

Chemical Analysis Report

CEN-DIST-2023-08-25-01

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

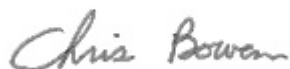
Event Description: **Run 20**
Request ID: **RQ-2023-08-21-29**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 21-SEP-2023 09:31



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: ELDER SPRINGS RUN AT US OF MYRTLE ST Collection Date/Time: 08/24/2023 11:27

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433691	EPA 8321B	Aldicarb	0.020	U	ug/L	P434372	
		Aldicarb Sulfone	0.0020	U	ug/L	P434372	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P434372	MS
		Carbaryl	0.0020	U	ug/L	P434372	
		Carbofuran	0.0020	U	ug/L	P434372	
		3-Hydroxycarbofuran	0.0020	UJ	ug/L	P434372	MS, RPD
		Methiocarb	0.0020	U	ug/L	P434372	
		Methomyl	0.0020	U	ug/L	P434372	
		Oxamyl	0.0020	U	ug/L	P434372	
		Propoxur	0.0020	U	ug/L	P434372	
2433692		Acesulfame K	0.19	I	ug/L	P434344	
		2,4-D	0.0056	I	ug/L	P434430	
		AMPA	0.29	I	ug/L	P434344	
		2,4,5-T	0.0040	U	ug/L	P434430	
		Acetaminophen	0.0080	U	ug/L	P434430	
		Endothall	0.25	U	ug/L	P434344	
		Acetamiprid	0.0020	U	ug/L	P434430	MS, RPD
		Glufosinate	0.10	U	ug/L	P434344	
		Glyphosate	0.10	U	ug/L	P434344	
		Afidopyropen	0.0020	U	ug/L	P434430	
		Sucralose	0.34		ug/L	P434344	
		Bentazon	0.041		ug/L	P434430	
		Benzovindiflupyr	0.0020	U	ug/L	P434430	
		Carbamazepine	0.0012	I	ug/L	P434430	
		Clothianidin	0.0020	U	ug/L	P434430	
		Dinotefuran	0.0020	U	ug/L	P434430	
		Diuron	0.0024	I	ug/L	P434430	
		Fenuron	0.032	U	ug/L	P434430	
		Fluridone	0.0032	I	ug/L	P434430	
		Imazapyr	0.036		ug/L	P434430	
		Hydrocodone	0.0020	U	ug/L	P434430	
		Ibuprofen	0.080	U	ug/L	P434430	
		Imidacloprid	0.0048	I	ug/L	P434430	
		Linuron	0.0040	U	ug/L	P434430	
		Mandestrobin	0.0020	U	ug/L	P434430	
		MCPP	0.0020	U	ug/L	P434430	
		Naproxen	0.0080	U	ug/L	P434430	
		Primidone	0.0040	I	ug/L	P434430	
		Pyraclostrobin	0.0020	U	ug/L	P434430	
		Silvex	0.0040	U	ug/L	P434430	
		Thiamethoxam	0.0020	U	ug/L	P434430	
		Tolfenpyrad	0.0020	U	ug/L	P434430	
		Triclopyr	0.0040	U	ug/L	P434430	
2433701	EPA 8270E	Aldrin	0.66	U	ng/L	P434403	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433701	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P434403	
		Alpha-Chlordane	0.20	U	ng/L	P434403	
		PCB-1016	2.0	U	ng/L	P434403	
		Beta-BHC	0.10	U	ng/L	P434403	
		PCB-1221	2.0	U	ng/L	P434403	
		Beta-Cyfluthrin	1.3	U	ng/L	P434403	
		PCB-1232	2.0	U	ng/L	P434403	
		Bifenthrin	0.51	U	ng/L	P434403	
		PCB-1242	2.0	U	ng/L	P434403	
		PCB-1248	2.0	U	ng/L	P434403	
		Chlorothalonil	3.6	U	ng/L	P434403	
		PCB-1254	2.0	U	ng/L	P434403	
		Cis-Nonachlor	0.20	U	ng/L	P434403	
		PCB-1260	2.0	U	ng/L	P434403	
		Cypermethrin	1.5	U	ng/L	P434403	
		Dacthal	0.15	U	ng/L	P434403	
		DDD-p,p'	0.25	U	ng/L	P434403	
		DDE-p,p'	0.20	U	ng/L	P434403	
		DDT-p,p'	0.81	U	ng/L	P434403	
		Delta-BHC	0.40	U	ng/L	P434403	
		Deltamethrin	1.3	U	ng/L	P434403	
		Dichlobenil	0.25	U	ng/L	P434403	
		Dicofol	1.3	U	ng/L	P434403	
		Dieldrin	0.40	U	ng/L	P434403	
		Endosulfan I	0.40	U	ng/L	P434403	
		Endosulfan II	0.91	U	ng/L	P434403	
		Endosulfan Sulfate	0.30	U	ng/L	P434403	
		Endrin	0.91	U	ng/L	P434403	
		Endrin Aldehyde	0.76	UJ	ng/L	P434403	LCS
		Endrin Ketone	0.40	U	ng/L	P434403	
		Esfenvalerate	0.76	U	ng/L	P434403	
		Ethalfuralin	0.15	U	ng/L	P434403	
		Fenpropathrin	0.25	U	ng/L	P434403	
		Gamma-BHC	0.13	UJ	ng/L	P434403	CCV
		Gamma-Chlordane	0.20	U	ng/L	P434403	
		Heptachlor	0.20	U	ng/L	P434403	
		Heptachlor Epoxide	0.25	U	ng/L	P434403	
		Hexachlorobenzene**	1.0	U	ng/L	P434403	
		Kepone	14	UJ	ng/L	P434403	CCV
		Lambda-Cyhalothrin	0.76	U	ng/L	P434403	
		Methoprene	0.76	U	ng/L	P434403	
		Methoxychlor	0.30	U	ng/L	P434403	
		MGK-264	0.20	U	ng/L	P434403	
		Mirex	0.35	U	ng/L	P434403	
		Oxychlordane	0.30	U	ng/L	P434403	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433701	EPA 8270E	Permethrin	1.6	U	ng/L	P434403	
		Phenothrin	0.91	U	ng/L	P434403	
		Piperonyl Butoxide	0.15	U	ng/L	P434403	
		Prallethrin	2.0	U	ng/L	P434403	
		Tau-Fluvalinate	0.25	U	ng/L	P434403	
		Tetramethrin	0.76	U	ng/L	P434403	
		Trans-Nonachlor	0.20	U	ng/L	P434403	
		Triclosan Methyl	0.15	U	ng/L	P434403	
		Trifluralin	0.20	U	ng/L	P434403	RPD
		Chlordane	2.0	U	ng/L	P434403	
	EPA 8276	Toxaphene	15	U	ng/L	P434403	
		Oxybenzone**	10	U	ng/L	P434276	
		Acetochlor	0.20	U	ng/L	P434276	
		Octinoxate**	150	U	ng/L	P434276	
		Alachlor	0.41	U	ng/L	P434276	
		Avobenzone**	100	U	ng/L	P434276	
		Ametryn	1.1	U	ng/L	P434276	
		Atrazine	2.5		ng/L	P434276	
		PBDE-47**	4.1	U	ng/L	P434276	RPD
		Atrazine Desethyl	1.3	U	ng/L	P434276	
	EPA 8270E	PBDE-99**	5.1	U	ng/L	P434276	RPD
		Azinphos Methyl	3.1	U	ng/L	P434276	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P434276	
		Azoxystrobin	0.41	U	ng/L	P434276	
		Bromacil	0.61	U	ng/L	P434276	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P434276	
		Butylate	0.20	U	ng/L	P434276	
		Dechlorane Plus**	31	U	ng/L	P434276	MS
		Caffeine**	23	I	ng/L	P434276	
		Dechlorane 602**	5.1	U	ng/L	P434276	MS, RPD
		Carbophenothion	0.51	U	ng/L	P434276	MS
		Dechlorane 603**	4.1	U	ng/L	P434276	MS, RPD
		Carfentrazone Ethyl	0.15	U	ng/L	P434276	
		Hexabromobenzene**	6.1	U	ng/L	P434276	
		Chlorfenapyr	0.31	U	ng/L	P434276	
		PBB-153**	8.1	U	ng/L	P434276	MS, RPD
		Chlorpyrifos Ethyl	0.31	U	ng/L	P434276	
		Pentabromotoluene**	3.1	U	ng/L	P434276	
		Chlorpyrifos Methyl	0.10	U	ng/L	P434276	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P434276	
		Coumaphos	1.1	U	ng/L	P434276	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	71		ng/L	P434276	
		Cyanazine	5.1	U	ng/L	P434276	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	6.2	I	ng/L	P434276	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433702	EPA 8270E	Cyprodinil	0.20	U	ng/L	P434276	
		Tetradecachloro-m-terphenyl**	7.6	U	ng/L	P434276	MS, RPD
		Demeton	3.6	U	ng/L	P434276	
		Diazinon	0.13	U	ng/L	P434276	
		Difenoconazole	0.61	U	ng/L	P434276	MS, RPD
		Dimethenamid	0.10	U	ng/L	P434276	MS, RPD
		Dimethomorph	0.31	UJ	ng/L	P434276	LCS, RPD
		Disulfoton	0.61	U	ng/L	P434276	
		Dithiopyr	1.0	U	ng/L	P434276	RPD
		EPTC	0.51	U	ng/L	P434276	
		Ethion	0.31	U	ng/L	P434276	MS, RPD
		Ethoprop	0.13	U	ng/L	P434276	
		Etridiazole	0.10	U	ng/L	P434276	
		Fenamiphos	0.46	U	ng/L	P434276	
		Fenbuconazole	0.51	U	ng/L	P434276	MS, RPD
		Fipronil	0.34	I	ng/L	P434276	RPD
		Fipronil DesulfinyI**	0.39	I	ng/L	P434276	
		Fipronil Sulfide	0.58		ng/L	P434276	
		Fipronil Sulfone	1.1		ng/L	P434276	
		Fluazifop-P-butyl	0.10	U	ng/L	P434276	MS
		Fludioxonil	0.10	U	ng/L	P434276	
		Flumioxazin	3.1	U	ng/L	P434276	RPD
		Flutolanil	0.10	U	ng/L	P434276	
		Fluxapyroxad	0.25	U	ng/L	P434276	MS, RPD
		Fonofos	0.15	U	ng/L	P434276	
		Hexazinone	0.51	U	ng/L	P434276	
		Imazalil	0.66	U	ng/L	P434276	
		Iprodione	0.58	I	ng/L	P434276	
		Loratadine**	0.31	U	ng/L	P434276	RPD
		Malathion	0.36	U	ng/L	P434276	
		Metalaxyl	0.51	U	ng/L	P434276	
		Metolachlor	0.76	U	ng/L	P434276	
		Metribuzin	0.41	U	ng/L	P434276	
		Mevinphos	1.0	U	ng/L	P434276	RPD
		Molinate	0.25	U	ng/L	P434276	
		Myclobutanil	0.36	U	ng/L	P434276	MS, RPD
		Naled	2.5	U	ng/L	P434276	
		Napropamide	0.71	U	ng/L	P434276	MS, RPD
		Norflurazon	1.0	U	ng/L	P434276	MS, RPD
		Oxadiazon	0.49	I	ng/L	P434276	RPD
		Oxyfluorfen	0.20	U	ng/L	P434276	
		Parathion Ethyl	0.15	U	ng/L	P434276	
		Parathion Methyl	0.20	UJ	ng/L	P434276	LCS
		Pendimethalin	0.76	U	ng/L	P434276	
		Phenytain**	5.4	U	ng/L	P434276	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433702	EPA 8270E	Phorate	0.25	UJ	ng/L	P434276	LCS
		Prodiamine	0.20	U	ng/L	P434276	
		Prometon	3.1	U	ng/L	P434276	
		Prometryn	0.36	U	ng/L	P434276	MS
		Pronamide	0.10	U	ng/L	P434276	
		Propanil	0.10	U	ng/L	P434276	
		Propargite	0.81	U	ng/L	P434276	
		Propiconazole	0.61	UJ	ng/L	P434276	LCS
		Pyraflufen Ethyl	0.31	U	ng/L	P434276	RPD
		Pyridaben	1.4	U	ng/L	P434276	RPD
		Pyriproxyfen	0.25	U	ng/L	P434276	MS, RPD
		Simazine	0.25	U	ng/L	P434276	
		Stirophos	0.41	U	ng/L	P434276	RPD
		Sulfentrazone	9.0	J	ng/L	P434276	CCV, MS, RPD
		Tebuconazole	1.4	U	ng/L	P434276	MS, RPD
		Terbufos	0.20	U	ng/L	P434276	
		Terbuthylazine	0.20	U	ng/L	P434276	MS
		Thiobencarb	0.51	U	ng/L	P434276	RPD
		Triadimefon	0.15	U	ng/L	P434276	MS, RPD
2433705	EPA 200.7 Rev. 4.4	Calcium	34.5		mg/L	P434428	
		Iron	460		ug/L	P434428	
		Magnesium	5.90		mg/L	P434428	
		Potassium	2.0		mg/L	P434428	
		Sodium	40.8		mg/L	P434428	
		Strontium	175		ug/L	P434428	
		Tin	3.9	I	ug/L	P434428	
		Titanium	1.8	I	ug/L	P434428	
		Vanadium	2.0	U	ug/L	P434428	
		Zinc	5.0	U	ug/L	P434428	
	EPA 200.8 Rev. 5.4	Aluminum	99		ug/L	P434428	
		Antimony	0.13	I	ug/L	P434428	
		Arsenic	0.77		ug/L	P434428	
		Barium	21.0		ug/L	P434428	
		Beryllium	0.010	U	ug/L	P434428	
		Boron	42.8		ug/L	P434428	
		Cadmium	0.020	U	ug/L	P434428	
		Chromium	0.58	I	ug/L	P434428	
		Cobalt	0.072	I	ug/L	P434428	
		Copper	0.47	I	ug/L	P434428	
		Lead	0.22	I	ug/L	P434428	
		Manganese	8.47		ug/L	P434428	
		Molybdenum	0.41	I	ug/L	P434428	
		Nickel	0.50	U	ug/L	P434428	
		Selenium	0.20	U	ug/L	P434428	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433705	EPA 200.8 Rev. 5.4	Silver	0.010	U	ug/L	P434428	
		Thallium	0.10	U	ug/L	P434428	
	SM 2340 B-2011	Hardness	111		mg/L	P434428	

