

Chemical Analysis Report

SO-DIST-2023-02-06-02

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

Event Description: **2022 SMP: Hatchett Creek**
Request ID: **RQ-2023-01-30-21**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: William Mullen

For additional information please contact
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Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 27-FEB-2023 08:14



NON-CONFORMANCE REPORT INCLUDED

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: Hatchett Creek Tidal 2

Collection Date/Time: 01/31/2023 09:10

Field ID: G3SD0192

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384980	EPA 180.1 Rev. 2.0	Turbidity	1.4	YQ	NTU	P425477	
	SM 2320 B-2011	Total Alkalinity	186	Y	mg CaCO3/L	P425570	
	SM 2540 D-2015	TSS	3	UYQ	mg/L	P426001	
	SM 4500-F- C-2011	Fluoride	0.63		mg F/L	P425575	
2384981	EPA 350.1 Rev. 2.0	Ammonia-N	0.080	Y	mg N/L	P425940	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.75	Y	mg N/L	P425748	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.083	Y	mg N/L	P425518	
	EPA 365.1 Rev. 2.0	Total-P	0.13	Y	mg P/L	P425542	
	SM 5310 B-2011	Organic Carbon	8.5	Y	mg C/L	P425588	

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample expired prior to receipt. Sample received outside of the acceptable temperature range. Please see NCR.

SM 2320 B-2011: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The sample was analyzed out of holding time because of analytical difficulties. Sample received outside of the temperature range.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

SM 5310 B-2011: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: HATCHETT CREEK @ PINEBROOK RD

Collection Date/Time: 01/31/2023 09:55

Field ID: G3SD0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384986	EPA 8270E	Aldrin	0.68	UY	ng/L	P425379	
		Alpha-BHC	0.11	UY	ng/L	P425379	
		Alpha-Chlordane	0.21	UY	ng/L	P425379	
		PCB-1016	2.1	UY	ng/L	P425379	
		Beta-BHC	0.11	UY	ng/L	P425379	
		PCB-1221	2.1	UY	ng/L	P425379	
		Beta-Cyfluthrin	1.3	UY	ng/L	P425379	
		PCB-1232	2.1	UY	ng/L	P425379	
		Bifenthrin	0.53	UY	ng/L	P425379	
		PCB-1242	2.1	UY	ng/L	P425379	
		Carbophenothion	0.95	UY	ng/L	P425379	
		PCB-1248	2.1	UY	ng/L	P425379	
		Chlorothalonil	3.8	UY	ng/L	P425379	
		PCB-1254	2.1	UY	ng/L	P425379	
		Cis-Nonachlor	0.21	UY	ng/L	P425379	
		PCB-1260	2.1	UY	ng/L	P425379	
		Cypermethrin	1.6	UY	ng/L	P425379	
		Dacthal	0.16	UY	ng/L	P425379	
		DDD-p,p'	0.26	UY	ng/L	P425379	
		DDE-p,p'	0.21	UY	ng/L	P425379	
		DDT-p,p'	0.26	UY	ng/L	P425379	
		Delta-BHC	0.42	UY	ng/L	P425379	
		Deltamethrin	1.3	UY	ng/L	P425379	
		Dichlobenil	0.26	UY	ng/L	P425379	
		Dicofol	1.3	UY	ng/L	P425379	
		Dieldrin	0.42	UY	ng/L	P425379	
		Endosulfan I	0.42	UY	ng/L	P425379	
		Endosulfan II	0.42	UY	ng/L	P425379	
		Endosulfan Sulfate	0.32	UY	ng/L	P425379	
		Endrin	0.42	UY	ng/L	P425379	
		Endrin Aldehyde	0.79	UY	ng/L	P425379	
		Endrin Ketone	0.42	UY	ng/L	P425379	
		Esfenvalerate	0.79	UY	ng/L	P425379	
		Ethalfuralin	0.16	UY	ng/L	P425379	
		Fenpropathrin	0.26	UY	ng/L	P425379	
		Gamma-BHC	0.13	UY	ng/L	P425379	
		Gamma-Chlordane	0.21	UY	ng/L	P425379	
		Heptachlor	0.21	UY	ng/L	P425379	
		Heptachlor Epoxide	0.26	UY	ng/L	P425379	
		Hexachlorobenzene**	1.1	UY	ng/L	P425379	
		Kepone	5.3	UY	ng/L	P425379	
		Lambda-Cyhalothrin	0.79	UY	ng/L	P425379	
		Methoprene	0.79	UY	ng/L	P425379	
		Methoxychlor	0.32	UY	ng/L	P425379	

Field ID: G3SD0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384986	EPA 8270E	MGK-264	0.21	UY	ng/L	P425379	
		Mirex	0.37	UY	ng/L	P425379	
		Oxychlordane	0.32	UY	ng/L	P425379	
		Permethrin	1.7	UY	ng/L	P425379	
		Phenothrin	0.95	UY	ng/L	P425379	
		Piperonyl Butoxide	0.16	UY	ng/L	P425379	
		Prallethrin	2.1	UY	ng/L	P425379	
		Tau-Fluvalinate	0.26	UY	ng/L	P425379	
		Tetramethrin	0.79	UY	ng/L	P425379	
		Trans-Nonachlor	0.21	UY	ng/L	P425379	
		Triclosan Methyl	0.16	UY	ng/L	P425379	
		Trifluralin	0.21	UY	ng/L	P425379	
	EPA 8276	Chlordane	2.1	UY	ng/L	P425379	
		Toxaphene	16	UY	ng/L	P425379	

Ref. Method and Comment:
EPA 8270E: Y - Due to improper preservation; see NCR report.
EPA 8276: Y - Due to improper preservation; see NCR report.

