		P	51 - 125
Tri-o-cresyl Phosphate	123		P	50 - 150
Triadimefon	106		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	117		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	122		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	125		P	59 - 166

Reference Method: EPA 8276
Batch ID: P441041

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	92.2		P	52 - 117
Toxaphene	93.1		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P441099

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	78.8		P	40 - 150
Aldicarb	59.4		P	30 - 150
Aldicarb Sulfone	91.3		P	40 - 150
Aldicarb Sulfoxide	98.1		P	40 - 150
Carbaryl	65.8		P	40 - 150
Carbofuran	72.7		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P441099

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methiocarb	64.5		P	40 - 150
Methomyl	85.3		P	40 - 150
Oxamyl	89.1		P	40 - 150
Propoxur	61.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441220

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	70.8		P	40 - 150
2,4,5-T	68.5		P	40 - 150
Acetaminophen	77.6		P	30 - 150
Acetamiprid	69.0		P	40 - 150
Afidopyropen	60.2		P	30 - 150
Bentazon	68.7		P	30 - 150
Benzovindiflupyr	77.5		P	40 - 150
Carbamazepine	73.1		P	40 - 150
Clothianidin	79.6		P	40 - 150
Dinotefuran	89.3		P	40 - 150
Diuron	69.4		P	40 - 150
Fenuron	83.7		P	40 - 150
Fluridone	80.3		P	40 - 150
Hydrocodone	85.8		P	40 - 150
Ibuprofen	78.9		P	40 - 150
Imazapyr	69.9		P	40 - 150
Imidacloprid	79.9		P	40 - 150
Linuron	73.3		P	40 - 150
Mandestrobin	73.7		P	40 - 150
MCPP	65.1		P	40 - 150
Naproxen	77.8		P	40 - 150
Primidone	70.0		P	40 - 150
Pyraclostrobin	74.8		P	40 - 150
Silvex	56.5		P	40 - 150
Thiamethoxam	85.8		P	40 - 150
Tolfenpyrad	49.0		P	30 - 150
Triclopyr	66.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.3		P	40 - 150
AMPA	94.6		P	40 - 160
Endothall	92.0		P	40 - 160
Glufosinate	74.7		P	40 - 160
Glyphosate	79.1		P	40 - 160
Sucralose	100		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467690	Calcium	105		P	80 - 120
2467690	Iron	99.8	103	P/P	80 - 120
2467690	Magnesium	102	107	P/P	80 - 120
2467690	Potassium	104	106	P/P	80 - 120
2467690	Sodium	103		P	80 - 120
2467690	Tin	109	107	P/P	80 - 120
2467690	Titanium	107	105	P/P	80 - 120
2467690	Vanadium	108	105	P/P	80 - 120
2467690	Zinc	112	111	P/P	80 - 120
2468050	Calcium	105		P	80 - 120
2468050	Iron	100		P	80 - 120
2468050	Magnesium	103		P	80 - 120
2468050	Potassium	107		P	80 - 120
2468050	Sodium	109		P	80 - 120
2468050	Tin	110		P	80 - 120
2468050	Titanium	106		P	80 - 120
2468050	Vanadium	106		P	80 - 120
2468050	Zinc	110		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467690	Aluminum	102	101	P/P	80 - 120
2467690	Antimony	103	102	P/P	80 - 120
2467690	Arsenic	104	103	P/P	80 - 120
2467690	Barium	103	102	P/P	80 - 120
2467690	Beryllium	98.6	96.7	P/P	80 - 120
2467690	Boron	104	106	P/P	80 - 120
2467690	Cadmium	103	102	P/P	80 - 120
2467690	Chromium	108	107	P/P	80 - 120
2467690	Cobalt	102	102	P/P	80 - 120
2467690	Copper	102	100	P/P	80 - 120
2467690	Lead	98.6	98.1	P/P	80 - 120
2467690	Manganese	104	104	P/P	80 - 120
2467690	Molybdenum	103	102	P/P	80 - 120
2467690	Nickel	103	102	P/P	80 - 120
2467690	Selenium	103	102	P/P	80 - 120
2467690	Silver	99.9	98.3	P/P	80 - 120
2467690	Strontium	100	99.4	P/P	80 - 120
2467690	Thallium	103	103	P/P	80 - 120
2468050	Aluminum	101		P	80 - 120
2468050	Antimony	106		P	80 - 120
2468050	Arsenic	106		P	80 - 120
2468050	Barium	105		P	80 - 120
2468050	Beryllium	104		P	80 - 120
2468050	Boron	105		P	80 - 120
2468050	Cadmium	104		P	80 - 120
2468050	Chromium	109		P	80 - 120
2468050	Cobalt	104		P	80 - 120
2468050	Copper	102		P	80 - 120
2468050	Lead	98.2		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468050	Manganese	107		P	80 - 120
2468050	Molybdenum	106		P	80 - 120
2468050	Nickel	105		P	80 - 120
2468050	Selenium	104		P	80 - 120
2468050	Silver	99.4		P	80 - 120
2468050	Strontium	103		P	80 - 120
2468050	Thallium	104		P	80 - 120

Reference Method: EPA 8270E
Batch ID: P441041

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466705	Aldrin	71.9	67.0	P/P	24 - 81.0
2466705	Alpha-BHC	96.3	85.2	P/P	65 - 110
2466705	Alpha-Chlordane	70.2	53.6	P/P	43 - 119
2466705	Beta-BHC	97.2	99.8	P/P	54 - 165
2466705	Beta-Cyfluthrin	88.8	84.7	P/P	27 - 165
2466705	Bifenthrin	75.9	62.8	P/P	17 - 117
2466705	Chlorothalonil	106	91.0	P/P	10 - 255
2466705	Cis-Nonachlor	64.6	59.8	P/P	34 - 98.0
2466705	Cypermethrin	79.7	73.5	P/P	25 - 143
2466705	Dacthal	73.7	70.9	P/P	55 - 139
2466705	DDD-p,p'	55.6	49.4	P/P	30 - 109
2466705	DDE-p,p'	66.1	60.1	P/P	35 - 106
2466705	DDT-p,p'	77.2	64.0	P/P	41 - 101
2466705	Delta-BHC	97.7	99.4	P/P	58 - 165
2466705	Deltamethrin	113	97.7	P/P	10 - 194
2466705	Dichlobenil	23.1	22.9	P/P	22 - 114
2466705	Dicofol	58.1	48.7	P/P	17 - 133
2466705	Dieldrin	66.7	64.5	P/P	45 - 129
2466705	Endosulfan I	155	146	F/F	49 - 104
2466705	Endosulfan II	90.2	88.1	P/P	37 - 117
2466705	Endosulfan Sulfate	71.0	69.4	P/P	38 - 128
2466705	Endrin	75.8	71.9	P/P	35 - 116
2466705	Endrin Aldehyde	23.8	25.3	P/P	19 - 108
2466705	Endrin Ketone	203	177	F/F	44 - 134
2466705	Esfenvalerate	96.0	87.0	P/P	27 - 176
2466705	Ethalfuralin	69.5	65.2	P/P	49 - 100
2466705	Fenpropathrin	78.7	71.1	P/P	34 - 117
2466705	Gamma-BHC	68.3	69.7	P/P	59 - 129
2466705	Gamma-Chlordane	132	95.7	F/P	33 - 107
2466705	Heptachlor	78.1	67.8	P/P	37 - 94.0
2466705	Heptachlor Epoxide	152	126	F/F	38 - 118
2466705	Hexachlorobenzene	41.6	42.4	P/P	35 - 97.0
2466705	Kepone	57.0	56.5	P/P	10 - 221
2466705	Lambda-Cyhalothrin	82.3	77.4	P/P	23 - 190
2466705	Methoprene	78.5	64.2	P/P	21 - 109
2466705	Methoxychlor	97.2	86.5	P/P	46 - 118
2466705	MGK-264	72.3	65.2	P/P	39 - 122
2466705	Mirex	58.8	47.4	P/P	25 - 90.0
2466705	Oxychlordane	163	136	F/F	42 - 100
2466705	Permethrin	87.2	76.5	P/P	33 - 181

