

Chemical Analysis Report

CEN-DIST-2022-05-11-03

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Seminole Co Sampling - Lake Ann**
Request ID: **RQ-2022-05-09-55**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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Date Certified: 06-JUN-2022 10:05



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: Nutrients 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: Lake Ann at Center

Collection Date/Time: 05/10/2022 12:20

Field ID: G2CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326576	EPA 8321B	Aldicarb	0.020	U	ug/L	P413774	
		Aldicarb Sulfone	0.0020	U	ug/L	P413774	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P413774	
		Carbaryl	0.0020	U	ug/L	P413774	
		Carbofuran	0.0020	U	ug/L	P413774	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P413774	
		Methiocarb	0.0020	U	ug/L	P413774	
		Methomyl	0.0020	U	ug/L	P413774	
		Oxamyl	0.0020	U	ug/L	P413774	
		Propoxur	0.0020	U	ug/L	P413774	
2326577		Acesulfame K	0.10	U	ug/L	P413829	
		2,4-D	0.0047	I	ug/L	P413908	
		AMPA	0.10	U	ug/L	P413829	
		2,4,5-T	0.0040	U	ug/L	P413908	
		Acetaminophen	0.0080	U	ug/L	P413908	
		Acetamiprid	0.0020	U	ug/L	P413908	
		Endothall	2.5	UQ	ug/L	P413829	MS
		Glufosinate	0.10	U	ug/L	P413829	
		Glyphosate	0.10	U	ug/L	P413829	
		Afidopyropen	0.0020	U	ug/L	P413908	
		Sucralose	1.2		ug/L	P413829	
		Bentazon	0.12		ug/L	P413908	
		Benzovindiflupyr	0.0020	U	ug/L	P413908	
		Carbamazepine	8.0E-04	U	ug/L	P413908	
		Clothianidin	0.0020	U	ug/L	P413908	
		Dinotefuran	0.0035	I	ug/L	P413908	
		Diuron	0.0020	U	ug/L	P413908	
		Fenuron	0.032	U	ug/L	P413908	
		Fluridone	0.0035		ug/L	P413908	
		Imazapyr	0.048		ug/L	P413908	
		Hydrocodone	0.0020	U	ug/L	P413908	
		Ibuprofen	0.020	U	ug/L	P413908	
		Imidacloprid	0.0023	I	ug/L	P413908	
		Linuron	0.0040	U	ug/L	P413908	
		Mandestrobin	0.0020	U	ug/L	P413908	
		MCPP	0.0040	U	ug/L	P413908	
		Naproxen	0.0080	U	ug/L	P413908	
		Primidone	0.0077	I	ug/L	P413908	
		Pyraclostrobin	0.0020	U	ug/L	P413908	
		Silvex	0.0040	U	ug/L	P413908	
		Thiamethoxam	0.0020	U	ug/L	P413908	
		Tolfenpyrad	0.0020	U	ug/L	P413908	
		Triclopyr	0.0040	U	ug/L	P413908	
2326578	EPA 8270E	Aldrin	0.68	U	ng/L	P413778	

Field ID: G2CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326578	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P413778	
		Alpha-Chlordane	0.21	U	ng/L	P413778	
		PCB-1016	2.1	U	ng/L	P413778	
		Beta-BHC	0.10	U	ng/L	P413778	
		PCB-1221	2.1	U	ng/L	P413778	
		Beta-Cyfluthrin**	1.3	U	ng/L	P413778	
		PCB-1232	2.1	U	ng/L	P413778	
		Bifenthrin**	0.52	U	ng/L	P413778	
		PCB-1242	2.1	U	ng/L	P413778	
		PCB-1248	2.1	U	ng/L	P413778	
		Chlorothalonil	1.3	U	ng/L	P413778	
		PCB-1254	2.1	U	ng/L	P413778	
		Cis-Nonachlor**	0.21	U	ng/L	P413778	
		PCB-1260	2.1	U	ng/L	P413778	
		Cypermethrin	1.6	U	ng/L	P413778	
		Dacthal**	0.16	U	ng/L	P413778	
		DDD-p,p'	0.26	U	ng/L	P413778	
		DDE-p,p'	0.21	U	ng/L	P413778	
		DDT-p,p'	0.26	U	ng/L	P413778	
		Delta-BHC	0.42	U	ng/L	P413778	
		Deltamethrin**	1.3	U	ng/L	P413778	
		Dichlobenil**	0.26	U	ng/L	P413778	
		Dicofol	1.3	U	ng/L	P413778	
		Dieldrin	0.42	U	ng/L	P413778	
		Endosulfan I	0.42	U	ng/L	P413778	
		Endosulfan II	0.42	U	ng/L	P413778	
		Endosulfan Sulfate	0.31	U	ng/L	P413778	
		Endrin	0.42	U	ng/L	P413778	
		Endrin Aldehyde	0.78	U	ng/L	P413778	
		Endrin Ketone	0.42	U	ng/L	P413778	
		Esfenvalerate**	0.78	U	ng/L	P413778	
		Ethalfuralin**	0.16	U	ng/L	P413778	
		Fenpropathrin**	0.26	U	ng/L	P413778	
		Gamma-BHC	0.13	U	ng/L	P413778	
		Gamma-Chlordane	0.21	U	ng/L	P413778	
		Heptachlor	0.21	U	ng/L	P413778	
		Heptachlor Epoxide	0.26	U	ng/L	P413778	
		Hexachlorobenzene**	1.0	U	ng/L	P413778	
		Kepone**	5.2	UJ	ng/L	P413778	CCV
		Lambda-Cyhalothrin**	0.78	U	ng/L	P413778	
		Methoprene**	0.78	U	ng/L	P413778	
		Methoxychlor	0.31	U	ng/L	P413778	
		MGK-264**	0.21	U	ng/L	P413778	
		Mirex	0.73	U	ng/L	P413778	
		Oxychlordane**	0.31	U	ng/L	P413778	

Field ID: G2CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326578	EPA 8270E	Permethrin	1.7	U	ng/L	P413778	
		Phenothrin**	0.94	U	ng/L	P413778	
		Piperonyl Butoxide**	0.31	I	ng/L	P413778	
		Prallethrin**	2.1	U	ng/L	P413778	
		Tau-Fluvalinate**	0.26	U	ng/L	P413778	
		Tetramethrin**	0.78	U	ng/L	P413778	
		Trans-Nonachlor**	0.21	U	ng/L	P413778	
		Triclosan Methyl**	0.16	U	ng/L	P413778	
		Trifluralin	0.21	U	ng/L	P413778	
		Chlordane	2.6	U	ng/L	P413778	
	EPA 8276	Toxaphene	16	U	ng/L	P413778	
		Oxybenzone**	10	U	ng/L	P413852	
2326579	EPA 8270E	Acetochlor	0.25	U	ng/L	P413852	
		Octinoxate**	20	U	ng/L	P413852	
		Alachlor	0.25	U	ng/L	P413852	
		Avobenzone**	100	U	ng/L	P413852	
		Ametryn	2.6		ng/L	P413852	
		Atrazine	140		ng/L	P413852	
		Atrazine Desethyl	13		ng/L	P413852	
		Azinphos Methyl	2.0	U	ng/L	P413852	
		Azoxystrobin**	4.0		ng/L	P413852	
		Bromacil	0.51	U	ng/L	P413852	
		Butylate	0.41	U	ng/L	P413852	
		Caffeine**	14	I	ng/L	P413852	
		Carbophenothion	0.20	U	ng/L	P413852	
		Carfentrazone Ethyl**	0.10	U	ng/L	P413852	
		Chlorfenapyr**	0.18	U	ng/L	P413852	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P413852	
		Chlorpyrifos Methyl	0.051	U	ng/L	P413852	
		Coumaphos**	0.51	U	ng/L	P413852	
		Cyanazine	3.3	U	ng/L	P413852	
		Cyprodinil**	0.10	U	ng/L	P413852	
		Demeton	1.5	U	ng/L	P413852	
		Diazinon	0.13	U	ng/L	P413852	
		Difenoconazole**	0.61	U	ng/L	P413852	
		Dimethenamid**	0.10	U	ng/L	P413852	
		Dimethomorph**	0.18	U	ng/L	P413852	
		Disulfoton	0.51	U	ng/L	P413852	
		Dithiopyr**	0.18	U	ng/L	P413852	
		EPTC	1.3	U	ng/L	P413852	
		Ethion	0.15	U	ng/L	P413852	
		Ethoprop	0.10	U	ng/L	P413852	
		Etridiazole**	0.15	U	ng/L	P413852	
		Fenamiphos	0.51	U	ng/L	P413852	
		Fenbuconazole**	0.13	U	ng/L	P413852	

