

Chemical Analysis Report

TLH-ROC-2022-08-03-02

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

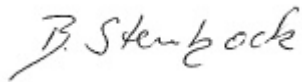
Event Description: **Run 12**
Request ID: **RQ-2022-08-01-30**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
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Tallahassee, FL 32399
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 23-AUG-2022 17:54



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: Parker Creek @ Park

Collection Date/Time: 08/03/2022 10:35

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345933	DEP SOP: NU-094-1	Color (true)	6.7	A	PCU	P417683	
	EPA 180.1 Rev. 2.0	Turbidity	28		NTU	P417669	
	EPA 300.0 Rev. 2.1	Chloride	9.8	A	mg Cl/L	P418020	
		Sulfate	18	AJ	mg SO4/L	P418025	MS
	SM 2320 B-2011	Total Alkalinity	27		mg CaCO3/L	P418116	
	SM 2540 C-2011	TDS	93		mg/L	P418183	
	SM 2540 D-2011	TSS	175		mg/L	P418227	
	SM 4500-F- C-2011	Fluoride	0.075	I	mg F/L	P417948	
2345934	EPA 350.1 Rev. 2.0	Ammonia-N	0.034		mg N/L	P417775	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	5.6		mg N/L	P417798	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.064		mg N/L	P417720	
	EPA 365.1 Rev. 2.0	Total-P	0.93		mg P/L	P417991	
	SM 5310 B-2011	Organic Carbon	21		mg C/L	P417813	
2345973	EPA 8321B	Aldicarb	0.020	U	ug/L	P417651	
		Aldicarb Sulfone	0.0020	U	ug/L	P417651	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P417651	MS
		Carbaryl	0.0020	U	ug/L	P417651	
		Carbofuran	0.0020	U	ug/L	P417651	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P417651	
		Methiocarb	0.0020	U	ug/L	P417651	
		Methomyl	0.0020	U	ug/L	P417651	
		Oxamyl	0.0020	U	ug/L	P417651	
		Propoxur	0.0020	U	ug/L	P417651	
2345974		2,4-D	0.19		ug/L	P417606	
		Acesulfame K	0.10	U	ug/L	P417605	
		2,4,5-T	0.0040	U	ug/L	P417606	
		AMPA	0.10	U	ug/L	P417605	
		Acetaminophen	0.0080	U	ug/L	P417606	
		Acetamiprid	0.0020	U	ug/L	P417606	
		Endothall	0.25	U	ug/L	P417605	
		Glufosinate	0.10	U	ug/L	P417605	
		Glyphosate	0.13	I	ug/L	P417605	
		Afidopyropen	0.0020	U	ug/L	P417606	
		Bentazon	0.022		ug/L	P417606	
		Sucralose	0.21		ug/L	P417605	
		Benzovindiflupyr	0.0020	U	ug/L	P417606	
		Carbamazepine	8.0E-04	U	ug/L	P417606	
		Clothianidin	0.0020	U	ug/L	P417606	
		Dinotefuran	0.0052	I	ug/L	P417606	
		Diuron	0.0034	I	ug/L	P417606	
		Fenuron	0.032	U	ug/L	P417606	
		Fluridone	8.0E-04	U	ug/L	P417606	
		Imazapyr	0.0096	I	ug/L	P417606	
		Hydrocodone	0.0020	U	ug/L	P417606	

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345974	EPA 8321B	Ibuprofen	0.080	U	ug/L	P417606	
		Imidacloprid	0.034		ug/L	P417606	
		Linuron	0.0040	U	ug/L	P417606	
		Mandestrobin	0.0020	U	ug/L	P417606	
		MCP	0.0071	I	ug/L	P417606	
		Naproxen	0.0080	U	ug/L	P417606	
		Primidone	0.0040	U	ug/L	P417606	
		Pyraclostrobin	0.0020	U	ug/L	P417606	
		Silvex	0.0040	U	ug/L	P417606	
		Thiamethoxam	0.0020	U	ug/L	P417606	
		Tolfenpyrad	0.0020	U	ug/L	P417606	
		Triclopyr	0.0040	U	ug/L	P417606	
2345975	EPA 8270E	Aldrin	0.67	U	ng/L	P417747	
		Alpha-BHC	0.10	U	ng/L	P417747	
		Alpha-Chlordane	0.21	U	ng/L	P417747	
		PCB-1016	2.1	U	ng/L	P417747	
		Beta-BHC	0.10	U	ng/L	P417747	
		PCB-1221	2.1	U	ng/L	P417747	
		Beta-Cyfluthrin	1.3	U	ng/L	P417747	
		PCB-1232	2.1	U	ng/L	P417747	
		Bifenthrin	0.52	U	ng/L	P417747	
		PCB-1242	2.1	U	ng/L	P417747	
		PCB-1248	2.1	U	ng/L	P417747	
		Chlorothalonil	1.3	U	ng/L	P417747	
		PCB-1254	2.1	U	ng/L	P417747	
		Cis-Nonachlor	0.21	U	ng/L	P417747	
		PCB-1260	2.1	U	ng/L	P417747	
		Cypermethrin	1.5	U	ng/L	P417747	
		Dacthal	0.15	U	ng/L	P417747	
		DDD-p,p'	0.26	U	ng/L	P417747	
		DDE-p,p'	0.21	U	ng/L	P417747	
		DDT-p,p'	0.26	U	ng/L	P417747	
		Delta-BHC	0.41	U	ng/L	P417747	
		Deltamethrin	1.3	U	ng/L	P417747	
		Dichlobenil	0.26	U	ng/L	P417747	
		Dicofol	1.3	U	ng/L	P417747	
		Diieldrin	1.3	I	ng/L	P417747	
		Endosulfan I	0.41	U	ng/L	P417747	
		Endosulfan II	0.41	U	ng/L	P417747	
		Endosulfan Sulfate	0.31	U	ng/L	P417747	
		Endrin	0.41	U	ng/L	P417747	
		Endrin Aldehyde	0.77	U	ng/L	P417747	
		Endrin Ketone	0.58	I	ng/L	P417747	
		Esfenvalerate	0.77	U	ng/L	P417747	
		Ethalfuralin	0.15	U	ng/L	P417747	

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345975	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P417747	
		Gamma-BHC	0.13	U	ng/L	P417747	
		Gamma-Chlordane	0.24	I	ng/L	P417747	
		Heptachlor	0.21	U	ng/L	P417747	
		Heptachlor Epoxide	0.35	I	ng/L	P417747	
		Hexachlorobenzene**	1.0	U	ng/L	P417747	
		Kepone	5.2	UJ	ng/L	P417747	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P417747	
		Methoprene	0.77	U	ng/L	P417747	
		Methoxychlor	0.31	U	ng/L	P417747	
		MGK-264	0.21	U	ng/L	P417747	
		Mirex	0.36	U	ng/L	P417747	
		Oxychlordane	0.31	U	ng/L	P417747	
		Permethrin	2.5	I	ng/L	P417747	
		Phenothrin	0.93	U	ng/L	P417747	
		Piperonyl Butoxide	7.9		ng/L	P417747	
		Prallethrin	2.1	U	ng/L	P417747	
		Tau-Fluvalinate	0.26	U	ng/L	P417747	
		Tetramethrin	0.77	U	ng/L	P417747	
		Trans-Nonachlor	0.21	U	ng/L	P417747	
		Triclosan Methyl	0.15	U	ng/L	P417747	
		Trifluralin	0.21	U	ng/L	P417747	
2345976	EPA 8270E	Chlordane	2.7	I	ng/L	P417747	
		Toxaphene	15	U	ng/L	P417747	
		Oxybenzone**	9.9	U	ng/L	P418014	
		Acetochlor	0.25	U	ng/L	P418014	
		Octinoxate**	20	U	ng/L	P418014	
		Alachlor	0.25	U	ng/L	P418014	
		Avobenzone**	99	U	ng/L	P418014	
		Ametryn	0.70	I	ng/L	P418014	
		Atrazine	1.0		ng/L	P418014	
		PBDE-47**	4.0	U	ng/L	P418014	
		Atrazine Desethyl	1.5	U	ng/L	P418014	
		PBDE-99**	5.0	U	ng/L	P418014	
		Azinphos Methyl	2.0	U	ng/L	P418014	
		Tri-o-cresyl Phosphate**	6.0	U	ng/L	P418014	
		Azoxystrobin	0.50	U	ng/L	P418014	
		Bromacil	5.4		ng/L	P418014	
		2-Ethylhexyl	12	U	ng/L	P418014	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.40	U	ng/L	P418014	
		Caffeine**	150		ng/L	P418014	
		Carbophenothion	0.20	U	ng/L	P418014	
		Carfentrazone Ethyl	0.099	U	ng/L	P418014	
		Chlorfenapyr	0.17	U	ng/L	P418014	

