

Chemical Analysis Report

NE-DIST-2023-10-12-01

Florida DEP Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

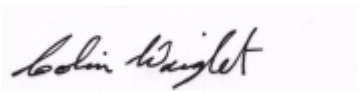
Event Description: **Thomas Creek Deploy**
Request ID: **RQ-2023-10-02-48**
Customer: **NE-DIST**
Project ID: **SMP**

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

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Certified by: Colin Wright, Program Administrator

Date Certified: 07-NOV-2023 10:11

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: Thomas Cr 60 Mi Below City Prison

Collection Date/Time: 10/11/2023 11:00

Field ID: G4NE0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444706	EPA 8321B	Aldicarb	0.020	U	ug/L	P436471	
		Aldicarb Sulfone	0.0020	U	ug/L	P436471	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P436471	MS
		Carbaryl	0.0020	U	ug/L	P436471	MS
		Carbofuran	0.0020	U	ug/L	P436471	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P436471	MS
		Methiocarb	0.0020	U	ug/L	P436471	
		Methomyl	0.0020	U	ug/L	P436471	MS
		Oxamyl	0.0020	U	ug/L	P436471	
		Propoxur	0.0020	U	ug/L	P436471	MS
2444707		2,4-D	0.0020	U	ug/L	P436414	
		Acesulfame K	0.10	U	ug/L	P436330	
		2,4,5-T	0.0040	U	ug/L	P436414	
		AMPA	0.14	I	ug/L	P436330	
		Acetaminophen	0.0080	U	ug/L	P436414	
		Acetamiprid	0.0020	U	ug/L	P436414	
		Endothall	0.25	U	ug/L	P436330	
		Glufosinate	0.10	U	ug/L	P436330	
		Glyphosate	0.10	U	ug/L	P436330	
		Afidopyropen	0.0020	U	ug/L	P436414	
		Bentazon	8.0E-04	U	ug/L	P436414	
		Sucralose	0.054		ug/L	P436330	
		Benzovindiflupyr	0.0020	U	ug/L	P436414	
		Carbamazepine	8.0E-04	U	ug/L	P436414	
		Clothianidin	0.0020	U	ug/L	P436414	
		Dinotefuran	0.0020	U	ug/L	P436414	
		Diuron	0.0020	U	ug/L	P436414	
		Fenuron	0.032	U	ug/L	P436414	MS
		Fluridone	8.0E-04	U	ug/L	P436414	
		Imazapyr	0.10		ug/L	P436414	
		Hydrocodone	0.0020	U	ug/L	P436414	
		Ibuprofen	0.080	U	ug/L	P436414	
		Imidacloprid	0.0020	U	ug/L	P436414	
		Linuron	0.0040	U	ug/L	P436414	
		Mandestrobin	0.0020	U	ug/L	P436414	
		MCPP	0.0020	U	ug/L	P436414	
		Naproxen	0.0080	U	ug/L	P436414	MS
		Primidone	0.0040	U	ug/L	P436414	
		Pyraclostrobin	0.0020	U	ug/L	P436414	
		Silvex	0.0040	U	ug/L	P436414	
		Thiamethoxam	0.0020	U	ug/L	P436414	
		Tolfenpyrad	0.0020	U	ug/L	P436414	
		Triclopyr	0.0040	U	ug/L	P436414	
2444708	EPA 8270E	Aldrin	0.68	U	ng/L	P436506	

Field ID: G4NE0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444708	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P436506	
		Alpha-Chlordane	0.21	U	ng/L	P436506	
		PCB-1016	2.1	UJ	ng/L	P436506	LCS
		Beta-BHC	0.10	U	ng/L	P436506	
		PCB-1221	2.1	U	ng/L	P436506	
		Beta-Cyfluthrin	1.3	U	ng/L	P436506	
		PCB-1232	2.1	U	ng/L	P436506	
		Bifenthrin	0.52	U	ng/L	P436506	
		PCB-1242	2.1	U	ng/L	P436506	
		PCB-1248	2.1	U	ng/L	P436506	
		Chlorothalonil	3.8	U	ng/L	P436506	
		PCB-1254	2.1	U	ng/L	P436506	
		Cis-Nonachlor	0.21	U	ng/L	P436506	
		PCB-1260	2.1	UJ	ng/L	P436506	LCS
		Cypermethrin	1.6	U	ng/L	P436506	
		Dacthal	0.16	U	ng/L	P436506	
		DDD-p,p'	0.26	U	ng/L	P436506	
		DDE-p,p'	0.21	U	ng/L	P436506	
		DDT-p,p'	0.84	U	ng/L	P436506	MS
		Delta-BHC	0.42	U	ng/L	P436506	
		Deltamethrin	1.3	U	ng/L	P436506	MS
		Dichlobenil	0.26	U	ng/L	P436506	
		Dicofol	1.3	U	ng/L	P436506	
		Dieldrin	0.42	U	ng/L	P436506	
		Endosulfan I	0.42	U	ng/L	P436506	
		Endosulfan II	0.94	U	ng/L	P436506	
		Endosulfan Sulfate	0.31	U	ng/L	P436506	
		Endrin	0.94	U	ng/L	P436506	
		Endrin Aldehyde	0.78	U	ng/L	P436506	
		Endrin Ketone	0.42	U	ng/L	P436506	
		Esfenvalerate	0.78	U	ng/L	P436506	
		Ethalfuralin	0.16	U	ng/L	P436506	
		Fenpropathrin	0.26	U	ng/L	P436506	
		Gamma-BHC	0.13	U	ng/L	P436506	
		Gamma-Chlordane	0.21	U	ng/L	P436506	
		Heptachlor	0.21	U	ng/L	P436506	MS
		Heptachlor Epoxide	0.26	U	ng/L	P436506	
		Hexachlorobenzene**	1.0	U	ng/L	P436506	
		Kepone	14	UJ	ng/L	P436506	CCV
		Lambda-Cyhalothrin	0.78	U	ng/L	P436506	
		Methoprene	0.78	U	ng/L	P436506	
		Methoxychlor	0.31	U	ng/L	P436506	
		MGK-264	0.21	U	ng/L	P436506	
		Mirex	0.37	U	ng/L	P436506	
		Oxychlordane	0.31	U	ng/L	P436506	

Field ID: G4NE0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2444708	EPA 8270E	Permethrin	1.7	U	ng/L	P436506	MS	
		Phenothrin	0.94	U	ng/L	P436506		
		Piperonyl Butoxide	0.16	U	ng/L	P436506		
		Prallethrin	2.1	U	ng/L	P436506		
		Tau-Fluvalinate	0.26	U	ng/L	P436506		
		Tetramethrin	0.78	U	ng/L	P436506		
		Trans-Nonachlor	0.21	U	ng/L	P436506		
		Triclosan Methyl	0.16	U	ng/L	P436506		
		Trifluralin	0.21	U	ng/L	P436506		
		EPA 8276	Chlordane	2.1	U	ng/L		P436506
Toxaphene	16		U	ng/L	P436506			
2444709	EPA 8270E	Oxybenzone**	10	U	ng/L	P436398	RPD	
		Acetochlor	0.20	U	ng/L	P436398		
		Octinoxate**	150	U	ng/L	P436398		
		Alachlor	0.41	U	ng/L	P436398		
		Avobenzone**	100	U	ng/L	P436398		
		Ametryn	1.1	U	ng/L	P436398		
		Atrazine	4.0		ng/L	P436398		
		PBDE-47**	4.1	U	ng/L	P436398		
		Atrazine Desethyl	1.3	U	ng/L	P436398		
		PBDE-99**	5.1	U	ng/L	P436398		
		Azinphos Methyl	3.1	U	ng/L	P436398		
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P436398		
		Azoxystrobin	0.41	U	ng/L	P436398		
		Bromacil	0.61	U	ng/L	P436398		
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P436398		
		Butylate	0.46	U	ng/L	P436398		
		Dechlorane Plus**	31	U	ng/L	P436398		
		Caffeine**	7.7	U	ng/L	P436398		
		Dechlorane 602**	5.1	U	ng/L	P436398		
		Carbophenothion	0.51	U	ng/L	P436398		
		Dechlorane 603**	4.1	U	ng/L	P436398		
		Carfentrazone Ethyl	0.15	U	ng/L	P436398		
		Hexabromobenzene**	6.1	U	ng/L	P436398		
		Chlorfenapyr	0.31	U	ng/L	P436398		
		PBB-153**	6.1	U	ng/L	P436398		
		Chlorpyrifos Ethyl	0.31	U	ng/L	P436398		
		Pentabromotoluene**	3.1	U	ng/L	P436398		
		Chlorpyrifos Methyl	0.10	U	ng/L	P436398		
		Tris(2-chloroethyl) phosphate (TCEP)**	56	U	ng/L	P436398		
		Coumaphos	1.1	U	ng/L	P436398		RPD
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	32	I	ng/L	P436398		
		Cyanazine	5.1	U	ng/L	P436398		
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P436398				

Field ID: G4NE0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444709	EPA 8270E	Cyprodinil	0.20	U	ng/L	P436398	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P436398	
		Demeton	3.6	U	ng/L	P436398	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	61	U	ng/L	P436398	
		Diazinon	0.13	U	ng/L	P436398	
		Difenoconazole	0.61	U	ng/L	P436398	MS
		Dimethenamid	0.10	U	ng/L	P436398	
		Dimethomorph	0.31	U	ng/L	P436398	
		Disulfoton	0.61	U	ng/L	P436398	
		Dithiopyr	1.0	U	ng/L	P436398	
		EPTC	0.51	U	ng/L	P436398	
		Ethion	0.31	U	ng/L	P436398	
		Ethoprop	0.13	UJ	ng/L	P436398	CCV
		Etridiazole	0.10	U	ng/L	P436398	RPD
		Fenamiphos	0.46	U	ng/L	P436398	
		Fenbuconazole	0.51	U	ng/L	P436398	
		Fipronil	0.20	U	ng/L	P436398	
		Fipronil Desulfinyl**	0.10	U	ng/L	P436398	
		Fipronil Sulfide	0.10	U	ng/L	P436398	
		Fipronil Sulfone	0.10	U	ng/L	P436398	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P436398	LCS, MS
		Fludioxonil	0.10	U	ng/L	P436398	
		Flumioxazin	3.1	U	ng/L	P436398	
		Flutolanil	0.10	U	ng/L	P436398	
		Fluxapyroxad	0.26	UJ	ng/L	P436398	CCV, LCS
		Fonofos	0.15	U	ng/L	P436398	
		Hexazinone	0.51	U	ng/L	P436398	
		Imazalil	0.67	U	ng/L	P436398	
		Iprodione	0.51	U	ng/L	P436398	
		Loratadine**	0.31	U	ng/L	P436398	
		Malathion	0.36	U	ng/L	P436398	
		Metalaxyl	0.51	U	ng/L	P436398	
		Metolachlor	0.77	U	ng/L	P436398	
		Metribuzin	0.41	U	ng/L	P436398	
		Mevinphos	1.0	U	ng/L	P436398	
		Molinate	0.26	U	ng/L	P436398	
		Myclobutanil	0.36	U	ng/L	P436398	
		Naled	2.6	U	ng/L	P436398	
		Napropamide	0.72	U	ng/L	P436398	
		Norflurazon	1.0	U	ng/L	P436398	
		Oxadiazon	0.36	U	ng/L	P436398	
		Oxyfluorfen	0.20	U	ng/L	P436398	
		Parathion Ethyl	0.15	U	ng/L	P436398	
		Parathion Methyl	0.20	U	ng/L	P436398	

