

Chemical Analysis Report

SW-DIST-2023-03-16-02

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

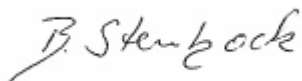
Event Description: **Run 12**
Request ID: **RQ-2023-03-27-09**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

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

Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 05-APR-2023 13:01



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: Seffner Canal S. of MLK

Collection Date/Time: 03/15/2023 09:40

Field ID: G2SW0087

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394403	EPA 200.7 Rev. 4.4	Barium	4.2		ug/L	P427307	
		Calcium	33.5		mg/L	P427307	
		Iron	210		ug/L	P427307	
		Magnesium	8.63		mg/L	P427307	
		Sodium	16.0		mg/L	P427307	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P427307	
		Aluminum	137		ug/L	P427307	
		Antimony	0.18	I	ug/L	P427307	
		Arsenic	0.86		ug/L	P427307	
		Boron	72.0		ug/L	P427307	
		Cadmium	0.210		ug/L	P427307	
		Chromium	0.82	I	ug/L	P427307	
		Copper	2.98		ug/L	P427307	
		Lead	0.31	I	ug/L	P427307	
		Nickel	1.2	I	ug/L	P427307	
		Selenium	0.25	I	ug/L	P427307	
		Silver	0.011	I	ug/L	P427307	
		Thallium	0.10	U	ug/L	P427307	
	SM 2340 B-2011	Hardness	119		mg/L	P427307	

Sample Location: East Canal @ Knights Griffen Rd

Collection Date/Time: 03/15/2023 10:40

Field ID: G2SW0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394404	EPA 200.7 Rev. 4.4	Barium	10.6		ug/L	P427307	
		Calcium	75.9		mg/L	P427307	
		Iron	250		ug/L	P427307	
		Magnesium	12.0		mg/L	P427307	
		Sodium	119		mg/L	P427307	
		Zinc	25		ug/L	P427307	
	EPA 200.8 Rev. 5.4	Aluminum	17	I	ug/L	P427307	
		Antimony	0.40		ug/L	P427307	
		Arsenic	0.28		ug/L	P427307	
		Boron	234		ug/L	P427307	
		Cadmium	0.020	U	ug/L	P427307	
		Chromium	0.59	I	ug/L	P427307	
		Copper	0.43	I	ug/L	P427307	
		Lead	0.20	U	ug/L	P427307	
		Nickel	0.82	I	ug/L	P427307	
		Selenium	0.25	I	ug/L	P427307	
		Silver	0.010	U	ug/L	P427307	
		Thallium	0.10	U	ug/L	P427307	
	SM 2340 B-2011	Hardness	239		mg/L	P427307	

Sample Location: English Creek @ S. County Line Rd

Collection Date/Time: 03/15/2023 11:10

Field ID: G2SW0169

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394401	EPA 8321B	2,4-D	0.0068	I	ug/L	P427187	
		Acesulfame K	0.10	U	ug/L	P427212	
		2,4,5-T	0.0040	U	ug/L	P427187	
		AMPA	0.73		ug/L	P427212	
		Acetaminophen	0.0080	U	ug/L	P427187	
		Acetamiprid	0.046		ug/L	P427187	
		Endothall	0.25	U	ug/L	P427212	
		Glufosinate	0.10	U	ug/L	P427212	
		Glyphosate	3.2		ug/L	P427212	
		Afidopyropen	0.0020	U	ug/L	P427187	
		Bentazon	0.0021	I	ug/L	P427187	
		Sucralose	0.40		ug/L	P427212	
		Benzovindiflupyr	0.0020	U	ug/L	P427187	
		Carbamazepine	8.0E-04	U	ug/L	P427187	
		Clothianidin	0.017		ug/L	P427187	
		Dinotefuran	0.0035	I	ug/L	P427187	
		Diuron	0.0026	I	ug/L	P427187	
		Fenuron	0.032	U	ug/L	P427187	
		Fluridone	8.0E-04	U	ug/L	P427187	
		Imazapyr	0.11		ug/L	P427187	
		Hydrocodone	0.0020	U	ug/L	P427187	
		Ibuprofen	0.080	U	ug/L	P427187	
		Imidacloprid	0.016		ug/L	P427187	
		Linuron	0.0040	U	ug/L	P427187	
		Mandestrobin	0.0020	U	ug/L	P427187	
		MCPP	0.0020	U	ug/L	P427187	
		Naproxen	0.0080	U	ug/L	P427187	
		Primidone	0.0040	U	ug/L	P427187	
		Pyraclostrobin	0.0028	I	ug/L	P427187	
		Silvex	0.0040	U	ug/L	P427187	
		Thiamethoxam	0.012		ug/L	P427187	
		Tolfenpyrad	0.0020	U	ug/L	P427187	
		Triclopyr	0.0040	U	ug/L	P427187	

Sample Location: Howell Branch in Bealsville Park

Collection Date/Time: 03/15/2023 11:35

Field ID: G2SW0115

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394412	EPA 8270E	Oxybenzone**	10	U	ng/L	P427316	
		Acetochlor	0.21	U	ng/L	P427316	
		Octinoxate**	21	U	ng/L	P427316	
		Alachlor	0.42	U	ng/L	P427316	
		Avobenzone**	100	U	ng/L	P427316	
		Ametryn	1.2	U	ng/L	P427316	
		Atrazine	44		ng/L	P427316	MS
		PBDE-47**	4.2	U	ng/L	P427316	
		Atrazine Desethyl	2.3	I	ng/L	P427316	
		PBDE-99**	5.2	U	ng/L	P427316	
		Azinphos Methyl	3.1	U	ng/L	P427316	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P427316	
		Azoxystrobin	70		ng/L	P427316	
		Bromacil	130		ng/L	P427316	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P427316	
		Butylate	0.21	U	ng/L	P427316	
		Dechlorane Plus**	31	U	ng/L	P427316	MS
		Caffeine**	19	I	ng/L	P427316	
		Dechlorane 602**	5.2	U	ng/L	P427316	
		Carbophenothion	0.52	U	ng/L	P427316	
		Dechlorane 603**	4.2	U	ng/L	P427316	
		Carfentrazone Ethyl	0.16	U	ng/L	P427316	
		Hexabromobenzene**	6.3	U	ng/L	P427316	
		Chlorfenapyr	0.31	U	ng/L	P427316	MS
		PBB-153**	8.4	U	ng/L	P427316	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P427316	
		Pentabromotoluene**	3.1	U	ng/L	P427316	
		Chlorpyrifos Methyl	0.10	U	ng/L	P427316	MS
		Tris(2-chloroethyl) phosphate (TCEP)**	73	U	ng/L	P427316	
		Coumaphos	1.1	U	ng/L	P427316	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	16	U	ng/L	P427316	
		Cyanazine	5.2	U	ng/L	P427316	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	8.7		ng/L	P427316	
		Cyprodinil	16		ng/L	P427316	
		Tetradecachloro-m-terphenyl**	7.9	U	ng/L	P427316	MS
		Demeton	3.7	U	ng/L	P427316	
		Diazinon	73		ng/L	P427316	
		Difenoconazole	7.9		ng/L	P427316	
		Dimethenamid	0.10	U	ng/L	P427316	
		Dimethomorph	0.31	U	ng/L	P427316	
		Disulfoton	0.63	U	ng/L	P427316	
		Dithiopyr	1.3	I	ng/L	P427316	