Ref. Method and Comment:
EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8321B: MS accuracy for sucralose 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.

Sample Location: CHUB CREEK AT CAMERON AVE

Collection Date/Time: 08/24/2023 10:31

Field ID: G2CE0270

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433706	EPA 200.7 Rev. 4.4	Calcium	90.1		mg/L	P434428	
		Iron	530		ug/L	P434428	
		Magnesium	28.6		mg/L	P434428	
		Potassium	8.4		mg/L	P434428	
		Sodium	244		mg/L	P434428	
		Strontium	877		ug/L	P434428	
		Tin	3.0	U	ug/L	P434428	
		Titanium	0.75	U	ug/L	P434428	
		Vanadium	2.0	U	ug/L	P434428	
		Zinc	5.0	U	ug/L	P434428	
	EPA 200.8 Rev. 5.4	Aluminum	21		ug/L	P434428	
		Antimony	0.10	I	ug/L	P434428	
		Arsenic	4.85		ug/L	P434428	
		Barium	68.9		ug/L	P434428	
		Beryllium	0.010	U	ug/L	P434428	
		Boron	106		ug/L	P434428	
		Cadmium	0.020	U	ug/L	P434428	
		Chromium	0.78	I	ug/L	P434428	
		Cobalt	0.446		ug/L	P434428	
		Copper	0.47	I	ug/L	P434428	
		Lead	0.20	U	ug/L	P434428	
		Manganese	127		ug/L	P434428	
		Molybdenum	0.29	I	ug/L	P434428	
		Nickel	0.66	I	ug/L	P434428	
		Selenium	0.20	U	ug/L	P434428	
		Silver	0.010	U	ug/L	P434428	
		Thallium	0.10	U	ug/L	P434428	
	SM 2340 B-2011	Hardness	343		mg/L	P434428	

Sample Location: SMITH CANAL 40M S OF ST JOHNS PKWY

Collection Date/Time: 08/24/2023 09:38

Field ID: G2CE0241

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433689	EPA 8321B	2,4-D	0.011		ug/L	P434430	
		Acesulfame K	0.29	I	ug/L	P434207	
		2,4,5-T	0.0040	U	ug/L	P434430	
		AMPA	0.38	I	ug/L	P434207	
		Acetaminophen	0.0080	U	ug/L	P434430	
		Endothall	0.25	U	ug/L	P434207	
		Acetamiprid	0.0020	U	ug/L	P434430	MS, RPD
		Glufosinate	0.10	U	ug/L	P434207	
		Glyphosate	0.93		ug/L	P434207	
		Afidopyropen	0.0020	U	ug/L	P434430	
		Bentazon	0.55		ug/L	P434430	
		Sucralose	3.0		ug/L	P434207	
		Benzovindiflupyr	0.0020	U	ug/L	P434430	
		Carbamazepine	0.0011	I	ug/L	P434430	
		Clothianidin	0.0077	I	ug/L	P434430	
		Dinotefuran	0.0020	U	ug/L	P434430	
		Diuron	0.0020	U	ug/L	P434430	
		Fenuron	0.032	U	ug/L	P434430	
		Fluridone	0.0085		ug/L	P434430	
		Imazapyr	0.11		ug/L	P434430	
		Hydrocodone	0.0020	U	ug/L	P434430	
		Ibuprofen	0.080	U	ug/L	P434430	
		Imidacloprid	0.0082		ug/L	P434430	
		Linuron	0.0040	U	ug/L	P434430	
		Mandestrobin	0.0020	U	ug/L	P434430	
		MCPP	0.0057	I	ug/L	P434430	
		Naproxen	0.0080	U	ug/L	P434430	
		Primidone	0.0040	U	ug/L	P434430	
		Pyraclostrobin	0.0020	U	ug/L	P434430	
		Silvex	0.0040	U	ug/L	P434430	
		Thiamethoxam	0.0020	U	ug/L	P434430	
		Tolfenpyrad	0.0020	U	ug/L	P434430	
		Triclopyr	0.0040	U	ug/L	P434430	
2433703	EPA 200.7 Rev. 4.4	Calcium	41.1		mg/L	P434428	
		Iron	860		ug/L	P434428	
		Magnesium	4.79		mg/L	P434428	
		Potassium	2.5		mg/L	P434428	
		Sodium	24.6		mg/L	P434428	
		Strontium	180		ug/L	P434428	
		Tin	4.3	I	ug/L	P434428	
		Titanium	2.2	I	ug/L	P434428	
		Vanadium	2.0	U	ug/L	P434428	
		Zinc	5.0	U	ug/L	P434428	
	EPA 200.8 Rev. 5.4	Aluminum	100		ug/L	P434428	

Field ID: G2CE0241

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433703	EPA 200.8 Rev. 5.4	Antimony	0.094	I	ug/L	P434428	
		Arsenic	0.95		ug/L	P434428	
		Barium	21.3		ug/L	P434428	
		Beryllium	0.011	I	ug/L	P434428	
		Boron	55.5		ug/L	P434428	
		Cadmium	0.020	U	ug/L	P434428	
		Chromium	0.60	I	ug/L	P434428	
		Cobalt	0.122		ug/L	P434428	
		Copper	0.56	I	ug/L	P434428	
		Lead	0.20	U	ug/L	P434428	
		Manganese	36.8		ug/L	P434428	
		Molybdenum	0.62		ug/L	P434428	
		Nickel	0.50	U	ug/L	P434428	
		Selenium	0.20	U	ug/L	P434428	
		Silver	0.010	U	ug/L	P434428	
	SM 2340 B-2011	Thallium	0.10	U	ug/L	P434428	
		Hardness	122		mg/L	P434428	

Sample Location: MILLS CREEK AT PARK

Collection Date/Time: 08/24/2023 09:59

Field ID: G2CE0233

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433690	EPA 8321B	Acesulfame K	0.25	I	ug/L	P434344	MS, RPD
		2,4-D	0.11		ug/L	P434430	
		AMPA	0.10	U	ug/L	P434344	
		2,4,5-T	0.0040	U	ug/L	P434430	
		Acetaminophen	0.0080	U	ug/L	P434430	
		Endothall	0.25	U	ug/L	P434344	
		Acetamiprid	0.0020	U	ug/L	P434430	
		Glufosinate	0.10	U	ug/L	P434344	
		Glyphosate	0.46		ug/L	P434344	
		Afidopyropen	0.0020	U	ug/L	P434430	
		Sucralose	29		ug/L	P434344	
		Bentazon	0.15		ug/L	P434430	
		Benzovindiflupyr	0.0020	U	ug/L	P434430	
		Carbamazepine	0.027		ug/L	P434430	
		Clothianidin	0.021		ug/L	P434430	
		Dinotefuran	0.017		ug/L	P434430	
		Diuron	0.013		ug/L	P434430	
		Fenuron	0.032	U	ug/L	P434430	
		Fluridone	0.026		ug/L	P434430	
		Imazapyr	0.24		ug/L	P434430	
		Hydrocodone	0.0020	U	ug/L	P434430	
		Ibuprofen	0.080	U	ug/L	P434430	
		Imidacloprid	0.0099		ug/L	P434430	
		Linuron	0.0040	U	ug/L	P434430	
		Mandestrobin	0.0020	U	ug/L	P434430	
		MCPP	0.0050	I	ug/L	P434430	
		Naproxen	0.0080	U	ug/L	P434430	
		Primidone	0.046		ug/L	P434430	
		Pyraclostrobin	0.0020	U	ug/L	P434430	
		Silvex	0.0040	U	ug/L	P434430	
		Thiamethoxam	0.0020	U	ug/L	P434430	
		Tolfenpyrad	0.0020	U	ug/L	P434430	
		Triclopyr	0.0040	U	ug/L	P434430	
2433704	EPA 200.7 Rev. 4.4	Calcium	54.3		mg/L	P434428	
		Iron	350		ug/L	P434428	
		Magnesium	7.70		mg/L	P434428	
		Potassium	7.8		mg/L	P434428	
		Sodium	60.5		mg/L	P434428	
		Strontium	271		ug/L	P434428	
		Tin	3.0	U	ug/L	P434428	
		Titanium	0.99	I	ug/L	P434428	
		Vanadium	2.5	I	ug/L	P434428	
		Zinc	5.0	U	ug/L	P434428	
	EPA 200.8 Rev. 5.4	Aluminum	106		ug/L	P434428	

Field ID: G2CE0233

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433704	EPA 200.8 Rev. 5.4	Antimony	0.28		ug/L	P434428	
		Arsenic	1.52		ug/L	P434428	
		Barium	17.7		ug/L	P434428	
		Beryllium	0.010	U	ug/L	P434428	
		Boron	164		ug/L	P434428	
		Cadmium	0.020	U	ug/L	P434428	
		Chromium	0.40	U	ug/L	P434428	
		Cobalt	0.097		ug/L	P434428	
		Copper	0.40	U	ug/L	P434428	
		Lead	0.24	I	ug/L	P434428	
		Manganese	30.1		ug/L	P434428	
		Molybdenum	3.58		ug/L	P434428	
		Nickel	0.92	I	ug/L	P434428	
		Selenium	0.20	U	ug/L	P434428	
		Silver	0.010	U	ug/L	P434428	
	SM 2340 B-2011	Thallium	0.10	U	ug/L	P434428	
		Hardness	167		mg/L	P434428	

Ref. Method and Comment:
EPA 8321B: MS accuracy for sucralose could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: PHELPS CREEK 85M N OF LAKE MARY BLVD Collection Date/Time: 08/24/2023 11:02