Field ID: G2CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326579	EPA 8270E	Fipronil	0.29	I	ng/L	P413852	
		Fipronil DesulfinyI**	1.5		ng/L	P413852	
		Fipronil Sulfide	0.48	I	ng/L	P413852	
		Fipronil Sulfone	2.6		ng/L	P413852	
		Fluazifop-P-butyl**	0.10	U	ng/L	P413852	
		Fludioxonil**	0.13	UJ	ng/L	P413852	MS
		Flumioxazin**	1.8	U	ng/L	P413852	
		Flutolanil**	0.10	U	ng/L	P413852	
		Fluxapyroxad**	0.20	I	ng/L	P413852	
		Fonofos	0.20	U	ng/L	P413852	
		Hexazinone	0.51	U	ng/L	P413852	
		Imazalil**	0.76	U	ng/L	P413852	
		Iprodione**	0.61	U	ng/L	P413852	
		Loratadine**	0.10	U	ng/L	P413852	
		Malathion	0.35	U	ng/L	P413852	
		Metalaxyl	0.76	U	ng/L	P413852	
		Metolachlor	0.46	I	ng/L	P413852	
		Metribuzin	2.5	U	ng/L	P413852	
		Mevinphos	1.1	U	ng/L	P413852	
		Molinate	0.30	U	ng/L	P413852	
		Myclobutanil**	0.48	I	ng/L	P413852	
		Naled**	1.5	U	ng/L	P413852	
		Napropamide**	0.41	U	ng/L	P413852	
		Norflurazon	0.51	U	ng/L	P413852	
		Oxadiazon	0.60	I	ng/L	P413852	
		Oxyfluorfen**	0.15	U	ng/L	P413852	
		Parathion Ethyl	0.25	U	ng/L	P413852	
		Parathion Methyl	0.56	U	ng/L	P413852	
		Pendimethalin	1.0	U	ng/L	P413852	
		Phenytol**	3.5	U	ng/L	P413852	
		Phorate	0.53	U	ng/L	P413852	
		Prodiamine**	0.18	U	ng/L	P413852	
		Prometon	0.91	U	ng/L	P413852	
		Prometryn	0.20	U	ng/L	P413852	
		Pronamide**	0.15	U	ng/L	P413852	
		Propanil**	0.13	U	ng/L	P413852	
		Propargite**	1.5	U	ng/L	P413852	
		Propiconazole**	2.0	I	ng/L	P413852	
		Pyraflufen Ethyl**	0.25	U	ng/L	P413852	
		Pyridaben**	12		ng/L	P413852	
		Pyriproxyfen**	0.13	U	ng/L	P413852	
		Simazine	5.6		ng/L	P413852	
		Stirophos**	0.13	U	ng/L	P413852	
		Sulfentrazone**	1.9	I	ng/L	P413852	
		Tebuconazole**	0.51	U	ng/L	P413852	

Field ID: G2CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326579	EPA 8270E	Terbufos	0.10	U	ng/L	P413852	
		Terbutylazine	0.43	U	ng/L	P413852	
		Thiobencarb**	0.61	U	ng/L	P413852	
		Triadimefon**	0.29	I	ng/L	P413852	

Ref. Method and Comment:

EPA 8321B: MDL for Endothall elevated due to matrix interference. Endothall analyzed beyond holding time due to technical difficulties.

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

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

Sample Location: Lake Ann at Center

Collection Date/Time: 05/10/2022 12:20

Field ID: G2CE0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2326583	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P414160	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.66		mg N/L	P414010	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P414227	
	EPA 365.1 Rev. 2.0	Total-P	0.027		mg P/L	P413994	
	SM 5310 B-2011	Organic Carbon	8.1		mg C/L	P413969	

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P414160

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414010

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414227

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413994

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P413778

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	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413778

Component	Result	Code	Units
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413778

Component	Result	Code	Units
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 8270E

Batch ID: P413852

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413852

Component	Result	Code	Units
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	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	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413852

Component	Result	Code	Units
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P413852

Component	Result	Code	Units
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276

Batch ID: P413778

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P413774

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: P413829

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: P413908

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	0.020	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	0.0040	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P413908

Component	Result	Code	Units
Triclopyr	0.0040	U	ug/L

Reference Method: SM 5310 B-2011
Batch ID: P413969

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P414160

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414010

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	103		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414227

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413994

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	104		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P413778

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.9		P	10 - 93.0
Alpha-BHC	101		P	75 - 106
Alpha-Chlordane	75.4		P	50 - 109
Beta-BHC	99.4		P	36 - 138
Beta-Cyfluthrin	49.6		P	23 - 167
Bifenthrin	31.0		P	11 - 123
Chlorothalonil	71.8		P	27 - 190
Cis-Nonachlor	73.4		P	40 - 111
Cypermethrin	55.7		P	25 - 155
Dacthal	99.7		P	72 - 119
DDD-p,p'	81.3		P	47 - 108
DDE-p,p'	79.3		P	48 - 107
DDT-p,p'	73.2		P	49 - 111
Delta-BHC	96.2		P	54 - 138
Deltamethrin	52.8		P	22 - 189
Dichlobenil	98.2		P	32 - 113
Dicofol	72.7		P	50 - 108
Dieldrin	83.4		P	56 - 110
Endosulfan I	84.2		P	60 - 105
Endosulfan II	82.6		P	50 - 120
Endosulfan Sulfate	95.7		P	55 - 121
Endrin	86.5		P	31 - 119
Endrin Aldehyde	92.6		P	36 - 116
Endrin Ketone	98.2		P	69 - 177
Esfenvalerate	42.4		P	10 - 179
Ethalfuralin	72.4		P	49 - 99.0
Fenpropathrin	60.1		P	35 - 119
Gamma-BHC	99.5		P	69 - 120

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P413778

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-Chlordane	76.7		P	45 - 107
Heptachlor	74.2		P	41 - 100
Heptachlor Epoxide	83.2		P	58 - 106
Hexachlorobenzene	78.0		P	39 - 100
Kepone	127		P	10 - 191
Lambda-Cyhalothrin	36.1		P	21 - 206
Methoprene	39.2		P	10 - 129
Methoxychlor	85.5		P	61 - 111
MGK-264	86.3		P	20 - 123
Mirex	47.1		P	10 - 182
Oxychlordane	77.3		P	39 - 110
PCB-1016	86.4		P	49 - 111
PCB-1260	81.7		P	42 - 116
Permethrin	52.8		P	26 - 152
Phenothrin	36.7		P	10 - 109
Piperonyl Butoxide	100		P	19 - 147
Prallethrin	80.3		P	14 - 109
Tau-Fluvalinate	35.6		P	16 - 134
Tetramethrin	91.9		P	10 - 125
Trans-Nonachlor	71.3		P	45 - 107
Triclosan Methyl	88.4		P	60 - 110
Trifluralin	76.5		P	44 - 101

Reference Method: EPA 8270E

Batch ID: P413852

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	110		P	70 - 121
Alachlor	99.9		P	68 - 119
Ametryn	135		P	64 - 139
Atrazine	94.7		P	76 - 120
Atrazine Desethyl	67.3		P	44 - 126
Avobenzone	116		P	76 - 212
Azinphos Methyl	142		P	43 - 192
Azoxystrobin	105		P	36 - 224
Bromacil	79.8		P	52 - 121
Butylate	61.7		P	28 - 91.0
Caffeine	82.0		P	50 - 134
Carbophenothion	96.5		P	56 - 129
Carfentrazone Ethyl	124		P	60 - 141
Chlorfenapyr	85.1		P	56 - 115
Chlorpyrifos Ethyl	88.9		P	60 - 118
Chlorpyrifos Methyl	95.4		P	68 - 119
Coumaphos	171		P	18 - 250
Cyanazine	194		P	61 - 250
Cyprodinil	139		P	55 - 145
Demeton	86.1		P	30 - 159
Diazinon	116		P	70 - 123
Difenoconazole	183		P	49 - 204
Dimethenamid	88.1		P	64 - 115
Dimethomorph	116		P	12 - 219
Disulfoton	99.2		P	44 - 125