Field ID: G2SW0115

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394412	EPA 8270E	EPTC	0.52	U	ng/L	P427316	
		Ethion	0.31	U	ng/L	P427316	
		Ethoprop	0.13	UJ	ng/L	P427316	LCS, MS
		Etridiazole	0.10	U	ng/L	P427316	
		Fenamiphos	0.47	U	ng/L	P427316	
		Fenbuconazole	0.52	U	ng/L	P427316	
		Fipronil	1.2		ng/L	P427316	
		Fipronil Desulfinyl**	1.2		ng/L	P427316	MS
		Fipronil Sulfide	1.6		ng/L	P427316	
		Fipronil Sulfone	2.2		ng/L	P427316	
		Fluazifop-P-butyl	0.10	U	ng/L	P427316	
		Fludioxonil	34		ng/L	P427316	
		Flumioxazin	3.1	U	ng/L	P427316	
		Flutolanil	2.6		ng/L	P427316	
		Fluxapyroxad	0.26	U	ng/L	P427316	
		Fonofos	0.16	U	ng/L	P427316	
		Hexazinone	0.52	U	ng/L	P427316	
		Imazalil	0.68	U	ng/L	P427316	
		Iprodione	0.90	I	ng/L	P427316	
		Loratadine**	0.31	U	ng/L	P427316	
		Malathion	0.37	U	ng/L	P427316	
		Metalaxyl	6.1		ng/L	P427316	
		Metolachlor	1.2	I	ng/L	P427316	
		Metribuzin	0.42	U	ng/L	P427316	
		Mevinphos	1.0	U	ng/L	P427316	
		Molinate	0.26	U	ng/L	P427316	
		Myclobutanil	25		ng/L	P427316	
		Naled	2.6	U	ng/L	P427316	
		Napropamide	0.73	U	ng/L	P427316	
		Norflurazon	2.2	I	ng/L	P427316	
		Oxadiazon	0.65	I	ng/L	P427316	
		Oxyfluorfen	2.0		ng/L	P427316	
		Parathion Ethyl	0.16	U	ng/L	P427316	MS
		Parathion Methyl	0.21	U	ng/L	P427316	
		Pendimethalin	0.79	U	ng/L	P427316	
		Phenytol**	5.6	U	ng/L	P427316	
		Phorate	0.26	U	ng/L	P427316	
		Prodiamine	3.8		ng/L	P427316	
		Prometon	3.1	U	ng/L	P427316	
		Prometryn	0.37	U	ng/L	P427316	
		Pronamide	0.10	U	ng/L	P427316	
		Propanil	0.10	U	ng/L	P427316	
		Propargite	0.84	U	ng/L	P427316	
		Propiconazole	3.1	I	ng/L	P427316	
		Pyraflufen Ethyl	0.31	U	ng/L	P427316	

Field ID: G2SW0115

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2394412	EPA 8270E	Pyridaben	1.5	U	ng/L	P427316	MS
		Pyriproxyfen	0.26	U	ng/L	P427316	
		Simazine	0.26	U	ng/L	P427316	
		Stirophos	0.42	U	ng/L	P427316	
		Sulfentrazone	9.5		ng/L	P427316	
		Tebuconazole	1.5	U	ng/L	P427316	
		Terbufos	0.21	U	ng/L	P427316	
		Terbuthylazine	0.21	U	ng/L	P427316	
		Thiobencarb	0.52	U	ng/L	P427316	
		Triadimefon	0.16	U	ng/L	P427316	

Ref. Method and Comment:
EPA 8270E: 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: P427307

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P427307

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	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: P427316

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427316

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427316

Component	Result	Code	Units
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
Metaxyl	0.50	U	ng/L
Metaxyl	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
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427316

Component	Result	Code	Units
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
Stirophos	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427316

Component	Result	Code	Units
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 8321B

Batch ID: P427187

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: P427212

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P427212

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P427307

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	101		P	85 - 115
Calcium	105		P	85 - 115
Iron	106		P	85 - 115
Magnesium	102		P	85 - 115
Sodium	99.9		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P427307

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	102		P	85 - 115
Boron	100		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	101		P	85 - 115
Copper	99.5		P	85 - 115
Lead	97.6		P	85 - 115
Nickel	101		P	85 - 115
Selenium	103		P	85 - 115
Silver	99.8		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 8270E

Batch ID: P427316

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	118		P	42 - 162
Acetochlor	118		P	69 - 123
Alachlor	102		P	65 - 118
Ametryn	74.4		P	58 - 141
Atrazine	86.7		P	73 - 118
Atrazine Desethyl	86.1		P	32 - 125
Avobenzone	153		P	40 - 203
Azinphos Methyl	78.9		P	36 - 197
Azoxystrobin	88.9		P	58 - 226
Bromacil	107		P	48 - 120
Butylate	29.5		P	27 - 85.0
Caffeine	90.1		P	40 - 137
Carbophenothion	92.1		P	54 - 132
Carfentrazone Ethyl	115		P	60 - 142
Chlorfenapyr	59.4		P	53 - 117
Chlorpyrifos Ethyl	72.9		P	59 - 116
Chlorpyrifos Methyl	86.4		P	66 - 119
Coumaphos	130		P	11 - 234
Cyanazine	165		P	61 - 248
Cyprodinil	71.7		P	50 - 147
Dechlorane 602	111		P	50 - 150
Dechlorane 603	111		P	50 - 150
Dechlorane Plus	92.1		P	47 - 182
Demeton	45.2		P	30 - 138

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P427316

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Diazinon	126		P	67 - 126
Difenoconazole	71.1		P	38 - 205
Dimethenamid	107		P	57 - 111
Dimethomorph	97.8		P	16 - 212
Disulfoton	94.6		P	46 - 126
Dithiopyr	96.6		P	62 - 115
EPTC	30.6		P	28 - 80.0
Ethion	67.2		P	24 - 122
Ethoprop	143		F	62 - 113
Etridiazole	43.9		P	28 - 92.0
Fenamiphos	79.6		P	57 - 128
Fenbuconazole	86.7		P	52 - 155
Fipronil	93.5		P	63 - 130
Fipronil Desulfinyl	77.9		P	61 - 130
Fipronil Sulfide	74.2		P	56 - 117
Fipronil Sulfone	99.8		P	52 - 118
Fluazifop-P-butyl	98.2		P	61 - 128
Fludioxonil	125		P	59 - 129
Flumioxazin	183		P	30 - 250
Flutolanil	87.5		P	53 - 127
Fluxapyroxad	54.3		P	42 - 132
Fonofos	80.1		P	61 - 110
Hexabromobenzene	127		P	50 - 150
Hexazinone	99.5		P	46 - 139
Imazalil	72.1		P	40 - 139
Iprodione	75.8		P	40 - 146
Loratadine	53.7		P	10 - 224
Malathion	95.2		P	61 - 135
Metaxyl	98.1		P	58 - 121
Metolachlor	103		P	64 - 118
Metribuzin	88.4		P	45 - 245
Mevinphos	104		P	49 - 118
Molinate	47.4		P	42 - 92.0
Myclobutanil	126		P	55 - 127
Naled	47.3		P	10 - 114
Napropamide	74.8		P	39 - 121
Norflurazon	99.0		P	55 - 129
Octinoxate	107		P	26 - 166
Oxadiazon	97.6		P	54 - 115
Oxybenzone	121		P	49 - 135
Oxyfluorfen	95.6		P	64 - 139
Parathion Ethyl	96.8		P	70 - 111
Parathion Methyl	109		P	76 - 136
PBB-153	131		P	50 - 150
PBDE-47	123		P	41 - 148
PBDE-99	126		P	38 - 147
Pendimethalin	113		P	52 - 118
Pentabromotoluene	110		P	50 - 150
Phenytoin	107		P	10 - 162
Phorate	78.0		P	40 - 122
Prodiamine	70.2		P	26 - 141
Prometon	89.9		P	54 - 122