Field ID: G4NE0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444709	EPA 8270E	Pendimethalin	1.7	U	ng/L	P436398	
		Phenytain**	5.4	U	ng/L	P436398	
		Phorate	0.26	U	ng/L	P436398	
		Prodiamine	0.26	I	ng/L	P436398	
		Prometon	3.1	U	ng/L	P436398	
		Prometryn	0.36	U	ng/L	P436398	
		Pronamide	0.10	U	ng/L	P436398	
		Propanil	0.10	U	ng/L	P436398	
		Propargite	0.82	U	ng/L	P436398	
		Propiconazole	0.61	U	ng/L	P436398	
		Pyraflufen Ethyl	0.31	U	ng/L	P436398	
		Pyridaben	1.4	U	ng/L	P436398	
		Pyriproxyfen	0.26	U	ng/L	P436398	
		Simazine	0.26	U	ng/L	P436398	
		Stirophos	0.41	U	ng/L	P436398	
		Sulfentrazone	1.4	U	ng/L	P436398	MS
		Tebuconazole	1.4	U	ng/L	P436398	
		Terbufos	0.20	U	ng/L	P436398	
		Terbuthylazine	0.20	U	ng/L	P436398	
		Thiobencarb	0.51	U	ng/L	P436398	
		Triadimefon	0.15	U	ng/L	P436398	
2444710	EPA 200.7 Rev. 4.4	Calcium	10.9		mg/L	P436489	LCS
		Iron	1.61E+03		ug/L	P436489	
		Magnesium	14.1		mg/L	P436489	
		Potassium	5.7		mg/L	P436489	
		Sodium	112		mg/L	P436489	
		Strontium	95.6		ug/L	P436489	
		Tin	3.0	U	ug/L	P436489	
		Titanium	2.1	I	ug/L	P436489	
		Vanadium	2.0	U	ug/L	P436489	
		Zinc	33		ug/L	P436489	
	EPA 200.8 Rev. 5.4	Aluminum	396		ug/L	P436489	
		Antimony	0.078	I	ug/L	P436489	
		Arsenic	1.49		ug/L	P436489	
		Barium	12.8		ug/L	P436489	
		Beryllium	0.053		ug/L	P436489	
		Boron	62.5		ug/L	P436489	
		Cadmium	0.020	U	ug/L	P436489	
		Chromium	0.69	I	ug/L	P436489	
		Cobalt	0.377		ug/L	P436489	
		Copper	0.43	I	ug/L	P436489	
		Lead	0.51		ug/L	P436489	
		Manganese	88.6		ug/L	P436489	
		Molybdenum	0.32	I	ug/L	P436489	
		Nickel	0.64	I	ug/L	P436489	

Field ID: G4NE0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2444710	EPA 200.8 Rev. 5.4	Selenium	0.25	I	ug/L	P436489	
		Silver	0.010	U	ug/L	P436489	
		Thallium	0.10	U	ug/L	P436489	
	SM 2340 B-2011	Hardness	85.3		mg/L	P436489	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. 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: P436489

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
Strontium	2.0	U	ug/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: P436489

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
Thallium	0.10	U	ug/L

Reference Method: EPA 8270E

Batch ID: P436398

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
Avobenzone	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436398

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436398

Component	Result	Code	Units
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
Phenytoin	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
Terbutylazine	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 8270E

Batch ID: P436506

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
Dichlobenil	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436506

Component	Result	Code	Units
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 8276

Batch ID: P436506

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

Reference Method: EPA 8321B

Batch ID: P436330

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P436330

Component	Result	Code	Units
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: P436414

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: P436471

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P436489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	115		F	85 - 115
Iron	113		P	85 - 115
Magnesium	113		P	85 - 115
Potassium	104		P	85 - 115
Sodium	108		P	85 - 115
Strontium	102		P	85 - 115
Tin	98.0		P	85 - 115
Tin	98.0		P	80 - 120
Titanium	101		P	85 - 115
Titanium	101		P	80 - 120
Vanadium	100		P	85 - 115
Vanadium	100		P	80 - 120
Zinc	98.7		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.3		P	85 - 115
Antimony	99.0		P	85 - 115
Arsenic	99.7		P	85 - 115
Barium	104		P	85 - 115
Beryllium	98.2		P	85 - 115
Boron	94.7		P	85 - 115
Cadmium	99.9		P	85 - 115
Chromium	94.0		P	85 - 115
Cobalt	99.7		P	85 - 115
Copper	101		P	85 - 115
Lead	99.8		P	85 - 115
Manganese	99.4		P	85 - 115
Molybdenum	97.9		P	85 - 115
Nickel	96.3		P	85 - 115
Selenium	103		P	85 - 115
Silver	112		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 8270E

Batch ID: P436398

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	78.0		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	47.9		P	37 - 154
Acetochlor	80.3		P	64 - 124
Alachlor	67.8		P	61 - 118
Ametryn	154		P	47 - 158
Atrazine	88.1		P	68 - 121
Atrazine Desethyl	82.4		P	30 - 119
Avobenzone	108		P	48 - 193
Azinphos Methyl	61.6		P	30 - 194
Azoxystrobin	77.8		P	58 - 154
Bromacil	102		P	47 - 126
Butylate	71.4		P	31 - 83.0

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P436398

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Caffeine	137		P	10 - 180
Carbophenothion	91.2		P	59 - 133
Carfentrazone Ethyl	101		P	59 - 147
Chlorfenapyr	81.1		P	52 - 118
Chlorpyrifos Ethyl	94.7		P	59 - 119
Chlorpyrifos Methyl	118		P	65 - 123
Coumaphos	104		P	11 - 223
Cyanazine	213		P	63 - 250
Cyprodinil	133		P	52 - 143
Dechlorane 602	51.5		P	23 - 142
Dechlorane 603	107		P	51 - 171
Dechlorane Plus	97.3		P	46 - 161
Demeton	96.9		P	42 - 119
Diazinon	129		P	67 - 132
Difenoconazole	39.1		P	12 - 204
Dimethenamid	64.0		P	53 - 113
Dimethomorph	167		P	13 - 238
Disulfoton	90.2		P	56 - 126
Dithiopyr	78.3		P	58 - 127
EPTC	68.5		P	31 - 78.0
Ethion	46.8		P	24 - 127
Ethoprop	102		P	60 - 118
Etridiazole	66.4		P	32 - 91.0
Fenamiphos	92.1		P	54 - 129
Fenbuconazole	44.4		P	31 - 162
Fipronil	119		P	56 - 131
Fipronil Desulfinyl	74.5		P	58 - 132
Fipronil Sulfide	85.2		P	51 - 123
Fipronil Sulfone	95.8		P	50 - 125
Fluazifop-P-butyl	140		F	52 - 132
Fludioxonil	82.1		P	52 - 129
Flumioxazin	42.9		P	34 - 250
Flutolanil	104		P	45 - 128
Fluxapyroxad	29.8		F	31 - 150
Fonofos	101		P	60 - 116
Hexabromobenzene	81.7		P	52 - 165
Hexazinone	92.7		P	59 - 120
Imazalil	81.2		P	39 - 134
Iprodione	118		P	39 - 243
Loratadine	134		P	10 - 240
Malathion	111		P	53 - 145
Metalaxyl	74.9		P	59 - 120
Metolachlor	113		P	64 - 122
Metribuzin	42.2		P	33 - 128
Mevinphos	94.9		P	48 - 119
Molinate	79.7		P	42 - 89.0
Myclobutanil	81.3		P	54 - 129
Naled	33.4		P	10 - 138
Napropamide	74.3		P	40 - 122
Norflurazon	52.3		P	49 - 132
Octinoxate	123		P	29 - 176
Oxadiazon	71.5		P	50 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436398

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxybenzone	115		P	45 - 145
Oxyfluorfen	113		P	62 - 149
Parathion Ethyl	110		P	68 - 119
Parathion Methyl	96.7		P	68 - 147
PBB-153	61.4		P	42 - 179
PBDE-47	73.7		P	44 - 141
PBDE-99	54.3		P	36 - 141
Pendimethalin	112		P	59 - 158
Pentabromotoluene	93.6		P	58 - 148
Phenytol	32.9		P	10 - 151
Phorate	96.8		P	44 - 124
Prodiamine	34.9		P	10 - 136
Prometon	113		P	45 - 131
Prometryn	126		P	52 - 140
Pronamide	108		P	70 - 129
Propanil	103		P	54 - 144
Propargite	48.9		P	10 - 191
Propiconazole	64.1		P	49 - 128
Pyraflufen Ethyl	70.1		P	46 - 141
Pyridaben	84.6		P	29 - 198
Pyriproxyfen	50.1		P	33 - 221
Simazine	84.3		P	62 - 119
Stiophos	28.4		P	13 - 144
Sulfentrazone	23.2		P	12 - 152
Tebuconazole	43.8		P	10 - 135
Terbufos	113		P	67 - 136
Terbutylazine	94.5		P	66 - 113
Tetradecachloro-m-terphenyl	149		P	30 - 235
Thiobencarb	82.0		P	51 - 125
Tri-o-cresyl Phosphate	107		P	50 - 150
Triadimefon	83.3		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	127		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.7		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	104		P	59 - 166