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345976	EPA 8270E	Chlorpyrifos Ethyl	0.25	U	ng/L	P418014	
		Chlorpyrifos Methyl	0.050	U	ng/L	P418014	
		Coumaphos	0.50	U	ng/L	P418014	
		Cyanazine	3.2	U	ng/L	P418014	
		Cyprodinil	0.099	U	ng/L	P418014	
		Demeton	1.5	U	ng/L	P418014	
		Diazinon	0.12	U	ng/L	P418014	
		Difenoconazole	0.60	U	ng/L	P418014	
		Dimethenamid	0.099	U	ng/L	P418014	
		Dimethomorph	0.17	U	ng/L	P418014	
		Disulfoton	0.50	U	ng/L	P418014	
		Dithiopyr	0.24	I	ng/L	P418014	MS, RPD
		EPTC	1.2	U	ng/L	P418014	
		Ethion	0.15	U	ng/L	P418014	
		Ethoprop	0.099	U	ng/L	P418014	
		Etridiazole	0.15	U	ng/L	P418014	
		Fenamiphos	0.50	U	ng/L	P418014	
		Fenbuconazole	0.12	U	ng/L	P418014	
		Fipronil	0.25	U	ng/L	P418014	
		Fipronil Desulfinyl**	0.17	I	ng/L	P418014	
		Fipronil Sulfide	0.31	I	ng/L	P418014	
		Fipronil Sulfone	1.3		ng/L	P418014	
		Fluazifop-P-butyl	0.099	U	ng/L	P418014	
		Fludioxonil	0.12	U	ng/L	P418014	
		Flumioxazin	1.7	U	ng/L	P418014	
		Flutolanil	0.099	U	ng/L	P418014	
		Fluxapyroxad	0.099	U	ng/L	P418014	
		Fonofos	0.20	U	ng/L	P418014	
		Hexazinone	0.50	U	ng/L	P418014	
		Imazalil	0.75	U	ng/L	P418014	
		Iprodione	0.60	U	ng/L	P418014	
		Loratadine**	0.099	U	ng/L	P418014	
		Malathion	0.35	U	ng/L	P418014	
		Metalaxyl	0.75	U	ng/L	P418014	
		Metolachlor	0.35	U	ng/L	P418014	
		Metribuzin	2.5	U	ng/L	P418014	
		Mevinphos	1.0	U	ng/L	P418014	
		Molinate	0.30	U	ng/L	P418014	
		Myclobutanil	0.25	U	ng/L	P418014	
		Naled	1.5	U	ng/L	P418014	MS
		Napropamide	0.40	U	ng/L	P418014	
		Norflurazon	0.50	U	ng/L	P418014	
		Oxadiazon	0.48	I	ng/L	P418014	
		Oxyfluorfen	0.15	U	ng/L	P418014	
		Parathion Ethyl	0.25	U	ng/L	P418014	

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345976	EPA 8270E	Parathion Methyl	0.55	U	ng/L	P418014	
		Pendimethalin	0.99	U	ng/L	P418014	
		Phenytol**	3.5	U	ng/L	P418014	
		Phorate	0.52	U	ng/L	P418014	
		Prodiatamine	0.17	U	ng/L	P418014	
		Prometon	1.7	I	ng/L	P418014	
		Prometryn	0.20	U	ng/L	P418014	MS
		Pronamide	0.15	U	ng/L	P418014	
		Propanil	0.12	U	ng/L	P418014	
		Propargite	1.5	U	ng/L	P418014	
		Propiconazole	11		ng/L	P418014	
		Pyraflufen Ethyl	0.25	U	ng/L	P418014	
		Pyridaben	1.8	I	ng/L	P418014	
		Pyriproxyfen	0.12	U	ng/L	P418014	
		Simazine	0.50	U	ng/L	P418014	
		Stirophos	0.12	U	ng/L	P418014	MS, RPD
		Sulfentrazone	1.9	I	ng/L	P418014	
		Tebuconazole	2.0	I	ng/L	P418014	
		Terbufos	0.099	U	ng/L	P418014	
		Terbutylazine	0.42	U	ng/L	P418014	
		Thiobencarb	0.60	U	ng/L	P418014	
		Triadimefon	0.25	U	ng/L	P418014	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

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

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: P417683

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417669

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418020

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418025

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417775

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417798

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417720

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417991

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

Reference Method: EPA 8270E
Batch ID: P417747

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417747

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417747

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417747

Component	Result	Code	Units
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P418014

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418014

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418014

Component	Result	Code	Units
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
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418014

Component	Result	Code	Units
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
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 8276

Batch ID: P417747

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: P417605

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: P417606

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P417606

Component	Result	Code	Units
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: EPA 8321B

Batch ID: P417651

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: SM 2320 B-2011

Batch ID: P418116

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

Reference Method: SM 2540 C-2011

Batch ID: P418183

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P418227

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P417948

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P417813

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: P417683

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	105		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417669

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418020

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418025

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417775

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417798

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417720

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417991

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	105		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P417747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.7		P	10 - 92.0
Alpha-BHC	88.5		P	75 - 107
Alpha-Chlordane	64.5		P	50 - 108
Beta-BHC	110		P	36 - 138

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P417747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	63.0		P	20 - 161
Bifenthrin	40.0		P	10 - 119
Chlorothalonil	91.7		P	26 - 186
Cis-Nonachlor	76.4		P	42 - 119
Cypermethrin	59.8		P	22 - 150
Dacthal	88.7		P	72 - 119
DDD-p,p'	76.8		P	45 - 107
DDE-p,p'	74.5		P	48 - 106
DDT-p,p'	69.7		P	48 - 110
Delta-BHC	125		P	54 - 140
Deltamethrin	73.5		P	22 - 189
Dichlobenil	93.9		P	36 - 117
Dicofol	82.3		P	46 - 155
Dieldrin	77.5		P	54 - 110
Endosulfan I	75.2		P	59 - 105
Endosulfan II	67.0		P	51 - 118
Endosulfan Sulfate	79.0		P	57 - 121
Endrin	73.8		P	10 - 120
Endrin Aldehyde	83.3		P	34 - 118
Endrin Ketone	105		P	69 - 177
Esfenvalerate	57.4		P	23 - 168
Ethalfuralin	67.2		P	49 - 99.0
Fenpropathrin	63.6		P	34 - 117
Gamma-BHC	105		P	72 - 117
Gamma-Chlordane	69.2		P	43 - 106
Heptachlor	64.9		P	41 - 98.0
Heptachlor Epoxide	73.3		P	57 - 106
Hexachlorobenzene	68.9		P	36 - 99.0
Kepone	38.4		P	16 - 215
Lambda-Cyhalothrin	46.0		P	21 - 177
Methoprene	42.7		P	10 - 119
Methoxychlor	82.6		P	60 - 112
MGK-264	80.3		P	26 - 122
Mirex	46.2		P	10 - 169
Oxychlordane	66.4		P	43 - 105
PCB-1016	84.2		P	48 - 112
PCB-1260	85.9		P	44 - 118
Permethrin	60.6		P	24 - 148
Phenothrin	40.9		P	10 - 106
Piperonyl Butoxide	97.0		P	10 - 139
Prallethrin	84.3		P	17 - 109
Tau-Fluvalinate	49.1		P	13 - 131
Tetramethrin	78.6		P	10 - 132
Trans-Nonachlor	64.3		P	44 - 106
Triclosan Methyl	74.6		P	59 - 109
Trifluralin	67.7		P	44 - 101

Reference Method: EPA 8270E

Batch ID: P418014

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	78.6		P	50 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P418014

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	98.8		P	70 - 121
Alachlor	90.2		P	68 - 119
Ametryn	101		P	64 - 139
Atrazine	84.4		P	76 - 120
Atrazine Desethyl	62.8		P	44 - 126
Avobenzone	76.8		P	76 - 212
Azinphos Methyl	147		P	43 - 192
Azoxystrobin	95.8		P	36 - 224
Bromacil	88.1		P	52 - 121
Butylate	46.2		P	28 - 91.0
Caffeine	73.6		P	50 - 134
Carbophenothion	60.6		P	56 - 129
Carfentrazone Ethyl	79.8		P	60 - 141
Chlorfenapyr	63.9		P	56 - 115
Chlorpyrifos Ethyl	81.7		P	60 - 118
Chlorpyrifos Methyl	84.2		P	68 - 119
Coumaphos	90.3		P	18 - 250
Cyanazine	148		P	61 - 250
Cyprodinil	96.6		P	55 - 145
Demeton	72.1		P	30 - 159
Diazinon	82.9		P	70 - 123
Difenoconazole	70.8		P	49 - 204
Dimethenamid	79.4		P	64 - 115
Dimethomorph	91.5		P	12 - 219
Disulfoton	70.0		P	44 - 125
Dithiopyr	67.3		P	64 - 115
EPTC	41.5		P	28 - 86.0
Ethion	76.9		P	33 - 125
Ethoprop	83.3		P	64 - 116
Etridiazole	54.6		P	34 - 91.0
Fenamiphos	102		P	12 - 127
Fenbuconazole	131		P	59 - 151
Fipronil	87.4		P	67 - 129
Fipronil Desulfinyl	66.9		P	65 - 127
Fipronil Sulfide	67.9		P	61 - 116
Fipronil Sulfone	87.5		P	55 - 117
Fluazifop-P-butyl	77.6		P	62 - 127
Fludioxonil	108		P	62 - 128
Flumioxazin	99.3		P	33 - 250
Flutolanil	112		P	56 - 127
Fluxapyroxad	106		P	45 - 128
Fonofos	71.0		P	62 - 111
Hexazinone	92.5		P	46 - 139
Imazalil	63.4		P	38 - 142
Iprodione	131		P	47 - 135
Loratadine	140		P	10 - 244
Malathion	93.3		P	61 - 139
Metalaxyl	83.5		P	10 - 119
Metolachlor	96.1		P	65 - 118
Metribuzin	90.5		P	51 - 250
Mevinphos	78.8		P	53 - 121
Molinate	60.5		P	42 - 96.0