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P427316

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prometryn	93.3		P	61 - 128
Pronamide	110		P	72 - 121
Propanil	96.5		P	45 - 144
Propargite	64.3		P	10 - 199
Propiconazole	86.8		P	56 - 127
Pyraflufen Ethyl	88.6		P	56 - 140
Pyridaben	144		P	26 - 211
Pyriproxyfen	46.6		P	33 - 194
Simazine	90.8		P	67 - 121
Stiophos	27.8		P	20 - 142
Sulfentrazone	124		P	21 - 144
Tebuconazole	79.2		P	10 - 122
Terbufos	96.3		P	60 - 129
Terbuthylazine	81.7		P	69 - 113
Tetradecachloro-m-terphenyl	108		P	70 - 200
Thiobencarb	95.6		P	51 - 120
Tri-o-cresyl Phosphate	123		P	49 - 150
Triadimefon	82.2		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	139		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	116		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	129		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P427187

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	99.8		P	40 - 150
2,4,5-T	105		P	40 - 150
Acetaminophen	93.7		P	30 - 150
Acetamiprid	86.9		P	40 - 150
Afidopyropen	69.4		P	30 - 150
Bentazon	93.1		P	30 - 150
Benzovindiflupyr	83.3		P	40 - 150
Carbamazepine	92.9		P	40 - 150
Clothianidin	92.9		P	40 - 150
Dinotefuran	97.3		P	40 - 150
Diuron	81.1		P	40 - 150
Fenuron	91.2		P	40 - 150
Fluridone	73.4		P	40 - 150
Hydrocodone	99.7		P	40 - 150
Ibuprofen	72.1		P	40 - 150
Imazapyr	95.8		P	40 - 150
Imidacloprid	86.2		P	40 - 150
Linuron	75.5		P	40 - 150
Mandestrobin	85.9		P	40 - 150
MCPP	104		P	40 - 150
Naproxen	97.3		P	40 - 150
Primidone	83.1		P	40 - 150
Pyraclostrobin	74.4		P	40 - 150
Silvex	99.0		P	40 - 150
Thiamethoxam	92.8		P	40 - 150
Tolfenpyrad	49.7		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P427187

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	92.6		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P427212

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	96.8		P	40 - 150
AMPA	136		P	40 - 150
Endothall	96.2		P	40 - 150
Glufosinate	98.1		P	40 - 150
Glyphosate	126		P	40 - 150
Sucralose	99.9		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P427307

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393776	Barium	108	102	P/P	80 - 120
2393776	Calcium	102		P	80 - 120
2393776	Iron	112	105	P/P	80 - 120
2393776	Magnesium	109	98.5	P/P	80 - 120
2393776	Sodium	108	98.2	P/P	80 - 120
2393776	Zinc	105	99.0	P/P	80 - 120
2394382	Barium	108		P	80 - 120
2394382	Calcium	106		P	80 - 120
2394382	Iron	114		P	80 - 120
2394382	Magnesium	116		P	80 - 120
2394382	Sodium	109		P	80 - 120
2394382	Zinc	104		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P427307

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393776	Aluminum	98.9	98.0	P/P	80 - 120
2393776	Antimony	99.5	99.1	P/P	80 - 120
2393776	Arsenic	99.9	99.1	P/P	80 - 120
2393776	Boron	99.5	98.3	P/P	80 - 120
2393776	Cadmium	102	101	P/P	80 - 120
2393776	Chromium	99.6	99.1	P/P	80 - 120
2393776	Copper	98.6	97.8	P/P	80 - 120
2393776	Lead	97.6	95.7	P/P	80 - 120
2393776	Nickel	99.0	98.5	P/P	80 - 120
2393776	Selenium	101	101	P/P	80 - 120
2393776	Silver	99.2	98.7	P/P	80 - 120
2393776	Thallium	102	101	P/P	80 - 120
2394382	Aluminum	99.8		P	80 - 120
2394382	Antimony	100		P	80 - 120
2394382	Arsenic	99.4		P	80 - 120
2394382	Boron	100		P	80 - 120
2394382	Cadmium	100		P	80 - 120
2394382	Chromium	99.3		P	80 - 120
2394382	Copper	98.5		P	80 - 120
2394382	Lead	97.2		P	80 - 120
2394382	Nickel	99.4		P	80 - 120
2394382	Selenium	102		P	80 - 120
2394382	Silver	98.1		P	80 - 120
2394382	Thallium	101		P	80 - 120

Reference Method: EPA 8270E

Batch ID: P427316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394346	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	72.4	74.5	P/P	26 - 165
2394346	Acetochlor	82.2	86.0	P/P	67 - 124
2394346	Alachlor	73.5	70.2	P/P	60 - 120
2394346	Ametryn	64.8	63.0	P/P	54 - 216
2394346	Atrazine	63.8	57.0	F/F	66 - 128
2394346	Atrazine Desethyl	60.9	65.5	P/P	15 - 122