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P441041

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466705	Phenothrin	80.5	67.8	P/P	12 - 125
2466705	Piperonyl Butoxide	92.1	74.4	P/P	10 - 178
2466705	Prallethrin	77.6	65.3	P/P	24 - 122
2466705	Tau-Fluvalinate	73.0	65.9	P/P	13 - 151
2466705	Tetramethrin	101	90.8	P/P	16 - 172
2466705	Trans-Nonachlor	67.6	61.2	P/P	39 - 100
2466705	Triclosan Methyl	129	107	F/P	43 - 110
2466705	Trifluralin	81.4	69.8	P/P	45 - 94.0
2467402	PCB-1016	82.7	83.1	P/P	45 - 107
2467402	PCB-1260	60.0	59.7	P/P	40 - 112

Reference Method: EPA 8270E
Batch ID: P441143

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467403	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	43.1	33.1	F/F	50 - 150
2467403	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	84.4	86.0	P/P	29 - 155
2467403	Acetochlor	96.3	90.9	P/P	60 - 124
2467403	Alachlor	93.7	88.3	P/P	54 - 122
2467403	Ametryn	120	94.1	P/P	51 - 208
2467403	Atrazine	116	86.6	P/P	57 - 131
2467403	Atrazine Desethyl	109	104	P/P	13 - 124
2467403	Avobenzone	99.6	98.1	P/P	35 - 187
2467403	Azinphos Methyl	165	171	P/P	43 - 276
2467403	Azoxystrobin	113	106	P/P	52 - 300
2467403	Bromacil	108	95.0	P/P	44 - 134
2467403	Butylate	71.9	47.9	P/P	23 - 82.0
2467403	Caffeine	108	112	P/P	10 - 277
2467403	Carbophenothion	107	119	P/P	47 - 135
2467403	Carfentrazone Ethyl	120	117	P/P	46 - 147
2467403	Chlorfenapyr	81.5	71.0	P/P	43 - 114
2467403	Chlorpyrifos Ethyl	111	112	P/P	47 - 124
2467403	Chlorpyrifos Methyl	133	119	P/P	60 - 135
2467403	Coumaphos	91.7	106	P/P	10 - 222
2467403	Cyanazine	126	124	P/P	10 - 257
2467403	Cyprodinil	114	89.5	P/P	42 - 148
2467403	Dechlorane 602	49.2	59.8	P/P	14 - 133
2467403	Dechlorane 603	99.3	90.5	P/P	18 - 191
2467403	Dechlorane Plus	84.2	87.2	P/P	23 - 154
2467403	Demeton	73.6	67.7	P/P	41 - 137
2467403	Diazinon	112	101	P/P	64 - 139
2467403	Difenoconazole	85.8	80.7	P/P	46 - 254
2467403	Dimethenamid	98.6	91.2	P/P	47 - 117
2467403	Dimethomorph	128	112	P/P	14 - 255
2467403	Disulfoton	123	111	P/P	52 - 130
2467403	Dithiopyr	139	112	F/P	40 - 121
2467403	EPTC	65.8	42.1	P/P	19 - 78.0
2467403	Ethion	48.6	63.6	P/P	12 - 124
2467403	Ethoprop	104	93.2	P/P	68 - 144
2467403	Etridiazole	66.3	46.0	P/P	26 - 96.0
2467403	Fenamiphos	132	116	F/P	41 - 129
2467403	Fenbuconazole	66.2	81.4	P/P	26 - 169

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P441143

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467403	Fipronil	93.4	70.2	P/P	46 - 145
2467403	Fipronil Desulfinyl	111	82.2	P/P	47 - 136
2467403	Fipronil Sulfide	105	77.9	P/P	41 - 127
2467403	Fipronil Sulfone	61.9	56.0	P/P	35 - 133
2467403	Fluazifop-P-butyl	95.3	56.4	P/P	46 - 131
2467403	Fludioxonil	83.4	92.2	P/P	51 - 124
2467403	Flumioxazin	87.8	80.4	P/P	10 - 289
2467403	Flutolanil	111	113	P/P	34 - 130
2467403	Fluxapyroxad	70.6	89.5	P/P	10 - 197
2467403	Fonofos	111	86.3	P/P	42 - 131
2467403	Hexabromobenzene	93.1	132	P/P	47 - 178
2467403	Hexazinone	98.1	95.8	P/P	64 - 125
2467403	Imazalil	84.0	86.7	P/P	37 - 252
2467403	Iprodione	94.2	90.0	P/P	34 - 265
2467403	Loratadine	120	89.3	P/P	20 - 231
2467403	Malathion	115	106	P/P	34 - 164
2467403	Metalaxyl	84.5	73.6	P/P	49 - 125
2467403	Metolachlor	113	100	P/P	54 - 125
2467403	Metribuzin	111	96.5	P/P	51 - 139
2467403	Mevinphos	112	97.2	P/P	46 - 130
2467403	Molinate	67.0	58.2	P/P	39 - 93.0
2467403	Myclobutanil	92.7	85.1	P/P	50 - 130
2467403	Naled	58.8	55.6	P/P	10 - 150
2467403	Napropamide	65.2	70.7	P/P	10 - 109
2467403	Norflurazon	70.4	72.7	P/P	36 - 134
2467403	Octinoxate	108	100	P/P	18 - 170
2467403	Oxadiazon	86.3	68.3	P/P	43 - 112
2467403	Oxybenzone	107	89.3	P/P	33 - 154
2467403	Oxyfluorfen	119	124	P/P	62 - 154
2467403	Parathion Ethyl	89.6	96.3	P/P	65 - 120
2467403	Parathion Methyl	124	120	P/P	77 - 185
2467403	PBB-153	93.8	88.3	P/P	23 - 193
2467403	PBDE-47	94.1	90.2	P/P	31 - 139
2467403	PBDE-99	77.9	78.7	P/P	24 - 138
2467403	Pendimethalin	166	142	F/P	50 - 146
2467403	Pentabromotoluene	90.3	79.3	P/P	54 - 152
2467403	Phenytoin	60.1	68.2	P/P	10 - 157
2467403	Phorate	95.0	95.5	P/P	54 - 161
2467403	Prodiamine	71.3	58.5	P/P	29 - 160
2467403	Prometon	111	108	P/P	38 - 145
2467403	Prometryn	146	91.9	P/P	32 - 151
2467403	Pronamide	112	106	P/P	61 - 140
2467403	Propanil	136	146	P/P	50 - 147
2467403	Propargite	48.8	54.4	P/P	10 - 190
2467403	Propiconazole	72.9	75.6	P/P	30 - 146
2467403	Pyraflufen Ethyl	64.0	81.7	P/P	30 - 147
2467403	Pyridaben	97.3	97.3	P/P	15 - 195
2467403	Pyriproxyfen	88.1	85.9	P/P	31 - 218
2467403	Simazine	137	94.8	P/P	45 - 139
2467403	Stirophos	69.0	37.4	P/P	10 - 134
2467403	Sulfentrazone	72.1	60.7	P/P	53 - 186
2467403	Tebuconazole	42.4	54.6	P/P	10 - 133

