

Chemical Analysis Report

SW-DIST-2022-07-20-01

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

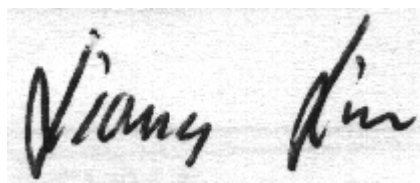
Event Description: **Run 8**
Request ID: **RQ-2022-06-27-06**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 03-AUG-2022 14:43

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

Case Narrative

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

Results for the following analytical groups are included in this report: 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: Mobley Ditch at 70

Collection Date/Time: 07/19/2022 12:30

Field ID: G3SW0056

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2342794	DEP SOP: NU-094-1	Color (true)	350	A	PCU	P416920	
	EPA 180.1 Rev. 2.0	Turbidity	20		NTU	P416926	
	EPA 300.0 Rev. 2.1	Chloride	160		mg Cl/L	P417209	
	SM 2320 B-2011	Total Alkalinity	172		mg CaCO3/L	P417354	
	SM 2540 C-2011	TDS	571		mg/L	P417299	
	SM 2540 D-2011	TSS	76		mg/L	P417288	
	SM 4500-F- C-2011	Fluoride	0.22		mg F/L	P417356	
2342795	EPA 350.1 Rev. 2.0	Ammonia-N	0.88		mg N/L	P417323	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	6.9		mg N/L	P417162	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P417226	
	EPA 365.1 Rev. 2.0	Total-P	4.1		mg P/L	P417094	
	SM 5310 B-2011	Organic Carbon	47		mg C/L	P417152	
2342802	EPA 8321B	Aldicarb	0.020	U	ug/L	P416888	
		Aldicarb Sulfone	0.0020	U	ug/L	P416888	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P416888	
		Carbaryl	0.0020	U	ug/L	P416888	
		Carbofuran	0.0020	U	ug/L	P416888	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P416888	
		Methiocarb	0.0020	U	ug/L	P416888	
		Methomyl	0.0020	U	ug/L	P416888	
		Oxamyl	0.0020	U	ug/L	P416888	
		Propoxur	0.0020	U	ug/L	P416888	
2342803		2,4-D	0.0066	I	ug/L	P416992	
		Acesulfame K	0.10	U	ug/L	P416713	
		2,4,5-T	0.0040	U	ug/L	P416992	
		AMPA	0.82		ug/L	P416713	
		Acetaminophen	0.020	I	ug/L	P416992	
		Acetamiprid	0.0020	U	ug/L	P416992	
		Endothall	0.25	U	ug/L	P416713	
		Glufosinate	0.10	U	ug/L	P416713	
		Glyphosate	7.8		ug/L	P416713	
		Afidopyropen	0.0020	U	ug/L	P416992	
		Bentazon	8.0E-04	U	ug/L	P416992	
		Sucralose	0.34		ug/L	P416713	
		Benzovindiflupyr	0.0020	U	ug/L	P416992	
		Carbamazepine	8.0E-04	U	ug/L	P416992	
		Clothianidin	0.0049	I	ug/L	P416992	
		Dinotefuran	0.0025	I	ug/L	P416992	
		Diuron	0.0020	U	ug/L	P416992	
		Fenuron	0.032	U	ug/L	P416992	
		Fluridone	8.0E-04	U	ug/L	P416992	
		Imazapyr	0.0040	U	ug/L	P416992	
		Hydrocodone	0.0020	U	ug/L	P416992	
		Ibuprofen	0.080	U	ug/L	P416992	
							MS

Field ID: G3SW0056

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2342803	EPA 8321B	Imidacloprid	0.0022	I	ug/L	P416992	
		Linuron	0.0040	U	ug/L	P416992	
		Mandestrobin	0.0020	U	ug/L	P416992	
		MCP	0.0040	U	ug/L	P416992	
		Naproxen	0.0080	U	ug/L	P416992	
		Primidone	0.0040	U	ug/L	P416992	
		Pyraclostrobin	0.0020	U	ug/L	P416992	
		Silvex	0.0040	U	ug/L	P416992	
		Thiamethoxam	0.0020	U	ug/L	P416992	
		Tolfenpyrad	0.0020	U	ug/L	P416992	
		Triclopyr	0.0040	U	ug/L	P416992	
2342804	EPA 8270E	Aldrin	0.76	U	ng/L	P417000	
		Alpha-BHC	0.12	U	ng/L	P417000	
		Alpha-Chlordane	0.23	U	ng/L	P417000	
		PCB-1016	2.3	U	ng/L	P417000	
		Beta-BHC	0.12	U	ng/L	P417000	
		PCB-1221	2.3	U	ng/L	P417000	
		Beta-Cyfluthrin	1.5	U	ng/L	P417000	
		PCB-1232	2.3	U	ng/L	P417000	
		Bifenthrin	0.58	U	ng/L	P417000	
		PCB-1242	2.3	U	ng/L	P417000	
		PCB-1248	2.3	U	ng/L	P417000	
		Chlorothalonil	1.5	U	ng/L	P417000	
		PCB-1254	2.3	U	ng/L	P417000	
		Cis-Nonachlor	0.23	U	ng/L	P417000	
		PCB-1260	2.3	U	ng/L	P417000	
		Cypermethrin	1.7	U	ng/L	P417000	
		Dacthal	0.17	U	ng/L	P417000	
		DDD-p,p'	0.29	U	ng/L	P417000	
		DDE-p,p'	0.23	U	ng/L	P417000	
		DDT-p,p'	0.29	U	ng/L	P417000	
		Delta-BHC	0.47	U	ng/L	P417000	
		Deltamethrin	1.5	U	ng/L	P417000	
		Dichlobenil	0.29	U	ng/L	P417000	
		Dicofol	1.5	U	ng/L	P417000	
		Dieldrin	0.61	I	ng/L	P417000	
		Endosulfan I	0.47	U	ng/L	P417000	
		Endosulfan II	0.47	U	ng/L	P417000	
		Endosulfan Sulfate	0.35	U	ng/L	P417000	
		Endrin	0.47	U	ng/L	P417000	
		Endrin Aldehyde	0.87	U	ng/L	P417000	
		Endrin Ketone	0.47	U	ng/L	P417000	
		Esfenvalerate	0.87	U	ng/L	P417000	
		Ethalfuralin	0.17	U	ng/L	P417000	
		Fenpropathrin	0.29	U	ng/L	P417000	

Field ID: G3SW0056

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes		
2342804	EPA 8270E	Gamma-BHC	0.15	U	ng/L	P417000			
		Gamma-Chlordane	0.23	U	ng/L	P417000			
		Heptachlor	0.23	U	ng/L	P417000			
		Heptachlor Epoxide	0.29	U	ng/L	P417000			
		Hexachlorobenzene**	1.2	U	ng/L	P417000			
		Kepone	5.8	U	ng/L	P417000			
		Lambda-Cyhalothrin	0.87	U	ng/L	P417000			
		Methoprene	0.87	U	ng/L	P417000			
		Methoxychlor	0.35	U	ng/L	P417000			
		MGK-264	6.2		ng/L	P417000	RPD		
		Mirex	0.41	U	ng/L	P417000			
		Oxychlordane	0.35	U	ng/L	P417000			
		Permethrin	1.9	U	ng/L	P417000			
		Phenothrin	1.0	U	ng/L	P417000			
		Piperonyl Butoxide	15		ng/L	P417000	RPD		
		Prallethrin	2.3	U	ng/L	P417000			
		Tau-Fluvalinate	0.29	U	ng/L	P417000			
		Tetramethrin	0.87	U	ng/L	P417000	MS		
		Trans-Nonachlor	0.23	U	ng/L	P417000			
		Triclosan Methyl	0.17	U	ng/L	P417000			
		Trifluralin	0.23	U	ng/L	P417000			
			EPA 8276	Chlordane	2.9	U	ng/L	P417000	
				Toxaphene	17	U	ng/L	P417000	
2342805	EPA 8270E	Oxybenzone**	10	U	ng/L	P416814			
		Acetochlor	0.26	U	ng/L	P416814			
		Octinoxate**	89		ng/L	P416814			
		Alachlor	0.26	U	ng/L	P416814			
		Avobenzone**	100	U	ng/L	P416814			
		Ametryn	3.1		ng/L	P416814			
		Atrazine	0.26	U	ng/L	P416814			
		PBDE-47**	4.1	U	ng/L	P416814			
		Atrazine Desethyl	1.5	U	ng/L	P416814			
		PBDE-99**	5.1	U	ng/L	P416814			
		Azinphos Methyl	2.0	U	ng/L	P416814			
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P416814			
		Azoxystrobin	0.51	U	ng/L	P416814			
		Bromacil	0.51	U	ng/L	P416814			
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P416814			
		Butylate	0.41	U	ng/L	P416814			
		Caffeine**	73		ng/L	P416814			
		Carbophenothion	0.20	U	ng/L	P416814			
		Carfentrazone Ethyl	0.10	U	ng/L	P416814			
		Chlorfenapyr	0.18	U	ng/L	P416814			
		Chlorpyrifos Ethyl	0.26	U	ng/L	P416814			