Reference Method: EPA 8270E

Batch ID: P436506

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	86.2		P	30 - 96.0
Alpha-BHC	94.6		P	70 - 109
Alpha-Chlordane	96.3		P	45 - 107
Beta-BHC	95.7		P	64 - 138
Beta-Cyfluthrin	100		P	17 - 141
Bifenthrin	96.8		P	10 - 113
Chlorothalonil	71.5		P	26 - 180
Cis-Nonachlor	97.2		P	37 - 102
Cypermethrin	93.0		P	20 - 133
Dacthal	94.2		P	69 - 114
DDD-p,p'	89.7		P	42 - 105
DDE-p,p'	98.5		P	42 - 106
DDT-p,p'	99.9		P	42 - 107

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P436506

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Delta-BHC	80.6		P	67 - 144
Deltamethrin	92.3		P	15 - 149
Dichlobenil	85.7		P	46 - 117
Dicofol	96.6		P	34 - 114
Dieldrin	97.9		P	50 - 108
Endosulfan I	90.1		P	55 - 104
Endosulfan II	82.8		P	51 - 111
Endosulfan Sulfate	83.7		P	56 - 121
Endrin	103		P	10 - 106
Endrin Aldehyde	87.9		P	34 - 114
Endrin Ketone	104		P	63 - 177
Esfenvalerate	99.7		P	29 - 143
Ethalfuralin	92.6		P	46 - 96.0
Fenpropathrin	98.4		P	28 - 115
Gamma-BHC	108		P	65 - 121
Gamma-Chlordane	101		P	39 - 103
Heptachlor	85.5		P	39 - 94.0
Heptachlor Epoxide	97.6		P	54 - 104
Hexachlorobenzene	84.1		P	36 - 100
Kepone	28.8		P	10 - 225
Lambda-Cyhalothrin	97.4		P	10 - 135
Methoprene	97.9		P	10 - 109
Methoxychlor	92.9		P	52 - 112
MGK-264	103		P	44 - 117
Mirex	89.1		P	20 - 90.0
Oxychlordane	95.2		P	44 - 102
PCB-1016	109		F	45 - 107
PCB-1260	130		F	40 - 118
Permethrin	92.1		P	18 - 135
Phenothrin	94.9		P	10 - 102
Piperonyl Butoxide	108		P	28 - 156
Prallethrin	96.6		P	28 - 113
Tau-Fluvalinate	92.9		P	10 - 123
Tetramethrin	99.0		P	18 - 158
Trans-Nonachlor	102		P	39 - 104
Triclosan Methyl	92.2		P	54 - 108
Trifluralin	95.4		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P436506

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	101		P	52 - 117
Toxaphene	106		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P436330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	85.5		P	40 - 150
Endothall	97.0		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P436330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glufosinate	91.6		P	40 - 150
Glyphosate	86.8		P	40 - 150
Sucralose	105		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P436414

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	62.9		P	40 - 150
2,4,5-T	68.5		P	40 - 150
Acetaminophen	81.1		P	30 - 150
Acetamiprid	81.1		P	40 - 150
Afidopyropen	69.5		P	30 - 150
Bentazon	94.8		P	30 - 150
Benzovindiflupyr	93.1		P	40 - 150
Carbamazepine	71.3		P	40 - 150
Clothianidin	81.9		P	40 - 150
Dinotefuran	92.7		P	40 - 150
Diuron	69.1		P	40 - 150
Fenuron	87.5		P	40 - 150
Fluridone	74.2		P	40 - 150
Hydrocodone	84.3		P	40 - 150
Ibuprofen	65.7		P	40 - 150
Imazapyr	73.9		P	40 - 150
Imidacloprid	79.2		P	40 - 150
Linuron	58.0		P	40 - 150
Mandestrobin	80.1		P	40 - 150
MCPP	77.9		P	40 - 150
Naproxen	62.6		P	40 - 150
Primidone	76.1		P	40 - 150
Pyraclostrobin	70.4		P	40 - 150
Silvex	68.5		P	40 - 150
Thiamethoxam	77.1		P	40 - 150
Tolfenpyrad	54.5		P	30 - 150
Triclopyr	69.6		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P436471

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	94.5		P	40 - 150
Aldicarb	70.1		P	30 - 150
Aldicarb Sulfone	103		P	40 - 150
Aldicarb Sulfoxide	111		P	40 - 150
Carbaryl	72.4		P	40 - 150
Carbofuran	79.6		P	40 - 150
Methiocarb	62.8		P	40 - 150
Methomyl	88.1		P	40 - 150
Oxamyl	97.2		P	40 - 150
Propoxur	79.0		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P436489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444583	Calcium	114	112	P/P	80 - 120
2444583	Iron	112	111	P/P	80 - 120
2444583	Magnesium	112	110	P/P	80 - 120
2444583	Potassium	104	103	P/P	80 - 120
2444583	Sodium	107	105	P/P	80 - 120
2444583	Strontium	103	101	P/P	80 - 120
2444583	Tin	97.7	96.8	P/P	80 - 120
2444583	Titanium	102	102	P/P	80 - 120
2444583	Vanadium	100	99.7	P/P	80 - 120
2444583	Zinc	98.8	97.6	P/P	80 - 120
2444730	Calcium	102		P	80 - 120
2444730	Iron	109		P	80 - 120
2444730	Magnesium	103		P	80 - 120
2444730	Potassium	101		P	80 - 120
2444730	Sodium	102		P	80 - 120
2444730	Strontium	98.9		P	80 - 120
2444730	Tin	93.6		P	80 - 120
2444730	Titanium	99.5		P	80 - 120
2444730	Vanadium	97.8		P	80 - 120
2444730	Zinc	94.2		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444583	Aluminum	98.8	98.0	P/P	80 - 120
2444583	Antimony	97.8	98.7	P/P	80 - 120
2444583	Arsenic	97.8	98.7	P/P	80 - 120
2444583	Barium	104	105	P/P	80 - 120
2444583	Beryllium	95.9	97.4	P/P	80 - 120
2444583	Boron	100	97.3	P/P	80 - 120
2444583	Cadmium	102	99.4	P/P	80 - 120
2444583	Chromium	94.5	94.8	P/P	80 - 120
2444583	Cobalt	99.6	99.2	P/P	80 - 120
2444583	Copper	100	101	P/P	80 - 120
2444583	Lead	100	100	P/P	80 - 120
2444583	Manganese	100	101	P/P	80 - 120
2444583	Molybdenum	97.1	97.7	P/P	80 - 120
2444583	Nickel	95.8	96.2	P/P	80 - 120
2444583	Selenium	99.5	99.9	P/P	80 - 120
2444583	Silver	111	111	P/P	80 - 120
2444583	Thallium	101	102	P/P	80 - 120
2444730	Aluminum	97.1		P	80 - 120
2444730	Antimony	98.4		P	80 - 120
2444730	Arsenic	96.3		P	80 - 120
2444730	Barium	102		P	80 - 120
2444730	Beryllium	98.7		P	80 - 120
2444730	Boron	100		P	80 - 120
2444730	Cadmium	99.8		P	80 - 120
2444730	Chromium	93.2		P	80 - 120
2444730	Cobalt	95.9		P	80 - 120
2444730	Copper	94.3		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444730	Lead	98.3		P	80 - 120
2444730	Manganese	102		P	80 - 120
2444730	Molybdenum	98.0		P	80 - 120
2444730	Nickel	90.8		P	80 - 120
2444730	Selenium	97.6		P	80 - 120
2444730	Silver	109		P	80 - 120
2444730	Thallium	102		P	80 - 120

Reference Method: EPA 8270E

Batch ID: P436398

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444261	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	77.4	97.3	P/P	50 - 150
2444261	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.4	114	P/P	29 - 155
2444261	Acetochlor	97.1	98.2	P/P	60 - 124
2444261	Alachlor	76.0	81.8	P/P	54 - 122
2444261	Ametryn	123	146	P/P	51 - 208
2444261	Atrazine Desethyl	77.8	102	P/P	13 - 124
2444261	Avobenzene	98.9	143	P/P	35 - 187
2444261	Azinphos Methyl	57.7	90.7	P/P	43 - 276
2444261	Azoxystrobin	98.2	106	P/P	52 - 300
2444261	Bromacil	104	112	P/P	44 - 134
2444261	Butylate	77.4	67.0	P/P	23 - 82.0
2444261	Caffeine	87.2	96.2	P/P	10 - 277
2444261	Carbophenothion	96.8	99.0	P/P	47 - 135
2444261	Carfentrazone Ethyl	99.7	95.1	P/P	46 - 147
2444261	Chlorfenapyr	63.6	64.4	P/P	43 - 114
2444261	Chlorpyrifos Ethyl	120	108	P/P	47 - 124
2444261	Chlorpyrifos Methyl	123	128	P/P	60 - 135
2444261	Coumaphos	63.0	127	P/P	10 - 222
2444261	Cyanazine	128	113	P/P	10 - 257
2444261	Cyprodinil	112	115	P/P	42 - 148
2444261	Dechlorane 602	53.6	73.0	P/P	14 - 133
2444261	Dechlorane 603	94.1	105	P/P	18 - 191
2444261	Dechlorane Plus	81.2	80.7	P/P	23 - 154
2444261	Demeton	80.1	78.1	P/P	41 - 137
2444261	Diazinon	137	115	P/P	64 - 139
2444261	Difenoconazole	43.6	90.5	F/P	46 - 254
2444261	Dimethenamid	77.7	85.0	P/P	47 - 117
2444261	Dimethomorph	138	255	P/P	14 - 255
2444261	Disulfoton	115	113	P/P	52 - 130
2444261	Dithiopyr	60.6	57.2	P/P	40 - 121
2444261	EPTC	70.2	61.3	P/P	19 - 78.0
2444261	Ethion	52.9	76.9	P/P	12 - 124
2444261	Ethoprop	99.5	98.4	P/P	68 - 144
2444261	Etridiazole	65.2	36.4	P/P	26 - 96.0
2444261	Fenamiphos	115	129	P/P	41 - 129
2444261	Fenbuconazole	36.4	78.9	P/P	26 - 169
2444261	Fipronil	87.8	101	P/P	46 - 145
2444261	Fipronil Desulfinyl	95.3	110	P/P	47 - 136
2444261	Fipronil Sulfide	90.0	105	P/P	41 - 127
2444261	Fipronil Sulfone	78.0	73.3	P/P	35 - 133