Sample Location: Alligator Creek @ Small Stream Inflow

Collection Date/Time: 01/31/2023 10:30

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384985	EPA 8321B	Aldicarb	0.020	UY	ug/L	P425449	
		Aldicarb Sulfone	0.0020	UY	ug/L	P425449	
		Aldicarb Sulfoxide	0.0020	UY	ug/L	P425449	
		Carbaryl	0.0020	UY	ug/L	P425449	
		Carbofuran	0.0020	UY	ug/L	P425449	
		3-Hydroxycarbofuran	0.0020	UY	ug/L	P425449	
		Methiocarb	0.0020	UY	ug/L	P425449	
		Methomyl	0.0020	UY	ug/L	P425449	
		Oxamyl	0.0020	UY	ug/L	P425449	
		Propoxur	0.0020	UY	ug/L	P425449	
2384987	EPA 8270E	Aldrin	0.67	UY	ng/L	P425379	
		Alpha-BHC	0.10	UY	ng/L	P425379	
		Alpha-Chlordane	0.20	UY	ng/L	P425379	
		PCB-1016	2.0	UY	ng/L	P425379	
		Beta-BHC	0.10	UY	ng/L	P425379	
		PCB-1221	2.0	UY	ng/L	P425379	
		Beta-Cyfluthrin	1.3	UY	ng/L	P425379	
		PCB-1232	2.0	UY	ng/L	P425379	
		Bifenthrin	0.51	UY	ng/L	P425379	
		PCB-1242	2.0	UY	ng/L	P425379	
		PCB-1248	2.0	UY	ng/L	P425379	
		Chlorothalonil	3.7	UY	ng/L	P425379	
		PCB-1254	2.0	UY	ng/L	P425379	
		Cis-Nonachlor	0.20	UY	ng/L	P425379	
		PCB-1260	2.0	UY	ng/L	P425379	
		Cypermethrin	1.5	UY	ng/L	P425379	
		Dacthal	0.15	UY	ng/L	P425379	
		DDD-p,p'	0.26	UY	ng/L	P425379	
		DDE-p,p'	0.20	UY	ng/L	P425379	
		DDT-p,p'	0.26	UY	ng/L	P425379	
		Delta-BHC	0.41	UY	ng/L	P425379	
		Deltamethrin	1.3	UY	ng/L	P425379	
		Dichlobenil	0.26	UY	ng/L	P425379	
		Dicofol	1.3	UY	ng/L	P425379	
		Diieldrin	0.41	UY	ng/L	P425379	
		Endosulfan I	0.41	UY	ng/L	P425379	
		Endosulfan II	0.41	UY	ng/L	P425379	
		Endosulfan Sulfate	0.31	UY	ng/L	P425379	
		Endrin	0.41	UY	ng/L	P425379	
		Endrin Aldehyde	0.77	UY	ng/L	P425379	
		Endrin Ketone	0.41	UY	ng/L	P425379	
		Esfenvalerate	0.77	UY	ng/L	P425379	
		Ethalfuralin	0.15	UY	ng/L	P425379	
		Fenpropathrin	0.26	UY	ng/L	P425379	

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384987	EPA 8270E	Gamma-BHC	0.13	UY	ng/L	P425379	
		Gamma-Chlordane	0.20	UY	ng/L	P425379	
		Heptachlor	0.20	UY	ng/L	P425379	
		Heptachlor Epoxide	0.26	UY	ng/L	P425379	
		Hexachlorobenzene**	1.0	UY	ng/L	P425379	
		Kepone	5.1	UY	ng/L	P425379	
		Lambda-Cyhalothrin	0.77	UY	ng/L	P425379	
		Methoprene	0.77	UY	ng/L	P425379	
		Methoxychlor	0.31	UY	ng/L	P425379	
		MGK-264	0.20	UY	ng/L	P425379	
		Mirex	0.36	UY	ng/L	P425379	
		Oxychlordane	0.31	UY	ng/L	P425379	
		Permethrin	1.6	UY	ng/L	P425379	
		Phenothrin	0.92	UY	ng/L	P425379	
		Piperonyl Butoxide	0.44	IY	ng/L	P425379	
		Prallethrin	5.3	IY	ng/L	P425379	
		Tau-Fluvalinate	0.26	UY	ng/L	P425379	
		Tetramethrin	0.77	UY	ng/L	P425379	
		Trans-Nonachlor	0.20	UY	ng/L	P425379	
		Triclosan Methyl	0.15	UY	ng/L	P425379	
		Trifluralin	0.20	UY	ng/L	P425379	
		Chlordane	2.0	UY	ng/L	P425379	
		Toxaphene	15	UY	ng/L	P425379	
2384988	EPA 8270E	Oxybenzone**	9.6	UY	ng/L	P425448	
		Acetochlor	0.24	UY	ng/L	P425448	
		Octinoxate**	33	IYV	ng/L	P425448	
		Alachlor	0.24	UY	ng/L	P425448	
		Avobenzone**	96	UY	ng/L	P425448	
		Ametryn	0.57	UY	ng/L	P425448	
		Atrazine	11	Y	ng/L	P425448	
		PBDE-47**	3.8	UY	ng/L	P425448	
		Atrazine Desethyl	1.4	UY	ng/L	P425448	
		PBDE-99**	4.8	UY	ng/L	P425448	
		Azinphos Methyl	1.9	UYJ	ng/L	P425448	LCS
		Tri-o-cresyl Phosphate**	5.7	UY	ng/L	P425448	
		Azoxystrobin	0.48	UY	ng/L	P425448	
		Bromacil	0.48	UY	ng/L	P425448	
		2-Ethylhexyl	11	UY	ng/L	P425448	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	UY	ng/L	P425448	
		Dechlorane Plus**	29	UY	ng/L	P425448	
		Caffeine**	19	IY	ng/L	P425448	
		Carbophenothion	0.19	UYJ	ng/L	P425448	CCV
		Carfentrazone Ethyl	0.096	UYJ	ng/L	P425448	CCV
		Chlorfenapyr	0.17	UY	ng/L	P425448	