Field ID: G3SW0056

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2342805	EPA 8270E	Chlorpyrifos Methyl	0.051	U	ng/L	P416814	
		Coumaphos	0.51	U	ng/L	P416814	
		Cyanazine	3.3	U	ng/L	P416814	
		Cyprodinil	0.10	U	ng/L	P416814	
		Demeton	1.5	U	ng/L	P416814	
		Diazinon	0.13	U	ng/L	P416814	
		Difenoconazole	0.61	U	ng/L	P416814	
		Dimethenamid	0.10	U	ng/L	P416814	
		Dimethomorph	0.18	U	ng/L	P416814	
		Disulfoton	0.51	U	ng/L	P416814	
		Dithiopyr	0.18	U	ng/L	P416814	
		EPTC	1.3	U	ng/L	P416814	
		Ethion	0.15	U	ng/L	P416814	
		Ethoprop	0.10	U	ng/L	P416814	
		Etridiazole	0.15	U	ng/L	P416814	
		Fenamiphos	0.51	U	ng/L	P416814	
		Fenbuconazole	0.13	U	ng/L	P416814	
		Fipronil	0.26	U	ng/L	P416814	
		Fipronil Desulfinyl**	0.13	U	ng/L	P416814	
		Fipronil Sulfide	0.15	U	ng/L	P416814	
		Fipronil Sulfone	0.15	U	ng/L	P416814	
		Fluazifop-P-butyl	0.10	U	ng/L	P416814	
		Fludioxonil	0.13	U	ng/L	P416814	
		Flumioxazin	1.8	U	ng/L	P416814	
		Flutolanil	0.33	I	ng/L	P416814	
		Fluxapyroxad	0.10	U	ng/L	P416814	
		Fonofos	0.20	U	ng/L	P416814	
		Hexazinone	1.2	I	ng/L	P416814	
		Imazalil	0.77	U	ng/L	P416814	
		Iprodione	0.61	U	ng/L	P416814	
		Loratadine**	0.10	U	ng/L	P416814	
		Malathion	0.36	U	ng/L	P416814	
		Metalaxyl	0.77	U	ng/L	P416814	
		Metolachlor	2.1		ng/L	P416814	
		Metribuzin	2.6	U	ng/L	P416814	
		Mevinphos	1.1	U	ng/L	P416814	
		Molinate	1.6		ng/L	P416814	
		Myclobutanil	0.26	U	ng/L	P416814	
		Naled	1.5	U	ng/L	P416814	
		Napropamide	0.41	U	ng/L	P416814	
		Norflurazon	0.51	U	ng/L	P416814	
		Oxadiazon	0.90	I	ng/L	P416814	
		Oxyfluorfen	0.15	U	ng/L	P416814	
		Parathion Ethyl	0.26	U	ng/L	P416814	
		Parathion Methyl	0.56	U	ng/L	P416814	

Field ID: G3SW0056

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2342805	EPA 8270E	Pendimethalin	1.0	U	ng/L	P416814	MS
		Phenytion**	3.6	U	ng/L	P416814	
		Phorate	0.54	U	ng/L	P416814	
		Prodiamine	0.18	U	ng/L	P416814	
		Prometon	0.92	U	ng/L	P416814	
		Prometryn	0.20	U	ng/L	P416814	
		Pronamide	0.15	U	ng/L	P416814	
		Propanil	0.13	U	ng/L	P416814	
		Propargite	1.5	U	ng/L	P416814	
		Propiconazole	0.51	U	ng/L	P416814	
		Pyraflufen Ethyl	0.26	U	ng/L	P416814	
		Pyridaben	0.46	U	ng/L	P416814	
		Pyriproxyfen	0.13	U	ng/L	P416814	
		Simazine	0.51	U	ng/L	P416814	
		Stirophos	0.13	U	ng/L	P416814	MS
		Sulfentrazone	0.51	U	ng/L	P416814	
		Tebuconazole	0.94	I	ng/L	P416814	
		Terbufos	0.10	U	ng/L	P416814	
		Terbuthylazine	0.44	U	ng/L	P416814	
		Thiobencarb	0.61	U	ng/L	P416814	
		Triadimefon	0.26	U	ng/L	P416814	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8270E: MS accuracy for piperonyl butoxide and MGK-264 not assessed due to high content of these parameters in the sample spiked.

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P416920

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P416926

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417209

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417323

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417162

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417226

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417094

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

Reference Method: EPA 8270E
Batch ID: P416814

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	0.25	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P416814

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P416814

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P416814

Component	Result	Code	Units
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
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	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	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
Prodiatone	0.18	U	ng/L
Prodiatone	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
Sulfentrazole	0.50	U	ng/L
Sulfentrazole	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P416814

Component	Result	Code	Units
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P417000

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
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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417000

Component	Result	Code	Units
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	0.35	U	ng/L
Mirex	0.35	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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417000

Component	Result	Code	Units
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P417000

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

Reference Method: EPA 8321B

Batch ID: P416713

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: P416888

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

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Method Blank Results

Reference Method: EPA 8321B

Batch ID: P416888

Component	Result	Code	Units
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: EPA 8321B

Batch ID: P416992

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	0.0040	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
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P417354

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Reference Method: SM 2540 C-2011

Batch ID: P417299

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P417288

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P417356

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P417152

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P416920

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P416926

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	94.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417209

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417323

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417162

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.3		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417226

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417094

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	101		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P416814

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	104		P	50 - 150
Acetochlor	101		P	70 - 121
Alachlor	84.1		P	68 - 119
Ametryn	67.1		P	64 - 139
Atrazine	97.6		P	76 - 120
Atrazine Desethyl	65.1		P	44 - 126
Avobenzone	101		P	76 - 212
Azinphos Methyl	102		P	43 - 192
Azoxystrobin	110		P	36 - 224
Bromacil	84.6		P	52 - 121

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P416814

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Butylate	57.6		P	28 - 91.0
Caffeine	64.9		P	50 - 134
Carbophenothion	88.3		P	56 - 129
Carfentrazone Ethyl	83.1		P	60 - 141
Chlorfenapyr	81.2		P	56 - 115
Chlorpyrifos Ethyl	86.0		P	60 - 118
Chlorpyrifos Methyl	98.9		P	68 - 119
Coumaphos	94.9		P	18 - 250
Cyanazine	110		P	61 - 250
Cyprodinil	78.0		P	55 - 145
Demeton	81.6		P	30 - 159
Diazinon	91.5		P	70 - 123
Difenoconazole	129		P	49 - 204
Dimethenamid	89.4		P	64 - 115
Dimethomorph	112		P	12 - 219
Disulfoton	87.8		P	44 - 125
Dithiopyr	83.2		P	64 - 115
EPTC	42.3		P	28 - 86.0
Ethion	84.0		P	33 - 125
Ethoprop	92.9		P	64 - 116
Etridiazole	53.4		P	34 - 91.0
Fenamiphos	84.6		P	12 - 127
Fenbuconazole	91.0		P	59 - 151
Fipronil	88.2		P	67 - 129
Fipronil Desulfinyl	87.3		P	65 - 127
Fipronil Sulfide	85.3		P	61 - 116
Fipronil Sulfone	83.2		P	55 - 117
Fluazifop-P-butyl	96.7		P	62 - 127
Fludioxonil	100		P	62 - 128
Flumioxazin	136		P	33 - 250
Flutolanil	88.5		P	56 - 127
Fluxapyroxad	87.6		P	45 - 128
Fonofos	94.3		P	62 - 111
Hexazinone	97.9		P	46 - 139
Imazalil	92.0		P	38 - 142
Iprodione	100		P	47 - 135
Loratadine	95.9		P	10 - 244
Malathion	87.4		P	61 - 139
Metalaxyl	79.1		P	10 - 119
Metolachlor	82.3		P	65 - 118
Metribuzin	83.7		P	51 - 250
Mevinphos	89.3		P	53 - 121
Molinate	77.3		P	42 - 96.0
Myclobutanil	83.8		P	55 - 128
Naled	85.0		P	10 - 98.0
Napropamide	80.5		P	49 - 121
Norflurazon	82.3		P	61 - 126
Octinoxate	99.0		P	30 - 159
Oxadiazon	77.2		P	59 - 116
Oxybenzone	80.4		P	61 - 139
Oxyfluorfen	116		P	64 - 137
Parathion Ethyl	88.7		P	70 - 112

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P416814

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Parathion Methyl	119		P	76 - 133
PBDE-47	90.0		P	50 - 150
PBDE-99	91.4		P	50 - 150
Pendimethalin	98.4		P	52 - 117
Phenytoin	25.8		P	10 - 199
Phorate	93.2		P	48 - 121
Prodiamine	37.6		P	26 - 142
Prometon	81.3		P	43 - 123
Prometryn	86.9		P	66 - 127
Pronamide	93.0		P	75 - 121
Propanil	115		P	45 - 150
Propargite	57.4		P	42 - 208
Propiconazole	77.8		P	60 - 125
Pyraflufen Ethyl	83.4		P	70 - 138
Pyridaben	80.3		P	35 - 245
Pyriproxyfen	82.0		P	30 - 149
Simazine	87.8		P	72 - 125
Stirophos	69.1		P	29 - 164
Sulfentrazone	113		P	21 - 139
Tebuconazole	53.6		P	10 - 115
Terbufos	103		P	60 - 123
Terbutylazine	88.0		P	72 - 115
Thiobencarb	72.0		P	31 - 139
Tri-o-cresyl Phosphate	96.8		P	50 - 150
Triadimefon	79.6		P	65 - 116