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P441143

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467403	Terbufos	114	88.6	P/P	65 - 151
2467403	Terbutylazine	93.3	82.0	P/P	62 - 117
2467403	Tetradecachloro-m-terphenyl	143	96.4	P/P	10 - 260
2467403	Thiobencarb	109	102	P/P	48 - 122
2467403	Tri-o-cresyl Phosphate	107	92.7	P/P	32 - 151
2467403	Triadimefon	98.1	102	P/P	46 - 124
2467403	Tris(1-chloro-2-propyl) phosphate (TCPP)	122	97.8	P/P	51 - 154
2467403	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	121	104	P/P	59 - 147
2467403	Tris(2-chloroethyl) phosphate (TCEP)	134	108	P/P	65 - 156

Reference Method: EPA 8276
Batch ID: P441041

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467402	Chlordane	77.8	93.4	P/P	43 - 123
2467402	Toxaphene	77.4	92.7	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P441099

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466833	3-Hydroxycarbofuran	73.1	66.9	P/P	40 - 150
2466833	Aldicarb	68.3	52.1	P/P	30 - 150
2466833	Aldicarb Sulfone	89.9	82.7	P/P	40 - 150
2466833	Aldicarb Sulfoxide	31.9	33.1	F/F	40 - 150
2466833	Carbaryl	64.4	65.1	P/P	40 - 150
2466833	Carbofuran	65.2	61.4	P/P	40 - 150
2466833	Methiocarb	64.9	62.0	P/P	40 - 150
2466833	Methomyl	77.4	72.5	P/P	40 - 150
2466833	Oxamyl	84.4	79.5	P/P	40 - 150
2466833	Propoxur	60.2	58.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441220

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467206	2,4-D	59.3	61.4	P/P	40 - 150
2467206	2,4,5-T	55.1	54.3	P/P	40 - 150
2467206	Acetaminophen	80.1	87.4	P/P	30 - 150
2467206	Acetamiprid	59.1	66.0	P/P	40 - 150
2467206	Afidopyropen	60.4	67.2	P/P	30 - 150
2467206	Benzovindiflupyr	75.6	86.2	P/P	40 - 150
2467206	Carbamazepine	62.2	65.6	P/P	40 - 150
2467206	Clothianidin	78.7	79.5	P/P	40 - 150
2467206	Dinotefuran	81.1	91.2	P/P	40 - 150
2467206	Diuron	56.0	60.5	P/P	40 - 150
2467206	Fenuron	99.5	102	P/P	40 - 150
2467206	Hydrocodone	68.7	74.3	P/P	40 - 150
2467206	Ibuprofen	90.8	108	P/P	40 - 150
2467206	Imidacloprid	96.9	108	P/P	40 - 150
2467206	Linuron	61.3	64.9	P/P	40 - 150
2467206	Mandestrobin	74.6	80.4	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P441220

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467206	MCP	61.9	69.9	P/P	40 - 150
2467206	Naproxen	134	114	P/P	40 - 150
2467206	Primidone	68.4	78.2	P/P	40 - 150
2467206	Pyraclostrobin	76.7	89.4	P/P	40 - 150
2467206	Silvex	55.5	56.6	P/P	40 - 150
2467206	Thiamethoxam	75.5	84.9	P/P	40 - 150
2467206	Tolfenpyrad	46.7	57.9	P/P	30 - 150
2467206	Triclopyr	53.3	53.8	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P441276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467984	Acesulfame K	116	117	P/P	40 - 150
2467984	AMPA	80.4	83.8	P/P	40 - 160
2467984	Endothall	99.2	97.5	P/P	40 - 160
2467984	Glufosinate	80.6	85.4	P/P	40 - 160
2467984	Glyphosate	68.5	74.9	P/P	40 - 160
2467984	Sucralose	104	108	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467690	Calcium	0.614	Spike	P	0 - 20
2467690	Iron	3.21	Spike	P	0 - 20
2467690	Magnesium	3.08	Spike	P	0 - 20
2467690	Potassium	1.12	Spike	P	0 - 20
2467690	Sodium	0.324	Spike	P	0 - 20
2467690	Titanium	1.89	Spike	P	0 - 20
2467690	Vanadium	2.25	Spike	P	0 - 20
2467690	Zinc	0.955	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467690	Aluminum	0.537	Spike	P	0 - 20
2467690	Antimony	1.01	Spike	P	0 - 20
2467690	Arsenic	1.01	Spike	P	0 - 20
2467690	Barium	1.14	Spike	P	0 - 20
2467690	Beryllium	1.97	Spike	P	0 - 20
2467690	Boron	1.17	Spike	P	0 - 20
2467690	Cadmium	0.545	Spike	P	0 - 20
2467690	Chromium	0.612	Spike	P	0 - 20
2467690	Cobalt	0.328	Spike	P	0 - 20
2467690	Copper	1.77	Spike	P	0 - 20
2467690	Lead	0.524	Spike	P	0 - 20
2467690	Manganese	0.283	Spike	P	0 - 20
2467690	Molybdenum	1.57	Spike	P	0 - 20
2467690	Nickel	0.339	Spike	P	0 - 20
2467690	Selenium	0.0817	Spike	P	0 - 20
2467690	Silver	1.58	Spike	P	0 - 20
2467690	Strontium	0.877	Spike	P	0 - 20
2467690	Thallium	0.383	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P441041

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466705	Aldrin	6.94	Spike	P	0 - 41
2466705	Alpha-BHC	12.3	Spike	P	0 - 25
2466705	Alpha-Chlordane	23.9	Spike	P	0 - 32
2466705	Beta-BHC	2.64	Spike	P	0 - 33
2466705	Beta-Cyfluthrin	4.77	Spike	P	0 - 43
2466705	Bifenthrin	18.8	Spike	P	0 - 52
2466705	Chlorothalonil	14.9	Spike	P	0 - 82
2466705	Cis-Nonachlor	7.66	Spike	P	0 - 33
2466705	Cypermethrin	8.11	Spike	P	0 - 51
2466705	Dacthal	3.96	Spike	P	0 - 27
2466705	DDD-p,p'	11.7	Spike	P	0 - 39
2466705	DDE-p,p'	9.51	Spike	P	0 - 31
2466705	DDT-p,p'	18.7	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P441041