Field ID: G2CE0247

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2433688	EPA 8321B	2,4-D	0.0050	I	ug/L	P434430	
		Acesulfame K	0.11	I	ug/L	P434207	
		2,4,5-T	0.0040	U	ug/L	P434430	
		AMPA	0.10	U	ug/L	P434207	
		Acetaminophen	0.029	I	ug/L	P434430	
		Endothall	0.25	U	ug/L	P434207	
		Acetamiprid	0.0020	U	ug/L	P434430	MS, RPD
		Glufosinate	0.10	U	ug/L	P434207	
		Glyphosate	0.10	U	ug/L	P434207	
		Afidopyropen	0.0020	U	ug/L	P434430	
		Bentazon	0.035		ug/L	P434430	
		Sucralose	0.16		ug/L	P434207	
		Benzovindiflupyr	0.0020	U	ug/L	P434430	
		Carbamazepine	8.0E-04	U	ug/L	P434430	
		Clothianidin	0.0020	U	ug/L	P434430	
		Dinotefuran	0.0020	U	ug/L	P434430	
		Diuron	0.0020	U	ug/L	P434430	
		Fenuron	0.032	U	ug/L	P434430	
		Fluridone	8.0E-04	U	ug/L	P434430	
		Imazapyr	0.022		ug/L	P434430	
		Hydrocodone	0.0020	U	ug/L	P434430	
		Ibuprofen	0.080	U	ug/L	P434430	
		Imidacloprid	0.0074	I	ug/L	P434430	
		Linuron	0.0040	U	ug/L	P434430	
		Mandestrobin	0.0020	U	ug/L	P434430	
		MCPP	0.0020	U	ug/L	P434430	
		Naproxen	0.0080	U	ug/L	P434430	
		Primidone	0.0040	U	ug/L	P434430	
		Pyraclostrobin	0.0020	U	ug/L	P434430	
		Silvex	0.0040	U	ug/L	P434430	
		Thiamethoxam	0.0020	U	ug/L	P434430	
		Tolfenpyrad	0.0020	U	ug/L	P434430	
		Triclopyr	0.0040	U	ug/L	P434430	

Quality Assurance Report

Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P434428

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: P434428

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: P434276

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434276

Component	Result	Code	Units
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434276

Component	Result	Code	Units
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434276

Component	Result	Code	Units
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	5.3	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiatone	0.20	U	ng/L
Prodiatone	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434276

Component	Result	Code	Units
Stiropfos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E

Batch ID: P434403

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434403

Component	Result	Code	Units
DDT-p,p'	0.80	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434403

Component	Result	Code	Units
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P434403

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

Reference Method: EPA 8321B

Batch ID: P434207

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P434207

Component	Result	Code	Units
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P434344

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P434372

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

Reference Method: EPA 8321B
Batch ID: P434430

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P434430

Component	Result	Code	Units
MCP	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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P434428

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	105		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	101		P	85 - 115
Sodium	101		P	85 - 115
Strontium	99.7		P	85 - 115
Tin	103		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P434428

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	100		P	85 - 115
Barium	105		P	85 - 115
Beryllium	98.1		P	85 - 115
Boron	103		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	96.6		P	85 - 115
Cobalt	97.9		P	85 - 115
Copper	98.0		P	85 - 115
Lead	95.9		P	85 - 115
Manganese	96.7		P	85 - 115
Molybdenum	99.2		P	85 - 115
Nickel	98.4		P	85 - 115
Selenium	101		P	85 - 115
Silver	110		P	85 - 115
Thallium	102		P	85 - 115

Reference Method: EPA 8270E

Batch ID: P434276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	83.4		P	42 - 162
Acetochlor	82.6		P	69 - 123
Alachlor	96.4		P	65 - 118
Ametryn	127		P	58 - 141
Atrazine	101		P	73 - 118
Atrazine Desethyl	74.4		P	32 - 125
Avobenzone	126		P	40 - 203
Azinphos Methyl	117		P	36 - 197
Azoxystrobin	109		P	58 - 226
Bromacil	88.8		P	48 - 120
Butylate	64.0		P	27 - 85.0
Caffeine	90.7		P	40 - 137
Carbophenothion	108		P	54 - 132
Carfentrazone Ethyl	108		P	60 - 142
Chlorfenapyr	91.4		P	53 - 117

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	84.8		P	59 - 116
Chlorpyrifos Methyl	76.9		P	66 - 119
Coumaphos	159		P	11 - 234
Cyanazine	121		P	61 - 248
Cyprodinil	61.7		P	50 - 147
Dechlorane 602	66.0		P	50 - 150
Dechlorane 603	91.1		P	50 - 150
Dechlorane Plus	73.5		P	47 - 182
Demeton	67.4		P	30 - 138
Diazinon	101		P	67 - 126
Difenoconazole	118		P	38 - 205
Dimethenamid	58.9		P	57 - 111
Dimethomorph	219		F	16 - 212
Disulfoton	123		P	46 - 126
Dithiopyr	75.4		P	62 - 115
EPTC	60.3		P	28 - 80.0
Ethion	69.9		P	24 - 122
Ethoprop	105		P	62 - 113
Etridiazole	70.9		P	28 - 92.0
Fenamiphos	93.8		P	57 - 128
Fenbuconazole	114		P	52 - 155
Fipronil	105		P	63 - 130
Fipronil Desulfinyl	70.0		P	61 - 130
Fipronil Sulfide	94.5		P	56 - 117
Fipronil Sulfone	88.3		P	52 - 118
Fluazifop-P-butyl	77.0		P	61 - 128
Fludioxonil	72.8		P	59 - 129
Flumioxazin	128		P	30 - 250
Flutolanil	89.7		P	53 - 127
Fluxapyroxad	82.2		P	42 - 132
Fonofos	84.3		P	61 - 110
Hexabromobenzene	103		P	50 - 150
Hexazinone	93.4		P	46 - 139
Imazalil	97.4		P	40 - 139
Iprodione	80.1		P	40 - 146
Loratadine	215		P	10 - 224
Malathion	108		P	61 - 135
Metalaxyl	89.7		P	58 - 121
Metolachlor	100		P	64 - 118
Metribuzin	94.4		P	45 - 245
Mevinphos	111		P	49 - 118
Molinate	59.4		P	42 - 92.0
Myclobutanil	99.7		P	55 - 127
Naled	47.9		P	10 - 114
Napropamide	78.7		P	39 - 121
Norflurazon	86.9		P	55 - 129
Octinoxate	108		P	26 - 166
Oxadiazon	84.7		P	54 - 115
Oxybenzone	124		P	49 - 135
Oxyfluorfen	121		P	64 - 139
Parathion Ethyl	96.4		P	70 - 111
Parathion Methyl	72.0		F	76 - 136

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBB-153	141		P	50 - 150
PBDE-47	93.7		P	41 - 148
PBDE-99	81.6		P	38 - 147
Pendimethalin	66.2		P	52 - 118
Pentabromotoluene	99.8		P	50 - 150
Phenytoin	43.4		P	10 - 162
Phorate	153		F	40 - 122
Prodiamine	35.1		P	26 - 141
Prometon	103		P	54 - 122
Prometryn	75.9		P	61 - 128
Pronamide	110		P	72 - 121
Propanil	129		P	45 - 144
Propargite	67.4		P	10 - 199
Propiconazole	48.9		F	56 - 127
Pyraflufen Ethyl	83.0		P	56 - 140
Pyridaben	144		P	26 - 211
Pyriproxyfen	94.1		P	33 - 194
Simazine	107		P	67 - 121
Stirophos	26.4		P	20 - 142
Sulfentrazone	41.7		P	21 - 144
Tebuconazole	46.4		P	10 - 122
Terbufos	123		P	60 - 129
Terbuthylazine	86.4		P	69 - 113
Tetradecachloro-m-terphenyl	98.4		P	70 - 200
Thiobencarb	90.8		P	51 - 120
Tri-o-cresyl Phosphate	101		P	49 - 150
Triadimefon	95.2		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	132		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	101		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	116		P	70 - 180

Reference Method: EPA 8270E

Batch ID: P434403

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	42.0		P	30 - 96.0
Alpha-BHC	78.9		P	70 - 109
Alpha-Chlordane	63.3		P	45 - 107
Beta-BHC	67.7		P	64 - 138
Beta-Cyfluthrin	61.5		P	17 - 141
Bifenthrin	52.6		P	10 - 113
Chlorothalonil	59.1		P	26 - 180
Cis-Nonachlor	61.2		P	37 - 102
Cypermethrin	81.8		P	20 - 133
Dacthal	77.4		P	69 - 114
DDD-p,p'	61.4		P	42 - 105
DDE-p,p'	58.9		P	42 - 106
DDT-p,p'	50.5		P	42 - 107
Delta-BHC	78.4		P	67 - 144
Deltamethrin	81.1		P	15 - 149
Dichlobenil	55.7		P	46 - 117
Dicofol	52.5		P	34 - 114

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P434403

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dieldrin	60.2		P	50 - 108
Endosulfan I	62.1		P	55 - 104
Endosulfan II	65.3		P	51 - 111
Endosulfan Sulfate	76.3		P	56 - 121
Endrin	65.1		P	10 - 106
Endrin Aldehyde	7.56		F	34 - 114
Endrin Ketone	104		P	63 - 177
Esfenvalerate	72.2		P	29 - 143
Ethalfuralin	57.2		P	46 - 96.0
Fenpropathrin	69.7		P	28 - 115
Gamma-BHC	114		P	65 - 121
Gamma-Chlordane	64.1		P	39 - 103
Heptachlor	65.1		P	39 - 94.0
Heptachlor Epoxide	62.2		P	54 - 104
Hexachlorobenzene	39.4		P	36 - 100
Kepone	67.2		P	10 - 225
Lambda-Cyhalothrin	63.0		P	10 - 135
Methoprene	52.6		P	10 - 109
Methoxychlor	62.7		P	52 - 112
MGK-264	81.5		P	44 - 117
Mirex	52.0		P	20 - 90.0
Oxychlordane	60.8		P	44 - 102
PCB-1016	56.4		P	45 - 107
PCB-1260	64.9		P	40 - 118
Permethrin	65.5		P	18 - 135
Phenothrin	50.9		P	10 - 102
Piperonyl Butoxide	95.2		P	28 - 156
Prallethrin	67.7		P	28 - 113
Tau-Fluvalinate	69.5		P	10 - 123
Tetramethrin	76.5		P	18 - 158
Trans-Nonachlor	66.1		P	39 - 104
Triclosan Methyl	59.3		P	54 - 108
Trifluralin	53.2		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P434403

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	76.5		P	52 - 117
Toxaphene	88.0		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P434207

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	117		P	40 - 150
AMPA	129		P	40 - 150
Endothall	92.7		P	40 - 150
Glufosinate	96.1		P	40 - 150
Glyphosate	71.8		P	40 - 150
Sucralose	123		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P434344

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	112		P	40 - 150
AMPA	79.3		P	40 - 150
Endothall	102		P	40 - 150
Glufosinate	102		P	40 - 150
Glyphosate	104		P	40 - 150
Sucralose	93.7		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P434372

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	43.2		P	40 - 150
Aldicarb	47.8		P	30 - 150
Aldicarb Sulfone	86.2		P	40 - 150
Aldicarb Sulfoxide	87.9		P	40 - 150
Carbaryl	63.7		P	40 - 150
Carbofuran	76.5		P	40 - 150
Methiocarb	65.3		P	40 - 150
Methomyl	82.1		P	40 - 150
Oxamyl	90.8		P	40 - 150
Propoxur	85.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P434430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	71.2		P	40 - 150
2,4,5-T	79.6		P	40 - 150
Acetaminophen	89.5		P	30 - 150
Acetamiprid	106		P	40 - 150
Afidopyropen	74.7		P	30 - 150
Bentazon	111		P	30 - 150
Benzovindiflupyr	96.1		P	40 - 150
Carbamazepine	93.2		P	40 - 150
Clothianidin	102		P	40 - 150
Dinotefuran	96.4		P	40 - 150
Diuron	84.8		P	40 - 150
Fenuron	106		P	40 - 150
Fluridone	89.6		P	40 - 150
Hydrocodone	110		P	40 - 150
Ibuprofen	78.7		P	40 - 150
Imazapyr	77.2		P	40 - 150
Imidacloprid	89.3		P	40 - 150
Linuron	78.2		P	40 - 150
Mandestrobin	105		P	40 - 150
MCPP	87.5		P	40 - 150
Naproxen	55.3		P	40 - 150
Primidone	94.4		P	40 - 150
Pyraclostrobin	95.2		P	40 - 150
Silvex	80.9		P	40 - 150
Thiamethoxam	104		P	40 - 150
Tolfenpyrad	60.0		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P434430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	84.0		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P434428

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433624	Calcium	100		P	80 - 120
2433624	Iron	106	105	P/P	80 - 120
2433624	Magnesium	102		P	80 - 120
2433624	Potassium	99.5	98.8	P/P	80 - 120
2433624	Sodium	102	99.8	P/P	80 - 120
2433624	Strontium	99.9	99.1	P/P	80 - 120
2433624	Tin	101	100	P/P	80 - 120
2433624	Titanium	102	102	P/P	80 - 120
2433624	Vanadium	103	104	P/P	80 - 120
2433624	Zinc	100	99.5	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P434428