Reference Method: EPA 8270E

Batch ID: P417000

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.6		P	10 - 92.0
Alpha-BHC	89.9		P	75 - 107
Alpha-Chlordane	77.7		P	50 - 108
Beta-BHC	98.1		P	36 - 138
Beta-Cyfluthrin	74.1		P	20 - 161
Bifenthrin	53.3		P	10 - 119
Chlorothalonil	49.8		P	26 - 186
Cis-Nonachlor	66.4		P	42 - 119
Cypermethrin	71.9		P	22 - 150
Dacthal	86.2		P	72 - 119
DDD-p,p'	79.4		P	45 - 107
DDE-p,p'	76.6		P	48 - 106
DDT-p,p'	71.5		P	48 - 110
Delta-BHC	96.5		P	54 - 140
Deltamethrin	82.6		P	22 - 189
Dichlobenil	98.5		P	36 - 117
Dicofol	81.7		P	46 - 155
Dieldrin	85.2		P	54 - 110
Endosulfan I	80.0		P	59 - 105
Endosulfan II	85.1		P	51 - 118
Endosulfan Sulfate	86.6		P	57 - 121
Endrin	85.8		P	10 - 120

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P417000

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Aldehyde	76.9		P	34 - 118
Endrin Ketone	97.7		P	69 - 177
Esfenvalerate	66.2		P	23 - 168
Ethalfuralin	69.8		P	49 - 99.0
Fenpropathrin	72.0		P	34 - 117
Gamma-BHC	91.8		P	72 - 117
Gamma-Chlordane	78.6		P	43 - 106
Heptachlor	66.5		P	41 - 98.0
Heptachlor Epoxide	83.2		P	57 - 106
Hexachlorobenzene	76.3		P	36 - 99.0
Kepone	29.3		P	16 - 215
Lambda-Cyhalothrin	60.5		P	21 - 177
Methoprene	53.8		P	10 - 119
Methoxychlor	77.6		P	60 - 112
MGK-264	90.1		P	26 - 122
Mirex	55.8		P	10 - 169
Oxychlordane	75.9		P	43 - 105
PCB-1016	87.4		P	48 - 112
PCB-1260	89.5		P	44 - 118
Permethrin	76.7		P	24 - 148
Phenothrin	51.7		P	10 - 106
Piperonyl Butoxide	132		P	10 - 139
Prallethrin	80.4		P	17 - 109
Tau-Fluvalinate	60.3		P	13 - 131
Tetramethrin	109		P	10 - 132
Trans-Nonachlor	79.2		P	44 - 106
Triclosan Methyl	86.9		P	59 - 109
Trifluralin	67.7		P	44 - 101

Reference Method: EPA 8276

Batch ID: P417000

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	109		P	61 - 116
Toxaphene	113		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P416713

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	80.2		P	40 - 150
AMPA	112		P	40 - 150
Endothall	102		P	40 - 150
Glufosinate	128		P	40 - 150
Glyphosate	103		P	40 - 150
Sucralose	102		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P416888

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	87.7		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P416888

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldicarb	68.1		P	30 - 150
Aldicarb Sulfone	91.6		P	40 - 150
Aldicarb Sulfoxide	94.6		P	40 - 150
Carbaryl	70.4		P	40 - 150
Carbofuran	80.9		P	40 - 150
Methiocarb	90.7		P	40 - 150
Methomyl	90.3		P	40 - 150
Oxamyl	84.8		P	40 - 150
Propoxur	73.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P416992

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	72.9		P	40 - 150
2,4,5-T	64.6		P	40 - 150
Acetaminophen	85.8		P	30 - 150
Acetamiprid	63.4		P	40 - 150
Afidopyropen	66.2		P	30 - 150
Bentazon	104		P	30 - 150
Benzovindiflupyr	93.8		P	40 - 150
Carbamazepine	92.5		P	40 - 150
Clothianidin	101		P	40 - 150
Dinotefuran	90.9		P	40 - 150
Diuron	80.7		P	40 - 150
Fenuron	93.0		P	40 - 150
Fluridone	100		P	40 - 150
Hydrocodone	90.6		P	40 - 150
Ibuprofen	89.2		P	40 - 150
Imazapyr	89.8		P	40 - 150
Imidacloprid	92.2		P	40 - 150
Linuron	87.9		P	40 - 150
Mandestrobin	90.7		P	40 - 150
MCPP	87.6		P	40 - 150
Naproxen	66.2		P	40 - 150
Primidone	79.7		P	40 - 150
Pyraclostrobin	77.1		P	40 - 150
Silvex	55.3		P	40 - 150
Thiamethoxam	90.4		P	40 - 150
Tolfenpyrad	44.8		P	30 - 150
Triclopyr	66.5		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P417354

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.1		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P417356

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

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P417356

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	104		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P417152

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417209

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342640	Chloride	96.9		P	90 - 110
2342883	Chloride	99.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417323

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342760	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417162

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342904	Kjeldahl Nitrogen	102	96.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417226

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342904	NO2NO3-N	98.8		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417094

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342042	Total-P	102	103	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P416814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2341420	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.0	95.7	P/P	50 - 150
2341420	Acetochlor	104	106	P/P	65 - 124
2341420	Alachlor	94.7	114	P/P	61 - 121
2341420	Ametryn	176	128	P/P	52 - 216
2341420	Atrazine	96.7	101	P/P	68 - 133
2341420	Atrazine Desethyl	33.0	19.8	P/P	15 - 160
2341420	Avobenzone	89.5	91.5	P/P	59 - 206
2341420	Azinphos Methyl	99.9	121	P/P	40 - 292
2341420	Azoxystrobin	133	140	P/P	12 - 242
2341420	Bromacil	80.9	113	P/P	54 - 167
2341420	Butylate	61.1	62.7	P/P	14 - 94.0
2341420	Caffeine	78.5	71.3	P/P	10 - 226
2341420	Carbophenothion	83.7	83.7	P/P	49 - 122
2341420	Carfentrazone Ethyl	110	101	P/P	53 - 138
2341420	Chlorfenapyr	73.1	69.1	P/P	50 - 150
2341420	Chlorpyrifos Ethyl	83.2	99.9	P/P	52 - 122
2341420	Chlorpyrifos Methyl	106	107	P/P	66 - 117
2341420	Coumaphos	80.5	83.1	P/P	50 - 220
2341420	Cyanazine	105	126	P/P	43 - 245
2341420	Cyprodinil	75.7	101	P/P	50 - 150
2341420	Demeton	84.8	102	P/P	43 - 188

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P416814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2341420	Diazinon	108	102	P/P	69 - 131
2341420	Difenoconazole	116	118	P/P	34 - 231
2341420	Dimethenamid	89.4	92.5	P/P	55 - 118
2341420	Dimethomorph	131	144	P/P	50 - 150
2341420	Disulfoton	92.6	96.1	P/P	38 - 141
2341420	Dithiopyr	64.5	77.9	P/P	42 - 116
2341420	EPTC	33.6	36.3	P/P	18 - 85.0
2341420	Ethion	77.2	114	P/P	10 - 131
2341420	Ethoprop	108	114	P/P	65 - 129
2341420	Etridiazole	61.4	65.0	P/P	50 - 150
2341420	Fenamiphos	95.7	78.0	P/P	31 - 137
2341420	Fenbuconazole	82.1	110	P/P	57 - 160
2341420	Fipronil	79.3	121	P/P	62 - 132
2341420	Fipronil Desulfinyl	101	119	P/P	57 - 131
2341420	Fluazifop-P-butyl	106	103	P/P	54 - 133
2341420	Fludioxonil	82.2	102	P/P	58 - 127
2341420	Flumioxazin	126	121	P/P	33 - 300
2341420	Flutolanil	72.0	81.7	P/P	42 - 130
2341420	Fluxapyroxad	95.3	93.4	P/P	23 - 141
2341420	Fonofos	103	107	P/P	58 - 119
2341420	Hexazinone	121	119	P/P	68 - 172
2341420	Imazalil	95.0	87.5	P/P	48 - 283
2341420	Iprodione	74.4	100	P/P	38 - 140
2341420	Loratadine	113	128	P/P	50 - 150
2341420	Malathion	81.1	109	P/P	40 - 137
2341420	Metalaxyl	111	121	P/P	21 - 129
2341420	Metolachlor	85.6	98.0	P/P	55 - 122
2341420	Metribuzin	73.9	74.3	P/P	38 - 187
2341420	Mevinphos	101	115	P/P	54 - 134
2341420	Molinate	85.9	83.1	P/P	41 - 97.0
2341420	Myclobutanil	86.3	101	P/P	56 - 125
2341420	Naled	68.7	78.3	P/P	10 - 108
2341420	Napropamide	74.5	86.1	P/P	50 - 150
2341420	Norflurazon	72.6	89.9	P/P	32 - 122
2341420	Octinoxate	80.8	86.5	P/P	25 - 150
2341420	Oxadiazon	63.7	77.8	P/P	40 - 119
2341420	Oxybenzone	83.2	80.1	P/P	59 - 147
2341420	Oxyfluorfen	121	126	P/P	61 - 153
2341420	Parathion Ethyl	96.0	91.5	P/P	59 - 130
2341420	Parathion Methyl	137	120	P/P	65 - 155
2341420	PBDE-47	87.1	83.0	P/P	50 - 150
2341420	PBDE-99	85.0	80.8	P/P	50 - 150
2341420	Pendimethalin	120	122	P/P	49 - 138
2341420	Phenytoin	24.3	27.2	F/F	50 - 200
2341420	Phorate	104	126	P/P	54 - 161
2341420	Prodiamine	61.0	66.5	P/P	33 - 161
2341420	Prometon	80.8	101	P/P	48 - 140
2341420	Prometryn	67.9	75.1	P/P	55 - 134
2341420	Pronamide	96.4	91.6	P/P	66 - 137
2341420	Propanil	116	113	P/P	50 - 150
2341420	Propargite	61.0	66.7	P/P	50 - 200
2341420	Propiconazole	50.9	80.0	P/P	36 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P416814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2341420	Pyraflufen Ethyl	87.5	86.8	P/P	50 - 150
2341420	Pyridaben	80.6	91.5	P/P	50 - 200
2341420	Pyriproxyfen	69.0	78.4	P/P	10 - 165
2341420	Simazine	89.1	88.4	P/P	57 - 145
2341420	Stirophos	27.3	29.8	F/F	50 - 150
2341420	Tebuconazole	23.0	50.8	P/P	10 - 127
2341420	Terbufos	121	125	P/P	59 - 138
2341420	Terbuthylazine	107	108	P/P	68 - 119
2341420	Thiobencarb	69.1	74.2	P/P	50 - 150
2341420	Tri-o-cresyl Phosphate	91.2	85.0	P/P	50 - 150
2341420	Triadimefon	76.7	87.5	P/P	50 - 150