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384988	EPA 8270E	Chlorpyrifos Ethyl	0.24	UY	ng/L	P425448	
		Chlorpyrifos Methyl	0.048	UYJ	ng/L	P425448	RPD
		Coumaphos	0.48	UY	ng/L	P425448	
		Cyanazine	3.1	UY	ng/L	P425448	
		Cyprodinil	0.096	UY	ng/L	P425448	
		Demeton	1.4	UY	ng/L	P425448	
		Diazinon	0.12	UY	ng/L	P425448	
		Difenoconazole	0.57	UYJ	ng/L	P425448	MS
		Dimethenamid	0.096	UY	ng/L	P425448	
		Dimethomorph	0.17	UY	ng/L	P425448	
		Disulfoton	0.78	IY	ng/L	P425448	
		Dithiopyr	0.60	UY	ng/L	P425448	
		EPTC	1.2	UY	ng/L	P425448	
		Ethion	0.14	UY	ng/L	P425448	
		Ethoprop	0.096	UY	ng/L	P425448	
		Etridiazole	0.14	UY	ng/L	P425448	
		Fenamiphos	0.48	UY	ng/L	P425448	
		Fenbuconazole	0.12	UY	ng/L	P425448	
		Fipronil	0.92	IYJ	ng/L	P425448	MS
		Fipronil Desulfinyl**	1.0	Y	ng/L	P425448	
		Fipronil Sulfide	1.5	Y	ng/L	P425448	
		Fipronil Sulfone	4.4	Y	ng/L	P425448	
		Fluazifop-P-butyl	0.096	UY	ng/L	P425448	
		Fludioxonil	0.12	UY	ng/L	P425448	
		Flumioxazin	4.3	UY	ng/L	P425448	
		Flutolanil	1.2	Y	ng/L	P425448	
		Fluxapyroxad	0.096	UYJ	ng/L	P425448	LCS, MS
		Fonofos	0.19	UY	ng/L	P425448	
		Hexazinone	5.9	YJ	ng/L	P425448	MS
		Imazalil	0.72	UY	ng/L	P425448	
		Iprodione	0.57	UYJ	ng/L	P425448	LCS, MS
		Loratadine**	0.33	UY	ng/L	P425448	
		Malathion	0.33	UY	ng/L	P425448	
		Metalaxyl	0.72	UY	ng/L	P425448	
		Metolachlor	0.33	UYJ	ng/L	P425448	MS
		Metribuzin	1.4	UY	ng/L	P425448	
		Mevinphos	1.0	UY	ng/L	P425448	
		Molinate	0.29	UY	ng/L	P425448	
		Myclobutanil	0.34	IY	ng/L	P425448	
		Naled	1.4	UY	ng/L	P425448	
		Napropamide	0.38	UY	ng/L	P425448	
		Norflurazon	0.48	UY	ng/L	P425448	
		Oxadiazon	20	Y	ng/L	P425448	
		Oxyfluorfen	0.14	UY	ng/L	P425448	
		Parathion Ethyl	0.24	UY	ng/L	P425448	

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2384988	EPA 8270E	Parathion Methyl	0.53	UY	ng/L	P425448	
		Pendimethalin	0.96	UY	ng/L	P425448	
		Phenytol**	3.3	UY	ng/L	P425448	
		Phorate	0.50	UY	ng/L	P425448	
		Prodiatamine	0.17	UY	ng/L	P425448	
		Prometon	0.86	UY	ng/L	P425448	
		Prometryn	0.19	UY	ng/L	P425448	
		Pronamide	0.14	UY	ng/L	P425448	
		Propanil	0.12	UY	ng/L	P425448	
		Propargite	1.4	UY	ng/L	P425448	
		Propiconazole	1.9	IY	ng/L	P425448	
		Pyraflufen Ethyl	0.24	UY	ng/L	P425448	
		Pyridaben	0.43	UY	ng/L	P425448	
		Pyriproxyfen	0.12	UY	ng/L	P425448	
		Simazine	1.3	IY	ng/L	P425448	
		Stirophos	0.12	UY	ng/L	P425448	
		Sulfentrazone	23	Y	ng/L	P425448	
		Tebuconazole	0.48	UY	ng/L	P425448	
		Terbufos	0.096	UY	ng/L	P425448	
		Terbutylazine	0.41	UY	ng/L	P425448	
		Thiobencarb	0.57	UY	ng/L	P425448	
		Triadimefon	0.35	IY	ng/L	P425448	

Ref. Method and Comment:

EPA 8321B: Y - Sample was received with inadequate sample preservation; see NCR report.

EPA 8270E: Y - Due to improper preservation; see NCR report.

EPA 8276: Y - Due to improper preservation; see NCR report.

EPA 8270E: Y - Due to improper preservation; see NCR report. V - Due to the presence of octinoxate in both the Method Blank and the sample.

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. Y - Due to improper preservation; see NCR report. Refer to the Lab Analysis Report for an explanation of QC Codes.

Non-Conformance Report

NCR ID: 9737

Event(s)

SO-DIST-2023-02-06-02

Job(s)

Sample(s)

Test(s)

NCR Type: SHIPPING/RECEIVING

NCR Category: Samples arrived late

Observation: Samples arrived late, samples received outside the acceptable temperature range.

Resolution: Samples will be qualified as appropriate.