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466705	Delta-BHC	1.60	Spike	P	0 - 35
2466705	Deltamethrin	14.5	Spike	P	0 - 100
2466705	Dichlobenil	0.720	Spike	P	0 - 40
2466705	Dicofol	17.6	Spike	P	0 - 37
2466705	Dieldrin	3.43	Spike	P	0 - 27
2466705	Endosulfan I	6.04	Spike	P	0 - 23
2466705	Endosulfan II	2.44	Spike	P	0 - 34
2466705	Endosulfan Sulfate	2.26	Spike	P	0 - 36
2466705	Endrin	5.36	Spike	P	0 - 45
2466705	Endrin Aldehyde	6.03	Spike	P	0 - 76
2466705	Endrin Ketone	13.4	Spike	P	0 - 43
2466705	Esfenvalerate	9.77	Spike	P	0 - 51
2466705	Ethalfuralin	6.39	Spike	P	0 - 22
2466705	Fenpropathrin	10.2	Spike	P	0 - 49
2466705	Gamma-BHC	2.01	Spike	P	0 - 28
2466705	Gamma-Chlordane	28.8	Spike	P	0 - 40
2466705	Heptachlor	14.1	Spike	P	0 - 29
2466705	Heptachlor Epoxide	18.0	Spike	P	0 - 33
2466705	Hexachlorobenzene	1.88	Spike	P	0 - 36
2466705	Kepone	0.919	Spike	P	0 - 85
2466705	Lambda-Cyhalothrin	6.17	Spike	P	0 - 55
2466705	Methoprene	20.0	Spike	P	0 - 53
2466705	Methoxychlor	11.6	Spike	P	0 - 50
2466705	MGK-264	10.4	Spike	P	0 - 43
2466705	Mirex	21.6	Spike	P	0 - 40
2466705	Oxychlordane	17.7	Spike	P	0 - 31
2466705	Permethrin	13.1	Spike	P	0 - 50
2466705	Phenothrin	17.1	Spike	P	0 - 58
2466705	Piperonyl Butoxide	21.3	Spike	P	0 - 100
2466705	Prallethrin	17.1	Spike	P	0 - 39
2466705	Tau-Fluvalinate	10.3	Spike	P	0 - 54
2466705	Tetramethrin	10.7	Spike	P	0 - 51
2466705	Trans-Nonachlor	9.99	Spike	P	0 - 39
2466705	Triclosan Methyl	19.0	Spike	P	0 - 31
2466705	Trifluralin	15.3	Spike	P	0 - 22
2467402	PCB-1016	0.493	Spike	P	0 - 25
2467402	PCB-1260	0.489	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P441143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467403	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	26.3	Spike	P	0 - 30
2467403	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	1.87	Spike	P	0 - 35
2467403	Acetochlor	5.79	Spike	P	0 - 28
2467403	Alachlor	5.98	Spike	P	0 - 30
2467403	Ametryn	24.3	Spike	P	0 - 32
2467403	Atrazine	6.95	Spike	P	0 - 33
2467403	Atrazine Desethyl	3.97	Spike	P	0 - 36
2467403	Avobenzone	1.54	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: EPA 8270E
 Batch ID: P441143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467403	Azinphos Methyl	3.32	Spike	P	0 - 62
2467403	Azoxystrobin	6.54	Spike	P	0 - 39
2467403	Bromacil	12.3	Spike	P	0 - 33
2467403	Butylate	40.0	Spike	P	0 - 51
2467403	Caffeine	4.13	Spike	P	0 - 100
2467403	Carbophenothion	10.5	Spike	P	0 - 34
2467403	Carfentrazone Ethyl	2.70	Spike	P	0 - 33
2467403	Chlorfenapyr	13.7	Spike	P	0 - 28
2467403	Chlorpyrifos Ethyl	0.507	Spike	P	0 - 31
2467403	Chlorpyrifos Methyl	10.8	Spike	P	0 - 27
2467403	Coumaphos	14.5	Spike	P	0 - 62
2467403	Cyanazine	1.56	Spike	P	0 - 48
2467403	Cyprodinil	23.8	Spike	P	0 - 29
2467403	Dechlorane 602	19.3	Spike	P	0 - 60
2467403	Dechlorane 603	9.28	Spike	P	0 - 40
2467403	Dechlorane Plus	3.48	Spike	P	0 - 38
2467403	Demeton	8.40	Spike	P	0 - 33
2467403	Diazinon	10.3	Spike	P	0 - 32
2467403	Difenoconazole	6.12	Spike	P	0 - 71
2467403	Dimethenamid	7.76	Spike	P	0 - 60
2467403	Dimethomorph	13.7	Spike	P	0 - 61
2467403	Disulfoton	10.3	Spike	P	0 - 30
2467403	Dithiopyr	21.8	Spike	P	0 - 28
2467403	EPTC	43.8	Spike	P	0 - 56
2467403	Ethion	26.8	Spike	P	0 - 79
2467403	Ethoprop	11.4	Spike	P	0 - 31
2467403	Etridiazole	36.2	Spike	P	0 - 43
2467403	Fenamiphos	13.4	Spike	P	0 - 43
2467403	Fenbuconazole	20.6	Spike	P	0 - 79
2467403	Fipronil	24.7	Spike	P	0 - 46
2467403	Fipronil Desulfinyl	27.6	Spike	P	0 - 36
2467403	Fipronil Sulfide	16.2	Spike	P	0 - 34
2467403	Fipronil Sulfone	3.28	Spike	P	0 - 47
2467403	Fluazifop-P-butyl	51.2	Spike	F	0 - 38
2467403	Fludioxonil	9.95	Spike	P	0 - 29
2467403	Flumioxazin	8.81	Spike	P	0 - 63
2467403	Flutolanil	1.37	Spike	P	0 - 36
2467403	Fluxapyroxad	23.6	Spike	P	0 - 65
2467403	Fonofos	25.0	Spike	P	0 - 35
2467403	Hexabromobenzene	34.5	Spike	P	0 - 41
2467403	Hexazinone	2.41	Spike	P	0 - 31
2467403	Imazalil	3.18	Spike	P	0 - 52
2467403	Iprodione	4.62	Spike	P	0 - 49
2467403	Loratadine	29.6	Spike	P	0 - 59
2467403	Malathion	8.26	Spike	P	0 - 77
2467403	Metalaxyl	13.7	Spike	P	0 - 76
2467403	Metolachlor	11.8	Spike	P	0 - 29
2467403	Metribuzin	14.0	Spike	P	0 - 51
2467403	Mevinphos	14.1	Spike	P	0 - 31
2467403	Molinate	14.0	Spike	P	0 - 39
2467403	Myclobutanil	8.53	Spike	P	0 - 34

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P441143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467403	Naled	5.43	Spike	P	0 - 37
2467403	Napropamide	8.10	Spike	P	0 - 100
2467403	Norflurazon	3.19	Spike	P	0 - 54
2467403	Octinoxate	7.95	Spike	P	0 - 35
2467403	Oxadiazon	23.3	Spike	P	0 - 34
2467403	Oxybenzone	17.8	Spike	P	0 - 35
2467403	Oxyfluorfen	4.12	Spike	P	0 - 28
2467403	Parathion Ethyl	7.24	Spike	P	0 - 31
2467403	Parathion Methyl	3.40	Spike	P	0 - 29
2467403	PBB-153	6.11	Spike	P	0 - 49
2467403	PBDE-47	4.18	Spike	P	0 - 36
2467403	PBDE-99	1.08	Spike	P	0 - 46
2467403	Pendimethalin	16.0	Spike	P	0 - 31
2467403	Pentabromotoluene	12.9	Spike	P	0 - 16
2467403	Phenytoin	12.5	Spike	P	0 - 100
2467403	Phorate	0.546	Spike	P	0 - 36
2467403	Prodiamine	19.7	Spike	P	0 - 68
2467403	Prometon	2.19	Spike	P	0 - 35
2467403	Prometryn	45.2	Spike	F	0 - 33
2467403	Pronamide	5.46	Spike	P	0 - 24
2467403	Propanil	7.02	Spike	P	0 - 28
2467403	Propargite	10.9	Spike	P	0 - 53
2467403	Propiconazole	3.67	Spike	P	0 - 44
2467403	Pyraflufen Ethyl	24.2	Spike	P	0 - 61
2467403	Pyridaben	0.0145	Spike	P	0 - 43
2467403	Pyriproxyfen	2.53	Spike	P	0 - 82
2467403	Simazine	17.2	Spike	P	0 - 29
2467403	Stirophos	59.3	Spike	P	0 - 100
2467403	Sulfentrazone	7.97	Spike	P	0 - 64
2467403	Tebuconazole	25.1	Spike	P	0 - 76
2467403	Terbufos	24.7	Spike	P	0 - 29
2467403	Terbutylazine	12.9	Spike	P	0 - 28
2467403	Tetradecachloro-m-terphenyl	39.0	Spike	P	0 - 42
2467403	Thiobencarb	6.92	Spike	P	0 - 26
2467403	Tri-o-cresyl Phosphate	14.4	Spike	P	0 - 24
2467403	Triadimefon	3.75	Spike	P	0 - 40
2467403	Tris(1-chloro-2-propyl) phosphate (TCPP)	21.9	Spike	P	0 - 30
2467403	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	15.0	Spike	P	0 - 22
2467403	Tris(2-chloroethyl) phosphate (TCEP)	21.9	Spike	F	0 - 15