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433624	Aluminum	101	101	P/P	80 - 120
2433624	Antimony	103	103	P/P	80 - 120
2433624	Arsenic	100	100	P/P	80 - 120
2433624	Barium	104	105	P/P	80 - 120
2433624	Beryllium	95.9	101	P/P	80 - 120
2433624	Boron	104	105	P/P	80 - 120
2433624	Cadmium	103	102	P/P	80 - 120
2433624	Chromium	96.7	96.4	P/P	80 - 120
2433624	Cobalt	94.7	95.3	P/P	80 - 120
2433624	Copper	93.9	94.5	P/P	80 - 120
2433624	Lead	95.0	95.6	P/P	80 - 120
2433624	Manganese	97.8	97.6	P/P	80 - 120
2433624	Molybdenum	100	103	P/P	80 - 120
2433624	Nickel	94.9	95.7	P/P	80 - 120
2433624	Selenium	101	99.1	P/P	80 - 120
2433624	Silver	111	111	P/P	80 - 120
2433624	Thallium	103	104	P/P	80 - 120

Reference Method: EPA 8270E

Batch ID: P434276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433663	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	56.2	45.9	P/P	26 - 165
2433663	Acetochlor	69.2	80.4	P/P	67 - 124
2433663	Alachlor	78.6	80.4	P/P	60 - 120
2433663	Ametryn	117	125	P/P	54 - 216
2433663	Atrazine	67.5	70.6	P/P	66 - 128
2433663	Atrazine Desethyl	55.2	70.3	P/P	15 - 122
2433663	Avobenzene	56.2	59.3	P/P	37 - 178
2433663	Azinphos Methyl	68.2	99.7	P/P	40 - 292
2433663	Azoxystrobin	65.1	96.1	P/P	35 - 220
2433663	Bromacil	65.0	74.9	P/P	45 - 127
2433663	Butylate	64.0	57.7	P/P	20 - 83.0
2433663	Caffeine	98.6	99.0	P/P	10 - 194
2433663	Carbophenothion	54.8	59.0	F/P	57 - 127
2433663	Carfentrazone Ethyl	62.7	79.4	P/P	51 - 141
2433663	Chlorfenapyr	49.9	50.0	P/P	46 - 111

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P434276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433663	Chlorpyrifos Ethyl	92.7	77.2	P/P	52 - 120
2433663	Chlorpyrifos Methyl	77.5	96.1	P/P	63 - 119
2433663	Coumaphos	86.2	100	P/P	10 - 228
2433663	Cyanazine	65.5	103	P/P	59 - 241
2433663	Cyprodinil	68.0	79.6	P/P	47 - 146
2433663	Dechlorane 602	20.9	41.1	F/F	50 - 150
2433663	Dechlorane 603	37.9	55.5	F/P	50 - 150
2433663	Dechlorane Plus	36.2	47.1	F/F	50 - 150
2433663	Demeton	80.7	73.3	P/P	40 - 136
2433663	Diazinon	83.2	97.5	P/P	69 - 132
2433663	Difenoconazole	35.4	102	F/P	57 - 258
2433663	Dimethenamid	56.9	135	P/F	54 - 110
2433663	Dimethomorph	76.7	181	P/P	28 - 210
2433663	Disulfoton	102	86.1	P/P	43 - 133
2433663	Dithiopyr	70.8	106	P/P	39 - 116
2433663	EPTC	61.9	52.8	P/P	20 - 78.0
2433663	Ethion	4.88	39.2	F/P	17 - 119
2433663	Ethoprop	106	88.5	P/P	66 - 120
2433663	Etridiazole	64.2	51.2	P/P	28 - 96.0
2433663	Fenamiphos	70.6	67.5	P/P	41 - 126
2433663	Fenbuconazole	18.9	55.3	F/P	42 - 169
2433663	Fipronil	64.5	114	P/P	61 - 132
2433663	Fipronil Desulfinyl	59.3	78.5	P/P	56 - 132
2433663	Fipronil Sulfide	57.2	74.7	P/P	48 - 119
2433663	Fipronil Sulfone	58.2	68.1	P/P	42 - 131
2433663	Fluazifop-P-butyl	58.2	43.6	P/F	53 - 131
2433663	Fludioxonil	68.5	65.1	P/P	56 - 127
2433663	Flumioxazin	39.0	135	P/P	19 - 300
2433663	Flutolanil	54.3	68.4	P/P	41 - 127
2433663	Fluxapyroxad	23.7	46.4	F/P	42 - 172
2433663	Fonofos	87.4	83.2	P/P	59 - 113
2433663	Hexabromobenzene	51.1	63.7	P/P	50 - 150
2433663	Hexazinone	81.5	94.8	P/P	66 - 122
2433663	Imazalil	60.6	61.8	P/P	21 - 283
2433663	Iprodione	62.6	73.1	P/P	43 - 150
2433663	Loratadine	61.8	146	P/P	23 - 201
2433663	Malathion	63.3	84.9	P/P	58 - 136
2433663	Metalaxyl	82.6	81.8	P/P	55 - 120
2433663	Metolachlor	73.4	102	P/P	57 - 121
2433663	Metribuzin	75.7	59.7	P/P	58 - 294
2433663	Mevinphos	86.5	64.2	P/P	50 - 126
2433663	Molinate	61.4	67.0	P/P	42 - 93.0
2433663	Myclobutanil	21.6	73.6	F/P	55 - 125
2433663	Naled	51.0	44.4	P/P	18 - 200
2433663	Napropamide	5.83	66.7	F/P	39 - 110
2433663	Norflurazon	36.9	53.1	F/P	48 - 128
2433663	Octinoxate	57.2	67.1	P/P	21 - 159
2433663	Oxadiazon	57.2	96.8	P/P	43 - 112
2433663	Oxybenzone	76.2	85.8	P/P	41 - 142
2433663	Oxyfluorfen	69.3	77.7	P/P	64 - 153
2433663	Parathion Ethyl	79.6	96.7	P/P	69 - 114
2433663	Parathion Methyl	86.2	112	P/P	79 - 139

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P434276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433663	PBB-153	35.7	53.0	F/P	50 - 150
2433663	PBDE-47	31.3	57.4	P/P	27 - 144
2433663	PBDE-99	23.2	49.6	P/P	18 - 150
2433663	Pendimethalin	74.1	93.6	P/P	50 - 139
2433663	Pentabromotoluene	53.4	59.3	P/P	50 - 150
2433663	Phenytoin	27.3	27.7	P/P	10 - 146
2433663	Phorate	132	116	P/P	54 - 161
2433663	Prodiamine	34.3	32.8	P/P	30 - 161
2433663	Prometon	111	104	P/P	45 - 134
2433663	Prometryn	124	153	P/F	45 - 137
2433663	Pronamide	84.4	99.8	P/P	65 - 133
2433663	Propanil	133	128	P/P	49 - 142
2433663	Propargite	33.9	48.1	P/P	10 - 203
2433663	Propiconazole	43.0	46.0	P/P	38 - 146
2433663	Pyraflufen Ethyl	41.4	77.6	P/P	34 - 153
2433663	Pyridaben	73.5	105	P/P	12 - 192
2433663	Pyriproxyfen	25.8	67.6	F/P	33 - 180
2433663	Simazine	92.7	102	P/P	51 - 157
2433663	Stiropfos	16.9	59.4	P/P	10 - 128
2433663	Sulfentrazone	34.2	77.8	F/P	53 - 186
2433663	Tebuconazole	8.04	36.7	F/P	10 - 133
2433663	Terbufos	117	117	P/P	65 - 139
2433663	Terbutylazine	55.3	70.8	F/P	66 - 117
2433663	Tetradecachloro-m-terphenyl	69.7	51.5	F/F	70 - 200
2433663	Thiobencarb	56.6	76.2	P/P	51 - 119
2433663	Tri-o-cresyl Phosphate	54.4	68.5	P/P	31 - 144
2433663	Triadimefon	42.7	83.0	F/P	48 - 119
2433663	Tris(1-chloro-2-propyl) phosphate (TCPP)	97.3	104	P/P	50 - 150
2433663	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	60.9	76.3	P/P	50 - 150
2433663	Tris(2-chloroethyl) phosphate (TCEP)	92.0	97.4	P/P	70 - 180

Reference Method: EPA 8270E

Batch ID: P434403

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433693	Aldrin	40.0	40.4	P/P	24 - 81.0
2433693	Alpha-BHC	72.9	80.7	P/P	65 - 110
2433693	Alpha-Chlordane	69.6	69.8	P/P	43 - 119
2433693	Beta-BHC	90.0	89.9	P/P	54 - 165
2433693	Beta-Cyfluthrin	37.3	53.4	P/P	27 - 165
2433693	Bifenthrin	30.4	47.2	P/P	17 - 117
2433693	Chlorothalonil	77.8	87.3	P/P	10 - 255
2433693	Cis-Nonachlor	60.2	61.8	P/P	34 - 98.0
2433693	Cypermethrin	37.9	55.9	P/P	25 - 143
2433693	Dacthal	70.3	58.8	P/P	55 - 139
2433693	DDD-p,p'	52.3	53.2	P/P	30 - 109
2433693	DDE-p,p'	52.6	52.6	P/P	35 - 106
2433693	DDT-p,p'	45.5	53.9	P/P	41 - 101
2433693	Delta-BHC	87.6	109	P/P	58 - 165
2433693	Deltamethrin	32.5	55.5	P/P	10 - 194
2433693	Dichlobenil	63.1	66.3	P/P	22 - 114
2433693	Dicofol	54.2	55.7	P/P	17 - 133

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P434403

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433693	Dieldrin	52.9	54.4	P/P	45 - 129
2433693	Endosulfan I	69.7	56.9	P/P	49 - 104
2433693	Endosulfan II	70.8	76.3	P/P	37 - 117
2433693	Endosulfan Sulfate	60.9	59.8	P/P	38 - 128
2433693	Endrin	50.3	47.4	P/P	35 - 116
2433693	Endrin Aldehyde	54.8	30.4	P/P	19 - 108
2433693	Endrin Ketone	65.3	58.3	P/P	44 - 134
2433693	Esfenvalerate	81.5	101	P/P	27 - 176
2433693	Ethalfuralin	57.0	59.5	P/P	49 - 100
2433693	Fenpropathrin	40.0	64.8	P/P	34 - 117
2433693	Gamma-BHC	89.8	87.8	P/P	59 - 129
2433693	Gamma-Chlordane	64.6	54.1	P/P	33 - 107
2433693	Heptachlor	46.7	42.0	P/P	37 - 94.0
2433693	Heptachlor Epoxide	78.3	79.7	P/P	38 - 118
2433693	Hexachlorobenzene	52.1	52.0	P/P	35 - 97.0
2433693	Kepone	76.9	62.4	P/P	10 - 221
2433693	Lambda-Cyhalothrin	37.4	51.6	P/P	23 - 190
2433693	Methoprene	66.0	66.0	P/P	21 - 109
2433693	Methoxychlor	58.1	65.0	P/P	46 - 118
2433693	MGK-264	96.2	102	P/P	39 - 122
2433693	Mirex	34.7	42.8	P/P	25 - 90.0
2433693	Oxychlordane	64.6	55.1	P/P	42 - 100
2433693	Permethrin	49.3	51.6	P/P	33 - 181
2433693	Phenothrin	32.9	40.1	P/P	12 - 125
2433693	Piperonyl Butoxide	60.4	85.9	P/P	10 - 178
2433693	Prallethrin	76.8	69.1	P/P	24 - 122
2433693	Tau-Fluvalinate	33.9	50.4	P/P	13 - 151
2433693	Tetramethrin	70.6	76.3	P/P	16 - 172
2433693	Trans-Nonachlor	66.0	64.4	P/P	39 - 100
2433693	Triclosan Methyl	58.8	53.8	P/P	43 - 110
2433693	Trifluralin	51.3	64.5	P/P	45 - 94.0
2433760	PCB-1016	56.8	56.9	P/P	45 - 107
2433760	PCB-1260	70.5	62.6	P/P	40 - 112

Reference Method: EPA 8276

Batch ID: P434403

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433760	Chlordane	91.2	81.8	P/P	43 - 123
2433760	Toxaphene	96.8	97.7	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P434207

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432732	Acesulfame K	122	126	P/P	40 - 150
2432732	AMPA	101	106	P/P	40 - 150
2432732	Endothall	90.8	93.2	P/P	40 - 150
2432732	Glufosinate	87.8	82.4	P/P	40 - 150
2432732	Glyphosate	68.9	66.1	P/P	40 - 150
2432732	Sucralose	125	123	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P434344