Authorized by/Date: Kyle Klug 2/24/2023

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425477

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425940

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425748

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425518

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425542

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

Reference Method: EPA 8270E
Batch ID: P425379

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
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425379

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425379

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

Reference Method: EPA 8270E

Batch ID: P425448

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P425448

Component	Result	Code	Units
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
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	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	0.62	U	ng/L
Dithiopyr	0.62	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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425448

Component	Result	Code	Units
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	4.5	U	ng/L
Flumioxazin	4.5	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	0.35	U	ng/L
Loratadine	0.35	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	1.5	U	ng/L
Metribuzin	1.5	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425448

Component	Result	Code	Units
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	28	I	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
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425448

Component	Result	Code	Units
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	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: P425379

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

Reference Method: EPA 8321B

Batch ID: P425449

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: P425570

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

Reference Method: SM 2540 D-2015

Batch ID: P426001

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P425575

Component	Result	Code	Units
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Quality Assurance Report

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Reference Method: SM 4500-F- C-2011
Batch ID: P425575

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P425588

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425477

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425940

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425748

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425518

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425542

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

Reference Method: EPA 8270E
Batch ID: P425379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.7		P	10 - 92.0
Alpha-BHC	89.9		P	75 - 107
Alpha-Chlordane	83.9		P	50 - 108
Beta-BHC	111		P	36 - 138
Beta-Cyfluthrin	77.3		P	20 - 161
Bifenthrin	46.2		P	10 - 119
Carbophenothion	69.6		P	19 - 94.0
Chlorothalonil	116		P	26 - 186
Cis-Nonachlor	67.9		P	42 - 119
Cypermethrin	75.8		P	22 - 150
Dacthal	102		P	72 - 119
DDD-p,p'	89.7		P	45 - 107
DDE-p,p'	82.3		P	48 - 106
DDT-p,p'	68.3		P	48 - 110
Delta-BHC	109		P	54 - 140
Deltamethrin	74.5		P	22 - 189
Dichlobenil	78.2		P	36 - 117
Dicofol	79.9		P	46 - 155
Dieldrin	79.3		P	54 - 110
Endosulfan I	84.6		P	59 - 105
Endosulfan II	82.4		P	51 - 118
Endosulfan Sulfate	114		P	57 - 121

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P425379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	89.2		P	10 - 120
Endrin Aldehyde	86.9		P	34 - 118
Endrin Ketone	105		P	69 - 177
Esfenvalerate	81.3		P	23 - 168
Ethalfuralin	66.8		P	49 - 99.0
Fenpropathrin	62.7		P	34 - 117
Gamma-BHC	97.2		P	72 - 117
Gamma-Chlordane	69.4		P	43 - 106
Heptachlor	66.3		P	41 - 98.0
Heptachlor Epoxide	85.3		P	57 - 106
Hexachlorobenzene	62.2		P	36 - 99.0
Kepone	188		P	16 - 215
Lambda-Cyhalothrin	60.7		P	21 - 177
Methoprene	59.7		P	10 - 119
Methoxychlor	87.0		P	60 - 112
MGK-264	91.1		P	26 - 122
Mirex	58.9		P	10 - 169
Oxychlordane	77.9		P	43 - 105
PCB-1016	71.3		P	48 - 112
PCB-1260	68.5		P	44 - 118
Permethrin	65.3		P	24 - 148
Phenothrin	52.8		P	10 - 106
Piperonyl Butoxide	109		P	10 - 139
Prallethrin	90.5		P	17 - 109
Tau-Fluvalinate	69.3		P	13 - 131
Tetramethrin	89.7		P	10 - 132
Trans-Nonachlor	78.7		P	44 - 106
Triclosan Methyl	84.9		P	59 - 109
Trifluralin	66.0		P	44 - 101

Reference Method: EPA 8270E

Batch ID: P425448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.6		P	42 - 162
Acetochlor	86.1		P	69 - 123
Alachlor	72.8		P	65 - 118
Ametryn	78.9		P	58 - 141
Atrazine	85.8		P	73 - 118
Atrazine Desethyl	72.0		P	32 - 125
Avobenzone	114		P	40 - 203
Azinphos Methyl	209		F	36 - 197
Azoxystrobin	98.0		P	58 - 226
Bromacil	98.1		P	48 - 120
Butylate	54.4		P	27 - 85.0
Caffeine	73.9		P	40 - 137
Carbophenothion	91.3		P	54 - 132
Carfentrazone Ethyl	106		P	60 - 142
Chlorfenapyr	78.1		P	53 - 117
Chlorpyrifos Ethyl	78.4		P	59 - 116
Chlorpyrifos Methyl	82.0		P	66 - 119
Coumaphos	27.1		P	11 - 234

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Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P425448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cyanazine	173		P	61 - 248
Cyprodinil	95.7		P	50 - 147
Dechlorane Plus	94.4		P	47 - 182
Demeton	76.3		P	30 - 138
Diazinon	95.2		P	67 - 126
Difenoconazole	38.0		P	38 - 205
Dimethenamid	75.4		P	57 - 111
Dimethomorph	44.1		P	16 - 212
Disulfoton	103		P	46 - 126
Dithiopyr	67.7		P	62 - 115
EPTC	55.4		P	28 - 80.0
Ethion	88.8		P	24 - 122
Ethoprop	77.8		P	62 - 113
Etridiazole	42.3		P	28 - 92.0
Fenamiphos	110		P	57 - 128
Fenbuconazole	147		P	52 - 155
Fipronil	88.3		P	63 - 130
Fipronil Desulfinyl	97.1		P	61 - 130
Fipronil Sulfide	61.1		P	56 - 117
Fipronil Sulfone	99.8		P	52 - 118
Fluazifop-P-butyl	124		P	61 - 128
Fludioxonil	82.3		P	59 - 129
Flumioxazin	37.8		P	30 - 250
Flutolanil	102		P	53 - 127
Fluxapyroxad	193		F	42 - 132
Fonofos	87.4		P	61 - 110
Hexazinone	102		P	46 - 139
Imazalil	80.6		P	40 - 139
Iprodione	217		F	40 - 146
Loratadine	35.7		P	10 - 224
Malathion	111		P	61 - 135
Metalaxyl	64.6		P	58 - 121
Metolachlor	70.4		P	64 - 118
Metribuzin	87.1		P	45 - 245
Mevinphos	64.8		P	49 - 118
Molinate	60.5		P	42 - 92.0
Myclobutanil	95.6		P	55 - 127
Naled	94.3		P	10 - 114
Napropamide	78.1		P	39 - 121
Norflurazon	90.9		P	55 - 129
Octinoxate	148		P	26 - 166
Oxadiazon	72.4		P	54 - 115
Oxybenzone	72.3		P	49 - 135
Oxyfluorfen	98.8		P	64 - 139
Parathion Ethyl	91.1		P	70 - 111
Parathion Methyl	97.5		P	76 - 136
PBDE-47	83.8		P	41 - 148
PBDE-99	93.0		P	38 - 147
Pendimethalin	76.8		P	52 - 118
Phenytol	18.6		P	10 - 162
Phorate	110		P	40 - 122
Prodiamine	119		P	26 - 141