Reference Method: EPA 8270E

Batch ID: P417000

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342814	PCB-1016	95.2	90.7	P/P	46 - 111
2342814	PCB-1260	96.7	96.9	P/P	45 - 114
2343192	Aldrin	64.2	59.7	P/P	20 - 82.0
2343192	Alpha-BHC	91.0	93.6	P/P	71 - 109
2343192	Alpha-Chlordane	69.7	63.5	P/P	42 - 106
2343192	Beta-BHC	94.6	104	P/P	69 - 180
2343192	Beta-Cyfluthrin	117	120	P/P	18 - 175
2343192	Bifenthrin	104	107	P/P	21 - 128
2343192	Chlorothalonil	182	215	P/P	10 - 300
2343192	Cis-Nonachlor	69.7	65.3	P/P	34 - 106
2343192	Cypermethrin	105	115	P/P	22 - 158
2343192	Dacthal	82.2	96.5	P/P	54 - 116
2343192	DDD-p,p'	63.5	61.4	P/P	34 - 107
2343192	DDE-p,p'	59.5	52.9	P/P	33 - 110
2343192	DDT-p,p'	67.4	70.2	P/P	50 - 122
2343192	Delta-BHC	105	113	P/P	77 - 193
2343192	Deltamethrin	120	125	P/P	10 - 195
2343192	Dichlobenil	62.1	70.1	P/P	25 - 113
2343192	Dicofol	94.5	105	P/P	38 - 247
2343192	Dieldrin	68.9	62.8	P/P	45 - 118
2343192	Endosulfan I	81.8	78.7	P/P	51 - 106
2343192	Endosulfan II	65.8	68.7	P/P	37 - 122
2343192	Endosulfan Sulfate	83.6	74.4	P/P	43 - 132
2343192	Endrin	73.2	75.3	P/P	29 - 101
2343192	Endrin Aldehyde	32.6	30.9	P/P	19 - 110
2343192	Endrin Ketone	86.3	85.0	P/P	60 - 140
2343192	Esfenvalerate	115	120	P/P	26 - 199
2343192	Ethalfuralin	67.9	71.8	P/P	45 - 99.0
2343192	Fenpropathrin	103	91.5	P/P	35 - 120
2343192	Gamma-BHC	97.8	104	P/P	63 - 128
2343192	Gamma-Chlordane	63.3	64.0	P/P	40 - 104
2343192	Heptachlor	67.7	68.6	P/P	36 - 97.0
2343192	Heptachlor Epoxide	72.8	72.2	P/P	49 - 184
2343192	Hexachlorobenzene	69.0	72.2	P/P	39 - 96.0
2343192	Kepone	44.2	50.2	P/P	10 - 217
2343192	Lambda-Cyhalothrin	110	115	P/P	21 - 193

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P417000

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343192	Methoprene	75.0	58.9	P/P	20 - 106
2343192	Methoxychlor	83.0	96.9	P/P	53 - 118
2343192	Mirex	65.7	56.3	P/P	26 - 92.0
2343192	Oxychlordane	72.8	71.6	P/P	44 - 99.0
2343192	Permethrin	110	104	P/P	33 - 182
2343192	Phenothrin	101	129	P/P	10 - 129
2343192	Prallethrin	72.9	69.5	P/P	24 - 113
2343192	Tau-Fluvalinate	107	111	P/P	14 - 149
2343192	Tetramethrin	144	156	P/F	17 - 151
2343192	Trans-Nonachlor	71.3	78.0	P/P	42 - 102
2343192	Triclosan Methyl	83.5	85.1	P/P	48 - 108
2343192	Trifluralin	68.4	69.2	P/P	47 - 96.0

Reference Method: EPA 8276
Batch ID: P417000

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342814	Chlordane	110	102	P/P	53 - 126
2342814	Toxaphene	110	103	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P416713

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342112	Acesulfame K	67.2	64.6	P/P	40 - 150
2342112	AMPA	87.5	88.8	P/P	40 - 150
2342112	Endothall	158	148	F/P	40 - 150
2342112	Glufosinate	84.7	85.2	P/P	40 - 150
2342112	Glyphosate	88.0	81.5	P/P	40 - 150
2342112	Sucralose	98.9	96.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P416888

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2341582	3-Hydroxycarbofuran	91.7	98.3	P/P	40 - 150
2341582	Aldicarb	51.6	64.1	P/P	30 - 150
2341582	Aldicarb Sulfone	108	109	P/P	40 - 150
2341582	Aldicarb Sulfoxide	45.3	47.2	P/P	40 - 150
2341582	Carbaryl	58.5	63.5	P/P	40 - 150
2341582	Carbofuran	65.6	64.4	P/P	40 - 150
2341582	Methiocarb	74.4	69.9	P/P	40 - 150
2341582	Methomyl	75.9	81.9	P/P	40 - 150
2341582	Oxamyl	76.1	80.9	P/P	40 - 150
2341582	Propoxur	56.2	62.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P416992

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342488	2,4-D	78.5	74.0	P/P	40 - 150
2342488	2,4,5-T	58.5	63.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P416992

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342488	Acetaminophen	81.5	83.3	P/P	30 - 150
2342488	Acetamiprid	76.2	69.8	P/P	40 - 150
2342488	Afidopyropen	61.9	63.4	P/P	30 - 150
2342488	Bentazon	94.7	109	P/P	30 - 150
2342488	Benzovindiflupyr	75.0	92.8	P/P	40 - 150
2342488	Carbamazepine	84.4	87.8	P/P	40 - 150
2342488	Clothianidin	95.5	94.4	P/P	40 - 150
2342488	Dinotefuran	83.0	87.9	P/P	40 - 150
2342488	Diuron	72.6	74.2	P/P	40 - 150
2342488	Fenuron	87.0	89.2	P/P	40 - 150
2342488	Fluridone	88.2	94.5	P/P	40 - 150
2342488	Hydrocodone	81.8	85.3	P/P	40 - 150
2342488	Ibuprofen	68.7	68.9	P/P	40 - 150
2342488	Imazapyr	75.6	81.9	P/P	40 - 150
2342488	Imidacloprid	89.0	90.5	P/P	40 - 150
2342488	Linuron	83.9	73.8	P/P	40 - 150
2342488	Mandestrobin	79.8	85.4	P/P	40 - 150
2342488	MCPP	79.1	78.8	P/P	40 - 150
2342488	Naproxen	74.4	67.7	P/P	40 - 150
2342488	Primidone	84.8	85.3	P/P	40 - 150
2342488	Pyraclostrobin	74.4	76.0	P/P	40 - 150
2342488	Silvex	59.0	65.8	P/P	40 - 150
2342488	Thiamethoxam	84.9	87.1	P/P	40 - 150
2342488	Tolfenpyrad	47.5	49.4	P/P	30 - 150
2342488	Triclopyr	64.1	68.1	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P417356

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342914	Fluoride	103	103	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P417152

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342715	Organic Carbon	94.0	94.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P416920

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342794	Color (true)	17.9	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P416926

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342499	Turbidity	2.30	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417209

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342640	Chloride	0.734	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417323

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342760	Ammonia-N	0.985	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417162

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342904	Kjeldahl Nitrogen	4.61	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417226

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342904	NO2NO3-N	1.69	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417094