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P413852

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dithiopyr	99.2		P	64 - 115
EPTC	63.4		P	28 - 86.0
Ethion	72.9		P	33 - 125
Ethoprop	104		P	64 - 116
Etridiazole	69.4		P	34 - 91.0
Fenamiphos	104		P	12 - 127
Fenbuconazole	74.6		P	59 - 151
Fipronil	121		P	67 - 129
Fipronil Desulfinyl	108		P	65 - 127
Fipronil Sulfide	84.4		P	61 - 116
Fipronil Sulfone	100		P	55 - 117
Fluazifop-P-butyl	107		P	62 - 127
Fludioxonil	123		P	62 - 128
Flumioxazin	162		P	33 - 250
Flutolanil	111		P	56 - 127
Fluxapyroxad	64.2		P	45 - 128
Fonofos	88.5		P	62 - 111
Hexazinone	96.3		P	46 - 139
Imazalil	93.2		P	38 - 142
Iprodione	82.3		P	47 - 135
Loratadine	113		P	10 - 244
Malathion	96.8		P	61 - 139
Metalaxyl	93.5		P	10 - 119
Metolachlor	101		P	65 - 118
Metribuzin	89.0		P	51 - 250
Mevinphos	88.3		P	53 - 121
Molinate	76.7		P	42 - 96.0
Myclobutanil	73.7		P	55 - 128
Naled	78.5		P	10 - 98.0
Napropamide	89.2		P	49 - 121
Norflurazon	72.4		P	61 - 126
Octinoxate	82.2		P	30 - 159
Oxadiazon	91.5		P	59 - 116
Oxybenzone	78.3		P	61 - 139
Oxyfluorfen	109		P	64 - 137
Parathion Ethyl	99.6		P	70 - 112
Parathion Methyl	113		P	76 - 133
Pendimethalin	58.8		P	52 - 117
Phenytol	20.8		P	10 - 199
Phorate	94.7		P	48 - 121
Prodiamine	75.6		P	26 - 142
Prometon	72.5		P	43 - 123
Prometryn	127		P	66 - 127
Pronamide	104		P	75 - 121
Propanil	87.2		P	45 - 150
Propargite	139		P	42 - 208
Propiconazole	75.4		P	60 - 125
Pyraflufen Ethyl	133		P	70 - 138
Pyridaben	142		P	35 - 245
Pyriproxyfen	122		P	30 - 149
Simazine	90.9		P	72 - 125
Stirophos	84.6		P	29 - 164

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P413852

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfentrazone	43.6		P	21 - 139
Tebuconazole	20.7		P	10 - 115
Terbufos	122		P	60 - 123
Terbutylazine	92.7		P	72 - 115
Thiobencarb	94.0		P	31 - 139
Triadimefon	92.7		P	65 - 116

Reference Method: EPA 8276

Batch ID: P413778

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	80.9		P	61 - 118
Toxaphene	90.9		P	51 - 122

Reference Method: EPA 8321B

Batch ID: P413774

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.7		P	40 - 150
Aldicarb	64.1		P	30 - 150
Aldicarb Sulfone	89.3		P	40 - 150
Aldicarb Sulfoxide	88.4		P	40 - 150
Carbaryl	75.5		P	40 - 150
Carbofuran	82.5		P	40 - 150
Methiocarb	69.6		P	40 - 150
Methomyl	80.6		P	40 - 150
Oxamyl	90.6		P	40 - 150
Propoxur	87.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P413829

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.9		P	40 - 150
AMPA	50.1		P	40 - 150
Endothall	108		P	40 - 150
Glufosinate	75.2		P	40 - 150
Glyphosate	65.2		P	40 - 150
Sucralose	87.5		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P413908

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	68.8		P	40 - 150
2,4,5-T	52.3		P	40 - 150
Acetaminophen	59.2		P	30 - 150
Acetamiprid	93.4		P	40 - 150
Afidopyropen	65.2		P	30 - 150
Bentazon	98.3		P	30 - 150
Benzovindiflupyr	95.3		P	40 - 150
Carbamazepine	88.3		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P413908

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Clothianidin	95.5		P	40 - 150
Dinotefuran	93.7		P	40 - 150
Diuron	84.1		P	40 - 150
Fenuron	104		P	40 - 150
Fluridone	82.2		P	40 - 150
Hydrocodone	93.0		P	40 - 150
Ibuprofen	59.1		P	40 - 150
Imazapyr	86.2		P	40 - 150
Imidacloprid	93.4		P	40 - 150
Linuron	78.6		P	40 - 150
Mandestrobin	80.7		P	40 - 150
MCPP	73.2		P	40 - 150
Naproxen	62.2		P	40 - 150
Primidone	85.3		P	40 - 150
Pyraclostrobin	79.1		P	40 - 150
Silvex	44.1		P	40 - 150
Thiamethoxam	98.0		P	40 - 150
Tolfenpyrad	52.2		P	30 - 150
Triclopyr	51.7		P	40 - 150

Reference Method: SM 5310 B-2011

Batch ID: P413969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P414160

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326583	Ammonia-N	97.0	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414010

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326065	Kjeldahl Nitrogen	104	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414227

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326583	NO2NO3-N	96.8	96.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P413994

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326588	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P413778

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326196	Aldrin	50.1	60.4	P/P	10 - 89.0
2326196	Alpha-BHC	83.0	94.3	P/P	71 - 105
2326196	Alpha-Chlordane	58.1	70.4	P/P	43 - 107
2326196	Beta-BHC	91.2	98.5	P/P	57 - 152
2326196	Beta-Cyfluthrin	51.3	56.2	P/P	29 - 186
2326196	Bifenthrin	32.2	36.8	P/P	19 - 119
2326196	Chlorothalonil	88.1	98.2	P/P	10 - 245
2326196	Cis-Nonachlor	67.5	77.5	P/P	36 - 110
2326196	Cypermethrin	49.5	56.1	P/P	24 - 169
2326196	Dacthal	84.1	99.0	P/P	62 - 115
2326196	DDD-p,p'	62.8	74.2	P/P	36 - 109
2326196	DDE-p,p'	62.9	73.5	P/P	30 - 114
2326196	DDT-p,p'	61.6	70.2	P/P	42 - 108
2326196	Delta-BHC	95.6	101	P/P	60 - 164
2326196	Deltamethrin	42.9	61.7	P/P	10 - 210
2326196	Dichlobenil	79.9	89.0	P/P	23 - 108
2326196	Dicofol	58.6	67.1	P/P	44 - 109
2326196	Dieldrin	62.3	73.4	P/P	37 - 119
2326196	Endosulfan I	77.2	88.1	P/P	52 - 105
2326196	Endosulfan II	69.6	83.4	P/P	35 - 127
2326196	Endosulfan Sulfate	84.2	90.4	P/P	39 - 130
2326196	Endrin	72.1	84.3	P/P	30 - 116
2326196	Endrin Aldehyde	74.3	85.1	P/P	20 - 110
2326196	Endrin Ketone	79.8	91.9	P/P	48 - 134
2326196	Esfenvalerate	44.1	49.9	P/P	10 - 199
2326196	Ethalfuralin	62.5	74.1	P/P	48 - 95.0
2326196	Fenpropathrin	48.4	58.2	P/P	37 - 121
2326196	Gamma-BHC	84.8	95.8	P/P	61 - 126

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P413778

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326196	Gamma-Chlordane	60.1	67.9	P/P	39 - 105
2326196	Heptachlor	61.7	70.3	P/P	38 - 96.0
2326196	Heptachlor Epoxide	71.7	82.8	P/P	42 - 114
2326196	Hexachlorobenzene	64.3	72.2	P/P	39 - 93.0
2326196	Kepone	120	120	P/P	10 - 215
2326196	Lambda-Cyhalothrin	40.8	41.3	P/P	10 - 204
2326196	Methoprene	37.3	47.4	P/P	17 - 108
2326196	Methoxychlor	69.9	83.3	P/P	56 - 115
2326196	MGK-264	76.7	88.5	P/P	35 - 120
2326196	Mirex	41.5	50.1	P/P	10 - 178
2326196	Oxychlordane	68.7	75.3	P/P	47 - 91.0
2326196	Permethrin	45.4	54.0	P/P	27 - 170
2326196	Phenothrin	31.4	39.6	P/P	10 - 133
2326196	Piperonyl Butoxide	88.4	104	P/P	23 - 150
2326196	Prallethrin	76.0	80.8	P/P	21 - 113
2326196	Tau-Fluvalinate	37.3	42.6	P/P	16 - 158
2326196	Tetramethrin	86.0	101	P/P	22 - 132
2326196	Trans-Nonachlor	65.0	74.6	P/P	43 - 102
2326196	Triclosan Methyl	67.3	82.7	P/P	49 - 109
2326196	Trifluralin	60.5	69.2	P/P	48 - 93.0
2326546	PCB-1016	81.9	85.9	P/P	46 - 110
2326546	PCB-1260	97.4	89.5	P/P	42 - 111