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P427316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394346	Avobenzone	86.4	102	P/P	37 - 178
2394346	Azinphos Methyl	74.3	60.2	P/P	40 - 292
2394346	Azoxystrobin	70.1	68.3	P/P	35 - 220
2394346	Bromacil	72.9	84.7	P/P	45 - 127
2394346	Butylate	27.9	28.7	P/P	20 - 83.0
2394346	Caffeine	57.1	110	P/P	10 - 194
2394346	Carbophenothion	61.2	57.7	P/P	57 - 127
2394346	Carfentrazone Ethyl	68.9	63.0	P/P	51 - 141
2394346	Chlorfenapyr	43.2	42.0	F/F	46 - 111
2394346	Chlorpyrifos Ethyl	52.8	52.8	P/P	52 - 120
2394346	Chlorpyrifos Methyl	59.0	61.4	F/F	63 - 119
2394346	Coumaphos	75.3	80.4	P/P	10 - 228
2394346	Cyanazine	140	130	P/P	59 - 241
2394346	Cyprodinil	61.2	50.0	P/P	47 - 146
2394346	Dechlorane 602	64.0	64.3	P/P	50 - 150
2394346	Dechlorane 603	64.2	65.2	P/P	50 - 150
2394346	Dechlorane Plus	49.6	48.8	F/F	50 - 150
2394346	Demeton	43.4	42.4	P/P	40 - 136
2394346	Diazinon	99.9	92.0	P/P	69 - 132
2394346	Difenoconazole	71.8	73.2	P/P	57 - 258
2394346	Dimethenamid	74.3	87.9	P/P	54 - 110
2394346	Dimethomorph	119	99.1	P/P	28 - 210
2394346	Disulfoton	84.4	77.4	P/P	43 - 133
2394346	Dithiopyr	62.3	70.1	P/P	39 - 116
2394346	EPTC	24.7	33.6	P/P	20 - 78.0
2394346	Ethion	40.9	40.2	P/P	17 - 119
2394346	Ethoprop	129	119	F/P	66 - 120
2394346	Etridiazole	38.2	42.7	P/P	28 - 96.0
2394346	Fenamiphos	59.6	70.4	P/P	41 - 126
2394346	Fenbuconazole	64.1	45.9	P/P	42 - 169
2394346	Fipronil	73.5	72.4	P/P	61 - 132
2394346	Fipronil Desulfinyl	54.6	60.1	F/P	56 - 132
2394346	Fipronil Sulfide	57.7	55.8	P/P	48 - 119
2394346	Fipronil Sulfone	59.0	70.4	P/P	42 - 131
2394346	Fluazifop-P-butyl	61.7	79.1	P/P	53 - 131
2394346	Fludioxonil	87.2	90.1	P/P	56 - 127
2394346	Flumioxazin	130	124	P/P	19 - 300
2394346	Flutolanil	52.5	60.6	P/P	41 - 127
2394346	Fluxapyroxad	56.2	49.6	P/P	42 - 172
2394346	Fonofos	64.4	66.0	P/P	59 - 113
2394346	Hexabromobenzene	92.6	85.8	P/P	50 - 150
2394346	Hexazinone	83.9	80.0	P/P	66 - 122
2394346	Imazalil	63.9	83.1	P/P	21 - 283
2394346	Iprodione	82.6	73.1	P/P	43 - 150
2394346	Loratadine	77.5	54.5	P/P	23 - 201
2394346	Malathion	65.9	71.2	P/P	58 - 136
2394346	Metalaxyl	55.9	69.0	P/P	55 - 120
2394346	Metolachlor	57.6	57.1	P/P	57 - 121
2394346	Metribuzin	69.2	68.5	P/P	58 - 294
2394346	Mevinphos	97.5	92.8	P/P	50 - 126
2394346	Molinate	43.6	46.4	P/P	42 - 93.0
2394346	Myclobutanil	88.5	89.2	P/P	55 - 125

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P427316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2394346	Naled	39.7	46.7	P/P	18 - 200
2394346	Napropamide	46.9	50.7	P/P	39 - 110
2394346	Norflurazon	64.1	63.1	P/P	48 - 128
2394346	Octinoxate	84.5	78.9	P/P	21 - 159
2394346	Oxadiazon	71.1	70.9	P/P	43 - 112
2394346	Oxybenzone	90.6	81.8	P/P	41 - 142
2394346	Oxyfluorfen	77.9	74.3	P/P	64 - 153
2394346	Parathion Ethyl	72.0	65.5	P/F	69 - 114
2394346	Parathion Methyl	80.6	82.2	P/P	79 - 139
2394346	PBB-153	68.9	72.1	P/P	50 - 150
2394346	PBDE-47	82.4	82.4	P/P	27 - 144
2394346	PBDE-99	72.5	78.0	P/P	18 - 150
2394346	Pendimethalin	108	104	P/P	50 - 139
2394346	Pentabromotoluene	85.0	81.1	P/P	50 - 150
2394346	Phenytoin	42.8	53.3	P/P	10 - 146
2394346	Phorate	141	115	P/P	54 - 161
2394346	Prodiamine	56.6	51.2	P/P	30 - 161
2394346	Prometon	76.9	68.1	P/P	45 - 134
2394346	Prometryn	69.5	82.4	P/P	45 - 137
2394346	Pronamide	96.9	103	P/P	65 - 133
2394346	Propanil	67.0	76.9	P/P	49 - 142
2394346	Propargite	33.4	41.9	P/P	10 - 203
2394346	Propiconazole	60.9	56.5	P/P	38 - 146
2394346	Pyraflufen Ethyl	62.2	50.4	P/P	34 - 153
2394346	Pyridaben	97.7	114	P/P	12 - 192
2394346	Pyriproxyfen	31.3	31.0	F/F	33 - 180
2394346	Simazine	73.2	76.1	P/P	51 - 157
2394346	Stirophos	27.3	33.2	P/P	10 - 128
2394346	Sulfentrazone	68.6	62.3	P/P	53 - 186
2394346	Tebuconazole	47.4	50.6	P/P	10 - 133
2394346	Terbufos	97.9	82.6	P/P	65 - 139
2394346	Terbutylazine	74.7	77.3	P/P	66 - 117
2394346	Tetradecachloro-m-terphenyl	63.7	59.8	F/F	70 - 200
2394346	Thiobencarb	63.5	70.3	P/P	51 - 119
2394346	Tri-o-cresyl Phosphate	82.5	82.7	P/P	31 - 144
2394346	Triadimefon	61.9	56.4	P/P	48 - 119
2394346	Tris(1-chloro-2-propyl) phosphate (TCPP)	106	92.4	P/P	50 - 150
2394346	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	86.3	87.5	P/P	50 - 150
2394346	Tris(2-chloroethyl) phosphate (TCEP)	93.8	83.3	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P427187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393469	2,4-D	108	107	P/P	40 - 150
2393469	2,4,5-T	103	114	P/P	40 - 150
2393469	Acetaminophen	96.7	90.7	P/P	30 - 150
2393469	Acetamiprid	75.5	80.2	P/P	40 - 150
2393469	Afidopyrophen	71.6	62.4	P/P	30 - 150
2393469	Bentazon	60.8	66.5	P/P	30 - 150
2393469	Benzovindiflupyr	78.7	82.1	P/P	40 - 150
2393469	Carbamazepine	69.7	75.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P427187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393469	Clothianidin	106	103	P/P	40 - 150
2393469	Dinotefuran	99.2	99.0	P/P	40 - 150
2393469	Diuron	62.2	67.5	P/P	40 - 150
2393469	Fenuron	68.6	71.9	P/P	40 - 150
2393469	Fluridone	76.8	62.8	P/P	40 - 150
2393469	Hydrocodone	95.2	95.3	P/P	40 - 150
2393469	Ibuprofen	60.7	72.3	P/P	40 - 150
2393469	Imazapyr	121	102	P/P	40 - 150
2393469	Imidacloprid	138	136	P/P	40 - 150
2393469	Linuron	77.1	71.5	P/P	40 - 150
2393469	Mandestrobin	84.4	85.2	P/P	40 - 150
2393469	MCPD	115	116	P/P	40 - 150
2393469	Naproxen	74.3	59.0	P/P	40 - 150
2393469	Primidone	96.6	93.5	P/P	40 - 150
2393469	Pyraclostrobin	77.9	76.0	P/P	40 - 150
2393469	Silvex	122	108	P/P	40 - 150
2393469	Thiamethoxam	111	113	P/P	40 - 150
2393469	Tolfenpyrad	49.7	51.9	P/P	30 - 150
2393469	Triclopyr	111	111	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P427212