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342042	Total-P	0.990	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P416814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2341420	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	1.76	Spike	P	0 - 30
2341420	Acetochlor	2.13	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P416814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2341420	Alachlor	18.9	Spike	P	0 - 27
2341420	Ametryn	31.4	Spike	P	0 - 34
2341420	Atrazine	2.64	Spike	P	0 - 41
2341420	Atrazine Desethyl	22.8	Spike	P	0 - 38
2341420	Avobenzone	2.14	Spike	P	0 - 30
2341420	Azinphos Methyl	18.8	Spike	P	0 - 62
2341420	Azoxystrobin	5.25	Spike	P	0 - 32
2341420	Bromacil	22.4	Spike	P	0 - 30
2341420	Butylate	2.53	Spike	P	0 - 59
2341420	Caffeine	8.70	Spike	P	0 - 60
2341420	Carbophenothion	0.0385	Spike	P	0 - 25
2341420	Carfentrazone Ethyl	8.55	Spike	P	0 - 26
2341420	Chlorfenapyr	5.55	Spike	P	0 - 30
2341420	Chlorpyrifos Ethyl	18.3	Spike	P	0 - 27
2341420	Chlorpyrifos Methyl	0.687	Spike	P	0 - 26
2341420	Coumaphos	3.26	Spike	P	0 - 30
2341420	Cyanazine	17.8	Spike	P	0 - 58
2341420	Cyprodinil	28.9	Spike	P	0 - 30
2341420	Demeton	18.8	Spike	P	0 - 25
2341420	Diazinon	5.10	Spike	P	0 - 29
2341420	Difenoconazole	1.78	Spike	P	0 - 25
2341420	Dimethenamid	3.40	Spike	P	0 - 30
2341420	Dimethomorph	9.22	Spike	P	0 - 30
2341420	Disulfoton	3.74	Spike	P	0 - 33
2341420	Dithiopyr	16.8	Spike	P	0 - 22
2341420	EPTC	7.47	Spike	P	0 - 38
2341420	Ethion	38.7	Spike	P	0 - 79
2341420	Ethoprop	5.41	Spike	P	0 - 23
2341420	Etridiazole	5.77	Spike	P	0 - 30
2341420	Fenamiphos	20.4	Spike	P	0 - 58
2341420	Fenbuconazole	29.0	Spike	P	0 - 37
2341420	Fipronil	29.4	Spike	P	0 - 33
2341420	Fipronil Desulfinyl	15.6	Spike	P	0 - 26
2341420	Fipronil Sulfide	33.9	Spike	P	0 - 37
2341420	Fipronil Sulfone	24.0	Spike	P	0 - 50
2341420	Fluazifop-P-butyl	2.95	Spike	P	0 - 24
2341420	Fludioxonil	21.8	Spike	P	0 - 26
2341420	Flumioxazin	3.66	Spike	P	0 - 37
2341420	Flutolanil	12.7	Spike	P	0 - 26
2341420	Fluxapyroxad	2.10	Spike	P	0 - 34
2341420	Fonofos	4.44	Spike	P	0 - 27
2341420	Hexazinone	1.54	Spike	P	0 - 36
2341420	Imazalil	8.19	Spike	P	0 - 65
2341420	Iprodione	29.9	Spike	P	0 - 33
2341420	Loratadine	12.7	Spike	P	0 - 30
2341420	Malathion	29.2	Spike	P	0 - 44
2341420	Metalaxyl	8.27	Spike	P	0 - 38
2341420	Metolachlor	13.5	Spike	P	0 - 36
2341420	Metribuzin	0.464	Spike	P	0 - 63
2341420	Mevinphos	13.7	Spike	P	0 - 26
2341420	Molinate	3.28	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P416814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2341420	Myclobutanil	15.5	Spike	P	0 - 21
2341420	Naled	13.0	Spike	P	0 - 26
2341420	Napropamide	14.4	Spike	P	0 - 30
2341420	Norflurazon	21.3	Spike	P	0 - 24
2341420	Octinoxate	5.48	Spike	P	0 - 30
2341420	Oxadiazon	20.0	Spike	P	0 - 27
2341420	Oxybenzone	3.83	Spike	P	0 - 30
2341420	Oxyfluorfen	3.60	Spike	P	0 - 24
2341420	Parathion Ethyl	4.87	Spike	P	0 - 28
2341420	Parathion Methyl	13.3	Spike	P	0 - 27
2341420	PBDE-47	4.89	Spike	P	0 - 30
2341420	PBDE-99	5.05	Spike	P	0 - 30
2341420	Pendimethalin	1.32	Spike	P	0 - 31
2341420	Phenytoin	11.4	Spike	P	0 - 30
2341420	Phorate	18.6	Spike	P	0 - 27
2341420	Prodiamine	8.55	Spike	P	0 - 52
2341420	Prometon	22.1	Spike	P	0 - 31
2341420	Prometryn	10.1	Spike	P	0 - 28
2341420	Pronamide	5.13	Spike	P	0 - 26
2341420	Propanil	2.53	Spike	P	0 - 30
2341420	Propargite	8.97	Spike	P	0 - 30
2341420	Propiconazole	25.3	Spike	P	0 - 31
2341420	Pyraflufen Ethyl	0.794	Spike	P	0 - 30
2341420	Pyridaben	12.6	Spike	P	0 - 30
2341420	Pyriproxyfen	12.8	Spike	P	0 - 50
2341420	Simazine	0.752	Spike	P	0 - 29
2341420	Stirophos	8.76	Spike	P	0 - 30
2341420	Sulfentrazone	25.9	Spike	P	0 - 33
2341420	Tebuconazole	36.0	Spike	P	0 - 44
2341420	Terbufos	3.52	Spike	P	0 - 29
2341420	Terbuthylazine	0.176	Spike	P	0 - 27
2341420	Thiobencarb	7.14	Spike	P	0 - 30
2341420	Tri-o-cresyl Phosphate	6.93	Spike	P	0 - 30
2341420	Triadimefon	13.1	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P417000

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342814	PCB-1016	4.88	Spike	P	0 - 32
2342814	PCB-1260	0.155	Spike	P	0 - 31
2343192	Aldrin	7.31	Spike	P	0 - 41
2343192	Alpha-BHC	2.83	Spike	P	0 - 25
2343192	Alpha-Chlordane	8.26	Spike	P	0 - 33
2343192	Beta-BHC	9.21	Spike	P	0 - 36
2343192	Beta-Cyfluthrin	2.46	Spike	P	0 - 42
2343192	Bifenthrin	2.84	Spike	P	0 - 53
2343192	Chlorothalonil	16.9	Spike	P	0 - 71
2343192	Cis-Nonachlor	6.40	Spike	P	0 - 29
2343192	Cypermethrin	9.23	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P417000

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343192	Dacthal	16.0	Spike	P	0 - 26
2343192	DDD-p,p'	3.44	Spike	P	0 - 39
2343192	DDE-p,p'	10.4	Spike	P	0 - 33
2343192	DDT-p,p'	4.09	Spike	P	0 - 40
2343192	Delta-BHC	7.47	Spike	P	0 - 37
2343192	Deltamethrin	4.26	Spike	P	0 - 100
2343192	Dichlobenil	8.32	Spike	P	0 - 40
2343192	Dicofol	10.4	Spike	P	0 - 31
2343192	Dieldrin	8.39	Spike	P	0 - 27
2343192	Endosulfan I	3.92	Spike	P	0 - 23
2343192	Endosulfan II	4.28	Spike	P	0 - 28
2343192	Endosulfan Sulfate	11.7	Spike	P	0 - 38
2343192	Endrin	2.76	Spike	P	0 - 63
2343192	Endrin Aldehyde	5.37	Spike	P	0 - 60
2343192	Endrin Ketone	1.52	Spike	P	0 - 37
2343192	Esfenvalerate	4.31	Spike	P	0 - 52
2343192	Ethalfuralin	5.62	Spike	P	0 - 23
2343192	Fenpropathrin	12.1	Spike	P	0 - 32
2343192	Gamma-BHC	5.76	Spike	P	0 - 17
2343192	Gamma-Chlordane	0.935	Spike	P	0 - 40
2343192	Heptachlor	1.33	Spike	P	0 - 29
2343192	Heptachlor Epoxide	0.782	Spike	P	0 - 25
2343192	Hexachlorobenzene	4.55	Spike	P	0 - 36
2343192	Kepone	12.8	Spike	P	0 - 93
2343192	Lambda-Cyhalothrin	5.05	Spike	P	0 - 55
2343192	Methoprene	24.1	Spike	P	0 - 53
2343192	Methoxychlor	15.5	Spike	P	0 - 29
2343192	MGK-264	66.6	Spike	F	0 - 35
2343192	Mirex	15.4	Spike	P	0 - 46
2343192	Oxychlordane	1.59	Spike	P	0 - 29
2343192	Permethrin	5.64	Spike	P	0 - 44
2343192	Phenothrin	23.7	Spike	P	0 - 56
2343192	Piperonyl Butoxide	113	Spike	F	0 - 100
2343192	Prallethrin	4.78	Spike	P	0 - 42
2343192	Tau-Fluvalinate	4.16	Spike	P	0 - 54
2343192	Tetramethrin	8.12	Spike	P	0 - 51
2343192	Trans-Nonachlor	8.93	Spike	P	0 - 37
2343192	Triclosan Methyl	1.83	Spike	P	0 - 31
2343192	Trifluralin	1.24	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P417000