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P425448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prometon	98.6		P	54 - 122
Prometryn	83.8		P	61 - 128
Pronamide	96.1		P	72 - 121
Propanil	78.9		P	45 - 144
Propargite	19.7		P	10 - 199
Propiconazole	122		P	56 - 127
Pyraflufen Ethyl	105		P	56 - 140
Pyridaben	178		P	26 - 211
Pyriproxyfen	143		P	33 - 194
Simazine	85.1		P	67 - 121
Stiophos	90.5		P	20 - 142
Sulfentrazone	92.6		P	21 - 144
Tebuconazole	15.5		P	10 - 122
Terbufos	95.6		P	60 - 129
Terbuthylazine	80.8		P	69 - 113
Thiobencarb	84.1		P	51 - 120
Tri-o-cresyl Phosphate	82.0		P	49 - 150
Triadimefon	84.1		P	56 - 114

Reference Method: EPA 8276

Batch ID: P425379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	82.5		P	61 - 116
Toxaphene	94.9		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P425449

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	80.2		P	40 - 150
Aldicarb	64.5		P	30 - 150
Aldicarb Sulfone	87.3		P	40 - 150
Aldicarb Sulfoxide	113		P	40 - 150
Carbaryl	68.0		P	40 - 150
Carbofuran	72.9		P	40 - 150
Methiocarb	76.1		P	40 - 150
Methomyl	91.2		P	40 - 150
Oxamyl	96.3		P	40 - 150
Propoxur	84.2		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P425570

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.9		P	94 - 106

Reference Method: SM 2540 D-2015

Batch ID: P426001

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	99.8		P	85 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P425575

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P425588

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425940

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385602	Ammonia-N	99.6	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425748

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384956	Kjeldahl Nitrogen	92.5	97.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425518

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384855	NO2NO3-N	106	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2385263	Total-P	100	103	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P425379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384920	Aldrin	45.7	49.8	P/P	20 - 82.0
2384920	Alpha-BHC	87.8	87.6	P/P	71 - 109
2384920	Alpha-Chlordane	93.2	90.3	P/P	42 - 106
2384920	Beta-BHC	123	112	P/P	69 - 180
2384920	Beta-Cyfluthrin	88.7	84.1	P/P	18 - 175
2384920	Bifenthrin	53.8	60.8	P/P	21 - 128
2384920	Carbophenothion	82.6	83.4	P/P	10 - 126
2384920	Chlorothalonil	112	117	P/P	10 - 300
2384920	Cis-Nonachlor	76.2	71.4	P/P	34 - 106
2384920	Cypermethrin	66.1	69.3	P/P	22 - 158
2384920	Dacthal	90.7	91.1	P/P	54 - 116
2384920	DDD-p,p'	92.2	87.4	P/P	34 - 107
2384920	DDE-p,p'	88.7	87.0	P/P	33 - 110
2384920	DDT-p,p'	60.7	61.6	P/P	50 - 122
2384920	Delta-BHC	110	111	P/P	77 - 193
2384920	Deltamethrin	46.5	77.8	P/P	10 - 195
2384920	Dichlobenil	63.1	63.9	P/P	25 - 113
2384920	Dicofol	75.0	76.1	P/P	38 - 247
2384920	Dieldrin	81.4	79.0	P/P	45 - 118
2384920	Endosulfan I	68.3	75.1	P/P	51 - 106
2384920	Endosulfan II	70.2	75.0	P/P	37 - 122
2384920	Endosulfan Sulfate	121	112	P/P	43 - 132
2384920	Endrin	95.7	90.2	P/P	29 - 101
2384920	Endrin Aldehyde	79.9	75.5	P/P	19 - 110
2384920	Endrin Ketone	102	97.9	P/P	60 - 140
2384920	Esfenvalerate	97.0	101	P/P	26 - 199
2384920	Ethalfuralin	63.2	64.6	P/P	45 - 99.0
2384920	Fenpropathrin	69.5	69.0	P/P	35 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P425379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384920	Gamma-BHC	78.1	83.6	P/P	63 - 128
2384920	Gamma-Chlordane	77.1	76.0	P/P	40 - 104
2384920	Heptachlor	53.9	66.5	P/P	36 - 97.0
2384920	Heptachlor Epoxide	66.8	75.6	P/P	49 - 184
2384920	Hexachlorobenzene	63.7	65.6	P/P	39 - 96.0
2384920	Kepone	130	133	P/P	10 - 217
2384920	Lambda-Cyhalothrin	58.1	68.2	P/P	21 - 193
2384920	Methoprene	74.8	77.9	P/P	20 - 106
2384920	Methoxychlor	88.3	86.5	P/P	53 - 118
2384920	MGK-264	75.8	77.5	P/P	40 - 118
2384920	Mirex	50.5	53.3	P/P	26 - 92.0
2384920	Oxychlordane	64.3	69.3	P/P	44 - 99.0
2384920	Permethrin	73.7	74.1	P/P	33 - 182
2384920	Phenothrin	60.4	58.9	P/P	10 - 129
2384920	Piperonyl Butoxide	111	107	P/P	10 - 211
2384920	Prallethrin	97.8	90.3	P/P	24 - 113
2384920	Tau-Fluvalinate	87.7	92.5	P/P	14 - 149
2384920	Tetramethrin	90.8	90.8	P/P	17 - 151
2384920	Trans-Nonachlor	63.9	75.6	P/P	42 - 102
2384920	Triclosan Methyl	81.5	90.3	P/P	48 - 108
2384920	Trifluralin	59.3	64.3	P/P	47 - 96.0
2384926	PCB-1016	79.5	70.4	P/P	46 - 111
2384926	PCB-1260	73.3	64.8	P/P	45 - 114