Reference Method: EPA 8270E

Batch ID: P413852

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326579	Acetochlor	104	114	P/P	65 - 124
2326579	Alachlor	94.6	98.4	P/P	61 - 121
2326579	Ametryn	117	106	P/P	52 - 216
2326579	Avobenzene	116	111	P/P	59 - 206
2326579	Azinphos Methyl	177	173	P/P	40 - 292
2326579	Azoxystrobin	107	126	P/P	12 - 242
2326579	Bromacil	90.9	98.2	P/P	54 - 167
2326579	Butylate	51.0	50.6	P/P	14 - 94.0
2326579	Caffeine	98.4	94.2	P/P	10 - 226
2326579	Carbophenothion	89.0	103	P/P	49 - 122
2326579	Carfentrazone Ethyl	117	121	P/P	53 - 138
2326579	Chlorfenapyr	78.0	88.4	P/P	50 - 150
2326579	Chlorpyrifos Ethyl	83.0	95.7	P/P	52 - 122
2326579	Chlorpyrifos Methyl	83.8	97.2	P/P	66 - 117
2326579	Coumaphos	156	171	P/P	50 - 220
2326579	Cyanazine	185	197	P/P	43 - 245
2326579	Cyprodinil	130	139	P/P	50 - 150
2326579	Demeton	85.9	88.8	P/P	43 - 188
2326579	Diazinon	112	118	P/P	69 - 131
2326579	Difenoconazole	181	224	P/P	34 - 231
2326579	Dimethenamid	86.8	91.5	P/P	55 - 118
2326579	Dimethomorph	97.1	114	P/P	50 - 150
2326579	Disulfoton	84.8	102	P/P	38 - 141
2326579	Dithiopyr	98.6	105	P/P	42 - 116
2326579	EPTC	55.0	58.6	P/P	18 - 85.0

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P413852

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326579	Ethion	76.9	86.3	P/P	10 - 131
2326579	Ethoprop	104	114	P/P	65 - 129
2326579	Etridiazole	62.1	61.1	P/P	50 - 150
2326579	Fenamiphos	86.8	105	P/P	31 - 137
2326579	Fenbuconazole	146	156	P/P	57 - 160
2326579	Fipronil	119	126	P/P	62 - 132
2326579	Fipronil Desulfinyl	105	111	P/P	57 - 131
2326579	Fipronil Sulfide	80.9	93.2	P/P	15 - 138
2326579	Fluazifop-P-butyl	108	115	P/P	54 - 133
2326579	Fludioxonil	120	130	P/F	58 - 127
2326579	Flumioxazin	196	205	P/P	33 - 300
2326579	Flutolanil	105	111	P/P	42 - 130
2326579	Fluxapyroxad	64.9	79.6	P/P	23 - 141
2326579	Fonofos	89.3	86.0	P/P	58 - 119
2326579	Hexazinone	100	108	P/P	68 - 172
2326579	Imazalil	78.1	86.9	P/P	48 - 283
2326579	Iprodione	75.6	88.8	P/P	38 - 140
2326579	Loratadine	96.5	115	P/P	50 - 150
2326579	Malathion	103	111	P/P	40 - 137
2326579	Metalaxyl	88.9	93.0	P/P	21 - 129
2326579	Metolachlor	96.2	104	P/P	55 - 122
2326579	Metribuzin	91.2	89.3	P/P	38 - 187
2326579	Mevinphos	87.2	93.9	P/P	54 - 134
2326579	Molinate	70.9	77.7	P/P	41 - 97.0
2326579	Myclobutanil	82.1	87.4	P/P	56 - 125
2326579	Naled	80.9	91.5	P/P	10 - 108
2326579	Napropamide	84.8	91.5	P/P	50 - 150
2326579	Norflurazon	64.3	75.9	P/P	32 - 122
2326579	Octinoxate	79.4	79.5	P/P	25 - 150
2326579	Oxadiazon	81.9	89.5	P/P	40 - 119
2326579	Oxybenzone	80.9	80.0	P/P	59 - 147
2326579	Oxyfluorfen	123	135	P/P	61 - 153
2326579	Parathion Ethyl	93.2	101	P/P	59 - 130
2326579	Parathion Methyl	109	116	P/P	65 - 155
2326579	Pendimethalin	90.2	102	P/P	49 - 138
2326579	Phenytol	75.4	73.7	P/P	50 - 200
2326579	Phorate	77.6	82.5	P/P	54 - 161
2326579	Prodiamine	114	134	P/P	33 - 161
2326579	Prometon	112	137	P/P	48 - 140
2326579	Prometryn	124	133	P/P	55 - 134
2326579	Pronamide	105	111	P/P	66 - 137
2326579	Propanil	86.5	92.0	P/P	50 - 150
2326579	Propargite	145	148	P/P	50 - 200
2326579	Propiconazole	136	138	P/P	36 - 150
2326579	Pyraflufen Ethyl	129	136	P/P	50 - 150
2326579	Pyriproxyfen	139	148	P/P	10 - 165
2326579	Stirophos	84.7	94.0	P/P	50 - 150
2326579	Sulfentrazone	128	105	P/P	34 - 140
2326579	Tebuconazole	40.7	40.6	P/P	10 - 127
2326579	Terbufos	115	128	P/P	59 - 138
2326579	Terbutylazine	95.6	103	P/P	68 - 119
2326579	Thiobencarb	93.2	98.1	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P413852

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326579	Triadimefon	89.3	94.6	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P413778

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326546	Chlordane	91.5	83.3	P/P	55 - 128
2326546	Toxaphene	91.5	90.8	P/P	57 - 211

Reference Method: EPA 8321B
Batch ID: P413774

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326576	3-Hydroxycarbofuran	86.5	88.4	P/P	40 - 150
2326576	Aldicarb	71.3	76.9	P/P	30 - 150
2326576	Aldicarb Sulfone	98.0	101	P/P	40 - 150
2326576	Aldicarb Sulfoxide	50.3	52.2	P/P	40 - 150
2326576	Carbaryl	62.9	60.3	P/P	40 - 150
2326576	Carbofuran	75.8	76.1	P/P	40 - 150
2326576	Methiocarb	64.2	69.2	P/P	40 - 150
2326576	Methomyl	81.9	83.3	P/P	40 - 150
2326576	Oxamyl	92.4	96.4	P/P	40 - 150
2326576	Propoxur	78.7	80.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P413829

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326637	Acesulfame K	101	101	P/P	40 - 150
2326637	AMPA	49.0	49.7	P/P	40 - 150
2326637	Endothall	175	183	F/F	40 - 150
2326637	Glufosinate	68.1	61.6	P/P	40 - 150
2326637	Glyphosate	56.7	57.7	P/P	40 - 150
2326637	Sucralose	97.7	97.1	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P413908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326540	2,4-D	75.8	75.9	P/P	40 - 150
2326540	2,4,5-T	59.0	59.4	P/P	40 - 150
2326540	Acetaminophen	51.6	51.1	P/P	30 - 150
2326540	Acetamiprid	96.7	101	P/P	40 - 150
2326540	Afidopyropen	81.6	79.0	P/P	30 - 150
2326540	Bentazon	99.5	99.3	P/P	30 - 150
2326540	Benzovindiflupyr	88.2	86.7	P/P	40 - 150
2326540	Carbamazepine	89.4	88.9	P/P	40 - 150
2326540	Clothianidin	65.8	69.0	P/P	40 - 150
2326540	Dinotefuran	92.8	96.4	P/P	40 - 150
2326540	Diuron	78.0	86.7	P/P	40 - 150
2326540	Fenuron	90.9	94.0	P/P	40 - 150
2326540	Fluridone	80.9	81.7	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P413908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326540	Hydrocodone	85.6	89.2	P/P	40 - 150
2326540	Ibuprofen	59.9	61.9	P/P	40 - 150
2326540	Imazapyr	73.6	77.6	P/P	40 - 150
2326540	Imidacloprid	79.7	83.2	P/P	40 - 150
2326540	Linuron	71.3	68.7	P/P	40 - 150
2326540	Mandestrobin	76.6	78.4	P/P	40 - 150
2326540	MCPP	77.1	77.9	P/P	40 - 150
2326540	Naproxen	65.7	62.7	P/P	40 - 150
2326540	Primidone	68.7	74.5	P/P	40 - 150
2326540	Pyraclostrobin	72.9	77.3	P/P	40 - 150
2326540	Silvex	58.4	53.6	P/P	40 - 150
2326540	Thiamethoxam	83.6	86.6	P/P	40 - 150
2326540	Tolfenpyrad	44.0	46.8	P/P	30 - 150
2326540	Triclopyr	63.2	59.0	P/P	40 - 150

Reference Method: SM 5310 B-2011
Batch ID: P413969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2326583	Organic Carbon	97.5	98.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P414160

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326583	Ammonia-N	0.363	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P414010

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326065	Kjeldahl Nitrogen	2.85	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P414227

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326583	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P413994

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326588	Total-P	0.0193	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P413778