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342814	Chlordane	8.43	Spike	P	0 - 25
2342814	Toxaphene	6.28	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P416713

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342112	Acesulfame K	4.01	Spike	P	0 - 30
2342112	AMPA	1.43	Spike	P	0 - 30
2342112	Endothall	7.17	Spike	P	0 - 30
2342112	Glufosinate	0.539	Spike	P	0 - 30
2342112	Glyphosate	7.69	Spike	P	0 - 30
2342112	Sucralose	2.96	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P416888

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2341582	3-Hydroxycarbofuran	6.98	Spike	P	0 - 30
2341582	Aldicarb	21.5	Spike	P	0 - 30
2341582	Aldicarb Sulfone	0.685	Spike	P	0 - 30
2341582	Aldicarb Sulfoxide	4.15	Spike	P	0 - 30
2341582	Carbaryl	8.19	Spike	P	0 - 30
2341582	Carbofuran	1.79	Spike	P	0 - 30
2341582	Methiocarb	6.32	Spike	P	0 - 30
2341582	Methomyl	7.64	Spike	P	0 - 30
2341582	Oxamyl	6.13	Spike	P	0 - 30
2341582	Propoxur	10.2	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P416992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342488	2,4-D	5.91	Spike	P	0 - 30
2342488	2,4,5-T	8.79	Spike	P	0 - 30
2342488	Acetaminophen	2.14	Spike	P	0 - 30
2342488	Acetamiprid	8.76	Spike	P	0 - 30
2342488	Afidopyropen	2.46	Spike	P	0 - 30
2342488	Bentazon	14.2	Spike	P	0 - 30
2342488	Benzovindiflupyr	21.3	Spike	P	0 - 30
2342488	Carbamazepine	3.87	Spike	P	0 - 30
2342488	Clothianidin	1.10	Spike	P	0 - 30
2342488	Dinotefuran	5.69	Spike	P	0 - 30
2342488	Diuron	2.17	Spike	P	0 - 30
2342488	Fenuron	2.48	Spike	P	0 - 30
2342488	Fluridone	6.89	Spike	P	0 - 30
2342488	Hydrocodone	4.15	Spike	P	0 - 30
2342488	Ibuprofen	0.292	Spike	P	0 - 30
2342488	Imazapyr	7.95	Spike	P	0 - 30
2342488	Imidacloprid	1.70	Spike	P	0 - 30
2342488	Linuron	12.8	Spike	P	0 - 30
2342488	Mandestrobin	6.73	Spike	P	0 - 30
2342488	MCPP	0.342	Spike	P	0 - 30
2342488	Naproxen	9.37	Spike	P	0 - 30
2342488	Primidone	0.636	Spike	P	0 - 30
2342488	Pyraclostrobin	2.16	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P416992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342488	Silvex	10.9	Spike	P	0 - 30
2342488	Thiamethoxam	2.59	Spike	P	0 - 30
2342488	Tolfenpyrad	3.91	Spike	P	0 - 30
2342488	Triclopyr	6.00	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P417354

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342914	Total Alkalinity	0.352	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P417299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342716	TDS	3.75	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P417356

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342914	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P417152

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342715	Organic Carbon	0.355	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2342802
Field Sample ID: G3SW0056

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	60.6	P	30 - 160

Lab Sample ID: 2342803
Field Sample ID: G3SW0056

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	107	P	30 - 160
EPA 8321B	Acetaminophen-d4	96.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.4	P	30 - 160
EPA 8321B	Diuron-d6	77.0	P	30 - 160
EPA 8321B	Endothall-d6	150	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	109	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.8	P	30 - 160
EPA 8321B	Primidone-d5	94.6	P	30 - 160
EPA 8321B	Sucralose-d6	99.9	P	30 - 160

Lab Sample ID: 2342804
Field Sample ID: G3SW0056

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	44.8	P	29 - 130
EPA 8270E	Decachlorobiphenyl	46.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	30.9	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	32.8	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	32.8	P	30 - 101
EPA 8276	PCNB	69.5	P	48 - 121

Lab Sample ID: 2342805
Field Sample ID: G3SW0056

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	66.0	P	20 - 200
EPA 8270E	Simazine-d10	102	P	71 - 140
EPA 8270E	Terbufos-d10	117	P	62 - 131
EPA 8270E	Terphenyl-d14	74.0	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A113616

Included Lab Sample IDs: 2342794

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	106	103	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A113620

Included Lab Sample IDs: 2342794

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	98.5	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A113640

Included Lab Sample IDs: 2342803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	81.8	82.1	P/P	60 - 160
Sucralose	98.0	99.0	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A113642

Included Lab Sample IDs: 2342803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	108	111	P/P	60 - 160
Endothall	100	99.7	P/P	60 - 160
Glufosinate	97.1	102	P/P	60 - 160
Glyphosate	103	104	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A113656

Included Lab Sample IDs: 2342803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	84.4	83.1	P/P	50 - 150
2,4,5-T	99.7	93.3	P/P	50 - 150
3-Hydroxycarbofuran	95.6	98.8	P/P	60 - 150
Acetaminophen	96.1	98.7	P/P	60 - 160
Acetamiprid	97.4	102	P/P	50 - 150
Afidopyropen	85.7	103	P/P	50 - 150
Aldicarb	98.6	97.4	P/P	60 - 150
Aldicarb Sulfone	96.1	94.2	P/P	50 - 150
Aldicarb Sulfoxide	103	104	P/P	50 - 150
Bentazon	111	111	P/P	50 - 160
Benzovindiflupyr	107	113	P/P	50 - 150
Carbamazepine	98.7	96.7	P/P	60 - 150
Carbaryl	95.5	91.4	P/P	60 - 150
Carbofuran	93.7	96.2	P/P	50 - 150
Clothianidin	101	109	P/P	60 - 150
Dinotefuran	97.4	93.7	P/P	50 - 150
Diuron	105	111	P/P	60 - 160
Fenuron	95.0	95.4	P/P	60 - 150
Fluridone	110	109	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A113656
Included Lab Sample IDs: 2342803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hydrocodone	95.5	97.8	P/P	60 - 150
Ibuprofen	73.1	65.7	P/P	50 - 160
Imazapyr	83.4	77.8	P/P	50 - 150
Imidacloprid	96.0	101	P/P	60 - 150
Linuron	96.8	88.6	P/P	60 - 150
Mandestrobin	102	104	P/P	50 - 150
MCPP	96.6	87.5	P/P	50 - 150
Methiocarb	109	116	P/P	50 - 150
Methomyl	100	100	P/P	50 - 150
Naproxen	104	117	P/P	50 - 160
Oxamyl	96.4	101	P/P	50 - 150
Primidone	96.4	95.3	P/P	60 - 150
Propoxur	106	104	P/P	50 - 150
Pyraclostrobin	96.2	96.3	P/P	60 - 150
Silvex	79.5	84.9	P/P	50 - 150
Thiamethoxam	96.2	99.5	P/P	50 - 150
Tolfenpyrad	96.5	97.0	P/P	60 - 150
Triclopyr	74.6	86.5	P/P	50 - 150

Reference Method: SM 5310 B-2011
Run ID: A113701
Included Lab Sample IDs: 2342795

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.9	98.1	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A113721
Included Lab Sample IDs: 2342794

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A113723
Included Lab Sample IDs: 2342805

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101		P	80 - 120
Avobenzene	98.6		P	80 - 120
Octinoxate	97.1		P	80 - 120
Oxybenzone	103		P	80 - 120
PBDE-47	97.8		P	80 - 120
PBDE-99	97.8		P	80 - 120
Tri-o-cresyl Phosphate	99.0		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A113726
Included Lab Sample IDs: 2342795

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113726

Included Lab Sample IDs: 2342795

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113730

Included Lab Sample IDs: 2342795

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.8	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113746

Included Lab Sample IDs: 2342804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	102		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	105		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	105		P	80 - 120
Bifenthrin	110		P	80 - 120
Chlorothalonil	88.5		P	80 - 120
Cis-Nonachlor	98.1		P	80 - 120
Cypermethrin	108		P	80 - 120
Dacthal	95.5		P	80 - 120
DDD-p,p'	112		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	103		P	80 - 120
Delta-BHC	100		P	80 - 120
Deltamethrin	105		P	80 - 120
Dichlobenil	106		P	80 - 120
Dicofol	98.0		P	80 - 120
Dieldrin	109		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	115		P	80 - 120
Endosulfan Sulfate	98.8		P	80 - 120
Endrin	117		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	105		P	80 - 120
Ethalfuralin	106		P	80 - 120
Fenpropathrin	110		P	80 - 120
Gamma-BHC	102		P	80 - 120
Gamma-Chlordane	104		P	80 - 120
Heptachlor	102		P	80 - 120
Heptachlor Epoxide	104		P	80 - 120
Hexachlorobenzene	98.5		P	80 - 120
Kepone	103		P	80 - 120
Lambda-Cyhalothrin	112		P	80 - 120
Methoprene	107		P	80 - 120
Methoxychlor	98.7		P	80 - 120
MGK-264	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113746
Included Lab Sample IDs: 2342804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mirex	109		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	111		P	80 - 120
Phenothrin	115		P	80 - 120
Piperonyl Butoxide	95.0		P	80 - 120
Prallethrin	102		P	80 - 120
Tau-Fluvalinate	108		P	80 - 120
Tetramethrin	104		P	80 - 120
Trans-Nonachlor	102		P	80 - 120
Triclosan Methyl	103		P	80 - 120
Trifluralin	104		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A113748
Included Lab Sample IDs: 2342795