Reference Method: EPA 8270E

Batch ID: P425448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384988	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.0	93.4	P/P	26 - 165
2384988	Acetochlor	92.4	81.9	P/P	67 - 124
2384988	Alachlor	77.9	64.8	P/P	60 - 120
2384988	Ametryn	122	123	P/P	54 - 216
2384988	Atrazine Desethyl	71.8	61.6	P/P	15 - 122
2384988	Avobenzone	114	108	P/P	37 - 178
2384988	Azinphos Methyl	185	184	P/P	40 - 292
2384988	Azoxystrobin	121	102	P/P	35 - 220
2384988	Bromacil	124	122	P/P	45 - 127
2384988	Butylate	53.1	46.1	P/P	20 - 83.0
2384988	Caffeine	94.5	96.6	P/P	10 - 194
2384988	Carbophenothion	76.1	67.1	P/P	57 - 127
2384988	Carfentrazone Ethyl	92.7	77.9	P/P	51 - 141
2384988	Chlorfenapyr	66.7	64.3	P/P	46 - 111
2384988	Chlorpyrifos Ethyl	73.6	74.5	P/P	52 - 120
2384988	Chlorpyrifos Methyl	93.3	70.3	P/P	63 - 119
2384988	Coumaphos	34.5	30.6	P/P	10 - 228
2384988	Cyanazine	198	178	P/P	59 - 241
2384988	Cyprodinil	93.5	85.9	P/P	47 - 146
2384988	Dechlorane Plus	101	91.9	P/P	50 - 150
2384988	Demeton	87.5	84.9	P/P	40 - 136
2384988	Diazinon	105	99.5	P/P	69 - 132
2384988	Difenoconazole	59.5	49.2	P/F	57 - 258
2384988	Dimethenamid	75.5	72.2	P/P	54 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P425448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384988	Dimethomorph	52.1	41.1	P/P	28 - 210
2384988	Disulfoton	66.8	65.3	P/P	43 - 133
2384988	Dithiopyr	73.8	63.4	P/P	39 - 116
2384988	EPTC	47.5	39.5	P/P	20 - 78.0
2384988	Ethion	70.8	64.6	P/P	17 - 119
2384988	Ethoprop	89.9	83.2	P/P	66 - 120
2384988	Etridiazole	37.1	35.0	P/P	28 - 96.0
2384988	Fenamiphos	108	116	P/P	41 - 126
2384988	Fenbuconazole	156	168	P/P	42 - 169
2384988	Fipronil	154	141	F/F	61 - 132
2384988	Fipronil Desulfinyl	128	107	P/P	56 - 132
2384988	Fipronil Sulfide	111	116	P/P	48 - 119
2384988	Fluazifop-P-butyl	124	122	P/P	53 - 131
2384988	Fludioxonil	76.0	70.5	P/P	56 - 127
2384988	Flumioxazin	66.1	52.1	P/P	19 - 300
2384988	Flutolanil	126	115	P/P	41 - 127
2384988	Fluxapyroxad	487	457	F/F	42 - 172
2384988	Fonofos	88.8	81.8	P/P	59 - 113
2384988	Hexazinone	79.0	63.5	P/F	66 - 122
2384988	Imazalil	89.1	90.9	P/P	21 - 283
2384988	Iprodione	265	205	F/F	43 - 150
2384988	Loratadine	45.7	36.5	P/P	23 - 201
2384988	Malathion	115	111	P/P	58 - 136
2384988	Metalaxyl	64.3	59.0	P/P	55 - 120
2384988	Metolachlor	54.2	61.5	F/P	57 - 121
2384988	Metribuzin	96.6	89.8	P/P	58 - 294
2384988	Mevinphos	79.3	74.1	P/P	50 - 126
2384988	Molinate	64.8	59.1	P/P	42 - 93.0
2384988	Myclobutanil	85.7	79.6	P/P	55 - 125
2384988	Naled	97.6	96.0	P/P	18 - 200
2384988	Napropamide	76.3	74.0	P/P	39 - 110
2384988	Norflurazon	83.7	81.4	P/P	48 - 128
2384988	Octinoxate	74.8	64.6	P/P	21 - 159
2384988	Oxybenzone	80.9	74.7	P/P	41 - 142
2384988	Oxyfluorfen	95.3	87.4	P/P	64 - 153
2384988	Parathion Ethyl	88.9	81.3	P/P	69 - 114
2384988	Parathion Methyl	111	87.2	P/P	79 - 139
2384988	PBDE-47	82.5	76.9	P/P	27 - 144
2384988	PBDE-99	91.7	84.8	P/P	18 - 150
2384988	Pendimethalin	81.0	70.9	P/P	50 - 139
2384988	Phenytol	22.0	18.2	P/P	10 - 146
2384988	Phorate	99.8	81.5	P/P	54 - 161
2384988	Prodiamine	104	98.2	P/P	30 - 161
2384988	Prometon	107	102	P/P	45 - 134
2384988	Prometryn	94.3	84.8	P/P	45 - 137
2384988	Pronamide	94.9	77.5	P/P	65 - 133
2384988	Propanil	73.7	65.3	P/P	49 - 142
2384988	Propargite	18.8	15.4	P/P	10 - 203
2384988	Propiconazole	98.5	79.0	P/P	38 - 146
2384988	Pyraflufen Ethyl	106	94.6	P/P	34 - 153
2384988	Pyridaben	72.4	66.3	P/P	12 - 192
2384988	Pyriproxyfen	139	142	P/P	33 - 180