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433690	Acesulfame K	146	145	P/P	40 - 150
2433690	AMPA	56.3	57.5	P/P	40 - 150
2433690	Endothall	148	149	P/P	40 - 150
2433690	Glufosinate	97.0	105	P/P	40 - 150
2433690	Glyphosate	134	94.1	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P434372

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433691	3-Hydroxycarbofuran	56.2	25.8	P/F	40 - 150
2433691	Aldicarb	62.7	48.7	P/P	30 - 150
2433691	Aldicarb Sulfone	90.9	85.6	P/P	40 - 150
2433691	Aldicarb Sulfoxide	30.6	25.0	F/F	40 - 150
2433691	Carbaryl	67.8	63.5	P/P	40 - 150
2433691	Carbofuran	63.7	59.5	P/P	40 - 150
2433691	Methiocarb	71.2	61.1	P/P	40 - 150
2433691	Methomyl	72.0	70.3	P/P	40 - 150
2433691	Oxamyl	78.4	76.1	P/P	40 - 150
2433691	Propoxur	66.8	62.8	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P434430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432763	2,4-D	108	107	P/P	40 - 150
2432763	2,4,5-T	116	123	P/P	40 - 150
2432763	Acetaminophen	117	115	P/P	30 - 150
2432763	Acetamiprid	30.9	52.2	F/P	40 - 150
2432763	Afidopyropen	42.5	54.7	P/P	30 - 150
2432763	Bentazon	61.3	61.5	P/P	30 - 150
2432763	Benzovindiflupyr	97.0	93.2	P/P	40 - 150
2432763	Carbamazepine	70.9	66.1	P/P	40 - 150
2432763	Clothianidin	97.0	99.9	P/P	40 - 150
2432763	Dinotefuran	70.8	69.2	P/P	40 - 150
2432763	Diuron	56.8	57.4	P/P	40 - 150
2432763	Fenuron	53.1	53.9	P/P	40 - 150
2432763	Fluridone	69.7	66.4	P/P	40 - 150
2432763	Hydrocodone	70.8	72.5	P/P	40 - 150
2432763	Ibuprofen	79.8	71.2	P/P	40 - 150
2432763	Imazapyr	69.2	68.8	P/P	40 - 150
2432763	Imidacloprid	119	114	P/P	40 - 150
2432763	Linuron	63.0	69.1	P/P	40 - 150
2432763	Mandestrobin	103	96.6	P/P	40 - 150
2432763	MCCPP	127	120	P/P	40 - 150
2432763	Naproxen	88.4	84.3	P/P	40 - 150
2432763	Primidone	80.5	81.8	P/P	40 - 150
2432763	Pyraclostrobin	94.6	92.1	P/P	40 - 150
2432763	Silvex	122	123	P/P	40 - 150
2432763	Thiamethoxam	86.9	86.1	P/P	40 - 150
2432763	Tolfenpyrad	60.4	56.0	P/P	30 - 150
2432763	Triclopyr	125	124	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P434428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433624	Calcium	0.986	Spike	P	0 - 20
2433624	Iron	1.06	Spike	P	0 - 20
2433624	Magnesium	1.32	Spike	P	0 - 20
2433624	Potassium	0.554	Spike	P	0 - 20
2433624	Sodium	1.18	Spike	P	0 - 20
2433624	Strontium	0.699	Spike	P	0 - 20
2433624	Tin	1.25	Spike	P	0 - 20
2433624	Titanium	0.560	Spike	P	0 - 20
2433624	Vanadium	0.860	Spike	P	0 - 20
2433624	Zinc	0.662	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P434428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433624	Aluminum	0.360	Spike	P	0 - 20
2433624	Antimony	0.540	Spike	P	0 - 20
2433624	Arsenic	0.494	Spike	P	0 - 20
2433624	Barium	0.130	Spike	P	0 - 20
2433624	Beryllium	5.09	Spike	P	0 - 20
2433624	Boron	1.41	Spike	P	0 - 20
2433624	Cadmium	0.646	Spike	P	0 - 20
2433624	Chromium	0.290	Spike	P	0 - 20
2433624	Cobalt	0.566	Spike	P	0 - 20
2433624	Copper	0.687	Spike	P	0 - 20
2433624	Lead	0.553	Spike	P	0 - 20
2433624	Manganese	0.161	Spike	P	0 - 20
2433624	Molybdenum	2.17	Spike	P	0 - 20
2433624	Nickel	0.845	Spike	P	0 - 20
2433624	Selenium	2.06	Spike	P	0 - 20
2433624	Silver	0.233	Spike	P	0 - 20
2433624	Thallium	0.825	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P434276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433663	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	20.0	Spike	P	0 - 37
2433663	Acetochlor	14.1	Spike	P	0 - 28
2433663	Alachlor	2.27	Spike	P	0 - 30
2433663	Ametryn	6.23	Spike	P	0 - 32
2433663	Atrazine	4.09	Spike	P	0 - 41
2433663	Atrazine Desethyl	21.0	Spike	P	0 - 36
2433663	Avobenzone	5.46	Spike	P	0 - 36
2433663	Azinphos Methyl	37.6	Spike	P	0 - 75
2433663	Azoxystrobin	38.4	Spike	P	0 - 39
2433663	Bromacil	14.2	Spike	P	0 - 33
2433663	Butylate	10.5	Spike	P	0 - 44
2433663	Caffeine	0.352	Spike	P	0 - 74

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P434276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433663	Carbophenothion	6.43	Spike	P	0 - 25
2433663	Carfentrazone Ethyl	23.5	Spike	P	0 - 27
2433663	Chlorfenapyr	0.0782	Spike	P	0 - 24
2433663	Chlorpyrifos Ethyl	18.2	Spike	P	0 - 26
2433663	Chlorpyrifos Methyl	21.5	Spike	P	0 - 26
2433663	Coumaphos	15.0	Spike	P	0 - 28
2433663	Cyanazine	44.8	Spike	P	0 - 48
2433663	Cyprodinil	15.7	Spike	P	0 - 29
2433663	Dechlorane 602	65.0	Spike	F	0 - 30
2433663	Dechlorane 603	37.8	Spike	F	0 - 30
2433663	Dechlorane Plus	26.3	Spike	P	0 - 30
2433663	Demeton	9.66	Spike	P	0 - 33
2433663	Diazinon	15.8	Spike	P	0 - 29
2433663	Difenoconazole	84.7	Spike	F	0 - 34
2433663	Dimethenamid	81.3	Spike	F	0 - 39
2433663	Dimethomorph	73.0	Spike	F	0 - 51
2433663	Disulfoton	16.7	Spike	P	0 - 30
2433663	Dithiopyr	40.1	Spike	F	0 - 26
2433663	EPTC	15.8	Spike	P	0 - 43
2433663	Ethion	156	Spike	F	0 - 79
2433663	Ethoprop	18.0	Spike	P	0 - 29
2433663	Etridiazole	22.6	Spike	P	0 - 33
2433663	Fenamiphos	4.46	Spike	P	0 - 40
2433663	Fenbuconazole	78.7	Spike	F	0 - 74
2433663	Fipronil	50.0	Spike	F	0 - 29
2433663	Fipronil Desulfanyl	25.3	Spike	P	0 - 32
2433663	Fipronil Sulfide	24.2	Spike	P	0 - 30
2433663	Fipronil Sulfone	12.9	Spike	P	0 - 33
2433663	Fluazifop-P-butyl	24.6	Spike	P	0 - 38
2433663	Fludioxonil	5.10	Spike	P	0 - 29
2433663	Flumioxazin	110	Spike	F	0 - 51
2433663	Flutolanil	23.0	Spike	P	0 - 25
2433663	Fluxapyroxad	64.8	Spike	F	0 - 45
2433663	Fonofos	4.90	Spike	P	0 - 27
2433663	Hexabromobenzene	21.9	Spike	P	0 - 30
2433663	Hexazinone	15.1	Spike	P	0 - 30
2433663	Imazalil	2.01	Spike	P	0 - 100
2433663	Iprodione	15.4	Spike	P	0 - 33
2433663	Loratadine	73.0	Spike	F	0 - 56
2433663	Malathion	29.1	Spike	P	0 - 37
2433663	Metalaxyl	1.05	Spike	P	0 - 40
2433663	Metolachlor	28.0	Spike	P	0 - 29
2433663	Metribuzin	23.7	Spike	P	0 - 45
2433663	Mevinphos	29.5	Spike	F	0 - 29
2433663	Molinate	8.71	Spike	P	0 - 33
2433663	Myclobutanil	109	Spike	F	0 - 26
2433663	Naled	13.8	Spike	P	0 - 37
2433663	Napropamide	168	Spike	F	0 - 44
2433663	Norflurazon	35.9	Spike	F	0 - 30
2433663	Octinoxate	15.9	Spike	P	0 - 45
2433663	Oxadiazon	51.5	Spike	F	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P434276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433663	Oxybenzone	11.8	Spike	P	0 - 46
2433663	Oxyfluorfen	11.4	Spike	P	0 - 28
2433663	Parathion Ethyl	19.4	Spike	P	0 - 31
2433663	Parathion Methyl	26.1	Spike	P	0 - 29
2433663	PBB-153	39.0	Spike	F	0 - 30
2433663	PBDE-47	58.8	Spike	F	0 - 36
2433663	PBDE-99	72.4	Spike	F	0 - 40
2433663	Pendimethalin	23.2	Spike	P	0 - 33
2433663	Pentabromotoluene	10.4	Spike	P	0 - 30
2433663	Phenytoin	1.62	Spike	P	0 - 100
2433663	Phorate	13.1	Spike	P	0 - 36
2433663	Prodiamine	4.24	Spike	P	0 - 71
2433663	Prometon	6.67	Spike	P	0 - 36
2433663	Prometryn	20.6	Spike	P	0 - 28
2433663	Pronamide	16.8	Spike	P	0 - 24
2433663	Propanil	4.18	Spike	P	0 - 28
2433663	Propargite	34.8	Spike	P	0 - 43
2433663	Propiconazole	6.82	Spike	P	0 - 33
2433663	Pyraflufen Ethyl	60.8	Spike	F	0 - 29
2433663	Pyridaben	35.5	Spike	F	0 - 30
2433663	Pyriproxyfen	89.7	Spike	F	0 - 79
2433663	Simazine	9.74	Spike	P	0 - 29
2433663	Stiropfos	112	Spike	F	0 - 61
2433663	Sulfentrazone	64.4	Spike	F	0 - 33
2433663	Tebuconazole	128	Spike	F	0 - 69
2433663	Terbufos	0.314	Spike	P	0 - 29
2433663	Terbuthylazine	22.9	Spike	P	0 - 32
2433663	Tetradecachloro-m-terphenyl	30.1	Spike	F	0 - 30
2433663	Thiobencarb	29.5	Spike	F	0 - 26
2433663	Tri-o-cresyl Phosphate	23.0	Spike	P	0 - 33
2433663	Triadimefon	64.0	Spike	F	0 - 28
2433663	Tris(1-chloro-2-propyl) phosphate (TCPP)	6.72	Spike	P	0 - 30
2433663	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	22.4	Spike	P	0 - 30
2433663	Tris(2-chloroethyl) phosphate (TCEP)	5.77	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P434403

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433693	Aldrin	1.13	Spike	P	0 - 41
2433693	Alpha-BHC	10.2	Spike	P	0 - 25
2433693	Alpha-Chlordane	0.321	Spike	P	0 - 32
2433693	Beta-BHC	0.111	Spike	P	0 - 33
2433693	Beta-Cyfluthrin	35.5	Spike	P	0 - 43
2433693	Bifenthrin	43.3	Spike	P	0 - 52
2433693	Chlorothalonil	11.5	Spike	P	0 - 82
2433693	Cis-Nonachlor	2.55	Spike	P	0 - 33
2433693	Cypermethrin	38.4	Spike	P	0 - 51
2433693	Dacthal	17.9	Spike	P	0 - 27
2433693	DDD-p,p'	1.58	Spike	P	0 - 39