Reference Method: EPA 8276
Batch ID: P441041

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467402	Chlordane	18.3	Spike	P	0 - 28
2467402	Toxaphene	18.0	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P441099

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466833	3-Hydroxycarbofuran	8.82	Spike	P	0 - 30
2466833	Aldicarb	26.8	Spike	P	0 - 30
2466833	Aldicarb Sulfone	8.36	Spike	P	0 - 30
2466833	Aldicarb Sulfoxide	3.63	Spike	P	0 - 30
2466833	Carbaryl	1.03	Spike	P	0 - 30
2466833	Carbofuran	6.07	Spike	P	0 - 30
2466833	Methiocarb	4.52	Spike	P	0 - 30
2466833	Methomyl	6.56	Spike	P	0 - 30
2466833	Oxamyl	5.97	Spike	P	0 - 30
2466833	Propoxur	2.31	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P441220

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467206	2,4-D	3.29	Spike	P	0 - 30
2467206	2,4,5-T	1.48	Spike	P	0 - 30
2467206	Acetaminophen	8.66	Spike	P	0 - 30
2467206	Acetamiprid	11.0	Spike	P	0 - 30
2467206	Afidopyropen	10.6	Spike	P	0 - 30
2467206	Bentazon	1.19	Spike	P	0 - 30
2467206	Benzovindiflupyr	13.0	Spike	P	0 - 30
2467206	Carbamazepine	5.32	Spike	P	0 - 30
2467206	Clothianidin	0.996	Spike	P	0 - 30
2467206	Dinotefuran	11.8	Spike	P	0 - 30
2467206	Diuron	5.78	Spike	P	0 - 30
2467206	Fenuron	2.05	Spike	P	0 - 30
2467206	Fluridone	5.45	Spike	P	0 - 30
2467206	Hydrocodone	7.90	Spike	P	0 - 30
2467206	Ibuprofen	17.6	Spike	P	0 - 30
2467206	Imazapyr	1.24	Spike	P	0 - 30
2467206	Imidacloprid	10.3	Spike	P	0 - 30
2467206	Linuron	5.73	Spike	P	0 - 30
2467206	Mandestrobin	7.46	Spike	P	0 - 30
2467206	MCPP	12.1	Spike	P	0 - 30
2467206	Naproxen	16.6	Spike	P	0 - 30
2467206	Primidone	13.4	Spike	P	0 - 30
2467206	Pyraclostrobin	15.4	Spike	P	0 - 30
2467206	Silvex	2.08	Spike	P	0 - 30
2467206	Thiamethoxam	11.7	Spike	P	0 - 30
2467206	Tolfenpyrad	21.4	Spike	P	0 - 30
2467206	Triclopyr	0.836	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P441276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467984	Acesulfame K	0.728	Spike	P	0 - 30
2467984	AMPA	3.13	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P441276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467984	Endothall	1.67	Spike	P	0 - 30
2467984	Glufosinate	5.67	Spike	P	0 - 30
2467984	Glyphosate	6.12	Spike	P	0 - 30
2467984	Sucralose	3.16	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2468046
Field Sample ID: 20030852

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	59.2	P	30 - 160

Lab Sample ID: 2468047
Field Sample ID: 20030852

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	55.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	86.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.8	P	30 - 160
EPA 8321B	Diuron-d6	60.5	P	30 - 160
EPA 8321B	Endothall-d6	95.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	89.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	88.5	P	30 - 160
EPA 8321B	Primidone-d5	77.6	P	30 - 160
EPA 8321B	Sucralose-d6	106	P	30 - 160

Lab Sample ID: 2468048
Field Sample ID: 20030852

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	56.7	P	37 - 129
EPA 8270E	Decachlorobiphenyl	107	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	54.4	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	43.9	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	62.6	P	23 - 110
EPA 8276	PCNB	102	P	51 - 130

Lab Sample ID: 2468049
Field Sample ID: 20030852

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	84.7	P	20 - 200
EPA 8270E	Simazine-d10	98.7	P	58 - 137
EPA 8270E	Terbufos-d10	83.5	P	50 - 134
EPA 8270E	Terphenyl-d14	130	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A124149

Included Lab Sample IDs: 2468050

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.7	101	P/P	90 - 110
Antimony	101	102	P/P	90 - 110
Arsenic	100	100	P/P	90 - 110
Barium	101	102	P/P	90 - 110
Beryllium	101	100	P/P	90 - 110
Boron	98.9	99.4	P/P	90 - 110
Cadmium	98.8	99.5	P/P	90 - 110
Chromium	98.0	98.4	P/P	90 - 110
Cobalt	97.2	97.6	P/P	90 - 110
Copper	97.8	97.7	P/P	90 - 110
Lead	94.5	95.2	P/P	90 - 110
Manganese	98.8	98.9	P/P	90 - 110
Molybdenum	100	100	P/P	90 - 110
Nickel	97.8	98.0	P/P	90 - 110
Selenium	101	99.3	P/P	90 - 110
Silver	99.6	99.1	P/P	90 - 110
Strontium	97.8	98.2	P/P	90 - 110
Thallium	99.6	99.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A124151

Included Lab Sample IDs: 2468047

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	76.5	78.9	P/P	50 - 150
2,4,5-T	75.9	66.8	P/P	50 - 150
3-Hydroxycarbofuran	106	104	P/P	60 - 150
Acetaminophen	101	98.1	P/P	60 - 160
Acetamiprid	103	104	P/P	50 - 150
Afidopyropen	105	109	P/P	50 - 150
Aldicarb	95.9	109	P/P	60 - 150
Aldicarb Sulfone	106	101	P/P	50 - 150
Aldicarb Sulfoxide	101	104	P/P	50 - 150
Bentazon	76.7	61.6	P/P	50 - 160
Benzovindiflupyr	100	103	P/P	50 - 150
Carbamazepine	109	109	P/P	60 - 150
Carbaryl	105	96.1	P/P	60 - 150
Carbofuran	109	111	P/P	50 - 150
Clothianidin	98.5	100	P/P	60 - 150
Dinotefuran	106	101	P/P	50 - 150
Diuron	105	107	P/P	60 - 160
Fenuron	104	104	P/P	60 - 150
Fluridone	105	101	P/P	60 - 160
Hydrocodone	112	114	P/P	60 - 150
Ibuprofen	139	99.1	P/P	50 - 160
Imazapyr	69.9	64.7	P/P	50 - 150
Imidacloprid	99.2	101	P/P	60 - 150
Linuron	94.3	91.1	P/P	60 - 150
Mandestrobin	104	97.6	P/P	50 - 150
MCPP	82.8	71.3	P/P	50 - 150
Methiocarb	97.4	100	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A124151
Included Lab Sample IDs: 2468046