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436398

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444261	Fluazifop-P-butyl	136	112	F/P	46 - 131
2444261	Fludioxonil	80.6	74.5	P/P	51 - 124
2444261	Flumioxazin	71.8	117	P/P	10 - 289
2444261	Flutolanil	69.3	75.5	P/P	34 - 130
2444261	Fluxapyroxad	46.4	46.3	P/P	10 - 197
2444261	Fonofos	103	94.1	P/P	42 - 131
2444261	Hexabromobenzene	102	114	P/P	47 - 178
2444261	Imazail	43.5	67.2	P/P	37 - 252
2444261	Iprodione	83.2	92.8	P/P	34 - 265
2444261	Loratadine	208	169	P/P	20 - 231
2444261	Malathion	93.6	91.1	P/P	34 - 164
2444261	Metaxyl	76.5	90.4	P/P	49 - 125
2444261	Metolachlor	88.4	92.2	P/P	54 - 125
2444261	Metribuzin	73.2	62.1	P/P	51 - 139
2444261	Mevinphos	89.4	104	P/P	46 - 130
2444261	Molinate	67.0	61.7	P/P	39 - 93.0
2444261	Myclobutanil	78.3	92.3	P/P	50 - 130
2444261	Naled	59.2	81.9	P/P	10 - 150
2444261	Napropamide	66.5	84.4	P/P	10 - 109
2444261	Norflurazon	69.8	84.9	P/P	36 - 134
2444261	Octinoxate	107	116	P/P	18 - 170
2444261	Oxadiazon	75.2	87.5	P/P	43 - 112
2444261	Oxybenzone	110	124	P/P	33 - 154
2444261	Oxyfluorfen	111	118	P/P	62 - 154
2444261	Parathion Ethyl	97.5	100	P/P	65 - 120
2444261	Parathion Methyl	142	149	P/P	77 - 185
2444261	PBB-153	98.3	132	P/P	23 - 193
2444261	PBDE-47	82.0	101	P/P	31 - 139
2444261	PBDE-99	70.9	96.7	P/P	24 - 138
2444261	Pendimethalin	117	119	P/P	50 - 146
2444261	Pentabromotoluene	92.6	102	P/P	54 - 152
2444261	Phenytoin	50.5	57.0	P/P	10 - 157
2444261	Phorate	112	91.9	P/P	54 - 161
2444261	Prodiamine	60.6	63.2	P/P	29 - 160
2444261	Prometon	118	130	P/P	38 - 145
2444261	Prometryn	108	107	P/P	32 - 151
2444261	Pronamide	112	125	P/P	61 - 140
2444261	Propanil	100	110	P/P	50 - 147
2444261	Propargite	56.0	67.9	P/P	10 - 190
2444261	Propiconazole	66.7	74.6	P/P	30 - 146
2444261	Pyraflufen Ethyl	79.3	87.9	P/P	30 - 147
2444261	Pyridaben	33.4	79.3	P/P	15 - 195
2444261	Pyriproxyfen	63.5	90.8	P/P	31 - 218
2444261	Stirophos	23.6	21.3	P/P	10 - 134
2444261	Sulfentrazone	46.3	56.6	F/P	53 - 186
2444261	Tebuconazole	41.2	61.6	P/P	10 - 133
2444261	Terbufos	106	100	P/P	65 - 151
2444261	Terbuthylazine	83.2	98.8	P/P	62 - 117
2444261	Tetradecachloro-m-terphenyl	146	137	P/P	10 - 260
2444261	Thiobencarb	87.9	90.9	P/P	48 - 122
2444261	Tri-o-cresyl Phosphate	100	118	P/P	32 - 151
2444261	Triadimefon	57.1	75.3	P/P	46 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436398

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444261	Tris(1-chloro-2-propyl) phosphate (TCPP)	111	121	P/P	51 - 154
2444261	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	92.9	96.3	P/P	59 - 147
2444261	Tris(2-chloroethyl) phosphate (TCEP)	106	113	P/P	65 - 156

Reference Method: EPA 8270E

Batch ID: P436506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444350	Aldrin	72.2	66.7	P/P	24 - 81.0
2444350	Alpha-BHC	85.6	88.6	P/P	65 - 110
2444350	Alpha-Chlordane	63.4	68.5	P/P	43 - 119
2444350	Beta-BHC	86.8	96.6	P/P	54 - 165
2444350	Beta-Cyfluthrin	126	164	P/P	27 - 165
2444350	Bifenthrin	109	108	P/P	17 - 117
2444350	Chlorothalonil	113	133	P/P	10 - 255
2444350	Cis-Nonachlor	64.1	63.4	P/P	34 - 98.0
2444350	Cypermethrin	119	131	P/P	25 - 143
2444350	Dacthal	79.5	69.8	P/P	55 - 139
2444350	DDD-p,p'	75.6	66.5	P/P	30 - 109
2444350	DDE-p,p'	73.9	65.4	P/P	35 - 106
2444350	DDT-p,p'	130	116	F/F	41 - 101
2444350	Delta-BHC	101	114	P/P	58 - 165
2444350	Deltamethrin	182	197	P/F	10 - 194
2444350	Dichlobenil	46.2	58.5	P/P	22 - 114
2444350	Dicofol	92.3	85.1	P/P	17 - 133
2444350	Dieldrin	83.7	79.9	P/P	45 - 129
2444350	Endosulfan I	87.8	89.6	P/P	49 - 104
2444350	Endosulfan II	66.1	67.4	P/P	37 - 117
2444350	Endosulfan Sulfate	46.2	59.0	P/P	38 - 128
2444350	Endrin	73.5	58.3	P/P	35 - 116
2444350	Endrin Aldehyde	37.1	41.3	P/P	19 - 108
2444350	Endrin Ketone	76.9	82.0	P/P	44 - 134
2444350	Esfenvalerate	145	165	P/P	27 - 176
2444350	Ethalfuralin	83.8	80.3	P/P	49 - 100
2444350	Fenpropathrin	109	98.6	P/P	34 - 117
2444350	Gamma-BHC	113	107	P/P	59 - 129
2444350	Gamma-Chlordane	84.3	93.6	P/P	33 - 107
2444350	Heptachlor	102	84.1	F/P	37 - 94.0
2444350	Heptachlor Epoxide	95.4	86.6	P/P	38 - 118
2444350	Hexachlorobenzene	63.4	72.5	P/P	35 - 97.0
2444350	Kepone	22.0	26.0	P/P	10 - 221
2444350	Lambda-Cyhalothrin	130	133	P/P	23 - 190
2444350	Methoprene	85.6	73.6	P/P	21 - 109
2444350	Methoxychlor	97.6	101	P/P	46 - 118
2444350	MGK-264	84.9	80.5	P/P	39 - 122
2444350	Mirex	75.7	80.7	P/P	25 - 90.0
2444350	Oxychlordane	84.5	89.4	P/P	42 - 100
2444350	Permethrin	116	113	P/P	33 - 181
2444350	Phenothrin	116	119	P/P	12 - 125
2444350	Piperonyl Butoxide	120	120	P/P	10 - 178
2444350	Prallethrin	68.7	57.5	P/P	24 - 122
2444350	Tau-Fluvalinate	139	154	P/F	13 - 151

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444350	Tetramethrin	119	127	P/P	16 - 172
2444350	Trans-Nonachlor	78.9	68.9	P/P	39 - 100
2444350	Triclosan Methyl	69.6	71.9	P/P	43 - 110
2444350	Trifluralin	80.2	77.9	P/P	45 - 94.0
2444518	PCB-1016	84.6	79.7	P/P	45 - 107
2444518	PCB-1260	87.0	84.8	P/P	40 - 112

Reference Method: EPA 8276

Batch ID: P436506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444518	Chlordane	86.3	71.9	P/P	43 - 123
2444518	Toxaphene	103	81.9	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P436330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444339	Acesulfame K	131	135	P/P	40 - 150
2444339	AMPA	86.2	96.9	P/P	40 - 150
2444339	Endothall	119	122	P/P	40 - 150
2444339	Glufosinate	92.1	86.6	P/P	40 - 150
2444339	Glyphosate	103	102	P/P	40 - 150
2444339	Sucralose	98.2	110	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436414

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444259	2,4-D	91.3	99.7	P/P	40 - 150
2444259	2,4,5-T	93.9	104	P/P	40 - 150
2444259	Acetaminophen	75.7	80.7	P/P	30 - 150
2444259	Acetamiprid	50.9	52.1	P/P	40 - 150
2444259	Afidopyropen	70.5	70.9	P/P	30 - 150
2444259	Bentazon	86.7	85.1	P/P	30 - 150
2444259	Benzovindiflupyr	80.1	86.6	P/P	40 - 150
2444259	Carbamazepine	43.1	45.1	P/P	40 - 150
2444259	Clothianidin	54.9	58.6	P/P	40 - 150
2444259	Dinotefuran	57.3	59.9	P/P	40 - 150
2444259	Diuron	42.3	42.5	P/P	40 - 150
2444259	Fenuron	33.2	35.6	F/F	40 - 150
2444259	Fluridone	51.7	54.2	P/P	40 - 150
2444259	Hydrocodone	54.7	58.0	P/P	40 - 150
2444259	Ibuprofen	51.8	50.1	P/P	40 - 150
2444259	Imazapyr	82.3	73.0	P/P	40 - 150
2444259	Imidacloprid	76.8	79.7	P/P	40 - 150
2444259	Linuron	54.2	49.7	P/P	40 - 150
2444259	Mandestrobin	66.5	73.4	P/P	40 - 150
2444259	MCPP	107	114	P/P	40 - 150
2444259	Naproxen	171	149	F/P	40 - 150
2444259	Primidone	57.9	51.1	P/P	40 - 150
2444259	Pyraclostrobin	79.4	79.7	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P436414

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444259	Silvex	93.3	107	P/P	40 - 150
2444259	Thiamethoxam	63.8	66.6	P/P	40 - 150
2444259	Tolfenpyrad	58.7	61.9	P/P	30 - 150
2444259	Triclopyr	97.9	106	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P436471