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P434403

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433693	DDE-p,p'	0.0594	Spike	P	0 - 31
2433693	DDT-p,p'	17.0	Spike	P	0 - 29
2433693	Delta-BHC	21.9	Spike	P	0 - 35
2433693	Deltamethrin	52.2	Spike	P	0 - 100
2433693	Dichlobenil	4.92	Spike	P	0 - 40
2433693	Dicofol	2.69	Spike	P	0 - 37
2433693	Dieldrin	1.95	Spike	P	0 - 27
2433693	Endosulfan I	20.2	Spike	P	0 - 23
2433693	Endosulfan II	7.55	Spike	P	0 - 34
2433693	Endosulfan Sulfate	1.78	Spike	P	0 - 36
2433693	Endrin	6.06	Spike	P	0 - 45
2433693	Endrin Aldehyde	57.4	Spike	P	0 - 76
2433693	Endrin Ketone	11.3	Spike	P	0 - 43
2433693	Esfenvalerate	21.2	Spike	P	0 - 51
2433693	Ethalfuralin	4.36	Spike	P	0 - 22
2433693	Fenpropathrin	47.3	Spike	P	0 - 49
2433693	Gamma-BHC	2.22	Spike	P	0 - 28
2433693	Gamma-Chlordane	17.7	Spike	P	0 - 40
2433693	Heptachlor	10.5	Spike	P	0 - 29
2433693	Heptachlor Epoxide	1.72	Spike	P	0 - 33
2433693	Hexachlorobenzene	0.145	Spike	P	0 - 36
2433693	Kepone	20.8	Spike	P	0 - 85
2433693	Lambda-Cyhalothrin	31.9	Spike	P	0 - 55
2433693	Methoprene	0.0864	Spike	P	0 - 53
2433693	Methoxychlor	11.2	Spike	P	0 - 50
2433693	MGK-264	6.30	Spike	P	0 - 43
2433693	Mirex	20.8	Spike	P	0 - 40
2433693	Oxychlordane	15.9	Spike	P	0 - 31
2433693	Permethrin	4.39	Spike	P	0 - 50
2433693	Phenothrin	19.5	Spike	P	0 - 58
2433693	Piperonyl Butoxide	34.9	Spike	P	0 - 100
2433693	Prallethrin	10.5	Spike	P	0 - 39
2433693	Tau-Fluvalinate	39.1	Spike	P	0 - 54
2433693	Tetramethrin	7.75	Spike	P	0 - 51
2433693	Trans-Nonachlor	2.45	Spike	P	0 - 39
2433693	Triclosan Methyl	8.80	Spike	P	0 - 31
2433693	Trifluralin	22.8	Spike	F	0 - 22
2433760	PCB-1016	0.186	Spike	P	0 - 25
2433760	PCB-1260	11.9	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P434403

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433760	Chlordane	10.8	Spike	P	0 - 28
2433760	Toxaphene	0.915	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P434207

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432732	Acesulfame K	3.26	Spike	P	0 - 30
2432732	AMPA	4.72	Spike	P	0 - 30
2432732	Endothall	2.60	Spike	P	0 - 30
2432732	Glufosinate	6.29	Spike	P	0 - 30
2432732	Glyphosate	4.11	Spike	P	0 - 30
2432732	Sucralose	1.79	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P434344

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433690	Acesulfame K	0.966	Spike	P	0 - 30
2433690	AMPA	2.06	Spike	P	0 - 30
2433690	Endothall	0.960	Spike	P	0 - 30
2433690	Glufosinate	8.05	Spike	P	0 - 30
2433690	Glyphosate	30.0	Spike	P	0 - 30
2433690	Sucralose	20.8	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P434372

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433691	3-Hydroxycarbofuran	74.2	Spike	F	0 - 30
2433691	Aldicarb	25.0	Spike	P	0 - 30
2433691	Aldicarb Sulfone	6.03	Spike	P	0 - 30
2433691	Aldicarb Sulfoxide	20.2	Spike	P	0 - 30
2433691	Carbaryl	6.52	Spike	P	0 - 30
2433691	Carbofuran	6.82	Spike	P	0 - 30
2433691	Methiocarb	15.3	Spike	P	0 - 30
2433691	Methomyl	2.41	Spike	P	0 - 30
2433691	Oxamyl	2.95	Spike	P	0 - 30
2433691	Propoxur	6.14	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P434430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432763	2,4-D	1.44	Spike	P	0 - 30
2432763	2,4,5-T	5.74	Spike	P	0 - 30
2432763	Acetaminophen	1.10	Spike	P	0 - 30
2432763	Acetamiprid	51.2	Spike	F	0 - 30
2432763	Afidopyropen	25.2	Spike	P	0 - 30
2432763	Bentazon	0.269	Spike	P	0 - 30
2432763	Benzovindiflupyr	3.92	Spike	P	0 - 30
2432763	Carbamazepine	7.00	Spike	P	0 - 30
2432763	Clothianidin	3.01	Spike	P	0 - 30
2432763	Dinotefuran	2.31	Spike	P	0 - 30
2432763	Diuron	1.18	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P434430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432763	Fenuron	1.61	Spike	P	0 - 30
2432763	Fluridone	4.83	Spike	P	0 - 30
2432763	Hydrocodone	2.39	Spike	P	0 - 30
2432763	Ibuprofen	11.3	Spike	P	0 - 30
2432763	Imazapyr	0.579	Spike	P	0 - 30
2432763	Imidacloprid	4.62	Spike	P	0 - 30
2432763	Linuron	9.16	Spike	P	0 - 30
2432763	Mandestrobin	5.94	Spike	P	0 - 30
2432763	MCCP	5.99	Spike	P	0 - 30
2432763	Naproxen	4.80	Spike	P	0 - 30
2432763	Primidone	1.61	Spike	P	0 - 30
2432763	Pyraclostrobin	2.72	Spike	P	0 - 30
2432763	Silvex	0.987	Spike	P	0 - 30
2432763	Thiamethoxam	0.908	Spike	P	0 - 30
2432763	Tolfenpyrad	7.54	Spike	P	0 - 30
2432763	Triclopyr	0.682	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2433688
Field Sample ID: G2CE0247

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	88.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	112	P	30 - 160
EPA 8321B	Carbamazepine-d10	60.9	P	30 - 160
EPA 8321B	Diuron-d6	38.6	P	30 - 160
EPA 8321B	Endothall-d6	112	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	70.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.8	P	30 - 160
EPA 8321B	Primidone-d5	63.8	P	30 - 160
EPA 8321B	Sucralose-d6	135	P	30 - 160

Lab Sample ID: 2433689
Field Sample ID: G2CE0241

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	59.5	P	30 - 160
EPA 8321B	Diuron-d6	36.9	P	30 - 160
EPA 8321B	Endothall-d6	122	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	70.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	60.0	P	30 - 160
EPA 8321B	Primidone-d5	53.8	P	30 - 160
EPA 8321B	Sucralose-d6	135	P	30 - 160

Lab Sample ID: 2433690
Field Sample ID: G2CE0233

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	103	P	30 - 160
EPA 8321B	Acetaminophen-d4	83.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	60.4	P	30 - 160
EPA 8321B	Diuron-d6	37.8	P	30 - 160
EPA 8321B	Endothall-d6	128	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.9	P	30 - 160
EPA 8321B	Primidone-d5	66.9	P	30 - 160
EPA 8321B	Sucralose-d6	92.8	P	30 - 160

Lab Sample ID: 2433691
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	53.0	P	30 - 160

Lab Sample ID: 2433692
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.1	P	30 - 160
EPA 8321B	Diuron-d6	39.6	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2433692
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Endothall-d6	130	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	66.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.7	P	30 - 160
EPA 8321B	Primidone-d5	59.1	P	30 - 160
EPA 8321B	Sucralose-d6	104	P	30 - 160

Lab Sample ID: 2433701
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	68.8	P	37 - 129
EPA 8270E	Decachlorobiphenyl	81.3	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	52.2	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	50.9	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	61.8	P	28 - 102
EPA 8276	PCNB	81.4	P	49 - 115

Lab Sample ID: 2433702
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	50.2	P	20 - 200
EPA 8270E	Simazine-d10	95.6	P	62 - 142
EPA 8270E	Terbufos-d10	110	P	58 - 132
EPA 8270E	Terphenyl-d14	78.9	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A121277

Included Lab Sample IDs: 2433688, 2433689

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	105	108	P/P	60 - 160
Endothall	93.5	97.7	P/P	60 - 160
Glufosinate	99.0	89.8	P/P	60 - 160
Glyphosate	94.2	95.0	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121320

Included Lab Sample IDs: 2433703, 2433704, 2433705, 2433706

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	102	P/P	90 - 110
Antimony	98.4	99.2	P/P	90 - 110
Arsenic	99.2	101	P/P	90 - 110
Barium	101	101	P/P	90 - 110
Beryllium	98.0	99.0	P/P	90 - 110
Boron	102	105	P/P	90 - 110
Cadmium	101	100	P/P	90 - 110
Chromium	100	99.8	P/P	90 - 110
Cobalt	96.5	98.2	P/P	90 - 110
Copper	96.8	99.6	P/P	90 - 110
Lead	94.9	94.8	P/P	90 - 110
Manganese	100	100	P/P	90 - 110
Molybdenum	99.0	99.2	P/P	90 - 110
Nickel	97.2	99.4	P/P	90 - 110
Selenium	101	102	P/P	90 - 110
Silver	96.9	97.5	P/P	90 - 110
Thallium	99.1	99.0	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A121321

Included Lab Sample IDs: 2433703, 2433704, 2433705, 2433706

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.8	100	P/P	90 - 110
Iron	101	103	P/P	90 - 110
Magnesium	100	102	P/P	90 - 110
Potassium	97.6	99.5	P/P	90 - 110
Sodium	95.2	97.2	P/P	90 - 110
Strontium	99.2	99.3	P/P	90 - 110
Tin	101	101	P/P	90 - 110
Titanium	100	100	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110
Zinc	101	103	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121324

Included Lab Sample IDs: 2433691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	95.4	104	P/P	60 - 150
Aldicarb	85.2	92.0	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121324
Included Lab Sample IDs: 2433691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldicarb Sulfone	104	105	P/P	50 - 150
Aldicarb Sulfoxide	102	101	P/P	50 - 150
Carbaryl	98.9	97.8	P/P	60 - 150
Carbofuran	102	110	P/P	50 - 150
Methiocarb	103	108	P/P	50 - 150
Methomyl	102	101	P/P	50 - 150
Oxamyl	99.7	107	P/P	50 - 150
Propoxur	111	119	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A121325
Included Lab Sample IDs: 2433690, 2433692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	112	146	P/P	60 - 160
Sucralose	100	98.1	P/P	60 - 160
Sucralose	106	113	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A121329
Included Lab Sample IDs: 2433690, 2433692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	87.1	72.4	P/P	60 - 160
Endothall	112	102	P/P	60 - 160
Glufosinate	102	90.9	P/P	60 - 160
Glyphosate	109	87.7	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A121341
Included Lab Sample IDs: 2433702

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.5		P	80 - 120
Avobenzene	102		P	80 - 120
Dechlorane 602	94.4		P	80 - 120
Dechlorane 603	92.6		P	80 - 120
Dechlorane Plus	95.8		P	80 - 120
Hexabromobenzene	93.8		P	80 - 120
Octinoxate	91.4		P	80 - 120
Oxybenzone	95.9		P	80 - 120
PBB-153	91.7		P	80 - 120
PBDE-47	91.7		P	80 - 120
PBDE-99	92.3		P	80 - 120
Pentabromotoluene	93.2		P	80 - 120
Tetradecachloro-m-terphenyl	101		P	80 - 120
Tri-o-cresyl Phosphate	95.3		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	92.5		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	92.3		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	100		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8321B