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P418014

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Myclobutanil	114		P	55 - 128
Naled	69.8		P	10 - 98.0
Napropamide	70.4		P	49 - 121
Norflurazon	80.8		P	61 - 126
Octinoxate	85.4		P	30 - 159
Oxadiazon	89.5		P	59 - 116
Oxybenzone	73.1		P	61 - 139
Oxyfluorfen	106		P	64 - 137
Parathion Ethyl	100		P	70 - 112
Parathion Methyl	96.3		P	76 - 133
PBDE-47	77.3		P	50 - 150
PBDE-99	80.9		P	50 - 150
Pendimethalin	113		P	52 - 117
Phenytoin	64.2		P	10 - 199
Phorate	89.1		P	48 - 121
Prodiamine	65.0		P	26 - 142
Prometon	78.1		P	43 - 123
Prometryn	95.7		P	66 - 127
Pronamide	109		P	75 - 121
Propanil	97.3		P	45 - 150
Propargite	131		P	42 - 208
Propiconazole	89.8		P	60 - 125
Pyraflufen Ethyl	73.0		P	70 - 138
Pyridaben	129		P	35 - 245
Pyriproxyfen	146		P	30 - 149
Simazine	80.2		P	72 - 125
Stirophos	62.0		P	29 - 164
Sulfentrazone	77.7		P	21 - 139
Tebuconazole	108		P	10 - 115
Terbufos	91.5		P	60 - 123
Terbutylazine	75.3		P	72 - 115
Thiobencarb	94.3		P	31 - 139
Tri-o-cresyl Phosphate	79.0		P	50 - 150
Triadimefon	83.8		P	65 - 116

Reference Method: EPA 8276

Batch ID: P417747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	99.0		P	61 - 116
Toxaphene	98.1		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P417605

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	119		P	40 - 150
AMPA	146		P	40 - 150
Endothall	109		P	40 - 150
Glufosinate	146		P	40 - 150
Glyphosate	134		P	40 - 150
Sucralose	136		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P417606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	101		P	40 - 150
2,4,5-T	100		P	40 - 150
Acetaminophen	34.6		P	30 - 150
Acetamiprid	88.1		P	40 - 150
Afidopyropen	76.3		P	30 - 150
Bentazon	102		P	30 - 150
Benzovindiflupyr	94.5		P	40 - 150
Carbamazepine	101		P	40 - 150
Clothianidin	98.8		P	40 - 150
Dinotefuran	102		P	40 - 150
Diuron	89.5		P	40 - 150
Fenuron	96.6		P	40 - 150
Fluridone	100		P	40 - 150
Hydrocodone	96.5		P	40 - 150
Ibuprofen	87.3		P	40 - 150
Imazapyr	114		P	40 - 150
Imidacloprid	106		P	40 - 150
Linuron	88.6		P	40 - 150
Mandestrobin	97.8		P	40 - 150
MCPP	106		P	40 - 150
Naproxen	73.4		P	40 - 150
Primidone	98.5		P	40 - 150
Pyraclostrobin	90.1		P	40 - 150
Silvex	97.5		P	40 - 150
Thiamethoxam	104		P	40 - 150
Tolfenpyrad	54.1		P	30 - 150
Triclopyr	85.0		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417651

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	101		P	40 - 150
Aldicarb	56.9		P	30 - 150
Aldicarb Sulfone	110		P	40 - 150
Aldicarb Sulfoxide	88.2		P	40 - 150
Carbaryl	98.3		P	40 - 150
Carbofuran	88.1		P	40 - 150
Methiocarb	93.4		P	40 - 150
Methomyl	89.3		P	40 - 150
Oxamyl	98.7		P	40 - 150
Propoxur	92.0		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P418116

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P417948

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P417813

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418020

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345933	Chloride	95.8		P	90 - 110
2346142	Chloride	93.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418025

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345933	Sulfate	89.6		F	90 - 110
2346142	Sulfate	92.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417775

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346030	Ammonia-N	102	99.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417798

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346252	Kjeldahl Nitrogen	101	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345942	NO2NO3-N	99.2	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417991

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346278	Total-P	106	105	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P417747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345548	Aldrin	55.4	60.9	P/P	20 - 82.0
2345548	Alpha-BHC	91.1	88.4	P/P	71 - 109
2345548	Alpha-Chlordane	62.8	58.9	P/P	42 - 106
2345548	Beta-BHC	98.8	111	P/P	69 - 180
2345548	Beta-Cyfluthrin	89.7	125	P/P	18 - 175
2345548	Bifenthrin	77.1	79.3	P/P	21 - 128
2345548	Chlorothalonil	95.4	152	P/P	10 - 300
2345548	Cis-Nonachlor	69.9	85.6	P/P	34 - 106
2345548	Cypermethrin	83.9	108	P/P	22 - 158
2345548	Dacthal	94.8	93.9	P/P	54 - 116
2345548	DDD-p,p'	56.6	75.8	P/P	34 - 107
2345548	DDE-p,p'	60.9	62.5	P/P	33 - 110
2345548	DDT-p,p'	76.2	64.6	P/P	50 - 122
2345548	Delta-BHC	117	142	P/P	77 - 193

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P417747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345548	Deltamethrin	100	126	P/P	10 - 195
2345548	Dichlobenil	68.1	69.3	P/P	25 - 113
2345548	Dicofol	97.8	97.2	P/P	38 - 247
2345548	Dieldrin	72.0	76.9	P/P	45 - 118
2345548	Endosulfan I	73.1	81.2	P/P	51 - 106
2345548	Endosulfan II	63.4	79.8	P/P	37 - 122
2345548	Endosulfan Sulfate	76.2	94.7	P/P	43 - 132
2345548	Endrin	71.5	85.8	P/P	29 - 101
2345548	Endrin Aldehyde	64.3	71.4	P/P	19 - 110
2345548	Endrin Ketone	86.2	108	P/P	60 - 140
2345548	Esfenvalerate	81.6	118	P/P	26 - 199
2345548	Ethalfuralin	72.7	78.5	P/P	45 - 99.0
2345548	Fenpropathrin	86.9	91.2	P/P	35 - 120
2345548	Gamma-BHC	100	102	P/P	63 - 128
2345548	Gamma-Chlordane	69.8	65.8	P/P	40 - 104
2345548	Heptachlor	67.3	67.0	P/P	36 - 97.0
2345548	Heptachlor Epoxide	83.6	84.8	P/P	49 - 184
2345548	Hexachlorobenzene	77.9	62.6	P/P	39 - 96.0
2345548	Kepone	34.2	51.9	P/P	10 - 217
2345548	Lambda-Cyhalothrin	76.6	92.7	P/P	21 - 193
2345548	Methoprene	56.9	65.5	P/P	20 - 106
2345548	Methoxychlor	92.7	88.0	P/P	53 - 118
2345548	MGK-264	85.5	95.5	P/P	40 - 118
2345548	Mirex	53.6	57.7	P/P	26 - 92.0
2345548	Oxychlordane	79.6	72.9	P/P	44 - 99.0
2345548	Permethrin	82.4	104	P/P	33 - 182
2345548	Phenothrin	68.6	91.9	P/P	10 - 129
2345548	Piperonyl Butoxide	112	126	P/P	10 - 211
2345548	Prallethrin	80.6	95.1	P/P	24 - 113
2345548	Tau-Fluvalinate	77.7	66.5	P/P	14 - 149
2345548	Tetramethrin	83.0	122	P/P	17 - 151
2345548	Trans-Nonachlor	73.5	69.6	P/P	42 - 102
2345548	Triclosan Methyl	78.5	69.8	P/P	48 - 108
2345548	Trifluralin	74.6	74.2	P/P	47 - 96.0
2345564	PCB-1016	86.5	87.1	P/P	46 - 111
2345564	PCB-1260	84.3	82.1	P/P	45 - 114

Reference Method: EPA 8270E
Batch ID: P418014

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346648	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	88.0	86.4	P/P	50 - 150
2346648	Acetochlor	101	94.5	P/P	65 - 124
2346648	Alachlor	118	105	P/P	61 - 121
2346648	Ametryn	208	177	P/P	52 - 216
2346648	Atrazine Desethyl	91.6	81.9	P/P	15 - 160
2346648	Avobenzone	86.2	91.7	P/P	59 - 206
2346648	Azinphos Methyl	182	136	P/P	40 - 292
2346648	Azoxystrobin	111	122	P/P	12 - 242
2346648	Bromacil	126	135	P/P	54 - 167
2346648	Butylate	40.9	49.9	P/P	14 - 94.0
2346648	Caffeine	93.7	93.7	P/P	10 - 226