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444258	3-Hydroxycarbofuran	37.7	44.2	F/P	40 - 150
2444258	Aldicarb	30.5	32.7	P/P	30 - 150
2444258	Aldicarb Sulfone	45.9	49.7	P/P	40 - 150
2444258	Aldicarb Sulfoxide	16.6	17.3	F/F	40 - 150
2444258	Carbaryl	37.6	40.8	F/P	40 - 150
2444258	Carbofuran	31.4	34.3	F/F	40 - 150
2444258	Methiocarb	44.4	49.7	P/P	40 - 150
2444258	Methomyl	32.9	37.3	F/F	40 - 150
2444258	Oxamyl	43.3	47.9	P/P	40 - 150
2444258	Propoxur	30.9	33.5	F/F	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P436489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444583	Calcium	1.05	Spike	P	0 - 20
2444583	Iron	1.01	Spike	P	0 - 20
2444583	Magnesium	1.07	Spike	P	0 - 20
2444583	Potassium	0.340	Spike	P	0 - 20
2444583	Sodium	1.29	Spike	P	0 - 20
2444583	Strontium	1.89	Spike	P	0 - 20
2444583	Tin	0.922	Spike	P	0 - 20
2444583	Titanium	0.459	Spike	P	0 - 20
2444583	Vanadium	0.778	Spike	P	0 - 20
2444583	Zinc	1.19	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444583	Aluminum	0.840	Spike	P	0 - 20
2444583	Antimony	0.925	Spike	P	0 - 20
2444583	Arsenic	0.932	Spike	P	0 - 20
2444583	Barium	0.525	Spike	P	0 - 20
2444583	Beryllium	1.41	Spike	P	0 - 20
2444583	Boron	2.47	Spike	P	0 - 20
2444583	Cadmium	2.21	Spike	P	0 - 20
2444583	Chromium	0.369	Spike	P	0 - 20
2444583	Cobalt	0.400	Spike	P	0 - 20
2444583	Copper	0.575	Spike	P	0 - 20
2444583	Lead	0.163	Spike	P	0 - 20
2444583	Manganese	0.904	Spike	P	0 - 20
2444583	Molybdenum	0.628	Spike	P	0 - 20
2444583	Nickel	0.430	Spike	P	0 - 20
2444583	Selenium	0.430	Spike	P	0 - 20
2444583	Silver	0.107	Spike	P	0 - 20
2444583	Thallium	0.791	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P436398

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444261	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	22.8	Spike	P	0 - 30
2444261	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	24.3	Spike	P	0 - 35
2444261	Acetochlor	1.09	Spike	P	0 - 28
2444261	Alachlor	7.38	Spike	P	0 - 30
2444261	Ametryn	16.7	Spike	P	0 - 32
2444261	Atrazine	2.86	Spike	P	0 - 33
2444261	Atrazine Desethyl	24.0	Spike	P	0 - 36
2444261	Avobenzone	36.3	Spike	F	0 - 35
2444261	Azinphos Methyl	44.5	Spike	P	0 - 62
2444261	Azoxystrobin	7.43	Spike	P	0 - 39
2444261	Bromacil	7.05	Spike	P	0 - 33
2444261	Butylate	14.4	Spike	P	0 - 51

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P436398

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444261	Caffeine	9.89	Spike	P	0 - 100
2444261	Carbophenothion	2.22	Spike	P	0 - 34
2444261	Carfentrazone Ethyl	4.74	Spike	P	0 - 33
2444261	Chlorfenapyr	1.20	Spike	P	0 - 28
2444261	Chlorpyrifos Ethyl	10.6	Spike	P	0 - 31
2444261	Chlorpyrifos Methyl	3.48	Spike	P	0 - 27
2444261	Coumaphos	67.2	Spike	F	0 - 62
2444261	Cyanazine	11.9	Spike	P	0 - 48
2444261	Cyprodinil	3.03	Spike	P	0 - 29
2444261	Dechlorane 602	30.7	Spike	P	0 - 60
2444261	Dechlorane 603	10.9	Spike	P	0 - 40
2444261	Dechlorane Plus	0.619	Spike	P	0 - 38
2444261	Demeton	2.54	Spike	P	0 - 33
2444261	Diazinon	17.4	Spike	P	0 - 32
2444261	Difenoconazole	69.9	Spike	P	0 - 71
2444261	Dimethenamid	8.98	Spike	P	0 - 60
2444261	Dimethomorph	59.4	Spike	P	0 - 61
2444261	Disulfoton	1.11	Spike	P	0 - 30
2444261	Dithiopyr	5.88	Spike	P	0 - 28
2444261	EPTC	13.5	Spike	P	0 - 56
2444261	Ethion	37.0	Spike	P	0 - 79
2444261	Ethoprop	1.07	Spike	P	0 - 31
2444261	Etridiazole	56.7	Spike	F	0 - 43
2444261	Fenamiphos	11.1	Spike	P	0 - 43
2444261	Fenbuconazole	73.6	Spike	P	0 - 79
2444261	Fipronil	14.4	Spike	P	0 - 46
2444261	Fipronil Desulfinyl	13.9	Spike	P	0 - 36
2444261	Fipronil Sulfide	15.1	Spike	P	0 - 34
2444261	Fipronil Sulfone	6.13	Spike	P	0 - 47
2444261	Fluazifop-P-butyl	19.6	Spike	P	0 - 38
2444261	Fludioxonil	7.88	Spike	P	0 - 29
2444261	Flumioxazin	47.5	Spike	P	0 - 63
2444261	Flutolanil	8.53	Spike	P	0 - 36
2444261	Fluxapyroxad	0.155	Spike	P	0 - 65
2444261	Fonofos	9.17	Spike	P	0 - 35
2444261	Hexabromobenzene	11.1	Spike	P	0 - 41
2444261	Hexazinone	0.365	Spike	P	0 - 31
2444261	Imazalil	42.9	Spike	P	0 - 52
2444261	Iprodione	11.0	Spike	P	0 - 49
2444261	Loratadine	20.5	Spike	P	0 - 59
2444261	Malathion	2.78	Spike	P	0 - 77
2444261	Metalaxyl	12.8	Spike	P	0 - 76
2444261	Metolachlor	4.20	Spike	P	0 - 29
2444261	Metribuzin	16.4	Spike	P	0 - 51
2444261	Mevinphos	15.4	Spike	P	0 - 31
2444261	Molinate	8.23	Spike	P	0 - 39
2444261	Myclobutanil	16.4	Spike	P	0 - 34
2444261	Naled	32.1	Spike	P	0 - 37
2444261	Napropamide	23.8	Spike	P	0 - 100
2444261	Norflurazon	19.6	Spike	P	0 - 54
2444261	Octinoxate	7.88	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P436398

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444261	Oxadiazon	15.2	Spike	P	0 - 34
2444261	Oxybenzone	11.7	Spike	P	0 - 35
2444261	Oxyfluorfen	6.21	Spike	P	0 - 28
2444261	Parathion Ethyl	2.70	Spike	P	0 - 31
2444261	Parathion Methyl	4.88	Spike	P	0 - 29
2444261	PBB-153	29.0	Spike	P	0 - 49
2444261	PBDE-47	20.7	Spike	P	0 - 36
2444261	PBDE-99	30.8	Spike	P	0 - 46
2444261	Pendimethalin	1.39	Spike	P	0 - 31
2444261	Pentabromotoluene	9.50	Spike	P	0 - 16
2444261	Phenytoin	12.1	Spike	P	0 - 100
2444261	Phorate	19.6	Spike	P	0 - 36
2444261	Prodiamine	4.17	Spike	P	0 - 68
2444261	Prometon	9.87	Spike	P	0 - 35
2444261	Prometryn	0.802	Spike	P	0 - 33
2444261	Pronamide	11.4	Spike	P	0 - 24
2444261	Propanil	9.37	Spike	P	0 - 28
2444261	Propargite	19.2	Spike	P	0 - 53
2444261	Propiconazole	11.1	Spike	P	0 - 44
2444261	Pyraflufen Ethyl	10.3	Spike	P	0 - 61
2444261	Pyridaben	35.9	Spike	P	0 - 43
2444261	Pyriproxyfen	35.4	Spike	P	0 - 82
2444261	Simazine	7.23	Spike	P	0 - 29
2444261	Stiropfos	10.3	Spike	P	0 - 100
2444261	Sulfentrazone	20.0	Spike	P	0 - 64
2444261	Tebuconazole	39.6	Spike	P	0 - 76
2444261	Terbufos	5.98	Spike	P	0 - 29
2444261	Terbutylazine	17.1	Spike	P	0 - 28
2444261	Tetradecachloro-m-terphenyl	6.75	Spike	P	0 - 42
2444261	Thiobencarb	3.43	Spike	P	0 - 26
2444261	Tri-o-cresyl Phosphate	15.9	Spike	P	0 - 24
2444261	Triadimefon	18.2	Spike	P	0 - 40
2444261	Tris(1-chloro-2-propyl) phosphate (TCPP)	8.59	Spike	P	0 - 30
2444261	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	3.59	Spike	P	0 - 22
2444261	Tris(2-chloroethyl) phosphate (TCEP)	5.91	Spike	P	0 - 15