Run ID: A121350

Included Lab Sample IDs: 2433688, 2433689, 2433690, 2433692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	87.8	91.0	P/P	50 - 150
2,4-D	91.0	85.9	P/P	50 - 150
2,4,5-T	79.1	94.6	P/P	50 - 150
2,4,5-T	85.7	79.1	P/P	50 - 150
Acetaminophen	102	107	P/P	60 - 160
Acetaminophen	107	107	P/P	60 - 160
Acetamiprid	125	128	P/P	50 - 150
Acetamiprid	128	130	P/P	50 - 150
Afidopyropen	104	112	P/P	50 - 150
Afidopyropen	112	105	P/P	50 - 150
Bentazon	138	130	P/P	50 - 160
Bentazon	142	138	P/P	50 - 160
Bentazon	145	145	P/P	50 - 160
Benzovindiflupyr	113	119	P/P	50 - 150
Benzovindiflupyr	119	118	P/P	50 - 150
Carbamazepine	117	129	P/P	60 - 150
Carbamazepine	129	122	P/P	60 - 150
Clothianidin	113	120	P/P	60 - 150
Clothianidin	120	122	P/P	60 - 150
Dinotefuran	108	113	P/P	50 - 150
Dinotefuran	113	107	P/P	50 - 150
Diuron	111	111	P/P	60 - 160
Diuron	111	112	P/P	60 - 160
Fenuron	117	118	P/P	60 - 150
Fenuron	118	125	P/P	60 - 150
Fluridone	110	111	P/P	60 - 160
Fluridone	111	110	P/P	60 - 160
Hydrocodone	130	135	P/P	60 - 150
Hydrocodone	135	141	P/P	60 - 150
Ibuprofen	101	122	P/P	50 - 160
Ibuprofen	122	101	P/P	50 - 160
Imazapyr	89.2	93.4	P/P	50 - 150
Imazapyr	93.0	89.2	P/P	50 - 150
Imidacloprid	104	104	P/P	60 - 150
Imidacloprid	104	106	P/P	60 - 150
Linuron	100	108	P/P	60 - 150
Linuron	108	103	P/P	60 - 150
Mandestrobin	123	127	P/P	50 - 150
Mandestrobin	127	125	P/P	50 - 150
MCPP	85.3	90.3	P/P	50 - 150
MCPP	90.3	87.2	P/P	50 - 150
Naproxen	111	63.4	P/P	50 - 160
Naproxen	63.4	108	P/P	50 - 160
Primidone	105	111	P/P	60 - 150
Primidone	108	105	P/P	60 - 150
Pyraclostrobin	120	124	P/P	60 - 150
Pyraclostrobin	124	122	P/P	60 - 150
Silvex	85.8	89.9	P/P	50 - 150
Silvex	89.4	85.8	P/P	50 - 150
Thiamethoxam	122	130	P/P	50 - 150
Thiamethoxam	125	122	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A121350

Included Lab Sample IDs: 2433688, 2433689, 2433690, 2433692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tolfenpyrad	105	106	P/P	60 - 150
Tolfenpyrad	106	109	P/P	60 - 150
Triclopyr	84.9	87.4	P/P	50 - 150
Triclopyr	87.4	102	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A121372

Included Lab Sample IDs: 2433701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	103		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	112		P	80 - 120
Beta-BHC	106		P	80 - 120
Beta-Cyfluthrin	101		P	80 - 120
Bifenthrin	109		P	80 - 120
Chlorothalonil	110		P	80 - 120
Cis-Nonachlor	107		P	80 - 120
Cypermethrin	111		P	80 - 120
Dacthal	104		P	80 - 120
DDD-p,p'	109		P	80 - 120
DDE-p,p'	107		P	80 - 120
DDT-p,p'	98.3		P	80 - 120
Delta-BHC	106		P	80 - 120
Deltamethrin	105		P	80 - 120
Dichlobenil	110		P	80 - 120
Dicofol	98.9		P	80 - 120
Dieldrin	107		P	80 - 120
Endosulfan I	109		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	99.3		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	108		P	80 - 120
Endrin Ketone	99.0		P	80 - 120
Esfenvalerate	109		P	80 - 120
Ethalfuralin	104		P	80 - 120
Fenpropathrin	107		P	80 - 120
Gamma-BHC	121*		F	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	95.1		P	80 - 120
Heptachlor Epoxide	105		P	80 - 120
Hexachlorobenzene	106		P	80 - 120
Kepone	62.9*		F	80 - 120
Lambda-Cyhalothrin	115		P	80 - 120
Methoprene	109		P	80 - 120
Methoxychlor	98.8		P	80 - 120
MGK-264	109		P	80 - 120
Mirex	109		P	80 - 120
Oxychlordane	109		P	80 - 120
Permethrin	109		P	80 - 120
Phenothrin	110		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121372
Included Lab Sample IDs: 2433701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Piperonyl Butoxide	114		P	80 - 120
Prallethrin	105		P	80 - 120
Tau-Fluvalinate	109		P	80 - 120
Tetramethrin	110		P	80 - 120
Trans-Nonachlor	109		P	80 - 120
Triclosan Methyl	105		P	80 - 120
Trifluralin	102		P	80 - 120

Reference Method: EPA 8276
Run ID: A121389
Included Lab Sample IDs: 2433701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Toxaphene	98.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A121395
Included Lab Sample IDs: 2433701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.6		P	80 - 120
PCB-1260	98.3		P	80 - 120

Reference Method: EPA 8270E
Run ID: A121592
Included Lab Sample IDs: 2433702

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	92.3		P	80 - 120
Alachlor	87.6		P	80 - 120
Ametryn	111		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	93.4		P	80 - 120
Azinphos Methyl	84.7		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	90.6		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	94.1		P	80 - 120
Carbophenothion	100		P	80 - 120
Carfentrazone Ethyl	89.8		P	80 - 120
Chlorfenapyr	94.3		P	80 - 120
Chlorpyrifos Ethyl	87.3		P	80 - 120
Chlorpyrifos Methyl	93.5		P	80 - 120
Coumaphos	96.0		P	80 - 120
Cyanazine	102		P	80 - 120
Cyprodinil	92.0		P	80 - 120
Demeton	85.2		P	80 - 120
Diazinon	102		P	80 - 120
Difenoconazole	87.3		P	80 - 120
Dimethenamid	88.0		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
 Run ID: A121592
 Included Lab Sample IDs: 2433702

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dimethomorph	95.2		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	91.6		P	80 - 120
EPTC	99.0		P	80 - 120
Ethion	88.9		P	80 - 120
Ethoprop	87.9		P	80 - 120
Etridiazole	102		P	80 - 120
Fenamiphos	98.3		P	80 - 120
Fenbuconazole	90.4		P	80 - 120
Fipronil	81.0		P	80 - 120
Fipronil Desulfinyl	89.7		P	80 - 120
Fipronil Sulfide	98.7		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	96.4		P	80 - 120
Fludioxonil	93.0		P	80 - 120
Flumioxazin	89.4		P	80 - 120
Flutolanil	98.8		P	80 - 120
Fluxapyroxad	92.5		P	80 - 120
Fonofos	85.2		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	103		P	80 - 120
Iprodione	80.7		P	80 - 120
Loratadine	91.0		P	80 - 120
Malathion	88.9		P	80 - 120
Metalaxyl	89.7		P	80 - 120
Metolachlor	99.5		P	80 - 120
Metribuzin	110		P	80 - 120
Mevinphos	86.6		P	80 - 120
Molinate	88.4		P	80 - 120
Myclobutanil	93.7		P	80 - 120
Naled	89.9		P	80 - 120
Napropamide	99.9		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	106		P	80 - 120
Parathion Ethyl	95.3		P	80 - 120
Parathion Methyl	84.0		P	80 - 120
Pendimethalin	89.1		P	80 - 120
Phenytol	100		P	80 - 120
Phorate	87.3		P	80 - 120
Prodiamine	94.7		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	86.4		P	80 - 120
Pronamide	106		P	80 - 120
Propanil	102		P	80 - 120
Propargite	104		P	80 - 120
Propiconazole	82.1		P	80 - 120
Pyraflufen Ethyl	95.1		P	80 - 120
Pyridaben	103		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	90.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121592
Included Lab Sample IDs: 2433702

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Stirophos	83.9		P	80 - 120
Sulfentrazone	77.3*		F	80 - 120
Tebuconazole	99.6		P	80 - 120
Terbufos	99.8		P	80 - 120
Terbutylazine	94.5		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	103		P	80 - 120

Reference Method: EPA 8321B
Run ID: P121278
Included Lab Sample IDs: 2433688, 2433689

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	136	132	P/P	60 - 160
Sucralose	129	133	P/P	60 - 160

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 200.7 Rev. 4.4	Calcium	103	100				0.986
	Iron	105	106	105			1.06
	Magnesium	103	102				1.32
	Potassium	101	99.5	98.8			0.554
	Sodium	101	102	99.8			1.18
	Strontium	99.7	99.9	99.1			0.699
	Tin	103	101	100			1.25
	Titanium	103	102	102			0.560
	Vanadium	103	103	104			0.860
	Zinc	103	100	99.5			0.662
EPA 200.8 Rev. 5.4	Aluminum	103	101	101			0.360
	Antimony	101	103	103			0.540
	Arsenic	100	100	100			0.494
	Barium	105	104	105			0.130
	Beryllium	98.1	95.9	101			5.09
	Boron	103	104	105			1.41
	Cadmium	100	103	102			0.646
	Chromium	96.6	96.7	96.4			0.290
	Cobalt	97.9	94.7	95.3			0.566
	Copper	98.0	93.9	94.5			0.687
	Lead	95.9	95.0	95.6			0.553
	Manganese	96.7	97.8	97.6			0.161
	Molybdenum	99.2	100	103			2.17
	Nickel	98.4	94.9	95.7			0.845
	Selenium	101	101	99.1			2.06
	Silver	110	111	111			0.233
	Thallium	102	103	104			0.825
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	83.4	45.9	56.2			20.0
	Acetochlor	82.6	69.2	80.4			14.1
EPA 8270E	Alachlor	96.4	78.6	80.4			2.27
	Aldrin	42.0	40.0	40.4			1.13
	Alpha-BHC	78.9	72.9	80.7			10.2
	Alpha-Chlordane	63.3	69.6	69.8			0.321
	Ametryn	127	117	125			6.23
	Atrazine	101	67.5	70.6			4.09
	Atrazine Desethyl	74.4	55.2	70.3			21.0
	Avobenzone	126	59.3	56.2			5.46
	Azinphos Methyl	117	68.2	99.7			37.6
	Azoxystrobin	109	65.1	96.1			38.4
	Beta-BHC	67.7	90.0	89.9			0.111
	Beta-Cyfluthrin	61.5	37.3	53.4			35.5
	Bifenthrin	52.6	30.4	47.2			43.3
	Bromacil	88.8	65.0	74.9			14.2
	Butylate	64.0	64.0	57.7			10.5
	Caffeine	90.7	98.6	99.0			0.352
	Carbophenothion	108	54.8	59.0			6.43
	Carfentrazone Ethyl	108	62.7	79.4			23.5
	Chlorfenapyr	91.4	49.9	50.0			0.0782
	Chlorothalonil	59.1	77.8	87.3			11.5
	Chlorpyrifos Ethyl	84.8	92.7	77.2			18.2
	Chlorpyrifos Methyl	76.9	77.5	96.1			21.5
	Cis-Nonachlor	61.2	60.2	61.8			2.55

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Coumaphos	159	86.2	100			15.0
	Cyanazine	121	65.5	103			44.8
	Cypermethrin	81.8	37.9	55.9			38.4
	Cyprodinil	61.7	68.0	79.6			15.7
	Dacthal	77.4	70.3	58.8			17.9
	DDD-p,p'	61.4	52.3	53.2			1.58
	DDE-p,p'	58.9	52.6	52.6			0.0594
	DDT-p,p'	50.5	45.5	53.9			17.0
	Dechlorane 602	66.0	41.1	20.9			65.0
	Dechlorane 603	91.1	55.5	37.9			37.8
	Dechlorane Plus	73.5	47.1	36.2			26.3
	Delta-BHC	78.4	87.6	109			21.9
	Deltamethrin	81.1	32.5	55.5			52.2
	Demeton	67.4	80.7	73.3			9.66
	Diazinon	101	83.2	97.5			15.8
	Dichlobenil	55.7	63.1	66.3			4.92
	Dicofol	52.5	54.2	55.7			2.69
	Dieldrin	60.2	52.9	54.4			1.95
	Difenoconazole	118	35.4	102			84.7
	Dimethenamid	58.9	56.9	135			81.3
	Dimethomorph	219	76.7	181			73.0
	Disulfoton	123	102	86.1			16.7
	Dithiopyr	75.4	70.8	106			40.1
	Endosulfan I	62.1	69.7	56.9			20.2
	Endosulfan II	65.3	70.8	76.3			7.55
	Endosulfan Sulfate	76.3	60.9	59.8			1.78
	Endrin	65.1	50.3	47.4			6.06
	Endrin Aldehyde	7.56	54.8	30.4			57.4
	Endrin Ketone	104	65.3	58.3			11.3
	EPTC	60.3	61.9	52.8			15.8
	Esfenvalerate	72.2	81.5	101			21.2
	Ethalfuralin	57.2	57.0	59.5			4.36
	Ethion	69.9	4.88	39.2			156
	Ethoprop	105	106	88.5			18.0
	Etridiazole	70.9	64.2	51.2			22.6
	Fenamiphos	93.8	70.6	67.5			4.46
	Fenbuconazole	114	18.9	55.3			78.7
	Fenpropathrin	69.7	40.0	64.8			47.3
	Fipronil	105	64.5	114			50.0
	Fipronil Desulfinyl	70.0	59.3	78.5			25.3
	Fipronil Sulfide	94.5	57.2	74.7			24.2
	Fipronil Sulfone	88.3	68.1	58.2			12.9
	Fluazifop-P-butyl	77.0	43.6	58.2			24.6
	Fludioxonil	72.8	65.1	68.5			5.10
	Flumioxazin	128	135	39.0			110
	Flutolanil	89.7	68.4	54.3			23.0
	Fluxapyroxad	82.2	46.4	23.7			64.8
	Fonofos	84.3	83.2	87.4			4.90
	Gamma-BHC	114	89.8	87.8			2.22
	Gamma-Chlordane	64.1	64.6	54.1			17.7
	Heptachlor	65.1	46.7	42.0			10.5
	Heptachlor Epoxide	62.2	78.3	79.7			1.72
	Hexabromobenzene	103	63.7	51.1			21.9
	Hexachlorobenzene	39.4	52.1	52.0			0.145