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P425448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384988	Simazine	88.4	82.8	P/P	51 - 157
2384988	Stirophos	96.4	91.6	P/P	10 - 128
2384988	Tebuconazole	20.1	15.1	P/P	10 - 133
2384988	Terbufos	114	106	P/P	65 - 139
2384988	Terbutylazine	83.2	76.0	P/P	66 - 117
2384988	Thiobencarb	80.4	76.5	P/P	51 - 119
2384988	Tri-o-cresyl Phosphate	84.9	77.4	P/P	31 - 144
2384988	Triadimefon	93.1	85.4	P/P	48 - 119

Reference Method: EPA 8276

Batch ID: P425379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384926	Chlordane	102	95.1	P/P	53 - 126
2384926	Toxaphene	137	148	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P425449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384985	3-Hydroxycarbofuran	95.8	76.0	P/P	40 - 150
2384985	Aldicarb	60.9	59.5	P/P	30 - 150
2384985	Aldicarb Sulfone	98.7	81.4	P/P	40 - 150
2384985	Aldicarb Sulfoxide	93.5	81.8	P/P	40 - 150
2384985	Carbaryl	72.0	57.9	P/P	40 - 150
2384985	Carbofuran	80.3	69.8	P/P	40 - 150
2384985	Methiocarb	80.1	74.4	P/P	40 - 150
2384985	Methomyl	95.3	86.4	P/P	40 - 150
2384985	Oxamyl	103	90.2	P/P	40 - 150
2384985	Propoxur	73.2	63.2	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P425575

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384889	Fluoride	102	102	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P425588

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384229	Organic Carbon	90.4	89.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425477

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385024	Turbidity	9.82	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425940

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385602	Ammonia-N	0.827	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425748

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384956	Kjeldahl Nitrogen	4.43	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425518

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384855	NO2NO3-N	1.41	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2385263	Total-P	2.36	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P425379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384920	Aldrin	8.64	Spike	P	0 - 41
2384920	Alpha-BHC	0.296	Spike	P	0 - 25
2384920	Alpha-Chlordane	3.20	Spike	P	0 - 33
2384920	Beta-BHC	9.16	Spike	P	0 - 36
2384920	Beta-Cyfluthrin	5.32	Spike	P	0 - 42
2384920	Bifenthrin	12.1	Spike	P	0 - 53
2384920	Carbophenothion	0.923	Spike	P	0 - 49
2384920	Chlorothalonil	3.84	Spike	P	0 - 71
2384920	Cis-Nonachlor	6.55	Spike	P	0 - 29
2384920	Cypermethrin	4.75	Spike	P	0 - 40
2384920	Dacthal	0.462	Spike	P	0 - 26
2384920	DDD-p,p'	5.33	Spike	P	0 - 39
2384920	DDE-p,p'	1.89	Spike	P	0 - 33
2384920	DDT-p,p'	1.36	Spike	P	0 - 40
2384920	Delta-BHC	0.960	Spike	P	0 - 37
2384920	Deltamethrin	50.4	Spike	P	0 - 100

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P425379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384920	Dichlobenil	1.27	Spike	P	0 - 40
2384920	Dicofol	1.51	Spike	P	0 - 31
2384920	Dieldrin	2.95	Spike	P	0 - 27
2384920	Endosulfan I	9.46	Spike	P	0 - 23
2384920	Endosulfan II	6.61	Spike	P	0 - 28
2384920	Endosulfan Sulfate	7.35	Spike	P	0 - 38
2384920	Endrin	6.00	Spike	P	0 - 63
2384920	Endrin Aldehyde	5.68	Spike	P	0 - 60
2384920	Endrin Ketone	4.45	Spike	P	0 - 37
2384920	Esfenvalerate	4.52	Spike	P	0 - 52
2384920	Ethalfuralin	2.28	Spike	P	0 - 23
2384920	Fenpropathrin	0.618	Spike	P	0 - 32
2384920	Gamma-BHC	6.90	Spike	P	0 - 17
2384920	Gamma-Chlordane	1.47	Spike	P	0 - 40
2384920	Heptachlor	20.9	Spike	P	0 - 29
2384920	Heptachlor Epoxide	12.3	Spike	P	0 - 25
2384920	Hexachlorobenzene	2.88	Spike	P	0 - 36
2384920	Kepone	2.07	Spike	P	0 - 93
2384920	Lambda-Cyhalothrin	16.0	Spike	P	0 - 55
2384920	Methoprene	4.08	Spike	P	0 - 53
2384920	Methoxychlor	2.01	Spike	P	0 - 29
2384920	MGK-264	2.32	Spike	P	0 - 35
2384920	Mirex	5.42	Spike	P	0 - 46
2384920	Oxychlordane	7.42	Spike	P	0 - 29
2384920	Permethrin	0.533	Spike	P	0 - 44
2384920	Phenothrin	2.45	Spike	P	0 - 56
2384920	Piperonyl Butoxide	3.61	Spike	P	0 - 100
2384920	Prallethrin	8.02	Spike	P	0 - 42
2384920	Tau-Fluvalinate	5.34	Spike	P	0 - 54
2384920	Tetramethrin	0.0452	Spike	P	0 - 51
2384920	Trans-Nonachlor	16.9	Spike	P	0 - 37
2384920	Triclosan Methyl	10.3	Spike	P	0 - 31
2384920	Trifluralin	8.13	Spike	P	0 - 30
2384926	PCB-1016	12.2	Spike	P	0 - 32
2384926	PCB-1260	12.2	Spike	P	0 - 31