Reference Method: EPA 8270E

Batch ID: P436506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444350	Aldrin	8.01	Spike	P	0 - 41
2444350	Alpha-BHC	3.54	Spike	P	0 - 25
2444350	Alpha-Chlordane	7.77	Spike	P	0 - 32
2444350	Beta-BHC	10.6	Spike	P	0 - 33
2444350	Beta-Cyfluthrin	25.8	Spike	P	0 - 43
2444350	Bifenthrin	1.14	Spike	P	0 - 52
2444350	Chlorothalonil	16.1	Spike	P	0 - 82
2444350	Cis-Nonachlor	1.14	Spike	P	0 - 33
2444350	Cypermethrin	9.85	Spike	P	0 - 51
2444350	Dacthal	13.0	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P436506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444350	DDD-p,p'	12.9	Spike	P	0 - 39
2444350	DDE-p,p'	12.2	Spike	P	0 - 31
2444350	DDT-p,p'	11.5	Spike	P	0 - 29
2444350	Delta-BHC	12.1	Spike	P	0 - 35
2444350	Deltamethrin	7.75	Spike	P	0 - 100
2444350	Dichlobenil	23.6	Spike	P	0 - 40
2444350	Dicofol	8.11	Spike	P	0 - 37
2444350	Dieldrin	4.72	Spike	P	0 - 27
2444350	Endosulfan I	2.06	Spike	P	0 - 23
2444350	Endosulfan II	1.90	Spike	P	0 - 34
2444350	Endosulfan Sulfate	24.4	Spike	P	0 - 36
2444350	Endrin	23.0	Spike	P	0 - 45
2444350	Endrin Aldehyde	10.8	Spike	P	0 - 76
2444350	Endrin Ketone	6.45	Spike	P	0 - 43
2444350	Esfenvalerate	12.5	Spike	P	0 - 51
2444350	Ethalfuralin	4.23	Spike	P	0 - 22
2444350	Fenpropathrin	10.0	Spike	P	0 - 49
2444350	Gamma-BHC	5.88	Spike	P	0 - 28
2444350	Gamma-Chlordane	10.5	Spike	P	0 - 40
2444350	Heptachlor	19.6	Spike	P	0 - 29
2444350	Heptachlor Epoxide	9.70	Spike	P	0 - 33
2444350	Hexachlorobenzene	13.4	Spike	P	0 - 36
2444350	Kepone	16.9	Spike	P	0 - 85
2444350	Lambda-Cyhalothrin	2.58	Spike	P	0 - 55
2444350	Methoprene	15.2	Spike	P	0 - 53
2444350	Methoxychlor	3.76	Spike	P	0 - 50
2444350	MGK-264	5.33	Spike	P	0 - 43
2444350	Mirex	6.29	Spike	P	0 - 40
2444350	Oxychlordane	5.67	Spike	P	0 - 31
2444350	Permethrin	3.25	Spike	P	0 - 50
2444350	Phenothrin	2.78	Spike	P	0 - 58
2444350	Piperonyl Butoxide	0.129	Spike	P	0 - 100
2444350	Prallethrin	17.8	Spike	P	0 - 39
2444350	Tau-Fluvalinate	9.66	Spike	P	0 - 54
2444350	Tetramethrin	6.64	Spike	P	0 - 51
2444350	Trans-Nonachlor	13.5	Spike	P	0 - 39
2444350	Triclosan Methyl	3.25	Spike	P	0 - 31
2444350	Trifluralin	2.97	Spike	P	0 - 22
2444518	PCB-1016	6.00	Spike	P	0 - 25
2444518	PCB-1260	2.53	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P436506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444518	Chlordane	18.2	Spike	P	0 - 28
2444518	Toxaphene	22.4	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P436330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444339	Acesulfame K	2.92	Spike	P	0 - 30
2444339	AMPA	10.3	Spike	P	0 - 30
2444339	Endothall	2.11	Spike	P	0 - 30
2444339	Glufosinate	6.16	Spike	P	0 - 30
2444339	Glyphosate	0.344	Spike	P	0 - 30
2444339	Sucralose	6.82	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436414

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444259	2,4-D	8.17	Spike	P	0 - 30
2444259	2,4,5-T	10.2	Spike	P	0 - 30
2444259	Acetaminophen	6.31	Spike	P	0 - 30
2444259	Acetamiprid	2.26	Spike	P	0 - 30
2444259	Afidopyropen	0.474	Spike	P	0 - 30
2444259	Bentazon	1.90	Spike	P	0 - 30
2444259	Benzovindiflupyr	7.81	Spike	P	0 - 30
2444259	Carbamazepine	4.61	Spike	P	0 - 30
2444259	Clothianidin	6.45	Spike	P	0 - 30
2444259	Dinotefuran	4.50	Spike	P	0 - 30
2444259	Diuron	0.355	Spike	P	0 - 30
2444259	Fenuron	6.92	Spike	P	0 - 30
2444259	Fluridone	3.98	Spike	P	0 - 30
2444259	Hydrocodone	5.79	Spike	P	0 - 30
2444259	Ibuprofen	3.24	Spike	P	0 - 30
2444259	Imazapyr	8.50	Spike	P	0 - 30
2444259	Imidacloprid	3.61	Spike	P	0 - 30
2444259	Linuron	8.77	Spike	P	0 - 30
2444259	Mandestrobin	9.89	Spike	P	0 - 30
2444259	MCPP	6.19	Spike	P	0 - 30
2444259	Naproxen	13.4	Spike	P	0 - 30
2444259	Primidone	12.4	Spike	P	0 - 30
2444259	Pyraclostrobin	0.377	Spike	P	0 - 30
2444259	Silvex	13.8	Spike	P	0 - 30
2444259	Thiamethoxam	4.34	Spike	P	0 - 30
2444259	Tolfenpyrad	5.24	Spike	P	0 - 30
2444259	Triclopyr	7.65	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436471

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444258	3-Hydroxycarbofuran	15.9	Spike	P	0 - 30
2444258	Aldicarb	6.79	Spike	P	0 - 30
2444258	Aldicarb Sulfone	8.13	Spike	P	0 - 30
2444258	Aldicarb Sulfoxide	4.13	Spike	P	0 - 30
2444258	Carbaryl	8.03	Spike	P	0 - 30
2444258	Carbofuran	8.65	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P436471

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444258	Methiocarb	11.1	Spike	P	0 - 30
2444258	Methomyl	12.6	Spike	P	0 - 30
2444258	Oxamyl	9.95	Spike	P	0 - 30
2444258	Propoxur	8.16	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2444706
Field Sample ID: G4NE0008

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	40.7	P	30 - 160

Lab Sample ID: 2444707
Field Sample ID: G4NE0008

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	85.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	66.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	35.6	P	30 - 160
EPA 8321B	Diuron-d6	46.2	P	30 - 160
EPA 8321B	Endothall-d6	120	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	63.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.4	P	30 - 160
EPA 8321B	Primidone-d5	37.8	P	30 - 160
EPA 8321B	Sucralose-d6	104	P	30 - 160

Lab Sample ID: 2444708
Field Sample ID: G4NE0008

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	61.7	P	37 - 129
EPA 8270E	Decachlorobiphenyl	38.4	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	53.5	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	42.0	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	63.2	P	28 - 102
EPA 8276	PCNB	81.4	P	49 - 115

Lab Sample ID: 2444709
Field Sample ID: G4NE0008

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	74.6	P	20 - 200
EPA 8270E	Simazine-d10	125	P	58 - 137
EPA 8270E	Terbufos-d10	97.9	P	50 - 134
EPA 8270E	Terphenyl-d14	115	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122173
Included Lab Sample IDs: 2444707

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.2	72.0	P/P	50 - 150
2,4,5-T	88.4	83.5	P/P	50 - 150
3-Hydroxycarbofuran	110	114	P/P	60 - 150
Acetaminophen	115	115	P/P	60 - 160
Acetamiprid	103	110	P/P	50 - 150
Afidopyropen	101	99.9	P/P	50 - 150
Aldicarb	112	113	P/P	60 - 150
Aldicarb Sulfone	106	103	P/P	50 - 150
Aldicarb Sulfoxide	110	106	P/P	50 - 150
Bentazon	108	108	P/P	50 - 160
Benzovindiflupyr	108	143	P/P	50 - 150
Carbamazepine	103	106	P/P	60 - 150
Carbaryl	105	103	P/P	60 - 150
Carbofuran	91.7	98.3	P/P	50 - 150
Clothianidin	106	107	P/P	60 - 150
Dinotefuran	110	111	P/P	50 - 150
Diuron	110	111	P/P	60 - 160
Fenuron	104	108	P/P	60 - 150
Fluridone	99.5	102	P/P	60 - 160
Hydrocodone	106	104	P/P	60 - 150
Ibuprofen	83.4	97.3	P/P	50 - 160
Imazapyr	83.6	90.4	P/P	50 - 150
Imidacloprid	93.4	92.0	P/P	60 - 150
Linuron	103	109	P/P	60 - 150
Mandestrobin	104	107	P/P	50 - 150
MCPP	82.6	87.4	P/P	50 - 150
Methiocarb	105	104	P/P	50 - 150
Methomyl	107	103	P/P	50 - 150
Naproxen	102	64.9	P/P	50 - 160
Oxamyl	107	112	P/P	50 - 150
Primidone	98.5	99.2	P/P	60 - 150
Propoxur	116	122	P/P	50 - 150
Pyraclostrobin	106	118	P/P	60 - 150
Silvex	98.1	84.5	P/P	50 - 150
Thiamethoxam	102	95.1	P/P	50 - 150
Tolfenpyrad	115	125	P/P	60 - 150
Triclopyr	85.9	92.0	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A122179
Included Lab Sample IDs: 2444707

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	109	119	P/P	60 - 160
Sucralose	103	111	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A122180
Included Lab Sample IDs: 2444707

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

Reference Method: EPA 8321B
Run ID: A122180
Included Lab Sample IDs: 2444707

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	92.5	95.4	P/P	60 - 160
Endothall	92.0	94.8	P/P	60 - 160
Glufosinate	107	100	P/P	60 - 160
Glyphosate	92.7	91.4	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A122213
Included Lab Sample IDs: 2444710

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.7	97.3	P/P	90 - 110
Antimony	96.8	95.4	P/P	90 - 110
Arsenic	98.3	95.4	P/P	90 - 110
Barium	101	98.2	P/P	90 - 110
Beryllium	98.1	97.8	P/P	90 - 110
Boron	93.0	94.6	P/P	90 - 110
Cadmium	99.2	98.1	P/P	90 - 110
Chromium	95.3	94.6	P/P	90 - 110
Cobalt	99.0	97.3	P/P	90 - 110
Copper	96.8	93.0	P/P	90 - 110
Lead	98.8	97.4	P/P	90 - 110
Manganese	100	101	P/P	90 - 110
Molybdenum	97.1	95.0	P/P	90 - 110
Nickel	95.7	92.8	P/P	90 - 110
Selenium	98.9	96.8	P/P	90 - 110
Silver	102	101	P/P	90 - 110
Thallium	98.6	97.7	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A122237
Included Lab Sample IDs: 2444710