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326196	Aldrin	18.7	Spike	P	0 - 37
2326196	Alpha-BHC	12.8	Spike	P	0 - 16
2326196	Alpha-Chlordane	19.1	Spike	P	0 - 28
2326196	Beta-BHC	7.73	Spike	P	0 - 32
2326196	Beta-Cyfluthrin	9.11	Spike	P	0 - 41
2326196	Bifenthrin	13.5	Spike	P	0 - 36
2326196	Chlorothalonil	10.9	Spike	P	0 - 54
2326196	Cis-Nonachlor	13.8	Spike	P	0 - 33
2326196	Cypermethrin	12.5	Spike	P	0 - 38
2326196	Dacthal	16.3	Spike	P	0 - 23
2326196	DDD-p,p'	16.6	Spike	P	0 - 35
2326196	DDE-p,p'	15.5	Spike	P	0 - 27
2326196	DDT-p,p'	13.0	Spike	P	0 - 31
2326196	Delta-BHC	5.03	Spike	P	0 - 30
2326196	Deltamethrin	35.8	Spike	P	0 - 76
2326196	Dichlobenil	10.8	Spike	P	0 - 33
2326196	Dicofol	13.4	Spike	P	0 - 24
2326196	Dieldrin	15.2	Spike	P	0 - 35
2326196	Endosulfan I	13.2	Spike	P	0 - 25
2326196	Endosulfan II	18.1	Spike	P	0 - 31
2326196	Endosulfan Sulfate	7.09	Spike	P	0 - 38
2326196	Endrin	15.6	Spike	P	0 - 53
2326196	Endrin Aldehyde	13.6	Spike	P	0 - 81

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P413778

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326196	Endrin Ketone	14.1	Spike	P	0 - 33
2326196	Esfenvalerate	12.4	Spike	P	0 - 46
2326196	Ethalfuralin	17.0	Spike	P	0 - 22
2326196	Fenpropathrin	18.5	Spike	P	0 - 29
2326196	Gamma-BHC	12.1	Spike	P	0 - 17
2326196	Gamma-Chlordane	12.2	Spike	P	0 - 28
2326196	Heptachlor	13.0	Spike	P	0 - 28
2326196	Heptachlor Epoxide	14.4	Spike	P	0 - 23
2326196	Hexachlorobenzene	11.7	Spike	P	0 - 22
2326196	Kepone	0.384	Spike	P	0 - 61
2326196	Lambda-Cyhalothrin	1.29	Spike	P	0 - 52
2326196	Methoprene	23.7	Spike	P	0 - 38
2326196	Methoxychlor	17.6	Spike	P	0 - 29
2326196	MGK-264	14.2	Spike	P	0 - 41
2326196	Mirex	18.7	Spike	P	0 - 39
2326196	Oxychlordane	9.22	Spike	P	0 - 33
2326196	Permethrin	17.4	Spike	P	0 - 39
2326196	Phenothrin	23.1	Spike	P	0 - 52
2326196	Piperonyl Butoxide	16.2	Spike	P	0 - 91
2326196	Prallethrin	6.13	Spike	P	0 - 34
2326196	Tau-Fluvalinate	13.2	Spike	P	0 - 41
2326196	Tetramethrin	15.9	Spike	P	0 - 43
2326196	Trans-Nonachlor	13.8	Spike	P	0 - 31
2326196	Triclosan Methyl	20.6	Spike	P	0 - 24
2326196	Trifluralin	13.5	Spike	P	0 - 23
2326546	PCB-1016	4.71	Spike	P	0 - 32
2326546	PCB-1260	8.38	Spike	P	0 - 31

Reference Method: EPA 8270E

Batch ID: P413852

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326579	Acetochlor	8.74	Spike	P	0 - 27
2326579	Alachlor	3.98	Spike	P	0 - 27
2326579	Ametryn	6.43	Spike	P	0 - 34
2326579	Atrazine	11.3	Spike	P	0 - 41
2326579	Atrazine Desethyl	5.49	Spike	P	0 - 38
2326579	Avobenzone	3.81	Spike	P	0 - 30
2326579	Azinphos Methyl	2.44	Spike	P	0 - 62
2326579	Azoxystrobin	8.66	Spike	P	0 - 32
2326579	Bromacil	7.78	Spike	P	0 - 30
2326579	Butylate	0.738	Spike	P	0 - 59
2326579	Caffeine	4.20	Spike	P	0 - 60
2326579	Carbophenothion	14.7	Spike	P	0 - 25
2326579	Carfentrazone Ethyl	2.89	Spike	P	0 - 26
2326579	Chlorfenapyr	12.5	Spike	P	0 - 30
2326579	Chlorpyrifos Ethyl	14.2	Spike	P	0 - 27
2326579	Chlorpyrifos Methyl	14.8	Spike	P	0 - 26
2326579	Coumaphos	9.27	Spike	P	0 - 30
2326579	Cyanazine	6.52	Spike	P	0 - 58

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P413852

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326579	Cyprodinil	6.61	Spike	P	0 - 30
2326579	Demeton	3.33	Spike	P	0 - 25
2326579	Diazinon	5.56	Spike	P	0 - 29
2326579	Difenoconazole	21.4	Spike	P	0 - 25
2326579	Dimethenamid	5.23	Spike	P	0 - 30
2326579	Dimethomorph	16.3	Spike	P	0 - 30
2326579	Disulfoton	18.4	Spike	P	0 - 33
2326579	Dithiopyr	6.25	Spike	P	0 - 22
2326579	EPTC	6.30	Spike	P	0 - 38
2326579	Ethion	11.6	Spike	P	0 - 79
2326579	Ethoprop	9.20	Spike	P	0 - 23
2326579	Etridiazole	1.50	Spike	P	0 - 30
2326579	Fenamiphos	18.5	Spike	P	0 - 58
2326579	Fenbuconazole	6.13	Spike	P	0 - 37
2326579	Fipronil	5.54	Spike	P	0 - 33
2326579	Fipronil Desulfinyl	4.07	Spike	P	0 - 26
2326579	Fipronil Sulfide	11.1	Spike	P	0 - 37
2326579	Fipronil Sulfone	6.31	Spike	P	0 - 50
2326579	Fluazifop-P-butyl	5.55	Spike	P	0 - 24
2326579	Fludioxonil	8.40	Spike	P	0 - 26
2326579	Flumioxazin	4.55	Spike	P	0 - 37
2326579	Flutolanil	5.73	Spike	P	0 - 26
2326579	Fluxapyroxad	19.1	Spike	P	0 - 34
2326579	Fonofos	3.85	Spike	P	0 - 27
2326579	Hexazinone	7.83	Spike	P	0 - 36
2326579	Imazalil	10.6	Spike	P	0 - 65
2326579	Iprodione	16.1	Spike	P	0 - 33
2326579	Loratadine	17.4	Spike	P	0 - 30
2326579	Malathion	7.42	Spike	P	0 - 44
2326579	Metalaxyl	4.57	Spike	P	0 - 38
2326579	Metolachlor	7.39	Spike	P	0 - 36
2326579	Metribuzin	2.07	Spike	P	0 - 63
2326579	Mevinphos	7.36	Spike	P	0 - 26
2326579	Molinate	9.12	Spike	P	0 - 40
2326579	Myclobutanil	5.48	Spike	P	0 - 21
2326579	Naled	12.2	Spike	P	0 - 26
2326579	Napropamide	7.62	Spike	P	0 - 30
2326579	Norflurazon	16.6	Spike	P	0 - 24
2326579	Octinoxate	0.0714	Spike	P	0 - 30
2326579	Oxadiazon	7.60	Spike	P	0 - 27
2326579	Oxybenzone	1.10	Spike	P	0 - 30
2326579	Oxyfluorfen	9.19	Spike	P	0 - 24
2326579	Parathion Ethyl	7.76	Spike	P	0 - 28
2326579	Parathion Methyl	6.36	Spike	P	0 - 27
2326579	Pendimethalin	12.2	Spike	P	0 - 31
2326579	Phenytoin	2.28	Spike	P	0 - 30
2326579	Phorate	6.07	Spike	P	0 - 27
2326579	Prodiamine	16.5	Spike	P	0 - 52
2326579	Prometon	20.5	Spike	P	0 - 31
2326579	Prometryn	6.75	Spike	P	0 - 28
2326579	Pronamide	6.31	Spike	P	0 - 26

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P413852

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326579	Propanil	6.21	Spike	P	0 - 30
2326579	Propargite	2.20	Spike	P	0 - 30
2326579	Propiconazole	0.877	Spike	P	0 - 31
2326579	Pyraflufen Ethyl	4.81	Spike	P	0 - 30
2326579	Pyridaben	14.5	Spike	P	0 - 30
2326579	Pyriproxyfen	6.05	Spike	P	0 - 50
2326579	Simazine	3.60	Spike	P	0 - 29
2326579	Stirophos	10.4	Spike	P	0 - 30
2326579	Sulfentrazone	16.1	Spike	P	0 - 33
2326579	Tebuconazole	0.332	Spike	P	0 - 44
2326579	Terbufos	10.5	Spike	P	0 - 29
2326579	Terbuthylazine	7.12	Spike	P	0 - 27
2326579	Thiobencarb	5.10	Spike	P	0 - 30
2326579	Triadimefon	4.96	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P413778