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Hexazinone	93.4	94.8	81.5			15.1
	Imazalil	97.4	61.8	60.6			2.01
	Iprodione	80.1	73.1	62.6			15.4
	Kepone	67.2	76.9	62.4			20.8
	Lambda-Cyhalothrin	63.0	37.4	51.6			31.9
	Loratadine	215	146	61.8			73.0
	Malathion	108	84.9	63.3			29.1
	Metalaxyl	89.7	81.8	82.6			1.05
	Methoprene	52.6	66.0	66.0			0.0864
	Methoxychlor	62.7	58.1	65.0			11.2
	Metolachlor	100	102	73.4			28.0
	Metribuzin	94.4	59.7	75.7			23.7
	Mevinphos	111	64.2	86.5			29.5
	MGK-264	81.5	96.2	102			6.30
	Mirex	52.0	34.7	42.8			20.8
	Molinate	59.4	67.0	61.4			8.71
	Myclobutanil	99.7	73.6	21.6			109
	Naled	47.9	44.4	51.0			13.8
	Napropamide	78.7	66.7	5.83			168
	Norflurazon	86.9	53.1	36.9			35.9
	Octinoxate	108	67.1	57.2			15.9
	Oxadiazon	84.7	96.8	57.2			51.5
	Oxybenzone	124	85.8	76.2			11.8
	Oxychlordane	60.8	64.6	55.1			15.9
	Oxyfluorfen	121	77.7	69.3			11.4
	Parathion Ethyl	96.4	96.7	79.6			19.4
	Parathion Methyl	72.0	112	86.2			26.1
	PBB-153	141	35.7	53.0			39.0
	PBDE-47	93.7	57.4	31.3			58.8
	PBDE-99	81.6	49.6	23.2			72.4
	PCB-1016	56.4	56.8	56.9			0.186
	PCB-1260	64.9	70.5	62.6			11.9
	Pendimethalin	66.2	93.6	74.1			23.2
	Pentabromotoluene	99.8	59.3	53.4			10.4
	Permethrin	65.5	49.3	51.6			4.39
	Phenothrin	50.9	32.9	40.1			19.5
	Phenytol	43.4	27.7	27.3			1.62
	Phorate	153	116	132			13.1
	Piperonyl Butoxide	95.2	60.4	85.9			34.9
	Prallethrin	67.7	76.8	69.1			10.5
	Prodimamine	35.1	32.8	34.3			4.24
	Prometon	103	104	111			6.67
	Prometryn	75.9	153	124			20.6
	Pronamide	110	99.8	84.4			16.8
	Propanil	129	128	133			4.18
	Propargite	67.4	48.1	33.9			34.8
	Propiconazole	48.9	46.0	43.0			6.82
	Pyraflufen Ethyl	83.0	77.6	41.4			60.8
	Pyridaben	144	105	73.5			35.5
	Pyriproxyfen	94.1	67.6	25.8			89.7
	Simazine	107	102	92.7			9.74
	Stirophos	26.4	59.4	16.9			112
	Sulfentrazone	41.7	77.8	34.2			64.4
	Tau-Fluvalinate	69.5	33.9	50.4			39.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Tebuconazole	46.4	36.7	8.04		128
	Terbufos	123	117	117		0.314
	Terbutylazine	86.4	70.8	55.3		22.9
	Tetradecachloro-m-terphenyl	98.4	69.7	51.5		30.1
	Tetramethrin	76.5	70.6	76.3		7.75
	Thiobencarb	90.8	76.2	56.6		29.5
	Trans-Nonachlor	66.1	66.0	64.4		2.45
	Tri-o-cresyl Phosphate	101	68.5	54.4		23.0
	Triadimefon	95.2	83.0	42.7		64.0
	Triclosan Methyl	59.3	58.8	53.8		8.80
	Trifluralin	53.2	51.3	64.5		22.8
	Tris(1-chloro-2-propyl) phosphate (TCPP)	132	97.3	104		6.72
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	101	60.9	76.3		22.4
	Tris(2-chloroethyl) phosphate (TCEP)	116	97.4	92.0		5.77
EPA 8276	Chlordane	76.5	91.2	81.8		10.8
	Toxaphene	88.0	96.8	97.7		0.915
EPA 8321B	2,4-D	71.2	108	107		1.44
	2,4,5-T	79.6	116	123		5.74
	3-Hydroxycarbofuran	43.2	56.2	25.8		74.2
	Acesulfame K	117	122	126		3.26
	Acesulfame K	112	146	145		0.966
	Acetaminophen	89.5	117	115		1.10
	Acetamiprid	106	30.9	52.2		51.2
	Afidopyropen	74.7	42.5	54.7		25.2
	Aldicarb	47.8	62.7	48.7		25.0
	Aldicarb Sulfone	86.2	90.9	85.6		6.03
	Aldicarb Sulfoxide	87.9	30.6	25.0		20.2
	AMPA	129	101	106		4.72
	AMPA	79.3	56.3	57.5		2.06
	Bentazon	111	61.3	61.5		0.269
	Benzovindiflupyr	96.1	97.0	93.2		3.92
	Carbamazepine	93.2	70.9	66.1		7.00
	Carbaryl	63.7	67.8	63.5		6.52
	Carbofuran	76.5	63.7	59.5		6.82
	Clothianidin	102	97.0	99.9		3.01
	Dinotefuran	96.4	70.8	69.2		2.31
	Diuron	84.8	56.8	57.4		1.18
	Endothall	92.7	90.8	93.2		2.60
	Endothall	102	148	149		0.960
	Fenuron	106	53.1	53.9		1.61
	Fluridone	89.6	69.7	66.4		4.83
	Glufosinate	96.1	87.8	82.4		6.29
	Glufosinate	102	97.0	105		8.05
	Glyphosate	71.8	68.9	66.1		4.11
	Glyphosate	104	134	94.1		30.0
	Hydrocodone	110	70.8	72.5		2.39
	Ibuprofen	78.7	79.8	71.2		11.3
	Imazapyr	77.2	69.2	68.8		0.579
	Imidacloprid	89.3	119	114		4.62
	Linuron	78.2	63.0	69.1		9.16
	Mandestrobin	105	103	96.6		5.94

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8321B	MCCP	87.5	127	120		5.99
	Methiocarb	65.3	71.2	61.1		15.3
	Methomyl	82.1	72.0	70.3		2.41
	Naproxen	55.3	88.4	84.3		4.80
	Oxamyl	90.8	78.4	76.1		2.95
	Primidone	94.4	80.5	81.8		1.61
	Propoxur	85.9	66.8	62.8		6.14
	Pyraclostrobin	95.2	94.6	92.1		2.72
	Silvex	80.9	122	123		0.987
	Sucralose	123	125	123		1.79
	Sucralose	93.7				20.8
	Thiamethoxam	104	86.9	86.1		0.908
	Tolfenpyrad	60.0	60.4	56.0		7.54
	Triclopyr	84.0	125	124		0.682

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	2433703, 2433704, 2433705, 2433706
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2433703, 2433704, 2433705, 2433706
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2433702
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2433701
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2433702
EPA 8270E	PCBs in water matrices by GC/MS/MS	2433701
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2433701
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2433691
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2433688, 2433689, 2433690, 2433692
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2433703, 2433704, 2433705, 2433706

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	08/25/2023	08/28/2023 13:25	George D Taylor	08/29/2023 14:28	Samatha Luckman	2433703
	08/25/2023	08/28/2023 13:25	George D Taylor	08/29/2023 14:36	Samatha Luckman	2433704
	08/25/2023	08/28/2023 13:25	George D Taylor	08/29/2023 14:43	Samatha Luckman	2433705
	08/25/2023	08/28/2023 13:25	George D Taylor	08/29/2023 14:51	Samatha Luckman	2433706
	08/25/2023	08/28/2023 13:25	George D Taylor	08/29/2023 14:59	Samatha Luckman	2433706
EPA 200.8 Rev. 5.4	08/25/2023	08/28/2023 13:25	George D Taylor	08/29/2023 17:02	Emily M Philpot	2433703
	08/25/2023	08/28/2023 13:25	George D Taylor	08/29/2023 17:11	Emily M Philpot	2433704
	08/25/2023	08/28/2023 13:25	George D Taylor	08/29/2023 17:21	Emily M Philpot	2433705
	08/25/2023	08/28/2023 13:25	George D Taylor	08/29/2023 17:31	Emily M Philpot	2433706
	08/25/2023	08/28/2023 08:00	Fe-Val Siddell	08/29/2023 17:59	Vandana T. Nagar	2433702
EPA 8270E	08/25/2023	08/28/2023 08:00	Fe-Val Siddell	09/02/2023 23:04	Arthur Maknenko	2433702
	08/25/2023	08/29/2023 08:00	Fe-Val Siddell	09/05/2023 21:59	Vandana T. Nagar	2433701
EPA 8276	08/25/2023	08/29/2023 08:00	Fe-Val Siddell	09/07/2023 02:20	Lipi Saha	2433701
	08/25/2023	08/29/2023 08:00	Fe-Val Siddell	09/06/2023 14:42	Arthur Maknenko	2433701
EPA 8321B	08/25/2023	08/25/2023 11:00	Hana Lee	08/25/2023 12:13	Tae K Lee	2433688
	08/25/2023	08/25/2023 11:00	Hana Lee	08/25/2023 12:26	Tae K Lee	2433689
	08/25/2023	08/25/2023 11:00	Hana Lee	08/25/2023 23:00	Tae K Lee	2433688
	08/25/2023	08/25/2023 11:00	Hana Lee	08/25/2023 23:14	Tae K Lee	2433689
	08/25/2023	08/28/2023 09:00	Hoor Shaik	08/29/2023 20:44	Juyoung Kim	2433691
	08/25/2023	08/29/2023 09:00	Hoor Shaik	09/02/2023 12:13	Juyoung Kim	2433688
	08/25/2023	08/29/2023 09:00	Hoor Shaik	09/02/2023 12:49	Juyoung Kim	2433689
	08/25/2023	08/29/2023 09:00	Hoor Shaik	09/02/2023 13:07	Juyoung Kim	2433690
	08/25/2023	08/29/2023 09:00	Hoor Shaik	09/02/2023 13:24	Juyoung Kim	2433692
	08/25/2023	08/29/2023 09:00	Hoor Shaik	09/05/2023 13:01	Juyoung Kim	2433689
	08/25/2023	08/29/2023 09:00	Hoor Shaik	09/05/2023 13:19	Juyoung Kim	2433690
	08/25/2023	08/29/2023 12:00	Tae K Lee	08/29/2023 14:56	Hana Lee	2433690
	08/25/2023	08/29/2023 12:00	Tae K Lee	08/29/2023 15:09	Hana Lee	2433692
	08/25/2023	08/29/2023 12:00	Tae K Lee	08/30/2023 10:25	Hana Lee	2433690
	08/25/2023	08/29/2023 12:00	Tae K Lee	08/30/2023 10:39	Hana Lee	2433692
	08/25/2023	08/29/2023 12:00	Tae K Lee	08/30/2023 18:36	Hana Lee	2433690
SM 2340 B-2011	08/25/2023			08/29/2023 14:28	Samatha Luckman	2433703
	08/25/2023			08/29/2023 14:36	Samatha Luckman	2433704
	08/25/2023			08/29/2023 14:43	Samatha Luckman	2433705
	08/25/2023			08/29/2023 14:51	Samatha Luckman	2433706