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	103	P/P	90 - 110
Iron	103	103	P/P	90 - 110
Magnesium	103	102	P/P	90 - 110
Potassium	100	99.9	P/P	90 - 110
Sodium	101	100	P/P	90 - 110
Strontium	101	101	P/P	90 - 110
Tin	99.3	99.4	P/P	90 - 110
Titanium	100	99.8	P/P	90 - 110
Vanadium	99.9	99.7	P/P	90 - 110
Zinc	100	100	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A122283
Included Lab Sample IDs: 2444709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	94.1		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122283
Included Lab Sample IDs: 2444709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzene	92.4		P	80 - 120
Dechlorane 602	96.4		P	80 - 120
Dechlorane 603	96.5		P	80 - 120
Dechlorane Plus	93.4		P	80 - 120
Hexabromobenzene	90.2		P	80 - 120
Octinoxate	88.9		P	80 - 120
Oxybenzone	94.1		P	80 - 120
PBB-153	89.9		P	80 - 120
PBDE-47	90.4		P	80 - 120
PBDE-99	86.4		P	80 - 120
Pentabromotoluene	100		P	80 - 120
Tetradecachloro-m-terphenyl	89.7		P	80 - 120
Tri-o-cresyl Phosphate	92.4		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	94.4		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	103		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122303
Included Lab Sample IDs: 2444708

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.5		P	80 - 120
Alpha-BHC	99.5		P	80 - 120
Alpha-Chlordane	99.9		P	80 - 120
Beta-BHC	108		P	80 - 120
Beta-Cyfluthrin	95.8		P	80 - 120
Bifenthrin	89.6		P	80 - 120
Chlorothalonil	84.0		P	80 - 120
Cis-Nonachlor	101		P	80 - 120
Cypermethrin	90.9		P	80 - 120
Dacthal	93.3		P	80 - 120
DDD-p,p'	104		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	92.8		P	80 - 120
Delta-BHC	91.5		P	80 - 120
Deltamethrin	89.5		P	80 - 120
Dichlobenil	101		P	80 - 120
Dicofol	100		P	80 - 120
Dieldrin	94.5		P	80 - 120
Endosulfan I	93.2		P	80 - 120
Endosulfan II	89.6		P	80 - 120
Endosulfan Sulfate	90.6		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	84.8		P	80 - 120
Esfenvalerate	88.7		P	80 - 120
Ethalfuralin	100		P	80 - 120
Fenpropathrin	96.3		P	80 - 120
Gamma-BHC	97.2		P	80 - 120
Gamma-Chlordane	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122303
Included Lab Sample IDs: 2444708

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Heptachlor	91.5		P	80 - 120
Heptachlor Epoxide	94.3		P	80 - 120
Hexachlorobenzene	96.0		P	80 - 120
Kepone	57.6*		F	80 - 120
Lambda-Cyhalothrin	92.5		P	80 - 120
Methoprene	97.7		P	80 - 120
Methoxychlor	91.6		P	80 - 120
MGK-264	96.7		P	80 - 120
Mirex	95.5		P	80 - 120
Oxychlordane	99.9		P	80 - 120
Permethrin	86.0		P	80 - 120
Phenothrin	86.9		P	80 - 120
Piperonyl Butoxide	84.7		P	80 - 120
Prallethrin	96.3		P	80 - 120
Tau-Fluvalinate	86.4		P	80 - 120
Tetramethrin	86.6		P	80 - 120
Trans-Nonachlor	102		P	80 - 120
Triclosan Methyl	95.7		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8276
Run ID: A122315
Included Lab Sample IDs: 2444708

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	105		P	80 - 120
Toxaphene	105		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122376
Included Lab Sample IDs: 2444708

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	100		P	80 - 120
PCB-1260	98.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122457
Included Lab Sample IDs: 2444709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	92.5		P	80 - 120
Alachlor	95.5		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	115		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	105		P	80 - 120
Azoxystrobin	95.8		P	80 - 120
Bromacil	96.9		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	110		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122457
Included Lab Sample IDs: 2444709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbophenothion	109		P	80 - 120
Carfentrazone Ethyl	109		P	80 - 120
Chlorfenapyr	86.9		P	80 - 120
Chlorpyrifos Ethyl	89.2		P	80 - 120
Chlorpyrifos Methyl	105		P	80 - 120
Coumaphos	108		P	80 - 120
Cyanazine	100		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	112		P	80 - 120
Diazinon	108		P	80 - 120
Difenoconazole	96.4		P	80 - 120
Dimethenamid	113		P	80 - 120
Dimethomorph	107		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	110		P	80 - 120
EPTC	98.4		P	80 - 120
Ethion	92.0		P	80 - 120
Ethoprop	62.2*		F	80 - 120
Etridiazole	103		P	80 - 120
Fenamiphos	90.6		P	80 - 120
Fenbuconazole	96.6		P	80 - 120
Fipronil	93.0		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	98.6		P	80 - 120
Fludioxonil	100		P	80 - 120
Flumioxazin	115		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	77.2*		F	80 - 120
Fonofos	90.2		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	115		P	80 - 120
Iprodione	90.1		P	80 - 120
Loratadine	95.0		P	80 - 120
Malathion	87.0		P	80 - 120
Metaxyl	93.3		P	80 - 120
Metolachlor	98.8		P	80 - 120
Metribuzin	92.1		P	80 - 120
Mevinphos	86.1		P	80 - 120
Molinate	87.4		P	80 - 120
Myclobutanil	94.7		P	80 - 120
Naled	107		P	80 - 120
Napropamide	114		P	80 - 120
Norflurazon	117		P	80 - 120
Oxadiazon	105		P	80 - 120
Oxyfluorfen	112		P	80 - 120
Parathion Ethyl	97.7		P	80 - 120
Parathion Methyl	96.3		P	80 - 120
Pendimethalin	104		P	80 - 120
Phenytion	95.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122457
Included Lab Sample IDs: 2444709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Phorate	97.7		P	80 - 120
Prodiamine	101		P	80 - 120
Prometon	99.4		P	80 - 120
Prometryn	98.6		P	80 - 120
Pronamide	108		P	80 - 120
Propanil	95.4		P	80 - 120
Propargite	103		P	80 - 120
Propiconazole	101		P	80 - 120
Pyraflufen Ethyl	104		P	80 - 120
Pyridaben	104		P	80 - 120
Pyriproxyfen	108		P	80 - 120
Simazine	90.1		P	80 - 120
Stirophos	92.9		P	80 - 120
Sulfentrazone	94.7		P	80 - 120
Tebuconazole	109		P	80 - 120
Terbufos	85.1		P	80 - 120
Terbuthylazine	93.4		P	80 - 120
Thiobencarb	109		P	80 - 120
Triadimefon	113		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
EPA 200.7 Rev. 4.4	Calcium	115		114	112	102		1.05
	Iron	113		112	111	109		1.01
	Magnesium	113		112	110	103		1.07
	Potassium	104		104	103	101		0.340
	Sodium	108		107	105	102		1.29
	Strontium	102		103	101	98.9		1.89
	Tin	98.0	98.0	97.7	96.8	93.6		0.922
	Titanium	101	101	102	102	99.5		0.459
	Vanadium	100	100	100	99.7	97.8		0.778
	Zinc	98.7		98.8	97.6	94.2		1.19
EPA 200.8 Rev. 5.4	Aluminum	98.3		98.8	98.0	97.1		0.840
	Antimony	99.0		97.8	98.7	98.4		0.925
	Arsenic	99.7		97.8	98.7	96.3		0.932
	Barium	104		104	105	102		0.525
	Beryllium	98.2		95.9	97.4	98.7		1.41
	Boron	94.7		100	97.3	100		2.47
	Cadmium	99.9		102	99.4	99.8		2.21
	Chromium	94.0		94.5	94.8	93.2		0.369
	Cobalt	99.7		99.6	99.2	95.9		0.400
	Copper	101		100	101	94.3		0.575
	Lead	99.8		100	100	98.3		0.163
	Manganese	99.4		100	101	102		0.904
	Molybdenum	97.9		97.1	97.7	98.0		0.628
	Nickel	96.3		95.8	96.2	90.8		0.430
	Selenium	103		99.5	99.9	97.6		0.430
	Silver	112		111	111	109		0.107
	Thallium	101		101	102	102		0.791
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	78.0		77.4	97.3			22.8
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	47.9		89.4	114			24.3
	Acetochlor	80.3		97.1	98.2			1.09
	Alachlor	67.8		76.0	81.8			7.38
	Aldrin	86.2		72.2	66.7			8.01
	Alpha-BHC	94.6		85.6	88.6			3.54
	Alpha-Chlordane	96.3		63.4	68.5			7.77
	Ametryn	154		123	146			16.7
	Atrazine	88.1						2.86
	Atrazine Desethyl	82.4		77.8	102			24.0
	Avobenzone	108		98.9	143			36.3
	Azinphos Methyl	61.6		57.7	90.7			44.5
	Azoxystrobin	77.8		98.2	106			7.43
	Beta-BHC	95.7		86.8	96.6			10.6
	Beta-Cyfluthrin	100		126	164			25.8
	Bifenthrin	96.8		109	108			1.14
	Bromacil	102		104	112			7.05
	Butylate	71.4		77.4	67.0			14.4
	Caffeine	137		87.2	96.2			9.89
	Carbophenothion	91.2		96.8	99.0			2.22
	Carfentrazone Ethyl	101		99.7	95.1			4.74
	Chlorfenapyr	81.1		63.6	64.4			1.20
	Chlorothalonil	71.5		113	133			16.1
	Chlorpyrifos Ethyl	94.7		120	108			10.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	118	123	128		3.48
	Cis-Nonachlor	97.2	64.1	63.4		1.14
	Coumaphos	104	63.0	127		67.2
	Cyanazine	213	128	113		11.9
	Cypermethrin	93.0	119	131		9.85
	Cyprodinil	133	112	115		3.03
	Dacthal	94.2	79.5	69.8		13.0
	DDD-p,p'	89.7	75.6	66.5		12.9
	DDE-p,p'	98.5	73.9	65.4		12.2
	DDT-p,p'	99.9	130	116		11.5
	Dechlorane 602	51.5	53.6	73.0		30.7
	Dechlorane 603	107	94.1	105		10.9
	Dechlorane Plus	97.3	81.2	80.7		0.619
	Delta-BHC	80.6	101	114		12.1
	Deltamethrin	92.3	182	197		7.75
	Demeton	96.9	80.1	78.1		2.54
	Diazinon	129	137	115		17.4
	Dichlobenil	85.7	46.2	58.5		23.6
	Dicofol	96.6	92.3	85.1		8.11
	Dieldrin	97.9	83.7	79.9		4.72
	Difenoconazole	39.1	43.6	90.5		69.9
	Dimethenamid	64.0	77.7	85.0		8.98
	Dimethomorph	167	138	255		59.4
	Disulfoton	90.2	115	113		1.11
	Dithiopyr	78.3	60.6	57.2		5.88
	Endosulfan I	90.1	87.8	89.6		2.06
	Endosulfan II	82.8	66.1	67.4		1.90
	Endosulfan Sulfate	83.7	46.2	59.0		24.4
	Endrin	103	73.5	58.3		23.0
	Endrin Aldehyde	87.9	37.1	41.3		10.8
	Endrin Ketone	104	76.9	82.0		6.45
	EPTC	68.5	70.2	61.3		13.5
	Esfenvalerate	99.7	145	165		12.5
	Ethalfuralin	92.6	83.8	80.3		4.23
	Ethion	46.8	52.9	76.9		37.0
	Ethoprop	102	99.5	98.4		1.07
	Etridiazole	66.4	65.2	36.4		56.7
	Fenamiphos	92.1	115	129		11.1
	Fenbuconazole	44.4	36.4	78.9		73.6
	Fenpropathrin	98.4	109	98.6		10.0
	Fipronil	119	87.8	101		14.4
	Fipronil Desulfinyl	74.5	95.3	110		13.9
	Fipronil Sulfide	85.2	90.0	105		15.1
	Fipronil Sulfone	95.8	78.0	73.3		6.13
	Fluazifop-P-butyl	140	136	112		19.6
	Fludioxonil	82.1	80.6	74.5		7.88
	Flumioxazin	42.9	71.8	117		47.5
	Flutolanil	104	69.3	75.5		8.53
	Fluxapyroxad	29.8	46.4	46.3		0.155
	Fonofos	101	103	94.1		9.17
	Gamma-BHC	108	113	107		5.88
	Gamma-Chlordane	101	84.3	93.6		10.5
	Heptachlor	85.5	102	84.1		19.6
	Heptachlor Epoxide	97.6	95.4	86.6		9.70