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393680	Acesulfame K	101	99.4	P/P	40 - 150
2393680	AMPA	89.6	83.5	P/P	40 - 150
2393680	Endothall	100	98.2	P/P	40 - 150
2393680	Glufosinate	72.6	71.3	P/P	40 - 150
2393680	Glyphosate	119	105	P/P	40 - 150
2393680	Sucralose	90.6	95.2	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P427307

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393776	Barium	6.09	Spike	P	0 - 20
2393776	Calcium	6.47	Spike	P	0 - 20
2393776	Iron	6.85	Spike	P	0 - 20
2393776	Magnesium	7.10	Spike	P	0 - 20
2393776	Sodium	6.04	Spike	P	0 - 20
2393776	Zinc	5.70	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P427307

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393776	Aluminum	0.861	Spike	P	0 - 20
2393776	Antimony	0.381	Spike	P	0 - 20
2393776	Arsenic	0.861	Spike	P	0 - 20
2393776	Boron	1.14	Spike	P	0 - 20
2393776	Cadmium	0.694	Spike	P	0 - 20
2393776	Chromium	0.403	Spike	P	0 - 20
2393776	Copper	0.858	Spike	P	0 - 20
2393776	Lead	1.96	Spike	P	0 - 20
2393776	Nickel	0.547	Spike	P	0 - 20
2393776	Selenium	0.631	Spike	P	0 - 20
2393776	Silver	0.507	Spike	P	0 - 20
2393776	Thallium	0.952	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P427316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394346	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	2.83	Spike	P	0 - 37
2394346	Acetochlor	4.45	Spike	P	0 - 28
2394346	Alachlor	4.57	Spike	P	0 - 30
2394346	Ametryn	2.71	Spike	P	0 - 32
2394346	Atrazine	7.51	Spike	P	0 - 41
2394346	Atrazine Desethyl	7.20	Spike	P	0 - 36
2394346	Avobenzene	16.9	Spike	P	0 - 36
2394346	Azinphos Methyl	20.9	Spike	P	0 - 75
2394346	Azoxystrobin	2.60	Spike	P	0 - 39
2394346	Bromacil	14.9	Spike	P	0 - 33
2394346	Butylate	2.96	Spike	P	0 - 44
2394346	Caffeine	53.1	Spike	P	0 - 74
2394346	Carbophenothion	5.95	Spike	P	0 - 25
2394346	Carfentrazone Ethyl	8.95	Spike	P	0 - 27
2394346	Chlorfenapyr	2.96	Spike	P	0 - 24
2394346	Chlorpyrifos Ethyl	0.0163	Spike	P	0 - 26
2394346	Chlorpyrifos Methyl	3.94	Spike	P	0 - 26
2394346	Coumaphos	6.57	Spike	P	0 - 28
2394346	Cyanazine	7.12	Spike	P	0 - 48
2394346	Cyprodinil	20.1	Spike	P	0 - 29
2394346	Dechlorane 602	0.426	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P427316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394346	Dechlorane 603	1.50	Spike	P	0 - 30
2394346	Dechlorane Plus	1.53	Spike	P	0 - 30
2394346	Demeton	2.25	Spike	P	0 - 33
2394346	Diazinon	7.47	Spike	P	0 - 29
2394346	Difenoconazole	1.91	Spike	P	0 - 34
2394346	Dimethenamid	16.8	Spike	P	0 - 39
2394346	Dimethomorph	17.9	Spike	P	0 - 51
2394346	Disulfoton	8.73	Spike	P	0 - 30
2394346	Dithiopyr	11.7	Spike	P	0 - 26
2394346	EPTC	30.5	Spike	P	0 - 43
2394346	Ethion	1.84	Spike	P	0 - 79
2394346	Ethoprop	8.16	Spike	P	0 - 29
2394346	Etridiazole	11.0	Spike	P	0 - 33
2394346	Fenamiphos	16.7	Spike	P	0 - 40
2394346	Fenbuconazole	24.9	Spike	P	0 - 74
2394346	Fipronil	1.48	Spike	P	0 - 29
2394346	Fipronil Desulfinyl	9.58	Spike	P	0 - 32
2394346	Fipronil Sulfide	3.45	Spike	P	0 - 30
2394346	Fipronil Sulfone	17.5	Spike	P	0 - 33
2394346	Fluazifop-P-butyl	24.7	Spike	P	0 - 38
2394346	Fludioxonil	3.22	Spike	P	0 - 29
2394346	Flumioxazin	4.55	Spike	P	0 - 51
2394346	Flutolanil	12.8	Spike	P	0 - 25
2394346	Fluxapyroxad	12.5	Spike	P	0 - 45
2394346	Fonofos	2.41	Spike	P	0 - 27
2394346	Hexabromobenzene	7.66	Spike	P	0 - 30
2394346	Hexazinone	4.77	Spike	P	0 - 30
2394346	Imazalil	26.1	Spike	P	0 - 100
2394346	Iprodione	12.2	Spike	P	0 - 33
2394346	Loratadine	34.9	Spike	P	0 - 56
2394346	Malathion	7.66	Spike	P	0 - 37
2394346	Metalaxyl	21.1	Spike	P	0 - 40
2394346	Metolachlor	0.510	Spike	P	0 - 29
2394346	Metribuzin	1.09	Spike	P	0 - 45
2394346	Mevinphos	4.99	Spike	P	0 - 29
2394346	Molinate	6.16	Spike	P	0 - 33
2394346	Myclobutanil	0.738	Spike	P	0 - 26
2394346	Naled	16.2	Spike	P	0 - 37
2394346	Napropamide	7.80	Spike	P	0 - 44
2394346	Norflurazon	1.53	Spike	P	0 - 30
2394346	Octinoxate	6.87	Spike	P	0 - 45
2394346	Oxadiazon	0.282	Spike	P	0 - 28
2394346	Oxybenzone	10.3	Spike	P	0 - 46
2394346	Oxyfluorfen	4.72	Spike	P	0 - 28
2394346	Parathion Ethyl	9.40	Spike	P	0 - 31
2394346	Parathion Methyl	2.03	Spike	P	0 - 29
2394346	PBB-153	4.63	Spike	P	0 - 30
2394346	PBDE-47	0.0798	Spike	P	0 - 36
2394346	PBDE-99	7.37	Spike	P	0 - 40
2394346	Pendimethalin	4.45	Spike	P	0 - 33
2394346	Pentabromotoluene	4.80	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P427316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2394346	Phenytoin	21.9	Spike	P	0 - 100
2394346	Phorate	20.5	Spike	P	0 - 36
2394346	Prodiamine	9.99	Spike	P	0 - 71
2394346	Prometon	12.1	Spike	P	0 - 36
2394346	Prometryn	17.0	Spike	P	0 - 28
2394346	Pronamide	6.28	Spike	P	0 - 24
2394346	Propanil	13.7	Spike	P	0 - 28
2394346	Propargite	22.5	Spike	P	0 - 43
2394346	Propiconazole	7.42	Spike	P	0 - 33
2394346	Pyraflufen Ethyl	20.9	Spike	P	0 - 29
2394346	Pyridaben	15.8	Spike	P	0 - 30
2394346	Pyriproxyfen	0.857	Spike	P	0 - 79
2394346	Simazine	3.89	Spike	P	0 - 29
2394346	Stirophos	19.5	Spike	P	0 - 61
2394346	Sulfentrazone	9.54	Spike	P	0 - 33
2394346	Tebuconazole	6.69	Spike	P	0 - 69
2394346	Terbufos	17.0	Spike	P	0 - 29
2394346	Terbuthylazine	3.53	Spike	P	0 - 32
2394346	Tetradecachloro-m-terphenyl	6.40	Spike	P	0 - 30
2394346	Thiobencarb	10.2	Spike	P	0 - 26
2394346	Tri-o-cresyl Phosphate	0.280	Spike	P	0 - 33
2394346	Triadimefon	9.31	Spike	P	0 - 28
2394346	Tris(1-chloro-2-propyl) phosphate (TCPP)	11.9	Spike	P	0 - 30
2394346	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	1.40	Spike	P	0 - 30
2394346	Tris(2-chloroethyl) phosphate (TCEP)	11.9	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P427187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393469	2,4-D	0.488	Spike	P	0 - 30
2393469	2,4,5-T	10.2	Spike	P	0 - 30
2393469	Acetaminophen	6.42	Spike	P	0 - 30
2393469	Acetamiprid	6.01	Spike	P	0 - 30
2393469	Afidopyropen	13.7	Spike	P	0 - 30
2393469	Bentazon	6.82	Spike	P	0 - 30
2393469	Benzovindiflupyr	4.17	Spike	P	0 - 30
2393469	Carbamazepine	8.42	Spike	P	0 - 30
2393469	Clothianidin	2.82	Spike	P	0 - 30
2393469	Dinotefuran	0.222	Spike	P	0 - 30
2393469	Diuron	8.15	Spike	P	0 - 30
2393469	Fenuron	4.69	Spike	P	0 - 30
2393469	Fluridone	8.41	Spike	P	0 - 30
2393469	Hydrocodone	0.133	Spike	P	0 - 30
2393469	Ibuprofen	17.4	Spike	P	0 - 30
2393469	Imazapyr	10.7	Spike	P	0 - 30
2393469	Imidacloprid	0.901	Spike	P	0 - 30
2393469	Linuron	7.52	Spike	P	0 - 30
2393469	Mandestrobin	0.856	Spike	P	0 - 30
2393469	MCP	0.873	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P427187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393469	Naproxen	22.8	Spike	P	0 - 30
2393469	Primidone	3.25	Spike	P	0 - 30
2393469	Pyraclostrobin	2.50	Spike	P	0 - 30
2393469	Silvex	11.6	Spike	P	0 - 30
2393469	Thiamethoxam	1.74	Spike	P	0 - 30
2393469	Tolfenpyrad	4.22	Spike	P	0 - 30
2393469	Triclopyr	0.274	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P427212