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	95.8	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A113762
Included Lab Sample IDs: 2342804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	104		P	80 - 120
Toxaphene	100		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A113765
Included Lab Sample IDs: 2342795

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.5	98.6	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A113778
Included Lab Sample IDs: 2342794

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.3	99.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A113778
Included Lab Sample IDs: 2342794

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	106	107	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A113779
 Included Lab Sample IDs: 2342805

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	106		P	80 - 120
Alachlor	97.6		P	80 - 120
Ametryn	110		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	89.0		P	80 - 120
Azinphos Methyl	94.7		P	80 - 120
Azoxystrobin	95.5		P	80 - 120
Bromacil	109		P	80 - 120
Caffeine	94.6		P	80 - 120
Carbophenothion	99.0		P	80 - 120
Carfentrazone Ethyl	103		P	80 - 120
Chlorfenapyr	114		P	80 - 120
Chlorpyrifos Ethyl	101		P	80 - 120
Chlorpyrifos Methyl	111		P	80 - 120
Coumaphos	110		P	80 - 120
Cyanazine	95.9		P	80 - 120
Cyprodinil	104		P	80 - 120
Demeton	94.7		P	80 - 120
Diazinon	102		P	80 - 120
Difenoconazole	114		P	80 - 120
Dimethenamid	107		P	80 - 120
Dimethomorph	107		P	80 - 120
Disulfoton	98.6		P	80 - 120
Dithiopyr	110		P	80 - 120
EPTC	101		P	80 - 120
Ethion	108		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	96.7		P	80 - 120
Fenamiphos	108		P	80 - 120
Fenbuconazole	103		P	80 - 120
Fipronil	100		P	80 - 120
Fipronil Desulfinyl	114		P	80 - 120
Fipronil Sulfide	108		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	115		P	80 - 120
Fludioxonil	105		P	80 - 120
Flumioxazin	99.2		P	80 - 120
Flutolanil	107		P	80 - 120
Fluxapyroxad	96.4		P	80 - 120
Fonofos	92.0		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	106		P	80 - 120
Iprodione	110		P	80 - 120
Loratadine	93.1		P	80 - 120
Malathion	104		P	80 - 120
Metalaxyl	105		P	80 - 120
Metolachlor	107		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	110		P	80 - 120
Molinate	107		P	80 - 120
Myclobutanil	96.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113779
Included Lab Sample IDs: 2342805

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naled	114		P	80 - 120
Napropamide	116		P	80 - 120
Norflurazon	98.8		P	80 - 120
Oxadiazon	99.0		P	80 - 120
Oxyfluorfen	96.9		P	80 - 120
Parathion Ethyl	89.3		P	80 - 120
Parathion Methyl	109		P	80 - 120
Pendimethalin	97.7		P	80 - 120
Phenytol	102		P	80 - 120
Phorate	98.5		P	80 - 120
Prodiamine	94.7		P	80 - 120
Prometon	118		P	80 - 120
Prometryn	114		P	80 - 120
Pronamide	98.3		P	80 - 120
Propanil	118		P	80 - 120
Propargite	96.0		P	80 - 120
Propiconazole	98.6		P	80 - 120
Pyraflufen Ethyl	119		P	80 - 120
Pyridaben	97.5		P	80 - 120
Pyriproxyfen	91.7		P	80 - 120
Simazine	94.6		P	80 - 120
Stirophos	119		P	80 - 120
Sulfentrazone	100		P	80 - 120
Tebuconazole	99.7		P	80 - 120
Terbufos	112		P	80 - 120
Terbuthylazine	113		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	103		P	80 - 120

Reference Method: EPA 8270E
Run ID: A113781
Included Lab Sample IDs: 2342805

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Butylate	99.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A113818
Included Lab Sample IDs: 2342804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	96.6		P	80 - 120
PCB-1260	101		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	
DEP SOP: NU-094-1	Color (true)	102				17.9	
EPA 180.1 Rev. 2.0	Turbidity	94.7				2.30	
EPA 300.0 Rev. 2.1	Chloride	101	96.9	99.4		0.734	
EPA 350.1 Rev. 2.0	Ammonia-N	98.8	101	102			0.985
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.3	102	96.4			4.61
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101	98.8				1.69
EPA 365.1 Rev. 2.0	Total-P	101	102	103			0.990
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	104	94.0	95.7			1.76
	Acetochlor	101	104	106			2.13
	Alachlor	84.1	94.7	114			18.9
	Aldrin	50.6	64.2	59.7			7.31
	Alpha-BHC	89.9	91.0	93.6			2.83
	Alpha-Chlordane	77.7	69.7	63.5			8.26
	Ametryn	67.1	176	128			31.4
	Atrazine	97.6	96.7	101			2.64
	Atrazine Desethyl	65.1	33.0	19.8			22.8
	Avobenzone	101	89.5	91.5			2.14
	Azinphos Methyl	102	99.9	121			18.8
	Azoxystrobin	110	133	140			5.25
	Beta-BHC	98.1	94.6	104			9.21
	Beta-Cyfluthrin	74.1	117	120			2.46
	Bifenthrin	53.3	104	107			2.84
	Bromacil	84.6	80.9	113			22.4
	Butylate	57.6	61.1	62.7			2.53
	Caffeine	64.9	78.5	71.3			8.70
	Carbophenothion	88.3	83.7	83.7			0.0385
	Carfentrazone Ethyl	83.1	110	101			8.55
	Chlorfenapyr	81.2	73.1	69.1			5.55
	Chlorothalonil	49.8	182	215			16.9
	Chlorpyrifos Ethyl	86.0	83.2	99.9			18.3
	Chlorpyrifos Methyl	98.9	106	107			0.687
	Cis-Nonachlor	66.4	69.7	65.3			6.40
	Coumaphos	94.9	80.5	83.1			3.26
	Cyanazine	110	105	126			17.8
	Cypermethrin	71.9	105	115			9.23
	Cyprodinil	78.0	75.7	101			28.9
	Dacthal	86.2	82.2	96.5			16.0
	DDD-p,p'	79.4	63.5	61.4			3.44
	DDE-p,p'	76.6	59.5	52.9			10.4
	DDT-p,p'	71.5	67.4	70.2			4.09
	Delta-BHC	96.5	105	113			7.47
	Deltamethrin	82.6	120	125			4.26
	Demeton	81.6	84.8	102			18.8
	Diazinon	91.5	108	102			5.10
	Dichlobenil	98.5	62.1	70.1			8.32
	Dicofol	81.7	94.5	105			10.4
	Dieldrin	85.2	68.9	62.8			8.39
	Difenoconazole	129	116	118			1.78
	Dimethenamid	89.4	89.4	92.5			3.40
	Dimethomorph	112	131	144			9.22
	Disulfoton	87.8	92.6	96.1			3.74
	Dithiopyr	83.2	64.5	77.9			16.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Endosulfan I	80.0	81.8	78.7			3.92
	Endosulfan II	85.1	65.8	68.7			4.28
	Endosulfan Sulfate	86.6	83.6	74.4			11.7
	Endrin	85.8	73.2	75.3			2.76
	Endrin Aldehyde	76.9	32.6	30.9			5.37
	Endrin Ketone	97.7	86.3	85.0			1.52
	EPTC	42.3	33.6	36.3			7.47
	Esfenvalerate	66.2	115	120			4.31
	Ethalfuralin	69.8	67.9	71.8			5.62
	Ethion	84.0	77.2	114			38.7
	Ethoprop	92.9	108	114			5.41
	Etridiazole	53.4	61.4	65.0			5.77
	Fenamiphos	84.6	95.7	78.0			20.4
	Fenbuconazole	91.0	82.1	110			29.0
	Fenpropathrin	72.0	103	91.5			12.1
	Fipronil	88.2	79.3	121			29.4
	Fipronil Desulfinyl	87.3	101	119			15.6
	Fipronil Sulfide	85.3					33.9
	Fipronil Sulfone	83.2					24.0
	Fluazifop-P-butyl	96.7	106	103			2.95
	Fludioxonil	100	82.2	102			21.8
	Flumioxazin	136	126	121			3.66
	Flutolanil	88.5	72.0	81.7			12.7
	Fluxapyroxad	87.6	95.3	93.4			2.10
	Fonofos	94.3	103	107			4.44
	Gamma-BHC	91.8	97.8	104			5.76
	Gamma-Chlordane	78.6	63.3	64.0			0.935
	Heptachlor	66.5	67.7	68.6			1.33
	Heptachlor Epoxide	83.2	72.8	72.2			0.782
	Hexachlorobenzene	76.3	69.0	72.2			4.55
	Hexazinone	97.9	121	119			1.54
	Imazalil	92.0	95.0	87.5			8.19
	Iprodione	100	74.4	100			29.9
	Kepone	29.3	44.2	50.2			12.8
	Lambda-Cyhalothrin	60.5	110	115			5.05
	Loratadine	95.9	113	128			12.7
	Malathion	87.4	81.1	109			29.2
	Metalaxyl	79.1	111	121			8.27
	Methoprene	53.8	75.0	58.9			24.1
	Methoxychlor	77.6	83.0	96.9			15.5
	Metolachlor	82.3	85.6	98.0			13.5
	Metribuzin	83.7	73.9	74.3			0.464
	Mevinphos	89.3	101	115			13.7
	MGK-264	90.1					66.6
	Mirex	55.8	65.7	56.3			15.4
	Molinate	77.3	85.9	83.1			3.28
	Myclobutanil	83.8	86.3	101			15.5
	Naled	85.0	68.7	78.3			13.0
	Napropamide	80.5	74.5	86.1			14.4
	Norflurazon	82.3	72.6	89.9			21.3
	Octinoxate	99.0	80.8	86.5			5.48
	Oxadiazon	77.2	63.7	77.8			20.0
	Oxybenzone	80.4	83.2	80.1			3.83
	Oxychlordane	75.9	72.8	71.6			1.59