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P418014

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346648	Carbophenothion	71.7	63.5	P/P	49 - 122
2346648	Carfentrazone Ethyl	102	79.2	P/P	53 - 138
2346648	Chlorfenapyr	60.7	64.0	P/P	50 - 150
2346648	Chlorpyrifos Ethyl	98.9	100	P/P	52 - 122
2346648	Chlorpyrifos Methyl	102	87.8	P/P	66 - 117
2346648	Coumaphos	105	90.8	P/P	50 - 220
2346648	Cyanazine	201	168	P/P	43 - 245
2346648	Cyprodinil	144	131	P/P	50 - 150
2346648	Demeton	111	102	P/P	43 - 188
2346648	Diazinon	127	99.7	P/P	69 - 131
2346648	Difenoconazole	145	158	P/P	34 - 231
2346648	Dimethenamid	109	102	P/P	55 - 118
2346648	Dimethomorph	143	122	P/P	50 - 150
2346648	Disulfoton	103	94.7	P/P	38 - 141
2346648	Dithiopyr	51.3	39.2	P/F	42 - 116
2346648	EPTC	41.6	52.8	P/P	18 - 85.0
2346648	Ethion	79.6	65.0	P/P	10 - 131
2346648	Ethoprop	93.0	89.6	P/P	65 - 129
2346648	Etridiazole	66.1	67.9	P/P	50 - 150
2346648	Fenamiphos	105	109	P/P	31 - 137
2346648	Fenbuconazole	159	147	P/P	57 - 160
2346648	Fipronil	83.4	77.7	P/P	62 - 132
2346648	Fipronil Desulfinyl	85.1	67.2	P/P	57 - 131
2346648	Fluazifop-P-butyl	81.5	78.0	P/P	54 - 133
2346648	Fludioxonil	123	109	P/P	58 - 127
2346648	Flumioxazin	156	141	P/P	33 - 300
2346648	Flutolanil	126	110	P/P	42 - 130
2346648	Fluxapyroxad	70.3	69.1	P/P	23 - 141
2346648	Fonofos	64.9	60.4	P/P	58 - 119
2346648	Hexazinone	113	107	P/P	68 - 172
2346648	Imazalil	59.1	71.2	P/P	48 - 283
2346648	Iprodione	83.4	81.4	P/P	38 - 140
2346648	Loratadine	134	140	P/P	50 - 150
2346648	Malathion	105	100	P/P	40 - 137
2346648	Metalaxyl	108	96.6	P/P	21 - 129
2346648	Metolachlor	118	114	P/P	55 - 122
2346648	Metribuzin	103	97.7	P/P	38 - 187
2346648	Mevinphos	69.8	75.0	P/P	54 - 134
2346648	Molinate	75.1	78.4	P/P	41 - 97.0
2346648	Myclobutanil	69.3	72.2	P/P	56 - 125
2346648	Naled	200	221	F/F	10 - 108
2346648	Napropamide	89.6	66.4	P/P	50 - 150
2346648	Norflurazon	73.0	68.0	P/P	32 - 122
2346648	Octinoxate	86.2	84.3	P/P	25 - 150
2346648	Oxybenzone	67.4	63.0	P/P	59 - 147
2346648	Oxyfluorfen	137	109	P/P	61 - 153
2346648	Parathion Ethyl	102	107	P/P	59 - 130
2346648	Parathion Methyl	124	113	P/P	65 - 155
2346648	PBDE-47	79.1	77.4	P/P	50 - 150
2346648	PBDE-99	78.4	76.3	P/P	50 - 150
2346648	Pendimethalin	103	102	P/P	49 - 138
2346648	Phenytol	75.4	82.1	P/P	50 - 200

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P418014

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346648	Phorate	92.0	98.6	P/P	54 - 161
2346648	Prodiamine	120	85.3	P/P	33 - 161
2346648	Prometon	131	103	P/P	48 - 140
2346648	Prometryn	161	127	F/P	55 - 134
2346648	Pronamide	131	122	P/P	66 - 137
2346648	Propanil	118	127	P/P	50 - 150
2346648	Propargite	166	136	P/P	50 - 200
2346648	Propiconazole	119	81.1	P/P	36 - 150
2346648	Pyraflufen Ethyl	69.3	63.7	P/P	50 - 150
2346648	Pyridaben	188	162	P/P	50 - 200
2346648	Pyriproxyfen	160	143	P/P	10 - 165
2346648	Simazine	97.0	84.4	P/P	57 - 145
2346648	Stirophos	49.1	22.5	F/F	50 - 150
2346648	Tebuconazole	44.1	43.7	P/P	10 - 127
2346648	Terbufos	106	100	P/P	59 - 138
2346648	Terbutylazine	96.1	78.2	P/P	68 - 119
2346648	Thiobencarb	114	105	P/P	50 - 150
2346648	Tri-o-cresyl Phosphate	75.3	73.2	P/P	50 - 150
2346648	Triadimefon	98.4	95.6	P/P	50 - 150

Reference Method: EPA 8276

Batch ID: P417747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345564	Chlordane	108	101	P/P	53 - 126
2345564	Toxaphene	126	120	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P417605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345974	Acesulfame K	96.6	93.3	P/P	40 - 150
2345974	AMPA	111	110	P/P	40 - 150
2345974	Endothall	94.2	110	P/P	40 - 150
2345974	Glufosinate	90.8	88.8	P/P	40 - 150
2345974	Glyphosate	93.8	92.3	P/P	40 - 150
2345974	Sucralose	111	110	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345138	2,4-D	86.4	81.9	P/P	40 - 150
2345138	2,4,5-T	72.1	70.0	P/P	40 - 150
2345138	Acetaminophen	34.7	40.0	P/P	30 - 150
2345138	Acetamiprid	75.5	86.4	P/P	40 - 150
2345138	Afidopyropen	85.9	92.4	P/P	30 - 150
2345138	Benzovindiflupyr	94.4	96.5	P/P	40 - 150
2345138	Clothianidin	105	90.5	P/P	40 - 150
2345138	Diuron	72.0	80.8	P/P	40 - 150
2345138	Fenuron	88.1	86.2	P/P	40 - 150
2345138	Fluridone	101	94.4	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P417606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345138	Hydrocodone	104	99.8	P/P	40 - 150
2345138	Ibuprofen	89.7	96.0	P/P	40 - 150
2345138	Imazapyr	64.5	59.9	P/P	40 - 150
2345138	Linuron	121	124	P/P	40 - 150
2345138	Mandestrobin	94.8	92.2	P/P	40 - 150
2345138	MCCP	88.0	81.3	P/P	40 - 150
2345138	Naproxen	53.4	65.6	P/P	40 - 150
2345138	Pyraclostrobin	94.0	92.0	P/P	40 - 150
2345138	Silvex	98.1	90.4	P/P	40 - 150
2345138	Thiamethoxam	134	141	P/P	40 - 150
2345138	Tolfenpyrad	59.7	56.4	P/P	30 - 150
2345138	Triclopyr	75.0	69.9	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417651

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345134	3-Hydroxycarbofuran	109	118	P/P	40 - 150
2345134	Aldicarb	70.4	58.0	P/P	30 - 150
2345134	Aldicarb Sulfone	127	134	P/P	40 - 150
2345134	Aldicarb Sulfoxide	39.7	46.5	F/P	40 - 150
2345134	Carbaryl	75.1	68.6	P/P	40 - 150
2345134	Carbofuran	80.0	81.1	P/P	40 - 150
2345134	Methiocarb	87.0	78.0	P/P	40 - 150
2345134	Methomyl	80.7	80.4	P/P	40 - 150
2345134	Oxamyl	97.4	97.1	P/P	40 - 150
2345134	Propoxur	72.9	72.0	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P417948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345591	Fluoride	99.6	99.6	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P417813

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346147	Organic Carbon	95.8	95.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P417683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345933	Color (true)	13.0	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417669

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345935	Turbidity	0.522	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418020

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345933	Chloride	0.0887	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418025

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345933	Sulfate	0.108	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417775

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346030	Ammonia-N	1.71	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417798

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346252	Kjeldahl Nitrogen	1.77	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345942	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417991