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393680	Acesulfame K	1.54	Spike	P	0 - 30
2393680	AMPA	7.08	Spike	P	0 - 30
2393680	Endothall	1.89	Spike	P	0 - 30
2393680	Glufosinate	1.80	Spike	P	0 - 30
2393680	Glyphosate	11.5	Spike	P	0 - 30
2393680	Sucralose	3.61	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2394401

Field Sample ID: G2SW0169

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	124	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.4	P	30 - 160
EPA 8321B	Diuron-d6	65.5	P	30 - 160
EPA 8321B	Endothall-d6	96.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	110	P	30 - 160
EPA 8321B	Ibuprofen-d3	86.6	P	30 - 160
EPA 8321B	Primidone-d5	88.2	P	30 - 160
EPA 8321B	Sucralose-d6	97.1	P	30 - 160

Lab Sample ID: 2394412

Field Sample ID: G2SW0115

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	94.2	P	20 - 200
EPA 8270E	Simazine-d10	96.8	P	62 - 142
EPA 8270E	Terbufos-d10	105	P	58 - 132
EPA 8270E	Terphenyl-d14	102	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A118066
Included Lab Sample IDs: 2394401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	95.2	95.4	P/P	60 - 160
Sucralose	94.3	95.9	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A118070
Included Lab Sample IDs: 2394401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	109	106	P/P	60 - 160
Endothall	99.4	97.7	P/P	60 - 160
Glufosinate	95.2	93.2	P/P	60 - 160
Glyphosate	91.3	99.6	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A118085
Included Lab Sample IDs: 2394403, 2394404

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.8	99.1	P/P	90 - 110
Antimony	98.1	97.7	P/P	90 - 110
Arsenic	98.8	99.4	P/P	90 - 110
Boron	97.5	98.6	P/P	90 - 110
Cadmium	99.7	99.3	P/P	90 - 110
Chromium	96.7	97.3	P/P	90 - 110
Copper	97.3	97.1	P/P	90 - 110
Lead	96.2	96.7	P/P	90 - 110
Nickel	96.4	97.5	P/P	90 - 110
Selenium	99.5	100	P/P	90 - 110
Silver	96.4	96.6	P/P	90 - 110
Thallium	103	101	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A118174
Included Lab Sample IDs: 2394412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.4		P	80 - 120
Avobenzone	92.2		P	80 - 120
Dechlorane 602	97.1		P	80 - 120
Dechlorane 603	94.1		P	80 - 120
Dechlorane Plus	94.8		P	80 - 120
Hexabromobenzene	93.6		P	80 - 120
Octinoxate	92.7		P	80 - 120
Oxybenzone	97.5		P	80 - 120
PBB-153	91.3		P	80 - 120
PBDE-47	91.9		P	80 - 120
PBDE-99	99.6		P	80 - 120
Pentabromotoluene	96.4		P	80 - 120
Tetradecachloro-m-terphenyl	87.0		P	80 - 120
Tri-o-cresyl Phosphate	95.3		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	95.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118174
Included Lab Sample IDs: 2394412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.4		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	93.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A118257
Included Lab Sample IDs: 2394412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	111		P	80 - 120
Alachlor	109		P	80 - 120
Ametryn	115		P	80 - 120
Atrazine	98.2		P	80 - 120
Atrazine Desethyl	107		P	80 - 120
Azinphos Methyl	117		P	80 - 120
Butylate	99.2		P	80 - 120
Caffeine	114		P	80 - 120
Carbophenothion	89.9		P	80 - 120
Carfentrazone Ethyl	85.1		P	80 - 120
Chlorfenapyr	110		P	80 - 120
Chlorpyrifos Ethyl	114		P	80 - 120
Chlorpyrifos Methyl	111		P	80 - 120
Coumaphos	98.7		P	80 - 120
Cyanazine	106		P	80 - 120
Cyprodinil	110		P	80 - 120
Demeton	99.2		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	115		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	102		P	80 - 120
EPTC	102		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	112		P	80 - 120
Etridiazole	107		P	80 - 120
Fenamiphos	104		P	80 - 120
Fenbuconazole	113		P	80 - 120
Fipronil	92.4		P	80 - 120
Fipronil Desulfinyl	104		P	80 - 120
Fipronil Sulfide	93.2		P	80 - 120
Fipronil Sulfone	89.9		P	80 - 120
Fluazifop-P-butyl	94.6		P	80 - 120
Flumioxazin	86.6		P	80 - 120
Flutolanil	97.0		P	80 - 120
Fluxapyroxad	117		P	80 - 120
Fonofos	81.4		P	80 - 120
Hexazinone	105		P	80 - 120
Imazalil	111		P	80 - 120
Iprodione	118		P	80 - 120
Loratadine	115		P	80 - 120
Malathion	118		P	80 - 120
Metalaxyl	89.6		P	80 - 120
Metolachlor	94.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118257
Included Lab Sample IDs: 2394412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Metribuzin	102		P	80 - 120
Mevinphos	92.2		P	80 - 120
Molinate	91.8		P	80 - 120
Myclobutanil	117		P	80 - 120
Naled	109		P	80 - 120
Napropamide	100		P	80 - 120
Norflurazon	81.2		P	80 - 120
Oxadiazon	98.0		P	80 - 120
Oxyfluorfen	120		P	80 - 120
Parathion Ethyl	96.4		P	80 - 120
Parathion Methyl	84.8		P	80 - 120
Pendimethalin	97.9		P	80 - 120
Phenytoin	107		P	80 - 120
Phorate	94.0		P	80 - 120
Prodiamine	118		P	80 - 120
Prometon	106		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	94.0		P	80 - 120
Propanil	99.4		P	80 - 120
Propargite	86.5		P	80 - 120
Propiconazole	90.3		P	80 - 120
Pyraflufen Ethyl	94.3		P	80 - 120
Pyridaben	93.9		P	80 - 120
Pyriproxyfen	110		P	80 - 120
Simazine	88.7		P	80 - 120
Stirophos	101		P	80 - 120
Sulfentrazone	84.5		P	80 - 120
Tebuconazole	111		P	80 - 120
Terbufos	103		P	80 - 120
Terbutylazine	103		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	106		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A118283
Included Lab Sample IDs: 2394403, 2394404