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Oxyfluorfen	116	121	126		3.60
	Parathion Ethyl	88.7	96.0	91.5		4.87
	Parathion Methyl	119	137	120		13.3
	PBDE-47	90.0	87.1	83.0		4.89
	PBDE-99	91.4	85.0	80.8		5.05
	PCB-1016	87.4	95.2	90.7		4.88
	PCB-1260	89.5	96.7	96.9		0.155
	Pendimethalin	98.4	120	122		1.32
	Permethrin	76.7	110	104		5.64
	Phenothrin	51.7	101	129		23.7
	Phenytol	25.8	24.3	27.2		11.4
	Phorate	93.2	104	126		18.6
	Piperonyl Butoxide	132				113
	Prallethrin	80.4	72.9	69.5		4.78
	Prodiamine	37.6	61.0	66.5		8.55
	Prometon	81.3	80.8	101		22.1
	Prometryn	86.9	67.9	75.1		10.1
	Pronamide	93.0	96.4	91.6		5.13
	Propanil	115	116	113		2.53
	Propargite	57.4	61.0	66.7		8.97
	Propiconazole	77.8	50.9	80.0		25.3
	Pyraflufen Ethyl	83.4	87.5	86.8		0.794
	Pyridaben	80.3	80.6	91.5		12.6
	Pyriproxyfen	82.0	69.0	78.4		12.8
	Simazine	87.8	89.1	88.4		0.752
	Stirophos	69.1	27.3	29.8		8.76
	Sulfentrazone	113				25.9
	Tau-Fluvalinate	60.3	107	111		4.16
	Tebuconazole	53.6	23.0	50.8		36.0
	Terbufos	103	121	125		3.52
	Terbutylazine	88.0	107	108		0.176
	Tetramethrin	109	144	156		8.12
	Thiobencarb	72.0	69.1	74.2		7.14
	Trans-Nonachlor	79.2	71.3	78.0		8.93
	Tri-o-cresyl Phosphate	96.8	91.2	85.0		6.93
	Triadimefon	79.6	76.7	87.5		13.1
	Triclosan Methyl	86.9	83.5	85.1		1.83
	Trifluralin	67.7	68.4	69.2		1.24
EPA 8276	Chlordane	109	110	102		8.43
	Toxaphene	113	110	103		6.28
EPA 8321B	2,4-D	72.9	78.5	74.0		5.91
	2,4,5-T	64.6	58.5	63.9		8.79
	3-Hydroxycarbofuran	87.7	91.7	98.3		6.98
	Acesulfame K	80.2	67.2	64.6		4.01
	Acetaminophen	85.8	81.5	83.3		2.14
	Acetamiprid	63.4	76.2	69.8		8.76
	Afidopyropen	66.2	61.9	63.4		2.46
	Aldicarb	68.1	51.6	64.1		21.5
	Aldicarb Sulfone	91.6	108	109		0.685
	Aldicarb Sulfoxide	94.6	45.3	47.2		4.15
	AMPA	112	87.5	88.8		1.43
	Bentazon	104	94.7	109		14.2
	Benzovindiflupyr	93.8	75.0	92.8		21.3
	Carbamazepine	92.5	84.4	87.8		3.87

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Carbaryl	70.4	58.5	63.5		8.19
	Carbofuran	80.9	65.6	64.4		1.79
	Clothianidin	101	95.5	94.4		1.10
	Dinotefuran	90.9	83.0	87.9		5.69
	Diuron	80.7	72.6	74.2		2.17
	Endothall	102	158	148		7.17
	Fenuron	93.0	87.0	89.2		2.48
	Fluridone	100	88.2	94.5		6.89
	Glufosinate	128	84.7	85.2		0.539
	Glyphosate	103	88.0	81.5		7.69
	Hydrocodone	90.6	81.8	85.3		4.15
	Ibuprofen	89.2	68.7	68.9		0.292
	Imazapyr	89.8	75.6	81.9		7.95
	Imidacloprid	92.2	89.0	90.5		1.70
	Linuron	87.9	83.9	73.8		12.8
	Mandestrobin	90.7	79.8	85.4		6.73
	MCPP	87.6	79.1	78.8		0.342
	Methiocarb	90.7	74.4	69.9		6.32
	Methomyl	90.3	75.9	81.9		7.64
	Naproxen	66.2	74.4	67.7		9.37
	Oxamyl	84.8	76.1	80.9		6.13
	Primidone	79.7	84.8	85.3		0.636
	Propoxur	73.1	56.2	62.3		10.2
	Pyraclostrobin	77.1	74.4	76.0		2.16
	Silvex	55.3	59.0	65.8		10.9
	Sucralose	102	98.9	96.0		2.96
	Thiamethoxam	90.4	84.9	87.1		2.59
	Tolfenpyrad	44.8	47.5	49.4		3.91
	Triclopyr	66.5	64.1	68.1		6.00
SM 2320 B-2011	Total Alkalinity	99.1				0.352
SM 2540 C-2011	TDS					3.75
SM 4500-F- C-2011	Fluoride	104	103	103		0.0
SM 5310 B-2011	Organic Carbon	98.1	94.0	94.6		0.355

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2342794
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2342794
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2342794
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2342795
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2342795
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2342795
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2342795
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2342805
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2342804
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2342805
EPA 8270E	PCBs in water matrices by GC/MS/MS	2342804
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2342804
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2342802
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2342803
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2342794

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2342794
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2342794
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2342794
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2342795

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	07/20/2022			07/20/2022 14:55	Samantha L Bates	2342794
EPA 180.1 Rev. 2.0	07/20/2022			07/20/2022 13:46	Anna M. Plaviak	2342794
EPA 300.0 Rev. 2.1	07/20/2022			07/27/2022 03:57	Anna M. Plaviak	2342794
EPA 350.1 Rev. 2.0	07/20/2022			07/28/2022 12:35	Judith K. Clark	2342795
EPA 351.2 Rev. 2.0	07/20/2022	07/27/2022 09:57	Simonne.V. Calhoun	07/27/2022 19:05	Samantha L Bates	2342795
EPA 353.2 Rev. 2.0	07/20/2022			07/27/2022 10:19	Beverly Y. Sanders	2342795
EPA 365.1 Rev. 2.0	07/20/2022	07/25/2022 15:50	Adam P Silver	07/27/2022 11:27	James L Waggerby	2342795
EPA 8270E	07/20/2022	07/20/2022 14:00	Rasheda Ghaffari	07/25/2022 00:41	Michael Poppell	2342805
	07/20/2022	07/20/2022 14:00	Rasheda Ghaffari	07/26/2022 18:33	Lipi Saha	2342805
	07/20/2022	07/20/2022 14:00	Rasheda Ghaffari	07/28/2022 23:11	Michael Poppell	2342805
	07/20/2022	07/25/2022 08:30	Rasheda Ghaffari	07/27/2022 18:45	Vandana T. Nagar	2342804
	07/20/2022	07/25/2022 08:30	Rasheda Ghaffari	08/01/2022 05:39	Julie Wi	2342804
EPA 8276	07/20/2022	07/25/2022 08:30	Rasheda Ghaffari	07/28/2022 05:19	Arthur Maknenko	2342804
EPA 8321B	07/20/2022	07/20/2022 13:00	June Rhew	07/21/2022 18:16	Juyoung Kim	2342802
	07/20/2022	07/20/2022 14:30	Umesh Chiluwal	07/20/2022 20:43	Umesh Chiluwal	2342803
	07/20/2022	07/20/2022 14:30	Umesh Chiluwal	07/21/2022 05:17	Umesh Chiluwal	2342803
	07/20/2022	07/22/2022 09:30	June Rhew	07/23/2022 10:03	Juyoung Kim	2342803
SM 2320 B-2011	07/20/2022			07/28/2022 22:34	Dale L. Simmons	2342794
SM 2540 C-2011	07/20/2022			07/22/2022 15:32	Yijie Li	2342794
SM 2540 D-2011	07/20/2022			07/22/2022 15:32	Yijie Li	2342794
SM 4500-F- C-2011	07/20/2022			07/28/2022 22:34	Dale L. Simmons	2342794
SM 5310 B-2011	07/20/2022			07/26/2022 04:07	Khloe J Berg	2342795