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326546	Chlordane	9.33	Spike	P	0 - 25
2326546	Toxaphene	0.854	Spike	P	0 - 24

Reference Method: EPA 8321B

Batch ID: P413774

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326576	3-Hydroxycarbofuran	2.19	Spike	P	0 - 30
2326576	Aldicarb	7.54	Spike	P	0 - 30
2326576	Aldicarb Sulfone	2.78	Spike	P	0 - 30
2326576	Aldicarb Sulfoxide	3.59	Spike	P	0 - 30
2326576	Carbaryl	4.19	Spike	P	0 - 30
2326576	Carbofuran	0.339	Spike	P	0 - 30
2326576	Methiocarb	7.40	Spike	P	0 - 30
2326576	Methomyl	1.73	Spike	P	0 - 30
2326576	Oxamyl	4.21	Spike	P	0 - 30
2326576	Propoxur	2.21	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P413829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326637	Acesulfame K	0.497	Spike	P	0 - 30
2326637	AMPA	1.37	Spike	P	0 - 30
2326637	Endothall	4.30	Spike	P	0 - 30
2326637	Glufosinate	10.0	Spike	P	0 - 30
2326637	Glyphosate	1.66	Spike	P	0 - 30
2326637	Sucralose	0.531	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P413908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326540	2,4-D	0.139	Spike	P	0 - 30
2326540	2,4,5-T	0.624	Spike	P	0 - 30
2326540	Acetaminophen	1.06	Spike	P	0 - 30
2326540	Acetamiprid	4.42	Spike	P	0 - 30
2326540	Afidopyropen	3.23	Spike	P	0 - 30
2326540	Bentazon	0.156	Spike	P	0 - 30
2326540	Benzovindiflupyr	1.76	Spike	P	0 - 30
2326540	Carbamazepine	0.590	Spike	P	0 - 30
2326540	Clothianidin	4.71	Spike	P	0 - 30
2326540	Dinotefuran	3.84	Spike	P	0 - 30
2326540	Diuron	10.6	Spike	P	0 - 30
2326540	Fenuron	3.39	Spike	P	0 - 30
2326540	Fluridone	1.00	Spike	P	0 - 30
2326540	Hydrocodone	4.08	Spike	P	0 - 30
2326540	Ibuprofen	3.18	Spike	P	0 - 30
2326540	Imazapyr	4.67	Spike	P	0 - 30
2326540	Imidacloprid	4.31	Spike	P	0 - 30
2326540	Linuron	3.82	Spike	P	0 - 30
2326540	Mandestrobin	2.26	Spike	P	0 - 30
2326540	MCP	0.961	Spike	P	0 - 30
2326540	Naproxen	4.65	Spike	P	0 - 30
2326540	Primidone	8.16	Spike	P	0 - 30
2326540	Pyraclostrobin	5.85	Spike	P	0 - 30
2326540	Silvex	8.68	Spike	P	0 - 30
2326540	Thiamethoxam	3.52	Spike	P	0 - 30
2326540	Tolfenpyrad	6.09	Spike	P	0 - 30
2326540	Triclopyr	6.80	Spike	P	0 - 30

Reference Method: SM 5310 B-2011
Batch ID: P413969

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2326583	Organic Carbon	0.507	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2326576
Field Sample ID: G2CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	72.2	P	30 - 160

Lab Sample ID: 2326577
Field Sample ID: G2CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	57.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	43.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.3	P	30 - 160
EPA 8321B	Diuron-d6	72.2	P	30 - 160
EPA 8321B	Endothall-d6	134	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	71.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	55.6	P	30 - 160
EPA 8321B	Primidone-d5	69.6	P	30 - 160
EPA 8321B	Sucralose-d6	98.5	P	30 - 160

Lab Sample ID: 2326578
Field Sample ID: G2CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	89.5	P	38 - 115
EPA 8270E	Decachlorobiphenyl	79.5	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	61.3	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	60.8	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	68.1	P	30 - 97.0
EPA 8276	PCNB	74.0	P	45 - 119

Lab Sample ID: 2326579
Field Sample ID: G2CE0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	64.5	P	20 - 200
EPA 8270E	Simazine-d10	72.1	P	71 - 140
EPA 8270E	Terbufos-d10	85.4	P	62 - 131
EPA 8270E	Terphenyl-d14	76.7	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A112175
Included Lab Sample IDs: 2326577

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	87.7	71.5	P/P	60 - 160
Endothall	127	114	P/P	60 - 160
Glufosinate	95.0	68.9	P/P	60 - 160
Glyphosate	83.8	78.7	P/P	60 - 160

Reference Method: SM 5310 B-2011
Run ID: A112207
Included Lab Sample IDs: 2326583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	97.6	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A112212
Included Lab Sample IDs: 2326577

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	105	P/P	60 - 160
Sucralose	100	90.7	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A112222
Included Lab Sample IDs: 2326577

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.1	91.0	P/P	50 - 150
2,4,5-T	90.1	88.6	P/P	50 - 150
3-Hydroxycarbofuran	99.3	106	P/P	60 - 150
Acetaminophen	103	101	P/P	60 - 160
Acetamiprid	111	108	P/P	50 - 150
Afidopyropen	94.7	90.7	P/P	50 - 150
Aldicarb	94.5	102	P/P	60 - 150
Aldicarb Sulfone	101	99.5	P/P	50 - 150
Aldicarb Sulfoxide	95.5	97.7	P/P	50 - 150
Benzovindiflupyr	102	106	P/P	50 - 150
Carbamazepine	109	103	P/P	60 - 150
Carbaryl	97.6	104	P/P	60 - 150
Carbofuran	97.5	102	P/P	50 - 150
Clothianidin	106	103	P/P	60 - 150
Dinotefuran	99.3	103	P/P	50 - 150
Diuron	106	98.3	P/P	60 - 160
Fenuron	96.1	96.5	P/P	60 - 150
Fluridone	101	100	P/P	60 - 160
Hydrocodone	96.1	97.5	P/P	60 - 150
Ibuprofen	81.5	78.0	P/P	50 - 160
Imazapyr	91.0	90.9	P/P	50 - 150
Imidacloprid	94.5	100	P/P	60 - 150
Linuron	106	103	P/P	60 - 150
Mandestrobin	102	99.6	P/P	50 - 150
MCPP	90.8	96.1	P/P	50 - 150
Methiocarb	98.9	108	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A112222
Included Lab Sample IDs: 2326576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methomyl	97.0	98.5	P/P	50 - 150
Naproxen	102	87.3	P/P	50 - 160
Oxamyl	97.4	101	P/P	50 - 150
Primidone	97.2	100	P/P	60 - 150
Propoxur	107	108	P/P	50 - 150
Pyraclostrobin	103	101	P/P	60 - 150
Silvex	91.1	91.8	P/P	50 - 150
Thiamethoxam	104	104	P/P	50 - 150
Tolfenpyrad	105	106	P/P	60 - 150
Triclopyr	89.0	81.3	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A112242
Included Lab Sample IDs: 2326578

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.3		P	80 - 120
PCB-1260	96.4		P	80 - 120

Reference Method: EPA 8270E
Run ID: A112263
Included Lab Sample IDs: 2326578

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.9		P	80 - 120
Alpha-BHC	99.2		P	80 - 120
Alpha-Chlordane	92.7		P	80 - 120
Beta-BHC	88.8		P	80 - 120
Beta-Cyfluthrin	99.9		P	80 - 120
Bifenthrin	98.7		P	80 - 120
Chlorothalonil	92.1		P	80 - 120
Cis-Nonachlor	99.2		P	80 - 120
Cypermethrin	94.2		P	80 - 120
Dacthal	105		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	99.7		P	80 - 120
DDT-p,p'	98.0		P	80 - 120
Delta-BHC	90.8		P	80 - 120
Deltamethrin	97.2		P	80 - 120
Dichlobenil	94.6		P	80 - 120
Dicofol	92.0		P	80 - 120
Dieldrin	104		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	96.4		P	80 - 120
Endosulfan Sulfate	94.8		P	80 - 120
Endrin	106		P	80 - 120
Endrin Aldehyde	94.2		P	80 - 120
Endrin Ketone	98.8		P	80 - 120
Esfenvalerate	96.5		P	80 - 120
Ethalfuralin	103		P	80 - 120
Fenpropathrin	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A112263
Included Lab Sample IDs: 2326578