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	99.1	100	P/P	90 - 110
Calcium	106	105	P/P	90 - 110
Iron	108	107	P/P	90 - 110
Magnesium	105	104	P/P	90 - 110
Sodium	101	100	P/P	90 - 110
Zinc	101	103	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A118285
Included Lab Sample IDs: 2394412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azoxystrobin	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A118285
 Included Lab Sample IDs: 2394412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	108		P	80 - 120
Diazinon	104		P	80 - 120
Difenoconazole	108		P	80 - 120
Fludioxonil	106		P	80 - 120

Reference Method: EPA 8321B
 Run ID: A118309
 Included Lab Sample IDs: 2394401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	98.2	96.9	P/P	50 - 150
2,4,5-T	101	101	P/P	50 - 150
Acetaminophen	96.3	96.6	P/P	60 - 160
Acetamiprid	107	115	P/P	50 - 150
Afidopyropen	91.3	86.1	P/P	50 - 150
Bentazon	108	118	P/P	50 - 160
Benzovindiflupyr	103	107	P/P	50 - 150
Carbamazepine	105	113	P/P	60 - 150
Clothianidin	107	105	P/P	60 - 150
Dinotefuran	107	112	P/P	50 - 150
Diuron	104	117	P/P	60 - 160
Fenuron	104	107	P/P	60 - 150
Fluridone	92.4	88.8	P/P	60 - 160
Hydrocodone	118	115	P/P	60 - 150
Ibuprofen	89.0	91.2	P/P	50 - 160
Imazapyr	103	101	P/P	50 - 150
Imidacloprid	94.7	99.9	P/P	60 - 150
Linuron	122	92.1	P/P	60 - 150
Mandestrobin	107	98.8	P/P	50 - 150
MCPP	106	103	P/P	50 - 150
Naproxen	117	81.1	P/P	50 - 160
Primidone	104	92.7	P/P	60 - 150
Pyraclostrobin	103	106	P/P	60 - 150
Silvex	92.4	80.0	P/P	50 - 150
Thiamethoxam	112	119	P/P	50 - 150
Tolfenpyrad	105	104	P/P	60 - 150
Triclopyr	97.5	122	P/P	50 - 150

Reference Method: EPA 200.7 Rev. 4.4
 Run ID: A118359
 Included Lab Sample IDs: 2394404

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Zinc	101	97.2	P/P	95 - 105

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
EPA 200.7 Rev. 4.4	Barium	101	108	102	108		6.09
	Calcium	105	102	106			6.47
	Iron	106	112	105	114		6.85
	Magnesium	102	109	98.5	116		7.10
	Sodium	99.9	108	98.2	109		6.04
	Zinc	103	105	99.0	104		5.70
EPA 200.8 Rev. 5.4	Aluminum	101	98.9	98.0	99.8		0.861
	Antimony	100	99.5	99.1	100		0.381
	Arsenic	102	99.9	99.1	99.4		0.861
	Boron	100	99.5	98.3	100		1.14
	Cadmium	102	102	101	100		0.694
	Chromium	101	99.6	99.1	99.3		0.403
	Copper	99.5	98.6	97.8	98.5		0.858
	Lead	97.6	97.6	95.7	97.2		1.96
	Nickel	101	99.0	98.5	99.4		0.547
	Selenium	103	101	101	102		0.631
	Silver	99.8	99.2	98.7	98.1		0.507
	Thallium	101	102	101	101		0.952
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	118	72.4	74.5			2.83
	Acetochlor	118	82.2	86.0			4.45
EPA 8270E	Alachlor	102	73.5	70.2			4.57
	Ametryn	74.4	64.8	63.0			2.71
	Atrazine	86.7	63.8	57.0			7.51
	Atrazine Desethyl	86.1	60.9	65.5			7.20
	Avobenzone	153	86.4	102			16.9
	Azinphos Methyl	78.9	74.3	60.2			20.9
	Azoxystrobin	88.9	70.1	68.3			2.60
	Bromacil	107	72.9	84.7			14.9
	Butylate	29.5	27.9	28.7			2.96
	Caffeine	90.1	57.1	110			53.1
	Carbophenothion	92.1	61.2	57.7			5.95
	Carfentrazone Ethyl	115	68.9	63.0			8.95
	Chlorfenapyr	59.4	43.2	42.0			2.96
	Chlorpyrifos Ethyl	72.9	52.8	52.8			0.0163
	Chlorpyrifos Methyl	86.4	59.0	61.4			3.94
	Coumaphos	130	75.3	80.4			6.57
	Cyanazine	165	140	130			7.12
	Cyprodinil	71.7	61.2	50.0			20.1
	Dechlorane 602	111	64.0	64.3			0.426
	Dechlorane 603	111	64.2	65.2			1.50
	Dechlorane Plus	92.1	49.6	48.8			1.53
	Demeton	45.2	43.4	42.4			2.25
	Diazinon	126	99.9	92.0			7.47
	Difenoconazole	71.1	71.8	73.2			1.91
	Dimethenamid	107	74.3	87.9			16.8
	Dimethomorph	97.8	119	99.1			17.9
	Disulfoton	94.6	84.4	77.4			8.73
	Dithiopyr	96.6	62.3	70.1			11.7
	EPTC	30.6	24.7	33.6			30.5
	Ethion	67.2	40.9	40.2			1.84
	Ethoprop	143	129	119			8.16
	Etridiazole	43.9	38.2	42.7			11.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Fenamiphos	79.6	59.6	70.4			16.7
	Fenbuconazole	86.7	64.1	45.9			24.9
	Fipronil	93.5	73.5	72.4			1.48
	Fipronil Desulfinyl	77.9	54.6	60.1			9.58
	Fipronil Sulfide	74.2	57.7	55.8			3.45
	Fipronil Sulfone	99.8	59.0	70.4			17.5
	Fluazifop-P-butyl	98.2	61.7	79.1			24.7
	Fludioxonil	125	87.2	90.1			3.22
	Flumioxazin	183	130	124			4.55
	Flutolanil	87.5	52.5	60.6			12.8
	Fluxapyroxad	54.3	56.2	49.6			12.5
	Fonofos	80.1	64.4	66.0			2.41
	Hexabromobenzene	127	92.6	85.8			7.66
	Hexazinone	99.5	83.9	80.0			4.77
	Imazalil	72.1	63.9	83.1			26.1
	Iprodione	75.8	82.6	73.1			12.2
	Loratadine	53.7	77.5	54.5			34.9
	Malathion	95.2	65.9	71.2			7.66
	Metalaxyl	98.1	55.9	69.0			21.1
	Metolachlor	103	57.6	57.1			0.510
	Metribuzin	88.4	69.2	68.5			1.09
	Mevinphos	104	97.5	92.8			4.99
	Molinate	47.4	43.6	46.4			6.16
	Myclobutanil	126	88.5	89.2			0.738
	Naled	47.3	39.7	46.7			16.2
	Napropamide	74.8	46.9	50.7			7.80
	Norflurazon	99.0	64.1	63.1			1.53
	Octinoxate	107	84.5	78.9			6.87
	Oxadiazon	97.6	71.1	70.9			0.282
	Oxybenzone	121	90.6	81.8			10.3
	Oxyfluorfen	95.6	77.9	74.3			4.72
	Parathion Ethyl	96.8	72.0	65.5			9.40
	Parathion Methyl	109	80.6	82.2			2.03
	PBB-153	131	68.9	72.1			4.63
	PBDE-47	123	82.4	82.4			0.0798
	PBDE-99	126	72.5	78.0			7.37
	Pendimethalin	113	108	104			4.45
	Pentabromotoluene	110	85.0	81.1			4.80
	Phenytoin	107	42.8	53.3			21.9
	Phorate	78.0	141	115			20.5
	Prodiamine	70.2	56.6	51.2			9.99
	Prometon	89.9	76.9	68.1			12.1
	Prometryn	93.3	69.5	82.4			17.0
	Pronamide	110	96.9	103			6.28
	Propanil	96.5	67.0	76.9			13.7
	Propargite	64.3	33.4	41.9			22.5
	Propiconazole	86.8	60.9	56.5			7.42
	Pyraflufen Ethyl	88.6	62.2	50.4			20.9
	Pyridaben	144	97.7	114			15.8
	Pyriproxyfen	46.6	31.3	31.0			0.857
	Simazine	90.8	73.2	76.1			3.89
	Stirophos	27.8	27.3	33.2			19.5
	Sulfentrazone	124	68.6	62.3			9.54
	Tebuconazole	79.2	47.4	50.6			6.69