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346278	Total-P	0.705	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P417747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345548	Aldrin	9.43	Spike	P	0 - 41
2345548	Alpha-BHC	2.91	Spike	P	0 - 25
2345548	Alpha-Chlordane	5.63	Spike	P	0 - 33
2345548	Beta-BHC	11.3	Spike	P	0 - 36
2345548	Beta-Cyfluthrin	33.3	Spike	P	0 - 42
2345548	Bifenthrin	2.83	Spike	P	0 - 53
2345548	Chlorothalonil	45.7	Spike	P	0 - 71
2345548	Cis-Nonachlor	20.2	Spike	P	0 - 29
2345548	Cypermethrin	25.1	Spike	P	0 - 40
2345548	Dacthal	0.913	Spike	P	0 - 26
2345548	DDD-p,p'	25.6	Spike	P	0 - 39
2345548	DDE-p,p'	2.15	Spike	P	0 - 33
2345548	DDT-p,p'	15.4	Spike	P	0 - 40
2345548	Delta-BHC	19.0	Spike	P	0 - 37
2345548	Deltamethrin	22.9	Spike	P	0 - 100
2345548	Dichlobenil	1.77	Spike	P	0 - 40
2345548	Dicofol	0.682	Spike	P	0 - 31
2345548	Dieldrin	5.38	Spike	P	0 - 27
2345548	Endosulfan I	10.6	Spike	P	0 - 23
2345548	Endosulfan II	22.8	Spike	P	0 - 28
2345548	Endosulfan Sulfate	21.7	Spike	P	0 - 38
2345548	Endrin	18.2	Spike	P	0 - 63
2345548	Endrin Aldehyde	10.4	Spike	P	0 - 60
2345548	Endrin Ketone	22.6	Spike	P	0 - 37
2345548	Esfenvalerate	36.5	Spike	P	0 - 52
2345548	Ethalfuralin	7.66	Spike	P	0 - 23
2345548	Fenpropathrin	4.91	Spike	P	0 - 32
2345548	Gamma-BHC	1.98	Spike	P	0 - 17
2345548	Gamma-Chlordane	5.38	Spike	P	0 - 40
2345548	Heptachlor	0.323	Spike	P	0 - 29
2345548	Heptachlor Epoxide	1.41	Spike	P	0 - 25
2345548	Hexachlorobenzene	21.7	Spike	P	0 - 36
2345548	Kepone	25.5	Spike	P	0 - 93
2345548	Lambda-Cyhalothrin	19.0	Spike	P	0 - 55
2345548	Methoprene	14.0	Spike	P	0 - 53
2345548	Methoxychlor	5.16	Spike	P	0 - 29
2345548	MGK-264	11.0	Spike	P	0 - 35
2345548	Mirex	7.44	Spike	P	0 - 46
2345548	Oxychlordane	8.87	Spike	P	0 - 29
2345548	Permethrin	22.9	Spike	P	0 - 44
2345548	Phenothrin	29.1	Spike	P	0 - 56
2345548	Piperonyl Butoxide	11.4	Spike	P	0 - 100
2345548	Prallethrin	16.5	Spike	P	0 - 42
2345548	Tau-Fluvalinate	15.6	Spike	P	0 - 54
2345548	Tetramethrin	38.1	Spike	P	0 - 51
2345548	Trans-Nonachlor	5.49	Spike	P	0 - 37
2345548	Triclosan Methyl	11.7	Spike	P	0 - 31
2345548	Trifluralin	0.508	Spike	P	0 - 30
2345564	PCB-1016	0.723	Spike	P	0 - 32
2345564	PCB-1260	2.61	Spike	P	0 - 31

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P418014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346648	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	1.89	Spike	P	0 - 30
2346648	Acetochlor	6.77	Spike	P	0 - 27
2346648	Alachlor	11.8	Spike	P	0 - 27
2346648	Ametryn	16.2	Spike	P	0 - 34
2346648	Atrazine	1.14	Spike	P	0 - 41
2346648	Atrazine Desethyl	11.1	Spike	P	0 - 38
2346648	Avobenzone	6.18	Spike	P	0 - 30
2346648	Azinphos Methyl	28.8	Spike	P	0 - 62
2346648	Azoxystrobin	8.99	Spike	P	0 - 32
2346648	Bromacil	6.64	Spike	P	0 - 30
2346648	Butylate	19.9	Spike	P	0 - 59
2346648	Caffeine	0.0523	Spike	P	0 - 60
2346648	Carbophenothion	12.2	Spike	P	0 - 25
2346648	Carfentrazone Ethyl	25.5	Spike	P	0 - 26
2346648	Chlorfenapyr	5.30	Spike	P	0 - 30
2346648	Chlorpyrifos Ethyl	1.11	Spike	P	0 - 27
2346648	Chlorpyrifos Methyl	14.6	Spike	P	0 - 26
2346648	Coumaphos	14.8	Spike	P	0 - 30
2346648	Cyanazine	18.1	Spike	P	0 - 58
2346648	Cyprodinil	10.0	Spike	P	0 - 30
2346648	Demeton	8.81	Spike	P	0 - 25
2346648	Diazinon	24.0	Spike	P	0 - 29
2346648	Difenoconazole	8.45	Spike	P	0 - 25
2346648	Dimethenamid	5.11	Spike	P	0 - 30
2346648	Dimethomorph	15.7	Spike	P	0 - 30
2346648	Disulfoton	8.02	Spike	P	0 - 33
2346648	Dithiopyr	23.3	Spike	F	0 - 22
2346648	EPTC	23.8	Spike	P	0 - 38
2346648	Ethion	20.1	Spike	P	0 - 79
2346648	Ethoprop	3.65	Spike	P	0 - 23
2346648	Etridiazole	2.73	Spike	P	0 - 30
2346648	Fenamiphos	3.82	Spike	P	0 - 58
2346648	Fenbuconazole	8.17	Spike	P	0 - 37
2346648	Fipronil	5.95	Spike	P	0 - 33
2346648	Fipronil Desulfinyl	13.9	Spike	P	0 - 26
2346648	Fipronil Sulfide	13.0	Spike	P	0 - 37
2346648	Fipronil Sulfone	31.0	Spike	P	0 - 50
2346648	Fluazifop-P-butyl	4.38	Spike	P	0 - 24
2346648	Fludioxonil	11.7	Spike	P	0 - 26
2346648	Flumioxazin	10.1	Spike	P	0 - 37
2346648	Flutolanil	12.9	Spike	P	0 - 26
2346648	Fluxapyroxad	1.14	Spike	P	0 - 34
2346648	Fonofos	7.22	Spike	P	0 - 27
2346648	Hexazinone	5.04	Spike	P	0 - 36
2346648	Imazalil	18.6	Spike	P	0 - 65
2346648	Iprodione	2.38	Spike	P	0 - 33
2346648	Loratadine	4.52	Spike	P	0 - 30
2346648	Malathion	4.81	Spike	P	0 - 44
2346648	Metalaxyl	11.0	Spike	P	0 - 38
2346648	Metolachlor	3.15	Spike	P	0 - 36
2346648	Metribuzin	5.05	Spike	P	0 - 63

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P418014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346648	Mevinphos	7.22	Spike	P	0 - 26
2346648	Molinate	4.30	Spike	P	0 - 40
2346648	Myclobutanil	2.74	Spike	P	0 - 21
2346648	Naled	10.1	Spike	P	0 - 26
2346648	Napropamide	29.7	Spike	P	0 - 30
2346648	Norflurazon	7.10	Spike	P	0 - 24
2346648	Octinoxate	2.26	Spike	P	0 - 30
2346648	Oxadiazon	1.30	Spike	P	0 - 27
2346648	Oxybenzone	6.78	Spike	P	0 - 30
2346648	Oxyfluorfen	22.6	Spike	P	0 - 24
2346648	Parathion Ethyl	4.21	Spike	P	0 - 28
2346648	Parathion Methyl	9.19	Spike	P	0 - 27
2346648	PBDE-47	2.11	Spike	P	0 - 30
2346648	PBDE-99	2.71	Spike	P	0 - 30
2346648	Pendimethalin	0.656	Spike	P	0 - 31
2346648	Phenytoin	8.57	Spike	P	0 - 30
2346648	Phorate	6.90	Spike	P	0 - 27
2346648	Prodiamine	31.4	Spike	P	0 - 52
2346648	Prometon	21.6	Spike	P	0 - 31
2346648	Prometryn	24.0	Spike	P	0 - 28
2346648	Pronamide	7.30	Spike	P	0 - 26
2346648	Propanil	7.33	Spike	P	0 - 30
2346648	Propargite	19.9	Spike	P	0 - 30
2346648	Propiconazole	24.8	Spike	P	0 - 31
2346648	Pyraflufen Ethyl	8.35	Spike	P	0 - 30
2346648	Pyridaben	14.6	Spike	P	0 - 30
2346648	Pyriproxyfen	11.4	Spike	P	0 - 50
2346648	Simazine	13.9	Spike	P	0 - 29
2346648	Stirophos	74.5	Spike	F	0 - 30
2346648	Sulfentrazone	3.58	Spike	P	0 - 33
2346648	Tebuconazole	0.743	Spike	P	0 - 44
2346648	Terbufos	5.66	Spike	P	0 - 29
2346648	Terbuthylazine	20.5	Spike	P	0 - 27
2346648	Thiobencarb	7.61	Spike	P	0 - 30
2346648	Tri-o-cresyl Phosphate	2.85	Spike	P	0 - 30
2346648	Triadimefon	2.45	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P417747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345564	Chlordane	6.89	Spike	P	0 - 25
2345564	Toxaphene	5.48	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P417605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345974	Acesulfame K	3.46	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P417605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345974	AMPA	1.26	Spike	P	0 - 30
2345974	Endothall	15.4	Spike	P	0 - 30
2345974	Glufosinate	2.31	Spike	P	0 - 30
2345974	Glyphosate	1.53	Spike	P	0 - 30
2345974	Sucralose	0.576	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P417606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345138	2,4-D	4.33	Spike	P	0 - 30
2345138	2,4,5-T	2.92	Spike	P	0 - 30
2345138	Acetaminophen	14.3	Spike	P	0 - 30
2345138	Acetamiprid	11.8	Spike	P	0 - 30
2345138	Afidopyropen	7.31	Spike	P	0 - 30
2345138	Bentazon	8.17	Spike	P	0 - 30
2345138	Benzovindiflupyr	2.26	Spike	P	0 - 30
2345138	Carbamazepine	0.0370	Spike	P	0 - 30
2345138	Clothianidin	10.3	Spike	P	0 - 30
2345138	Dinotefuran	2.10	Spike	P	0 - 30
2345138	Diuron	7.73	Spike	P	0 - 30
2345138	Fenuron	2.16	Spike	P	0 - 30
2345138	Fluridone	5.98	Spike	P	0 - 30
2345138	Hydrocodone	4.05	Spike	P	0 - 30
2345138	Ibuprofen	6.79	Spike	P	0 - 30
2345138	Imazapyr	4.66	Spike	P	0 - 30
2345138	Imidacloprid	3.20	Spike	P	0 - 30
2345138	Linuron	2.34	Spike	P	0 - 30
2345138	Mandestrobin	2.84	Spike	P	0 - 30
2345138	MCPPP	7.82	Spike	P	0 - 30
2345138	Naproxen	20.5	Spike	P	0 - 30
2345138	Primidone	3.82	Spike	P	0 - 30
2345138	Pyraclostrobin	2.08	Spike	P	0 - 30
2345138	Silvex	8.17	Spike	P	0 - 30
2345138	Thiamethoxam	5.22	Spike	P	0 - 30
2345138	Tolfenpyrad	5.75	Spike	P	0 - 30
2345138	Triclopyr	7.03	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P417651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345134	3-Hydroxycarbofuran	8.12	Spike	P	0 - 30
2345134	Aldicarb	19.3	Spike	P	0 - 30
2345134	Aldicarb Sulfone	5.47	Spike	P	0 - 30
2345134	Aldicarb Sulfoxide	15.8	Spike	P	0 - 30
2345134	Carbaryl	9.13	Spike	P	0 - 30
2345134	Carbofuran	1.46	Spike	P	0 - 30
2345134	Methiocarb	10.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P417651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345134	Methomyl	0.384	Spike	P	0 - 30
2345134	Oxamyl	0.215	Spike	P	0 - 30
2345134	Propoxur	1.33	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P418116