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methomyl	101	99.6	P/P	50 - 150
Naproxen	132	96.7	P/P	50 - 160
Oxamyl	104	103	P/P	50 - 150
Primidone	82.3	85.4	P/P	60 - 150
Propoxur	103	105	P/P	50 - 150
Pyraclostrobin	110	109	P/P	60 - 150
Silvex	67.2	74.8	P/P	50 - 150
Thiamethoxam	111	110	P/P	50 - 150
Tolfenpyrad	99.6	103	P/P	60 - 150
Triclopyr	74.8	66.1	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A124181
Included Lab Sample IDs: 2468047

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	98.5	104	P/P	60 - 160
Sucralose	96.1	98.6	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A124184
Included Lab Sample IDs: 2468047

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	91.5	94.2	P/P	60 - 160
Endothall	89.6	98.8	P/P	60 - 160
Glufosinate	84.8	71.9	P/P	60 - 160
Glyphosate	85.2	80.5	P/P	60 - 160

Reference Method: EPA 8276
Run ID: A124262
Included Lab Sample IDs: 2468048

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	91.9		P	80 - 120
Toxaphene	82.7		P	80 - 120

Reference Method: EPA 8270E
Run ID: A124272
Included Lab Sample IDs: 2468049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	88.4		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.1		P	80 - 120
Avobenzone	102		P	80 - 120
Dechlorane 602	92.5		P	80 - 120
Dechlorane 603	96.5		P	80 - 120
Dechlorane Plus	104		P	80 - 120
Hexabromobenzene	87.7		P	80 - 120
Octinoxate	108		P	80 - 120
Oxybenzone	105		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124272
Included Lab Sample IDs: 2468049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PBB-153	90.1		P	80 - 120
PBDE-47	111		P	80 - 120
PBDE-99	95.6		P	80 - 120
Pentabromotoluene	91.6		P	80 - 120
Tetradecachloro-m-terphenyl	100		P	80 - 120
Tri-o-cresyl Phosphate	104		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	105		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	108		P	80 - 120

Reference Method: EPA 8270E
Run ID: A124311
Included Lab Sample IDs: 2468048

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	96.6		P	80 - 120
PCB-1260	90.0		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A124349
Included Lab Sample IDs: 2468050

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	106	107	P/P	90 - 110
Iron	99.1	99.2	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Tin	108	107	P/P	90 - 110
Titanium	99.3	99.4	P/P	90 - 110
Vanadium	102	101	P/P	90 - 110
Zinc	109	109	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A124393
Included Lab Sample IDs: 2468050

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Potassium	102	103	P/P	95 - 105
Sodium	102	99.4	P/P	95 - 105

Reference Method: EPA 8270E
Run ID: A124457
Included Lab Sample IDs: 2468048

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	108		P	80 - 120
Alpha-BHC	108		P	80 - 120
Alpha-Chlordane	114		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	96.7		P	80 - 120
Bifenthrin	94.2		P	80 - 120
Chlorothalonil	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124457
Included Lab Sample IDs: 2468048

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cis-Nonachlor	111		P	80 - 120
Cypermethrin	96.3		P	80 - 120
Dacthal	111		P	80 - 120
DDD-p,p'	106		P	80 - 120
DDE-p,p'	107		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	108		P	80 - 120
Deltamethrin	94.8		P	80 - 120
Dichlobenil	101		P	80 - 120
Dicofol	78.8*		F	80 - 120
Dieldrin	99.0		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	107		P	80 - 120
Endosulfan Sulfate	104		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	99.6		P	80 - 120
Endrin Ketone	102		P	80 - 120
Esfenvalerate	96.9		P	80 - 120
Ethalfuralin	92.4		P	80 - 120
Fenpropathrin	89.3		P	80 - 120
Gamma-BHC	90.8		P	80 - 120
Gamma-Chlordane	90.6		P	80 - 120
Heptachlor	87.9		P	80 - 120
Heptachlor Epoxide	106		P	80 - 120
Hexachlorobenzene	107		P	80 - 120
Kepone	104		P	80 - 120
Lambda-Cyhalothrin	96.8		P	80 - 120
Methoprene	104		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	103		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	88.4		P	80 - 120
Piperonyl Butoxide	93.9		P	80 - 120
Prallethrin	105		P	80 - 120
Tau-Fluvalinate	87.8		P	80 - 120
Tetramethrin	96.3		P	80 - 120
Trans-Nonachlor	113		P	80 - 120
Triclosan Methyl	89.4		P	80 - 120
Trifluralin	94.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A124492
Included Lab Sample IDs: 2468049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.0		P	80 - 120
Alachlor	97.4		P	80 - 120
Ametryn	109		P	80 - 120
Atrazine	106		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124492
Included Lab Sample IDs: 2468049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine Desethyl	115		P	80 - 120
Azinphos Methyl	84.9		P	80 - 120
Azoxystrobin	97.1		P	80 - 120
Bromacil	98.1		P	80 - 120
Butylate	91.9		P	80 - 120
Caffeine	100		P	80 - 120
Carbophenothion	81.0		P	80 - 120
Carfentrazone Ethyl	80.8		P	80 - 120
Chlorfenapyr	82.7		P	80 - 120
Chlorpyrifos Ethyl	84.6		P	80 - 120
Chlorpyrifos Methyl	104		P	80 - 120
Coumaphos	90.4		P	80 - 120
Cyanazine	88.2		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	96.0		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	80.9		P	80 - 120
Dimethenamid	102		P	80 - 120
Dimethomorph	81.0		P	80 - 120
Disulfoton	110		P	80 - 120
Dithiopyr	121*		F	80 - 120
EPTC	99.5		P	80 - 120
Ethion	84.2		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	95.9		P	80 - 120
Fenamiphos	95.0		P	80 - 120
Fenbuconazole	93.3		P	80 - 120
Fipronil	82.2		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	95.4		P	80 - 120
Fipronil Sulfone	92.2		P	80 - 120
Fluazifop-P-butyl	89.4		P	80 - 120
Fludioxonil	109		P	80 - 120
Flumioxazin	92.1		P	80 - 120
Flutolanil	95.3		P	80 - 120
Fluxapyroxad	103		P	80 - 120
Fonofos	102		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	108		P	80 - 120
Iprodione	90.2		P	80 - 120
Loratadine	87.2		P	80 - 120
Malathion	82.4		P	80 - 120
Metalaxyl	101		P	80 - 120
Metolachlor	96.9		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	98.8		P	80 - 120
Molinate	87.1		P	80 - 120
Myclobutanil	94.9		P	80 - 120
Naled	116		P	80 - 120
Napropamide	107		P	80 - 120
Norflurazon	92.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124492
Included Lab Sample IDs: 2468049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxadiazon	102		P	80 - 120
Oxyfluorfen	106		P	80 - 120
Parathion Ethyl	98.0		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	108		P	80 - 120
Phenytoin	96.6		P	80 - 120
Phorate	96.7		P	80 - 120
Prodiamine	114		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	107		P	80 - 120
Propanil	114		P	80 - 120
Propargite	91.3		P	80 - 120
Propiconazole	83.4		P	80 - 120
Pyraflufen Ethyl	83.1		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	110		P	80 - 120
Stirophos	100		P	80 - 120
Sulfentrazone	98.1		P	80 - 120
Tebuconazole	97.5		P	80 - 120
Terbufos	97.3		P	80 - 120
Terbuthylazine	97.8		P	80 - 120
Thiobencarb	112		P	80 - 120
Triadimefon	98.3		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
EPA 200.7 Rev. 4.4	Calcium	95.7	105	105			0.614
	Iron	103	99.8	103	100		3.21
	Magnesium	102	102	107	103		3.08
	Potassium	101	104	106	107		1.12
	Sodium	95.1	103	109			0.324
	Tin	99.8	109	107	110		
	Titanium	103	107	105	106		1.89
	Vanadium	101	108	105	106		2.25
	Zinc	97.9	112	111	110		0.955
EPA 200.8 Rev. 5.4	Aluminum	101	102	101	101		0.537
	Antimony	101	103	102	106		1.01
	Arsenic	100	104	103	106		1.01
	Barium	101	103	102	105		1.14
	Beryllium	94.4	98.6	96.7	104		1.97
	Boron	106	104	106	105		1.17
	Cadmium	104	103	102	104		0.545
	Chromium	104	108	107	109		0.612
	Cobalt	100	102	102	104		0.328
	Copper	99.7	102	100	102		1.77
	Lead	95.0	98.6	98.1	98.2		0.524
	Manganese	103	104	104	107		0.283
	Molybdenum	99.4	103	102	106		1.57
	Nickel	100	103	102	105		0.339
	Selenium	100	103	102	104		0.0817
	Silver	100	99.9	98.3	99.4		1.58
	Strontium	97.9	100	99.4	103		0.877
	Thallium	99.3	103	103	104		0.383
	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	56.6	43.1	33.1			26.3
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.1	86.0	84.4			1.87
EPA 8270E	Acetochlor	90.4	96.3	90.9			5.79
	Alachlor	96.4	93.7	88.3			5.98
	Aldrin	86.3	71.9	67.0			6.94
	Alpha-BHC	95.8	96.3	85.2			12.3
	Alpha-Chlordane	76.0	70.2	53.6			23.9
	Ametryn	116	120	94.1			24.3
	Atrazine	92.9	116	86.6			6.95
	Atrazine Desethyl	102	109	104			3.97
	Avobenzone	140	98.1	99.6			1.54
	Azinphos Methyl	172	165	171			3.32
	Azoxystrobin	94.4	113	106			6.54
	Beta-BHC	125	97.2	99.8			2.64
	Beta-Cyfluthrin	54.7	88.8	84.7			4.77
	Bifenthrin	49.9	75.9	62.8			18.8
	Bromacil	94.8	108	95.0			12.3
	Butylate	66.1	71.9	47.9			40.0
	Caffeine	92.7	108	112			4.13
	Carbophenothion	117	107	119			10.5
	Carfentrazone Ethyl	131	120	117			2.70
	Chlorfenapyr	82.3	81.5	71.0			13.7
	Chlorothalonil	77.1	106	91.0			14.9
	Chlorpyrifos Ethyl	111	111	112			0.507