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-BHC	93.9		P	80 - 120
Gamma-Chlordane	96.0		P	80 - 120
Heptachlor	99.0		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	95.7		P	80 - 120
Kepone	73.7*		F	80 - 120
Lambda-Cyhalothrin	91.4		P	80 - 120
Methoprene	101		P	80 - 120
Methoxychlor	95.5		P	80 - 120
MGK-264	94.6		P	80 - 120
Mirex	96.9		P	80 - 120
Oxychlordane	96.0		P	80 - 120
Permethrin	100		P	80 - 120
Phenothrin	91.9		P	80 - 120
Piperonyl Butoxide	90.8		P	80 - 120
Prallethrin	95.0		P	80 - 120
Tau-Fluvalinate	97.6		P	80 - 120
Tetramethrin	101		P	80 - 120
Trans-Nonachlor	94.5		P	80 - 120
Triclosan Methyl	102		P	80 - 120
Trifluralin	100		P	80 - 120

Reference Method: EPA 8321B
Run ID: A112286
Included Lab Sample IDs: 2326577

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	97.4	88.3	P/P	50 - 160

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A112288
Included Lab Sample IDs: 2326583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.1	97.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A112297
Included Lab Sample IDs: 2326583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	104	102	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A112309
Included Lab Sample IDs: 2326578

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.3		P	80 - 120
Toxaphene	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A112329

Included Lab Sample IDs: 2326583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112339

Included Lab Sample IDs: 2326583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	104	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112489

Included Lab Sample IDs: 2326579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	102		P	80 - 120
Octinoxate	96.5		P	80 - 120
Oxybenzone	96.8		P	80 - 120

Reference Method: EPA 8270E

Run ID: A112507

Included Lab Sample IDs: 2326579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120
Alachlor	104		P	80 - 120
Ametryn	113		P	80 - 120
Atrazine Desethyl	107		P	80 - 120
Azinphos Methyl	96.6		P	80 - 120
Bromacil	101		P	80 - 120
Butylate	108		P	80 - 120
Caffeine	98.7		P	80 - 120
Carbophenothion	100		P	80 - 120
Carfentrazone Ethyl	98.1		P	80 - 120
Chlorfenapyr	104		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	104		P	80 - 120
Coumaphos	99.1		P	80 - 120
Cyanazine	99.9		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	104		P	80 - 120
Diazinon	98.1		P	80 - 120
Difenoconazole	99.9		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	99.2		P	80 - 120
Disulfoton	106		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	95.7		P	80 - 120
Ethion	103		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	103		P	80 - 120
Fenamiphos	98.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A112507
 Included Lab Sample IDs: 2326579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenbuconazole	99.5		P	80 - 120
Fipronil	107		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	99.1		P	80 - 120
Fipronil Sulfone	103		P	80 - 120
Fluazifop-P-butyl	102		P	80 - 120
Fludioxonil	100		P	80 - 120
Flumioxazin	97.0		P	80 - 120
Flutolanil	97.8		P	80 - 120
Fonofos	91.7		P	80 - 120
Hexazinone	99.7		P	80 - 120
Imazalil	91.5		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	96.1		P	80 - 120
Metalaxyl	104		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	97.6		P	80 - 120
Mevinphos	94.1		P	80 - 120
Molinate	95.8		P	80 - 120
Naled	104		P	80 - 120
Napropamide	101		P	80 - 120
Oxadiazon	107		P	80 - 120
Oxyfluorfen	101		P	80 - 120
Parathion Ethyl	99.3		P	80 - 120
Parathion Methyl	97.0		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytoin	104		P	80 - 120
Phorate	100		P	80 - 120
Prodiamine	107		P	80 - 120
Prometon	98.8		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	97.1		P	80 - 120
Propanil	99.3		P	80 - 120
Propargite	95.3		P	80 - 120
Propiconazole	103		P	80 - 120
Pyraflufen Ethyl	95.6		P	80 - 120
Pyridaben	97.6		P	80 - 120
Pyriproxyfen	96.6		P	80 - 120
Simazine	105		P	80 - 120
Stirophos	103		P	80 - 120
Sulfentrazone	102		P	80 - 120
Terbufos	104		P	80 - 120
Terbutylazine	101		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	118		P	80 - 120