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Hexabromobenzene	81.7	102	114		11.1
	Hexachlorobenzene	84.1	63.4	72.5		13.4
	Hexazinone	92.7				0.365
	Imazalil	81.2	43.5	67.2		42.9
	Iprodione	118	83.2	92.8		11.0
	Kepone	28.8	22.0	26.0		16.9
	Lambda-Cyhalothrin	97.4	130	133		2.58
	Loratadine	134	208	169		20.5
	Malathion	111	93.6	91.1		2.78
	Metalaxyl	74.9	76.5	90.4		12.8
	Methoprene	97.9	85.6	73.6		15.2
	Methoxychlor	92.9	97.6	101		3.76
	Metolachlor	113	88.4	92.2		4.20
	Metribuzin	42.2	73.2	62.1		16.4
	Mevinphos	94.9	89.4	104		15.4
	MGK-264	103	84.9	80.5		5.33
	Mirex	89.1	75.7	80.7		6.29
	Molinate	79.7	67.0	61.7		8.23
	Myclobutanil	81.3	78.3	92.3		16.4
	Naled	33.4	59.2	81.9		32.1
	Napropamide	74.3	66.5	84.4		23.8
	Norflurazon	52.3	69.8	84.9		19.6
	Octinoxate	123	107	116		7.88
	Oxadiazon	71.5	75.2	87.5		15.2
	Oxybenzone	115	110	124		11.7
	Oxychlorthane	95.2	84.5	89.4		5.67
	Oxyfluorfen	113	111	118		6.21
	Parathion Ethyl	110	97.5	100		2.70
	Parathion Methyl	96.7	142	149		4.88
	PBB-153	61.4	98.3	132		29.0
	PBDE-47	73.7	82.0	101		20.7
	PBDE-99	54.3	70.9	96.7		30.8
	PCB-1016	109	84.6	79.7		6.00
	PCB-1260	130	87.0	84.8		2.53
	Pendimethalin	112	117	119		1.39
	Pentabromotoluene	93.6	92.6	102		9.50
	Permethrin	92.1	116	113		3.25
	Phenothrin	94.9	116	119		2.78
	Phenytol	32.9	50.5	57.0		12.1
	Phorate	96.8	112	91.9		19.6
	Piperonyl Butoxide	108	120	120		0.129
	Prallethrin	96.6	68.7	57.5		17.8
	Prodimamine	34.9	60.6	63.2		4.17
	Prometon	113	118	130		9.87
	Prometryn	126	108	107		0.802
	Pronamide	108	112	125		11.4
	Propanil	103	100	110		9.37
	Propargite	48.9	56.0	67.9		19.2
	Propiconazole	64.1	66.7	74.6		11.1
	Pyraflufen Ethyl	70.1	79.3	87.9		10.3
	Pyridaben	84.6	33.4	79.3		35.9
	Pyriproxyfen	50.1	63.5	90.8		35.4
	Simazine	84.3				7.23
	Stirophos	28.4	23.6	21.3		10.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Sulfentrazone	23.2	46.3	56.6		20.0
	Tau-Fluvalinate	92.9	139	154		9.66
	Tebuconazole	43.8	41.2	61.6		39.6
	Terbufos	113	106	100		5.98
	Terbutylazine	94.5	83.2	98.8		17.1
	Tetradecachloro-m-terphenyl	149	146	137		6.75
	Tetramethrin	99.0	119	127		6.64
	Thiobencarb	82.0	87.9	90.9		3.43
	Trans-Nonachlor	102	78.9	68.9		13.5
	Tri-o-cresyl Phosphate	107	100	118		15.9
	Triadimefon	83.3	57.1	75.3		18.2
	Triclosan Methyl	92.2	69.6	71.9		3.25
	Trifluralin	95.4	80.2	77.9		2.97
	Tris(1-chloro-2-propyl) phosphate (TCPP)	127	111	121		8.59
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.7	92.9	96.3		3.59
	Tris(2-chloroethyl) phosphate (TCEP)	104	106	113		5.91
EPA 8276	Chlordane	101	86.3	71.9		18.2
	Toxaphene	106	103	81.9		22.4
EPA 8321B	2,4-D	62.9	91.3	99.7		8.17
	2,4,5-T	68.5	93.9	104		10.2
	3-Hydroxycarbofuran	94.5	37.7	44.2		15.9
	Acesulfame K	101	131	135		2.92
	Acetaminophen	81.1	75.7	80.7		6.31
	Acetamiprid	81.1	50.9	52.1		2.26
	Afidopyropen	69.5	70.5	70.9		0.474
	Aldicarb	70.1	30.5	32.7		6.79
	Aldicarb Sulfone	103	45.9	49.7		8.13
	Aldicarb Sulfoxide	111	16.6	17.3		4.13
	AMPA	85.5	86.2	96.9		10.3
	Bentazon	94.8	86.7	85.1		1.90
	Benzovindiflupyr	93.1	80.1	86.6		7.81
	Carbamazepine	71.3	43.1	45.1		4.61
	Carbaryl	72.4	37.6	40.8		8.03
	Carbofuran	79.6	31.4	34.3		8.65
	Clothianidin	81.9	54.9	58.6		6.45
	Dinotefuran	92.7	57.3	59.9		4.50
	Diuron	69.1	42.3	42.5		0.355
	Endothall	97.0	119	122		2.11
	Fenuron	87.5	33.2	35.6		6.92
	Fluridone	74.2	51.7	54.2		3.98
	Glufosinate	91.6	92.1	86.6		6.16
	Glyphosate	86.8	103	102		0.344
	Hydrocodone	84.3	54.7	58.0		5.79
	Ibuprofen	65.7	51.8	50.1		3.24
	Imazapyr	73.9	82.3	73.0		8.50
	Imidacloprid	79.2	76.8	79.7		3.61
	Linuron	58.0	54.2	49.7		8.77
	Mandestrobin	80.1	66.5	73.4		9.89
	MCPP	77.9	107	114		6.19
	Methiocarb	62.8	44.4	49.7		11.1
	Methomyl	88.1	32.9	37.3		12.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
EPA 8321B	Naproxen	62.6	171	149		13.4
	Oxamyl	97.2	43.3	47.9		9.95
	Primidone	76.1	57.9	51.1		12.4
	Propoxur	79.0	30.9	33.5		8.16
	Pyraclostrobin	70.4	79.4	79.7		0.377
	Silvex	68.5	93.3	107		13.8
	Sucralose	105	98.2	110		6.82
	Thiamethoxam	77.1	63.8	66.6		4.34
	Tolfenpyrad	54.5	58.7	61.9		5.24
	Triclopyr	69.6	97.9	106		7.65

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2444710
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2444710
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2444709
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2444708
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2444709
EPA 8270E	PCBs in water matrices by GC/MS/MS	2444708
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2444708
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2444706
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2444707
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2444710

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	10/12/2023	10/13/2023 12:55	George D Taylor	10/18/2023 18:32	Chase Roberts	2444710
EPA 200.8 Rev. 5.4	10/12/2023	10/13/2023 12:55	George D Taylor	10/17/2023 16:28	Conrad Hartmann	2444710
EPA 8270E	10/12/2023	10/16/2023 08:00	Fe-Val Siddell	10/20/2023 20:36	Arthur Maknenko	2444709
	10/12/2023	10/16/2023 08:00	Fe-Val Siddell	10/23/2023 19:34	Vandana T. Nagar	2444709
	10/12/2023	10/16/2023 08:30	Rasheda Ghaffari	10/21/2023 05:13	Lipi Saha	2444708
	10/12/2023	10/16/2023 08:30	Rasheda Ghaffari	10/23/2023 04:16	Julie Wi	2444708
	10/12/2023	10/16/2023 08:30	Rasheda Ghaffari	10/23/2023 16:49	Arthur Maknenko	2444708
EPA 8276	10/12/2023	10/16/2023 08:30	Rasheda Ghaffari	10/23/2023 16:49	Arthur Maknenko	2444708
EPA 8321B	10/12/2023	10/13/2023 09:00	Hoor Shaik	10/14/2023 08:54	Juyoung Kim	2444707
	10/12/2023	10/13/2023 09:00	Hoor Shaik	10/14/2023 11:53	Juyoung Kim	2444706
	10/12/2023	10/16/2023 12:00	Hana Lee	10/16/2023 18:44	Hana Lee	2444707
	10/12/2023	10/16/2023 12:00	Hana Lee	10/17/2023 03:37	Hana Lee	2444707
	10/12/2023	10/16/2023 12:00	Hana Lee	10/17/2023 03:37	Hana Lee	2444707
SM 2340 B-2011	10/12/2023			10/18/2023 18:32	Chase Roberts	2444710