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorpyrifos Methyl	114	133	119			10.8
	Cis-Nonachlor	78.6	64.6	59.8			7.66
	Coumaphos	116	91.7	106			14.5
	Cyanazine	97.7	126	124			1.56
	Cypermethrin	41.1	79.7	73.5			8.11
	Cyprodinil	92.7	114	89.5			23.8
	Dacthal	83.6	73.7	70.9			3.96
	DDD-p,p'	64.2	55.6	49.4			11.7
	DDE-p,p'	75.3	66.1	60.1			9.51
	DDT-p,p'	77.4	77.2	64.0			18.7
	Dechlorane 602	100	59.8	49.2			19.3
	Dechlorane 603	93.5	90.5	99.3			9.28
	Dechlorane Plus	102	87.2	84.2			3.48
	Delta-BHC	95.7	97.7	99.4			1.60
	Deltamethrin	61.9	113	97.7			14.5
	Demeton	75.7	73.6	67.7			8.40
	Diazinon	97.1	112	101			10.3
	Dichlobenil	47.9	23.1	22.9			0.720
	Dicofol	50.7	58.1	48.7			17.6
	Dieldrin	78.2	66.7	64.5			3.43
	Difenoconazole	111	85.8	80.7			6.12
	Dimethenamid	88.5	98.6	91.2			7.76
	Dimethomorph	114	128	112			13.7
	Disulfoton	102	123	111			10.3
	Dithiopyr	92.4	139	112			21.8
	Endosulfan I	113	155	146			6.04
	Endosulfan II	102	90.2	88.1			2.44
	Endosulfan Sulfate	89.9	71.0	69.4			2.26
	Endrin	87.5	75.8	71.9			5.36
	Endrin Aldehyde	51.7	23.8	25.3			6.03
	Endrin Ketone	153	203	177			13.4
	EPTC	63.2	65.8	42.1			43.8
	Esfenvalerate	55.2	96.0	87.0			9.77
	Ethalfuralin	78.8	69.5	65.2			6.39
	Ethion	84.7	48.6	63.6			26.8
	Ethoprop	90.8	104	93.2			11.4
	Etridiazole	64.6	66.3	46.0			36.2
	Fenamiphos	97.2	132	116			13.4
	Fenbuconazole	102	66.2	81.4			20.6
	Fenpropathrin	61.2	78.7	71.1			10.2
	Fipronil	80.7	93.4	70.2			24.7
	Fipronil Desulfinyl	113	111	82.2			27.6
	Fipronil Sulfide	96.2	105	77.9			16.2
	Fipronil Sulfone	90.4	61.9	56.0			3.28
	Fluazifop-P-butyl	96.9	95.3	56.4			51.2
	Fludioxonil	97.0	83.4	92.2			9.95
	Flumioxazin	142	87.8	80.4			8.81
	Flutolanil	113	111	113			1.37
	Fluxapyroxad	96.8	70.6	89.5			23.6
	Fonofos	92.2	111	86.3			25.0
	Gamma-BHC	49.4	68.3	69.7			2.01
	Gamma-Chlordane	93.2	132	95.7			28.8
	Heptachlor	71.2	78.1	67.8			14.1
	Heptachlor Epoxide	111	152	126			18.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Hexabromobenzene	78.9	132	93.1		34.5
	Hexachlorobenzene	54.6	41.6	42.4		1.88
	Hexazinone	94.7	98.1	95.8		2.41
	Imazalil	97.4	84.0	86.7		3.18
	Iprodione	96.6	94.2	90.0		4.62
	Kepone	112	57.0	56.5		0.919
	Lambda-Cyhalothrin	54.8	82.3	77.4		6.17
	Loratadine	109	120	89.3		29.6
	Malathion	106	115	106		8.26
	Metalaxyl	94.2	84.5	73.6		13.7
	Methoprene	45.1	78.5	64.2		20.0
	Methoxychlor	81.2	97.2	86.5		11.6
	Metolachlor	105	113	100		11.8
	Metribuzin	106	111	96.5		14.0
	Mevinphos	96.1	112	97.2		14.1
	MGK-264	73.0	72.3	65.2		10.4
	Mirex	62.6	58.8	47.4		21.6
	Molinate	63.9	67.0	58.2		14.0
	Myclobutanil	92.3	92.7	85.1		8.53
	Naled	58.4	58.8	55.6		5.43
	Napropamide	103	65.2	70.7		8.10
	Norflurazon	89.1	70.4	72.7		3.19
	Octinoxate	125	100	108		7.95
	Oxadiazon	83.9	86.3	68.3		23.3
	Oxybenzone	123	89.3	107		17.8
	Oxychlordane	105	163	136		17.7
	Oxyfluorfen	123	119	124		4.12
	Parathion Ethyl	109	89.6	96.3		7.24
	Parathion Methyl	113	124	120		3.40
	PBB-153	92.2	93.8	88.3		6.11
	PBDE-47	115	90.2	94.1		4.18
	PBDE-99	95.0	78.7	77.9		1.08
	PCB-1016	83.3	82.7	83.1		0.493
	PCB-1260	80.2	60.0	59.7		0.489
	Pendimethalin	145	166	142		16.0
	Pentabromotoluene	85.8	90.3	79.3		12.9
	Permethrin	55.8	87.2	76.5		13.1
	Phenothrin	43.4	80.5	67.8		17.1
	Phenytoin	48.2	60.1	68.2		12.5
	Phorate	93.3	95.0	95.5		0.546
	Piperonyl Butoxide	70.2	92.1	74.4		21.3
	Prallethrin	72.2	77.6	65.3		17.1
	Prodiamine	47.6	71.3	58.5		19.7
	Prometon	101	111	108		2.19
	Prometryn	127	146	91.9		45.2
	Pronamide	115	112	106		5.46
	Propanil	161	136	146		7.02
	Propargite	71.9	48.8	54.4		10.9
	Propiconazole	82.4	72.9	75.6		3.67
	Pyraflufen Ethyl	86.1	64.0	81.7		24.2
	Pyridaben	119	97.3	97.3		0.0145
	Pyriproxyfen	110	88.1	85.9		2.53
	Simazine	107	137	94.8		17.2
	Stirophos	120	69.0	37.4		59.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Sulfentrazone	69.2	72.1	60.7		7.97
	Tau-Fluvalinate	42.2	73.0	65.9		10.3
	Tebuconazole	87.3	42.4	54.6		25.1
	Terbufos	98.0	114	88.6		24.7
	Terbutylazine	82.0	93.3	82.0		12.9
	Tetradecachloro-m-terphenyl	80.6	143	96.4		39.0
	Tetramethrin	58.9	101	90.8		10.7
	Thiobencarb	113	109	102		6.92
	Trans-Nonachlor	80.0	67.6	61.2		9.99
	Tri-o-cresyl Phosphate	123	92.7	107		14.4
	Triadimefon	106	98.1	102		3.75
	Triclosan Methyl	102	129	107		19.0
	Trifluralin	83.4	81.4	69.8		15.3
	Tris(1-chloro-2-propyl) phosphate (TCPP)	117	122	97.8		21.9
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	122	121	104		15.0
	Tris(2-chloroethyl) phosphate (TCEP)	125	134	108		21.9
EPA 8276	Chlordane	92.2	77.8	93.4		18.3
	Toxaphene	93.1	77.4	92.7		18.0
EPA 8321B	2,4-D	70.8	59.3	61.4		3.29
	2,4,5-T	68.5	55.1	54.3		1.48
	3-Hydroxycarbofuran	78.8	73.1	66.9		8.82
	Acesulfame K	98.3	116	117		0.728
	Acetaminophen	77.6	80.1	87.4		8.66
	Acetamiprid	69.0	59.1	66.0		11.0
	Afidopyropen	60.2	60.4	67.2		10.6
	Aldicarb	59.4	68.3	52.1		26.8
	Aldicarb Sulfone	91.3	89.9	82.7		8.36
	Aldicarb Sulfoxide	98.1	31.9	33.1		3.63
	AMPA	94.6	80.4	83.8		3.13
	Bentazon	68.7				1.19
	Benzovindiflupyr	77.5	75.6	86.2		13.0
	Carbamazepine	73.1	62.2	65.6		5.32
	Carbaryl	65.8	64.4	65.1		1.03
	Carbofuran	72.7	65.2	61.4		6.07
	Clothianidin	79.6	78.7	79.5		0.996
	Dinotefuran	89.3	81.1	91.2		11.8
	Diuron	69.4	56.0	60.5		5.78
	Endothall	92.0	99.2	97.5		1.67
	Fenuron	83.7	99.5	102		2.05
	Fluridone	80.3				5.45
	Glufosinate	74.7	80.6	85.4		5.67
	Glyphosate	79.1	68.5	74.9		6.12
	Hydrocodone	85.8	68.7	74.3		7.90
	Ibuprofen	78.9	90.8	108		17.6
	Imazapyr	69.9				1.24
	Imidacloprid	79.9	96.9	108		10.3
	Linuron	73.3	61.3	64.9		5.73
	Mandestrobin	73.7	74.6	80.4		7.46
	MCPP	65.1	61.9	69.9		12.1
	Methiocarb	64.5	64.9	62.0		4.52
	Methomyl	85.3	77.4	72.5		6.56