Reference Method: EPA 8270E
 Run ID: A112508
 Included Lab Sample IDs: 2326579

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

Reference Method: EPA 8270E
Run ID: A112508
Included Lab Sample IDs: 2326579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	92.1		P	80 - 120
Azoxystrobin	103		P	80 - 120
Fluxapyroxad	97.3		P	80 - 120
Iprodione	95.1		P	80 - 120
Myclobutanil	103		P	80 - 120
Norflurazon	98.2		P	80 - 120
Tebuconazole	99.1		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 350.1 Rev. 2.0	Ammonia-N	98.6	97.0	97.4			0.363
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	104	108			2.85
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5	96.8	96.8			0.0
EPA 365.1 Rev. 2.0	Total-P	104	103	103			0.0193
EPA 8270E	Acetochlor	110	104	114			8.74
	Alachlor	99.9	94.6	98.4			3.98
	Aldrin	57.9	50.1	60.4			18.7
	Alpha-BHC	101	83.0	94.3			12.8
	Alpha-Chlordane	75.4	58.1	70.4			19.1
	Ametryn	135	117	106			6.43
	Atrazine	94.7					11.3
	Atrazine Desethyl	67.3					5.49
	Avobenzone	116	116	111			3.81
	Azinphos Methyl	142	177	173			2.44
	Azoxystrobin	105	107	126			8.66
	Beta-BHC	99.4	91.2	98.5			7.73
	Beta-Cyfluthrin	49.6	51.3	56.2			9.11
	Bifenthrin	31.0	32.2	36.8			13.5
	Bromacil	79.8	90.9	98.2			7.78
	Butylate	61.7	51.0	50.6			0.738
	Caffeine	82.0	98.4	94.2			4.20
	Carbophenothion	96.5	89.0	103			14.7
	Carfentrazone Ethyl	124	117	121			2.89
	Chlorfenapyr	85.1	78.0	88.4			12.5
	Chlorothalonil	71.8	88.1	98.2			10.9
	Chlorpyrifos Ethyl	88.9	83.0	95.7			14.2
	Chlorpyrifos Methyl	95.4	83.8	97.2			14.8
	Cis-Nonachlor	73.4	67.5	77.5			13.8
	Coumaphos	171	156	171			9.27
	Cyanazine	194	185	197			6.52
	Cypermethrin	55.7	49.5	56.1			12.5
	Cyprodinil	139	130	139			6.61
	Dacthal	99.7	84.1	99.0			16.3
	DDD-p,p'	81.3	62.8	74.2			16.6
	DDE-p,p'	79.3	62.9	73.5			15.5
	DDT-p,p'	73.2	61.6	70.2			13.0
	Delta-BHC	96.2	95.6	101			5.03
	Deltamethrin	52.8	42.9	61.7			35.8
	Demeton	86.1	85.9	88.8			3.33
	Diazinon	116	112	118			5.56
	Dichlobenil	98.2	79.9	89.0			10.8
	Dicofol	72.7	58.6	67.1			13.4
	Dieldrin	83.4	62.3	73.4			15.2
	Difenoconazole	183	181	224			21.4
	Dimethenamid	88.1	86.8	91.5			5.23
	Dimethomorph	116	97.1	114			16.3
	Disulfoton	99.2	84.8	102			18.4
	Dithiopyr	99.2	98.6	105			6.25
	Endosulfan I	84.2	77.2	88.1			13.2
	Endosulfan II	82.6	69.6	83.4			18.1
	Endosulfan Sulfate	95.7	84.2	90.4			7.09
	Endrin	86.5	72.1	84.3			15.6
	Endrin Aldehyde	92.6	74.3	85.1			13.6
	Endrin Ketone	98.2	79.8	91.9			14.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	EPTC	63.4	55.0	58.6		6.30
	Esfenvalerate	42.4	44.1	49.9		12.4
	Ethalfuralin	72.4	62.5	74.1		17.0
	Ethion	72.9	76.9	86.3		11.6
	Ethoprop	104	104	114		9.20
	Etridiazole	69.4	62.1	61.1		1.50
	Fenamiphos	104	86.8	105		18.5
	Fenbuconazole	74.6	146	156		6.13
	Fenpropathrin	60.1	48.4	58.2		18.5
	Fipronil	121	119	126		5.54
	Fipronil Desulfinyl	108	105	111		4.07
	Fipronil Sulfide	84.4	80.9	93.2		11.1
	Fipronil Sulfone	100				6.31
	Fluazifop-P-butyl	107	108	115		5.55
	Fludioxonil	123	120	130		8.40
	Flumioxazin	162	196	205		4.55
	Flutolanil	111	105	111		5.73
	Fluxapyroxad	64.2	64.9	79.6		19.1
	Fonofos	88.5	89.3	86.0		3.85
	Gamma-BHC	99.5	84.8	95.8		12.1
	Gamma-Chlordane	76.7	60.1	67.9		12.2
	Heptachlor	74.2	61.7	70.3		13.0
	Heptachlor Epoxide	83.2	71.7	82.8		14.4
	Hexachlorobenzene	78.0	64.3	72.2		11.7
	Hexazinone	96.3	100	108		7.83
	Imazalil	93.2	78.1	86.9		10.6
	Iprodione	82.3	75.6	88.8		16.1
	Kepone	127	120	120		0.384
	Lambda-Cyhalothrin	36.1	40.8	41.3		1.29
	Loratadine	113	96.5	115		17.4
	Malathion	96.8	103	111		7.42
	Metalaxyl	93.5	88.9	93.0		4.57
	Methoprene	39.2	37.3	47.4		23.7
	Methoxychlor	85.5	69.9	83.3		17.6
	Metolachlor	101	96.2	104		7.39
	Metribuzin	89.0	91.2	89.3		2.07
	Mevinphos	88.3	87.2	93.9		7.36
	MGK-264	86.3	76.7	88.5		14.2
	Mirex	47.1	41.5	50.1		18.7
	Molinate	76.7	70.9	77.7		9.12
	Myclobutanil	73.7	82.1	87.4		5.48
	Naled	78.5	80.9	91.5		12.2
	Napropamide	89.2	84.8	91.5		7.62
	Norflurazon	72.4	64.3	75.9		16.6
	Octinoxate	82.2	79.4	79.5		0.0714
	Oxadiazon	91.5	81.9	89.5		7.60
	Oxybenzone	78.3	80.9	80.0		1.10
	Oxychlordane	77.3	68.7	75.3		9.22
	Oxyfluorfen	109	123	135		9.19
	Parathion Ethyl	99.6	93.2	101		7.76
	Parathion Methyl	113	109	116		6.36
	PCB-1016	86.4	81.9	85.9		4.71
	PCB-1260	81.7	97.4	89.5		8.38
	Pendimethalin	58.8	90.2	102		12.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Permethrin	52.8	45.4	54.0			17.4
	Phenothrin	36.7	31.4	39.6			23.1
	Phenytoin	20.8	75.4	73.7			2.28
	Phorate	94.7	77.6	82.5			6.07
	Piperonyl Butoxide	100	88.4	104			16.2
	Prallethrin	80.3	76.0	80.8			6.13
	Prodimamine	75.6	114	134			16.5
	Prometon	72.5	112	137			20.5
	Prometryn	127	124	133			6.75
	Pronamide	104	105	111			6.31
	Propanil	87.2	86.5	92.0			6.21
	Propargite	139	145	148			2.20
	Propiconazole	75.4	136	138			0.877
	Pyraflufen Ethyl	133	129	136			4.81
	Pyridaben	142					14.5
	Pyriproxyfen	122	139	148			6.05
	Simazine	90.9					3.60
	Stirophos	84.6	84.7	94.0			10.4
	Sulfentrazone	43.6	128	105			16.1
	Tau-Fluvalinate	35.6	37.3	42.6			13.2
	Tebuconazole	20.7	40.7	40.6			0.332
	Terbufos	122	115	128			10.5
	Terbuthylazine	92.7	95.6	103			7.12
	Tetramethrin	91.9	86.0	101			15.9
	Thiobencarb	94.0	93.2	98.1			5.10
	Trans-Nonachlor	71.3	65.0	74.6			13.8
	Triadimefon	92.7	89.3	94.6			4.96
	Triclosan Methyl	88.4	67.3	82.7			20.6
	Trifluralin	76.5	60.5	69.2			13.5
EPA 8276	Chlordane	80.9	91.5	83.3			9.33
	Toxaphene	90.9	91.5	90.8			0.854
EPA 8321B	2,4-D	68.8	75.8	75.9			0.139
	2,4,5-T	52.3	59.0	59.4			0.624
	3-Hydroxycarbofuran	79.7	86.5	88.4			2.19
	Acesulfame K	98.9	101	101			0.497
	Acetaminophen	59.2	51.6	51.1			1.06
	Acetamiprid	93.4	96.7	101			4.42
	Afidopyropen	65.2	81.6	79.0			3.23
	Aldicarb	64.1	71.3	76.9			7.54
	Aldicarb Sulfone	89.3	98.0	101			2.78
	Aldicarb Sulfoxide	88.4	50.3	52.2			3.59
	AMPA	50.1	49.0	49.7			1.37
	Bentazon	98.3	99.5	99.3			0.156
	Benzovindiflupyr	95.3	88.2	86.7			1.76
	Carbamazepine	88.3	89.4	88.9			0.590
	Carbaryl	75.5	62.9	60.3			4.19
	Carbofuran	82.5	75.8	76.1			0.339
	Clothianidin	95.5	65.8	69.0			4.71
	Dinotefuran	93.7	92.8	96.4			3.84
	Diuron	84.1	78.0	86.7			10.6
	Endothall	108	175	183			4.30
	Fenuron	104	90.9	94.0			3.39
	Fluridone	82.2	80.9	81.7			1.00
	Glufosinate	75.2	68.1	61.6			10.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8321B	Glyphosate	65.2	56.7	57.7		1.66
	Hydrocodone	93.0	85.6	89.2		4.08
	Ibuprofen	59.1	59.9	61.9		3.18
	Imazapyr	86.2	73.6	77.6		4.67
	Imidacloprid	93.4	79.7	83.2		4.31
	Linuron	78.6	71.3	68.7		3.82
	Mandestrobin	80.7	76.6	78.4		2.26
	MCP	73.2	77.1	77.9		0.961
	Methiocarb	69.6	64.2	69.2		7.40
	Methomyl	80.6	81.9	83.3		1.73
	Naproxen	62.2	65.7	62.7		4.65
	Oxamyl	90.6	92.4	96.4		4.21
	Primidone	85.3	68.7	74.5		8.16
	Propoxur	87.6	78.7	80.5		2.21
	Pyraclostrobin	79.1	72.9	77.3		5.85
	Silvex	44.1	58.4	53.6		8.68
	Sucralose	87.5	97.7	97.1		0.531
	Thiamethoxam	98.0	83.6	86.6		3.52
	Tolfenpyrad	52.2	44.0	46.8		6.09
	Triclopyr	51.7	63.2	59.0		6.80
SM 5310 B-2011	Organic Carbon	99.6	97.5	98.2		0.507

Reference Method Descriptions

Method	Description	Associated Samples
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2326583
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2326583
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2326583
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2326583
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2326579
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2326578
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2326579
EPA 8270E	PCBs in water matrices by GC/MS/MS	2326578
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2326578
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2326576
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2326577
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2326583

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 350.1 Rev. 2.0	05/11/2022			05/20/2022 10:13	Judith K. Clark	2326583
EPA 351.2 Rev. 2.0	05/11/2022	05/19/2022 15:17	Samantha L Bates	05/23/2022 12:05	Alexandra J Mattheus	2326583
EPA 353.2 Rev. 2.0	05/11/2022			05/23/2022 10:09	Beverly Y. Sanders	2326583
EPA 365.1 Rev. 2.0	05/11/2022	05/19/2022 14:04	Simonne.V. Calhoun	05/20/2022 14:27	James L Waggeberby	2326583
EPA 8270E	05/11/2022	05/13/2022 08:00	Rasheda Ghaffari	05/18/2022 23:52	Michael Poppell	2326578
	05/11/2022	05/13/2022 08:00	Rasheda Ghaffari	05/19/2022 05:22	Arthur Maknenko	2326578
	05/11/2022	05/17/2022 08:00	Fe-Val Siddell	05/18/2022 19:10	Vandana T. Nagar	2326579
	05/11/2022	05/17/2022 08:00	Fe-Val Siddell	05/20/2022 14:17	Vandana T. Nagar	2326579
	05/11/2022	05/17/2022 08:00	Fe-Val Siddell	05/20/2022 15:35	Vandana T. Nagar	2326579
	05/11/2022	05/17/2022 08:00	Fe-Val Siddell	05/26/2022 15:16	Lipi Saha	2326579
EPA 8276	05/11/2022	05/13/2022 08:00	Rasheda Ghaffari	05/21/2022 09:15	Julie Wi	2326578
EPA 8321B	05/11/2022	05/16/2022 09:30	Manjita Shrestha	05/16/2022 12:35	Manjita Shrestha	2326577
	05/11/2022	05/16/2022 09:30	Manjita Shrestha	05/16/2022 15:06	Manjita Shrestha	2326577
	05/11/2022	05/16/2022 09:30	Manjita Shrestha	05/17/2022 18:31	Manjita Shrestha	2326577
	05/11/2022	05/16/2022 12:00	June Rhew	05/19/2022 13:59	Juyoung Kim	2326576
	05/11/2022	05/17/2022 09:30	June Rhew	05/19/2022 04:42	Juyoung Kim	2326577
	05/11/2022	05/17/2022 09:30	June Rhew	05/20/2022 04:26	Juyoung Kim	2326577
SM 5310 B-2011	05/11/2022			05/16/2022 21:35	Khloe J Berg	2326583