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2347785	Total Alkalinity	1.53	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P418183

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346156	TDS	4.15	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P418227

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346156	TSS	7.41	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P417948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345591	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P417813

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346147	Organic Carbon	0.202	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2345973
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	75.6	P	30 - 160

Lab Sample ID: 2345974
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	86.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	78.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	109	P	30 - 160
EPA 8321B	Diuron-d6	89.5	P	30 - 160
EPA 8321B	Endothall-d6	120	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	98.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.5	P	30 - 160
EPA 8321B	Primidone-d5	111	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	30 - 160

Lab Sample ID: 2345975
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	76.3	P	29 - 130
EPA 8270E	Decachlorobiphenyl	60.0	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	47.1	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	53.1	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	60.8	P	30 - 101
EPA 8276	PCNB	72.1	P	48 - 121

Lab Sample ID: 2345976
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	80.4	P	20 - 200
EPA 8270E	Simazine-d10	75.2	P	71 - 140
EPA 8270E	Terbufos-d10	77.1	P	62 - 131
EPA 8270E	Terphenyl-d14	75.8	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A113916

Included Lab Sample IDs: 2345933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A113919

Included Lab Sample IDs: 2345933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	104	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113922

Included Lab Sample IDs: 2345974

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	99.5	95.1	P/P	50 - 150
2,4,5-T	94.3	100	P/P	50 - 150
Acetaminophen	101	98.0	P/P	60 - 160
Acetamiprid	88.1	100	P/P	50 - 150
Afidopyropen	91.4	96.3	P/P	50 - 150
Bentazon	99.3	93.6	P/P	50 - 160
Benzovindiflupyr	98.4	95.1	P/P	50 - 150
Carbamazepine	104	110	P/P	60 - 150
Clothianidin	108	96.3	P/P	60 - 150
Dinotefuran	102	101	P/P	50 - 150
Diuron	112	96.9	P/P	60 - 160
Fenuron	98.3	96.3	P/P	60 - 150
Fluridone	112	104	P/P	60 - 160
Hydrocodone	101	101	P/P	60 - 150
Ibuprofen	78.2	74.7	P/P	50 - 160
Imazapyr	110	115	P/P	50 - 150
Imidacloprid	99.1	94.7	P/P	60 - 150
Linuron	95.6	88.5	P/P	60 - 150
Mandestrobin	105	99.9	P/P	50 - 150
MCPP	104	97.5	P/P	50 - 150
Naproxen	68.4	75.2	P/P	50 - 160
Primidone	96.4	104	P/P	60 - 150
Pyraclostrobin	102	103	P/P	60 - 150
Silvex	89.1	87.7	P/P	50 - 150
Thiamethoxam	102	100	P/P	50 - 150
Tolfenpyrad	96.4	95.9	P/P	60 - 150
Triclopyr	78.8	81.1	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113931

Included Lab Sample IDs: 2345934

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A113947
Included Lab Sample IDs: 2345974

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	96.9	P/P	60 - 160
Sucralose	114	113	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A113950
Included Lab Sample IDs: 2345974

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	123	125	P/P	60 - 160
Endothall	91.8	102	P/P	60 - 160
Glufosinate	103	107	P/P	60 - 160
Glyphosate	117	119	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A113967
Included Lab Sample IDs: 2345934

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.8	99.4	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A113978
Included Lab Sample IDs: 2345973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	73.8	81.1	P/P	60 - 150
Aldicarb	70.6	73.2	P/P	60 - 150
Aldicarb Sulfone	61.3	69.9	P/P	50 - 150
Aldicarb Sulfoxide	70.6	78.0	P/P	50 - 150
Carbaryl	71.7	81.0	P/P	60 - 150
Carbofuran	67.0	72.8	P/P	50 - 150
Methiocarb	70.8	76.6	P/P	50 - 150
Methomyl	79.6	82.6	P/P	50 - 150
Oxamyl	86.3	89.7	P/P	50 - 150
Propoxur	72.9	83.4	P/P	50 - 150

Reference Method: SM 5310 B-2011
Run ID: A113980
Included Lab Sample IDs: 2345934

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.0	97.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A114020
Included Lab Sample IDs: 2345933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A114048

Included Lab Sample IDs: 2345933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Sulfate	100	98.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114073

Included Lab Sample IDs: 2345975

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	106		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	93.5		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	102		P	80 - 120
Bifenthrin	97.3		P	80 - 120
Chlorothalonil	115		P	80 - 120
Cis-Nonachlor	104		P	80 - 120
Cypermethrin	83.4		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	104		P	80 - 120
DDE-p,p'	110		P	80 - 120
DDT-p,p'	99.3		P	80 - 120
Delta-BHC	120		P	80 - 120
Deltamethrin	101		P	80 - 120
Dichlobenil	92.9		P	80 - 120
Dicofol	100		P	80 - 120
Dieldrin	109		P	80 - 120
Endosulfan I	109		P	80 - 120
Endosulfan II	99.0		P	80 - 120
Endosulfan Sulfate	99.3		P	80 - 120
Endrin	97.3		P	80 - 120
Endrin Aldehyde	112		P	80 - 120
Endrin Ketone	106		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	97.9		P	80 - 120
Fenpropathrin	108		P	80 - 120
Gamma-BHC	114		P	80 - 120
Gamma-Chlordane	118		P	80 - 120
Heptachlor	114		P	80 - 120
Heptachlor Epoxide	111		P	80 - 120
Hexachlorobenzene	97.5		P	80 - 120
Kepone	75.2*		F	80 - 120
Lambda-Cyhalothrin	97.5		P	80 - 120
Methoprene	106		P	80 - 120
Methoxychlor	97.0		P	80 - 120
MGK-264	106		P	80 - 120
Mirex	92.2		P	80 - 120
Oxychlordane	95.4		P	80 - 120
Permethrin	96.1		P	80 - 120
Phenothrin	91.5		P	80 - 120
Piperonyl Butoxide	96.2		P	80 - 120
Prallethrin	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114073
Included Lab Sample IDs: 2345975

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tau-Fluvalinate	101		P	80 - 120
Tetramethrin	95.5		P	80 - 120
Trans-Nonachlor	105		P	80 - 120
Triclosan Methyl	97.4		P	80 - 120
Trifluralin	102		P	80 - 120

Reference Method: EPA 8276
Run ID: A114079
Included Lab Sample IDs: 2345975

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	109		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114080
Included Lab Sample IDs: 2345975

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.5		P	80 - 120
PCB-1260	97.1		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114099
Included Lab Sample IDs: 2345934