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Terbufos	96.3	97.9	82.6			17.0
	Terbutylazine	81.7	74.7	77.3			3.53
	Tetradecachloro-m-terphenyl	108	59.8	63.7			6.40
	Thiobencarb	95.6	63.5	70.3			10.2
	Tri-o-cresyl Phosphate	123	82.5	82.7			0.280
	Triadimefon	82.2	61.9	56.4			9.31
	Tris(1-chloro-2-propyl) phosphate (TCPP)	139	106	92.4			11.9
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	116	87.5	86.3			1.40
	Tris(2-chloroethyl) phosphate (TCEP)	129	93.8	83.3			11.9
EPA 8321B	2,4-D	99.8	107	108			0.488
	2,4,5-T	105	114	103			10.2
	Acesulfame K	96.8	101	99.4			1.54
	Acetaminophen	93.7	90.7	96.7			6.42
	Acetamiprid	86.9	80.2	75.5			6.01
	Afidopyropen	69.4	62.4	71.6			13.7
	AMPA	136	89.6	83.5			7.08
	Bentazon	93.1	66.5	60.8			6.82
	Benzovindiflupyr	83.3	82.1	78.7			4.17
	Carbamazepine	92.9	75.9	69.7			8.42
	Clothianidin	92.9	103	106			2.82
	Dinotefuran	97.3	99.0	99.2			0.222
	Diuron	81.1	67.5	62.2			8.15
	Endothall	96.2	100	98.2			1.89
	Fenuron	91.2	71.9	68.6			4.69
	Fluridone	73.4	62.8	76.8			8.41
	Glufosinate	98.1	72.6	71.3			1.80
	Glyphosate	126	119	105			11.5
	Hydrocodone	99.7	95.3	95.2			0.133
	Ibuprofen	72.1	60.7	72.3			17.4
	Imazapyr	95.8	102	121			10.7
	Imidacloprid	86.2	136	138			0.901
	Linuron	75.5	71.5	77.1			7.52
	Mandestrobin	85.9	85.2	84.4			0.856
	MCPP	104	116	115			0.873
	Naproxen	97.3	59.0	74.3			22.8
	Primidone	83.1	93.5	96.6			3.25
	Pyraclostrobin	74.4	76.0	77.9			2.50
	Silvex	99.0	108	122			11.6
	Sucralose	99.9	90.6	95.2			3.61
	Thiamethoxam	92.8	113	111			1.74
	Tolfenpyrad	49.7	51.9	49.7			4.22
	Triclopyr	92.6	111	111			0.274

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	2394403, 2394404
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2394403, 2394404
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2394412

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2394412
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2394401
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2394403, 2394404

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	03/16/2023	03/17/2023 12:20	George D Taylor	03/29/2023 19:37	Chase Roberts	2394403
	03/16/2023	03/17/2023 12:20	George D Taylor	03/29/2023 19:45	Chase Roberts	2394404
	03/16/2023	03/17/2023 12:20	George D Taylor	04/03/2023 14:24	McKinley C Carter	2394404
EPA 200.8 Rev. 5.4	03/16/2023	03/17/2023 12:20	George D Taylor	03/20/2023 18:39	Conrad Hartmann	2394403
	03/16/2023	03/17/2023 12:20	George D Taylor	03/20/2023 18:48	Conrad Hartmann	2394404
EPA 8270E	03/16/2023	03/21/2023 08:30	Rasheda Ghaffari	03/23/2023 18:01	Arthur Maknenko	2394412
	03/16/2023	03/21/2023 08:30	Rasheda Ghaffari	03/23/2023 21:09	Michael Poppell	2394412
	03/16/2023	03/21/2023 08:30	Rasheda Ghaffari	03/29/2023 22:42	Michael Poppell	2394412
	03/16/2023	03/21/2023 08:30	Rasheda Ghaffari	03/29/2023 23:09	Michael Poppell	2394412
EPA 8321B	03/16/2023	03/16/2023 13:00	Hoor Shaik	03/30/2023 00:08	Juyoung Kim	2394401
	03/16/2023	03/17/2023 07:21	Manjita Shrestha	03/17/2023 20:22	Manjita Shrestha	2394401
	03/16/2023	03/17/2023 07:21	Manjita Shrestha	03/18/2023 16:11	Manjita Shrestha	2394401
SM 2340 B-2011	03/16/2023			03/29/2023 19:37	Chase Roberts	2394403
	03/16/2023			03/29/2023 19:45	Chase Roberts	2394404