Quality Assurance Report

Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	MS
			LCS	SMP		
EPA 8321B	Naproxen	77.8	134	114		16.6
	Oxamyl	89.1	84.4	79.5		5.97
	Primidone	70.0	68.4	78.2		13.4
	Propoxur	61.9	60.2	58.9		2.31
	Pyraclostrobin	74.8	76.7	89.4		15.4
	Silvex	56.5	55.5	56.6		2.08
	Sucralose	100	104	108		3.16
	Thiamethoxam	85.8	75.5	84.9		11.7
	Tolfenpyrad	49.0	46.7	57.9		21.4
	Triclopyr	66.4	53.3	53.8		0.836

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2468050
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2468050
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2468049
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2468048
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2468049
EPA 8270E	PCBs in water matrices by GC/MS/MS	2468048
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2468048
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2468046
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2468047
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2468050

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 200.7 Rev. 4.4	02/09/2024	02/12/2024 12:45	George D Taylor	02/21/2024 18:24	McKinley C Carter	2468050
	02/09/2024	02/12/2024 12:45	George D Taylor	02/26/2024 11:54	Chase Roberts	2468050
EPA 200.8 Rev. 5.4	02/09/2024	02/12/2024 12:45	George D Taylor	02/13/2024 23:22	Emily M Philpot	2468050
EPA 8270E	02/09/2024	02/12/2024 08:00	Fe-Val Siddell	02/16/2024 23:17	Julie Wi	2468048
	02/09/2024	02/12/2024 08:00	Fe-Val Siddell	02/22/2024 02:07	Vandana T. Nagar	2468048
	02/09/2024	02/13/2024 08:30	Rasheda Ghaffari	02/19/2024 21:57	Arthur Maknenko	2468049
	02/09/2024	02/13/2024 08:30	Rasheda Ghaffari	02/23/2024 20:02	Julie Wi	2468049
	02/09/2024	02/13/2024 08:30	Rasheda Ghaffari	02/24/2024 00:32	Julie Wi	2468049
EPA 8276	02/09/2024	02/12/2024 08:00	Fe-Val Siddell	02/18/2024 14:52	Arthur Maknenko	2468048
EPA 8321B	02/09/2024	02/12/2024 14:00	Hoor Shaik	02/13/2024 17:29	Juyoung Kim	2468046
	02/09/2024	02/13/2024 09:00	Hoor Shaik	02/14/2024 00:36	Juyoung Kim	2468047
	02/09/2024	02/14/2024 08:00	Samatha Luckman	02/14/2024 12:56	Samatha Luckman	2468047
	02/09/2024	02/14/2024 08:00	Samatha Luckman	02/14/2024 19:44	Samatha Luckman	2468047
SM 2340 B-2011	02/09/2024			02/21/2024 18:24	McKinley C Carter	2468050