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

Reference Method: SM 2320 B-2011
Run ID: A114102
Included Lab Sample IDs: 2345933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114104
Included Lab Sample IDs: 2345934

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	90.1	92.4	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A114136
Included Lab Sample IDs: 2345976

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.1		P	80 - 120
Avobenzene	101		P	80 - 120
Octinoxate	94.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A114136
 Included Lab Sample IDs: 2345976

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxybenzone	95.3		P	80 - 120
PBDE-47	94.7		P	80 - 120
PBDE-99	95.5		P	80 - 120
Tri-o-cresyl Phosphate	98.2		P	80 - 120

Reference Method: EPA 8270E
 Run ID: A114149
 Included Lab Sample IDs: 2345976

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	109		P	80 - 120
Alachlor	107		P	80 - 120
Ametryn	94.3		P	80 - 120
Atrazine	98.6		P	80 - 120
Atrazine Desethyl	101		P	80 - 120
Azinphos Methyl	105		P	80 - 120
Azoxystrobin	98.8		P	80 - 120
Bromacil	96.1		P	80 - 120
Butylate	103		P	80 - 120
Caffeine	98.0		P	80 - 120
Carbophenothion	93.6		P	80 - 120
Carfentrazone Ethyl	94.7		P	80 - 120
Chlorfenapyr	106		P	80 - 120
Chlorpyrifos Ethyl	107		P	80 - 120
Chlorpyrifos Methyl	111		P	80 - 120
Coumaphos	92.6		P	80 - 120
Cyanazine	104		P	80 - 120
Cyprodinil	111		P	80 - 120
Demeton	99.4		P	80 - 120
Diazinon	89.7		P	80 - 120
Difenoconazole	101		P	80 - 120
Dimethenamid	108		P	80 - 120
Dimethomorph	102		P	80 - 120
Disulfoton	104		P	80 - 120
Dithiopyr	102		P	80 - 120
EPTC	86.4		P	80 - 120
Ethion	98.5		P	80 - 120
Ethoprop	99.1		P	80 - 120
Etridiazole	104		P	80 - 120
Fenamiphos	107		P	80 - 120
Fenbuconazole	110		P	80 - 120
Fipronil	116		P	80 - 120
Fipronil Desulfinyl	99.7		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	96.3		P	80 - 120
Fluazifop-P-butyl	110		P	80 - 120
Fludioxonil	110		P	80 - 120
Flumioxazin	101		P	80 - 120
Flutolanil	105		P	80 - 120
Fluxapyroxad	95.9		P	80 - 120
Fonofos	96.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A114149
 Included Lab Sample IDs: 2345976

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexazinone	96.1		P	80 - 120
Imazalil	108		P	80 - 120
Iprodione	98.5		P	80 - 120
Loratadine	96.1		P	80 - 120
Malathion	96.1		P	80 - 120
Metalaxyl	105		P	80 - 120
Metolachlor	107		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	96.2		P	80 - 120
Molinate	99.8		P	80 - 120
Myclobutanil	116		P	80 - 120
Naled	96.9		P	80 - 120
Napropamide	108		P	80 - 120
Norflurazon	95.3		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	113		P	80 - 120
Parathion Ethyl	91.9		P	80 - 120
Parathion Methyl	91.5		P	80 - 120
Pendimethalin	104		P	80 - 120
Phenytoin	103		P	80 - 120
Phorate	99.4		P	80 - 120
Prodiamine	96.6		P	80 - 120
Prometon	94.9		P	80 - 120
Prometryn	108		P	80 - 120
Pronamide	94.3		P	80 - 120
Propanil	111		P	80 - 120
Propargite	102		P	80 - 120
Propiconazole	98.8		P	80 - 120
Pyraflufen Ethyl	94.3		P	80 - 120
Pyridaben	107		P	80 - 120
Pyriproxyfen	111		P	80 - 120
Simazine	102		P	80 - 120
Stirophos	114		P	80 - 120
Sulfentrazone	95.7		P	80 - 120
Tebuconazole	98.9		P	80 - 120
Terbufos	99.2		P	80 - 120
Terbuthylazine	102		P	80 - 120
Thiobencarb	105		P	80 - 120
Triadimefon	103		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)	105				13.0	
EPA 180.1 Rev. 2.0	Turbidity	96.6				0.522	
EPA 300.0 Rev. 2.1	Chloride	101	95.8	93.6		0.0887	
	Sulfate	98.2	89.6	92.6		0.108	
EPA 350.1 Rev. 2.0	Ammonia-N	96.2	102	99.4			1.71
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.8	101	104			1.77
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	99.2	99.2			0.0
EPA 365.1 Rev. 2.0	Total-P	105	106	105			0.705
EPA 8270E	2-Ethylhexyl	78.6	88.0	86.4			1.89
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	98.8	101	94.5			6.77
	Alachlor	90.2	118	105			11.8
	Aldrin	50.7	55.4	60.9			9.43
	Alpha-BHC	88.5	91.1	88.4			2.91
	Alpha-Chlordane	64.5	62.8	58.9			5.63
	Ametryn	101	208	177			16.2
	Atrazine	84.4					1.14
	Atrazine Desethyl	62.8	91.6	81.9			11.1
	Avobenzone	76.8	86.2	91.7			6.18
	Azinphos Methyl	147	182	136			28.8
	Azoxystrobin	95.8	111	122			8.99
	Beta-BHC	110	98.8	111			11.3
	Beta-Cyfluthrin	63.0	89.7	125			33.3
	Bifenthrin	40.0	77.1	79.3			2.83
	Bromacil	88.1	126	135			6.64
	Butylate	46.2	40.9	49.9			19.9
	Caffeine	73.6	93.7	93.7			0.0523
	Carbophenothion	60.6	71.7	63.5			12.2
	Carfentrazone Ethyl	79.8	102	79.2			25.5
	Chlorfenapyr	63.9	60.7	64.0			5.30
	Chlorothalonil	91.7	95.4	152			45.7
	Chlorpyrifos Ethyl	81.7	98.9	100			1.11
	Chlorpyrifos Methyl	84.2	102	87.8			14.6
	Cis-Nonachlor	76.4	69.9	85.6			20.2
	Coumaphos	90.3	105	90.8			14.8
	Cyanazine	148	201	168			18.1
	Cypermethrin	59.8	83.9	108			25.1
	Cyprodinil	96.6	144	131			10.0
	Dacthal	88.7	94.8	93.9			0.913
	DDD-p,p'	76.8	56.6	75.8			25.6
	DDE-p,p'	74.5	60.9	62.5			2.15
	DDT-p,p'	69.7	76.2	64.6			15.4
	Delta-BHC	125	117	142			19.0
	Deltamethrin	73.5	100	126			22.9
	Demeton	72.1	111	102			8.81
	Diazinon	82.9	127	99.7			24.0
	Dichlobenil	93.9	68.1	69.3			1.77
	Dicofol	82.3	97.8	97.2			0.682
	Dieldrin	77.5	72.0	76.9			5.38
	Difenoconazole	70.8	145	158			8.45
	Dimethenamid	79.4	109	102			5.11
	Dimethomorph	91.5	143	122			15.7
	Disulfoton	70.0	103	94.7			8.02

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Dithiopyr	67.3	51.3	39.2		23.3
	Endosulfan I	75.2	73.1	81.2		10.6
	Endosulfan II	67.0	63.4	79.8		22.8
	Endosulfan Sulfate	79.0	76.2	94.7		21.7
	Endrin	73.8	71.5	85.8		18.2
	Endrin Aldehyde	83.3	64.3	71.4		10.4
	Endrin Ketone	105	86.2	108		22.6
	EPTC	41.5	41.6	52.8		23.8
	Esfenvalerate	57.4	118	81.6		36.5
	Ethalfuralin	67.2	78.5	72.7		7.66
	Ethion	76.9	79.6	65.0		20.1
	Ethoprop	83.3	93.0	89.6		3.65
	Etridiazole	54.6	66.1	67.9		2.73
	Fenamiphos	102	105	109		3.82
	Fenbuconazole	131	159	147		8.17
	Fenpropathrin	63.6	91.2	86.9		4.91
	Fipronil	87.4	83.4	77.7		5.95
	Fipronil Desulfinyl	66.9	85.1	67.2		13.9
	Fipronil Sulfide	67.9				13.0
	Fipronil Sulfone	87.5				31.0
	Fluazifop-P-butyl	77.6	81.5	78.0		4.38
	Fludioxonil	108	123	109		11.7
	Flumioxazin	99.3	156	141		10.1
	Flutolanil	112	126	110		12.9
	Fluxapyroxad	106	70.3	69.1		1.14
	Fonofos	71.0	64.9	60.4		7.22
	Gamma-BHC	105	102	100		1.98
	Gamma-Chlordane	69.2	65.8	69.8		5.38
	Heptachlor	64.9	67.0	67.3		0.323
	Heptachlor Epoxide	73.3	84.8	83.6		1.41
	Hexachlorobenzene	68.9	62.6	77.9		21.7
	Hexazinone	92.5	113	107		5.04
	Imazalil	63.4	59.1	71.2		18.6
	Iprodione	131	83.4	81.4		2.38
	Kepone	38.4	51.9	34.2		25.5
	Lambda-Cyhalothrin	46.0	92.7	76.6		19.0
	Loratadine	140	134	140		4.52
	Malathion	93.3	105	100		4.81
	Metalaxyl	83.5	108	96.6		11.0
	Methoprene	42.7	65.5	56.9		14.0
	Methoxychlor	82.6	88.0	92.7		5.16
	Metolachlor	96.1	118	114		3.15
	Metribuzin	90.5	103	97.7		5.05
	Mevinphos	78.8	69.8	75.0		7.22
	MGK-264	80.3	95.5	85.5		11.0
	Mirex	46.2	57.7	53.6		7.44
	Molinate	60.5	75.1	78.4		4.30
	Myclobutanil	114	69.3	72.2		2.74
	Naled	69.8	200	221		10.1
	Napropamide	70.4	89.6	66.4		29.7
	Norflurazon	80.8	73.0	68.0		7.10
	Octinoxate	85.4	86.2	84.3		2.26
	Oxadiazon	89.5				1.30
	Oxybenzone	73.1	67.4	63.0		6.78

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Oxychlordane	66.4	72.9	79.6			8.87
	Oxyfluorfen	106	137	109			22.6
	Parathion Ethyl	100	102	107			4.21
	Parathion Methyl	96.3	124	113			9.19
	PBDE-47	77.3	79.1	77.4			2.11
	PBDE-99	80.9	78.4	76.3			2.71
	PCB-1016	84.2	86.5	87.1			0.723
	PCB-1260	85.9	84.3	82.1			2.61
	Pendimethalin	113	103	102			0.656
	Permethrin	60.6	104	82.4			22.9
	Phenothrin	40.9	91.9	68.6			29.1
	Phenytol	64.2	75.4	82.1			8.57
	Phorate	89.1	92.0	98.6			6.90
	Piperonyl Butoxide	97.0	126	112			11.4
	Prallethrin	84.3	95.1	80.6			16.5
	Prodiamine	65.0	120	85.3			31.4
	Prometon	78.1	131	103			21.6
	Prometryn	95.7	161	127			24.0
	Pronamide	109	131	122			7.30
	Propanil	97.3	118	127			7.33
	Propargite	131	166	136			19.9
	Propiconazole	89.8	119	81.1			24.8
	Pyraflufen Ethyl	73.0	69.3	63.7			8.35
	Pyridaben	129	188	162			14.6
	Pyriproxyfen	146	160	143			11.4
	Simazine	80.2	97.0	84.4			13.9
	Stirophos	62.0	49.1	22.5			74.5
	Sulfentrazone	77.7					3.58
	Tau-Fluvalinate	49.1	66.5	77.7			15.6
	Tebuconazole	108	44.1	43.7			0.743
	Terbufos	91.5	106	100			5.66
	Terbutylazine	75.3	96.1	78.2			20.5
	Tetramethrin	78.6	122	83.0			38.1
	Thiobencarb	94.3	114	105			7.61
	Trans-Nonachlor	64.3	69.6	73.5			5.49
	Tri-o-cresyl Phosphate	79.0	75.3	73.2			2.85
	Triadimefon	83.8	98.4	95.6			2.45
	Triclosan Methyl	74.6	69.8	78.5			11.7
	Trifluralin	67.7	74.2	74.6			0.508
EPA 8276	Chlordane	99.0	108	101			6.89
	Toxaphene	98.1	126	120			5.48
EPA 8321B	2,4-D	101	86.4	81.9			4.33
	2,4,5-T	100	72.1	70.0			2.92
	3-Hydroxycarbofuran	101	109	118			8.12
	Acesulfame K	119	96.6	93.3			3.46
	Acetaminophen	34.6	34.7	40.0			14.3
	Acetamiprid	88.1	75.5	86.4			11.8
	Afidopyropen	76.3	85.9	92.4			7.31
	Aldicarb	56.9	70.4	58.0			19.3
	Aldicarb Sulfone	110	127	134			5.47
	Aldicarb Sulfoxide	88.2	39.7	46.5			15.8
	AMPA	146	111	110			1.26
	Bentazon	102					8.17
	Benzovindiflupyr	94.5	94.4	96.5			2.26

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Carbamazepine	101					0.0370
	Carbaryl	98.3	75.1	68.6			9.13
	Carbofuran	88.1	80.0	81.1			1.46
	Clothianidin	98.8	105	90.5			10.3
	Dinotefuran	102					2.10
	Diuron	89.5	72.0	80.8			7.73
	Endothall	109	94.2	110			15.4
	Fenuron	96.6	88.1	86.2			2.16
	Fluridone	100	101	94.4			5.98
	Glufosinate	146	90.8	88.8			2.31
	Glyphosate	134	93.8	92.3			1.53
	Hydrocodone	96.5	104	99.8			4.05
	Ibuprofen	87.3	89.7	96.0			6.79
	Imazapyr	114	64.5	59.9			4.66
	Imidacloprid	106					3.20
	Linuron	88.6	121	124			2.34
	Mandestrobin	97.8	94.8	92.2			2.84
	MCPP	106	88.0	81.3			7.82
	Methiocarb	93.4	87.0	78.0			10.9
	Methomyl	89.3	80.7	80.4			0.384
	Naproxen	73.4	53.4	65.6			20.5
	Oxamyl	98.7	97.4	97.1			0.215
	Primidone	98.5					3.82
	Propoxur	92.0	72.9	72.0			1.33
	Pyraclostrobin	90.1	94.0	92.0			2.08
	Silvex	97.5	98.1	90.4			8.17
	Sucralose	136	111	110			0.576
	Thiamethoxam	104	134	141			5.22
	Tolfenpyrad	54.1	59.7	56.4			5.75
	Triclopyr	85.0	75.0	69.9			7.03
SM 2320 B-2011	Total Alkalinity	100				1.53	
SM 2540 C-2011	TDS					4.15	
SM 2540 D-2011	TSS					7.41	
SM 4500-F- C-2011	Fluoride	103	99.6	99.6			0.0
SM 5310 B-2011	Organic Carbon	97.8	95.8	95.6			0.202

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2345933
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2345933
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2345933
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2345933
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2345934
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2345934
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2345934
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2345934
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2345976
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2345975
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2345976
EPA 8270E	PCBs in water matrices by GC/MS/MS	2345975
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2345975

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2345973
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2345974
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2345933
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2345933
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2345933
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2345933
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2345934

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	08/03/2022			08/04/2022 15:57	Blanca Fach	2345933
EPA 180.1 Rev. 2.0	08/03/2022			08/04/2022 13:39	Anna M. Plaviak	2345933
EPA 300.0 Rev. 2.1	08/03/2022			08/11/2022 13:40	Anna M. Plaviak	2345933
EPA 350.1 Rev. 2.0	08/03/2022			08/08/2022 16:35	Ping Hua	2345934
EPA 351.2 Rev. 2.0	08/03/2022	08/09/2022 15:01	Alexandra J Mattheus	08/15/2022 14:10	Samantha L Bates	2345934
EPA 353.2 Rev. 2.0	08/03/2022			08/05/2022 10:41	Beverly Y. Sanders	2345934
EPA 365.1 Rev. 2.0	08/03/2022	08/12/2022 15:00	Simonne.V. Calhoun	08/15/2022 09:51	James L Waggerby	2345934
EPA 8270E	08/03/2022	08/08/2022 08:30	Rasheda Ghaffari	08/10/2022 19:00	Vandana T. Nagar	2345975
	08/03/2022	08/08/2022 08:30	Rasheda Ghaffari	08/12/2022 01:17	Julie Wi	2345975
	08/03/2022	08/10/2022 08:30	Rasheda Ghaffari	08/15/2022 17:24	Lipi Saha	2345976
	08/03/2022	08/10/2022 08:30	Rasheda Ghaffari	08/15/2022 21:15	Michael Poppell	2345976
EPA 8276	08/03/2022	08/08/2022 08:30	Rasheda Ghaffari	08/12/2022 07:44	Arthur Maknenko	2345975
EPA 8321B	08/03/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 16:34	Juyoung Kim	2345974
	08/03/2022	08/05/2022 13:00	Umesh Chiluwal	08/05/2022 16:37	Umesh Chiluwal	2345974
	08/03/2022	08/05/2022 13:00	Umesh Chiluwal	08/06/2022 08:47	Umesh Chiluwal	2345974
	08/03/2022	08/08/2022 09:00	Hoor Shaik	08/08/2022 21:53	Juyoung Kim	2345973
SM 2320 B-2011	08/03/2022			08/13/2022 04:41	Adam P Silver	2345933
SM 2540 C-2011	08/03/2022			08/09/2022 15:22	Yijie Li	2345933
SM 2540 D-2011	08/03/2022			08/09/2022 15:22	Yijie Li	2345933
SM 4500-F- C-2011	08/03/2022			08/10/2022 08:10	Adam P Silver	2345933
SM 5310 B-2011	08/03/2022			08/08/2022 18:46	Khloe J Berg	2345934