Reference Method: EPA 8270E

Batch ID: P425448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384988	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	4.81	Spike	P	0 - 37
2384988	Acetochlor	12.0	Spike	P	0 - 28
2384988	Alachlor	18.4	Spike	P	0 - 30
2384988	Ametryn	0.776	Spike	P	0 - 32
2384988	Atrazine	17.9	Spike	P	0 - 41
2384988	Atrazine Desethyl	15.3	Spike	P	0 - 36
2384988	Avobenzene	5.77	Spike	P	0 - 36
2384988	Azinphos Methyl	0.582	Spike	P	0 - 75
2384988	Azoxystrobin	17.3	Spike	P	0 - 39
2384988	Bromacil	1.72	Spike	P	0 - 33

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P425448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384988	Butylate	14.1	Spike	P	0 - 44
2384988	Caffeine	2.06	Spike	P	0 - 74
2384988	Carbophenothion	12.6	Spike	P	0 - 25
2384988	Carfentrazone Ethyl	17.3	Spike	P	0 - 27
2384988	Chlorfenapyr	3.69	Spike	P	0 - 24
2384988	Chlorpyrifos Ethyl	1.25	Spike	P	0 - 26
2384988	Chlorpyrifos Methyl	28.0	Spike	F	0 - 26
2384988	Coumaphos	11.8	Spike	P	0 - 28
2384988	Cyanazine	10.5	Spike	P	0 - 48
2384988	Cyprodinil	8.42	Spike	P	0 - 29
2384988	Dechlorane Plus	9.62	Spike	P	0 - 30
2384988	Demeton	3.07	Spike	P	0 - 33
2384988	Diazinon	5.52	Spike	P	0 - 29
2384988	Difenoconazole	19.0	Spike	P	0 - 34
2384988	Dimethenamid	4.49	Spike	P	0 - 39
2384988	Dimethomorph	23.6	Spike	P	0 - 51
2384988	Disulfoton	1.40	Spike	P	0 - 30
2384988	Dithiopyr	15.2	Spike	P	0 - 26
2384988	EPTC	18.5	Spike	P	0 - 43
2384988	Ethion	9.16	Spike	P	0 - 79
2384988	Ethoprop	7.75	Spike	P	0 - 29
2384988	Etridiazole	5.84	Spike	P	0 - 33
2384988	Fenamiphos	6.98	Spike	P	0 - 40
2384988	Fenbuconazole	7.03	Spike	P	0 - 74
2384988	Fipronil	7.79	Spike	P	0 - 29
2384988	Fipronil Desulfinyl	13.9	Spike	P	0 - 32
2384988	Fipronil Sulfide	2.91	Spike	P	0 - 30
2384988	Fipronil Sulfone	3.36	Spike	P	0 - 33
2384988	Fluazifop-P-butyl	1.41	Spike	P	0 - 38
2384988	Fludioxonil	7.48	Spike	P	0 - 29
2384988	Flumioxazin	23.7	Spike	P	0 - 51
2384988	Flutolanil	7.14	Spike	P	0 - 25
2384988	Fluxapyroxad	6.35	Spike	P	0 - 45
2384988	Fonofos	8.21	Spike	P	0 - 27
2384988	Hexazinone	12.6	Spike	P	0 - 30
2384988	Imazalil	1.97	Spike	P	0 - 100
2384988	Iprodione	25.3	Spike	P	0 - 33
2384988	Loratadine	22.4	Spike	P	0 - 56
2384988	Malathion	3.63	Spike	P	0 - 37
2384988	Metalaxyl	8.55	Spike	P	0 - 40
2384988	Metolachlor	12.7	Spike	P	0 - 29
2384988	Metribuzin	7.29	Spike	P	0 - 45
2384988	Mevinphos	6.76	Spike	P	0 - 29
2384988	Molinate	9.14	Spike	P	0 - 33
2384988	Myclobutanil	6.65	Spike	P	0 - 26
2384988	Naled	1.64	Spike	P	0 - 37
2384988	Napropamide	3.01	Spike	P	0 - 44
2384988	Norflurazon	2.86	Spike	P	0 - 30
2384988	Octinoxate	9.68	Spike	P	0 - 45
2384988	Oxadiazon	5.70	Spike	P	0 - 28
2384988	Oxybenzone	7.92	Spike	P	0 - 46

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P425448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384988	Oxyfluorfen	8.64	Spike	P	0 - 28
2384988	Parathion Ethyl	8.90	Spike	P	0 - 31
2384988	Parathion Methyl	23.7	Spike	P	0 - 29
2384988	PBDE-47	7.05	Spike	P	0 - 36
2384988	PBDE-99	7.72	Spike	P	0 - 40
2384988	Pendimethalin	13.3	Spike	P	0 - 33
2384988	Phenytoin	19.0	Spike	P	0 - 100
2384988	Phorate	20.2	Spike	P	0 - 36
2384988	Prodiamine	5.61	Spike	P	0 - 71
2384988	Prometon	4.57	Spike	P	0 - 36
2384988	Prometryn	10.6	Spike	P	0 - 28
2384988	Pronamide	20.1	Spike	P	0 - 24
2384988	Propanil	12.1	Spike	P	0 - 28
2384988	Propargite	20.1	Spike	P	0 - 43
2384988	Propiconazole	14.1	Spike	P	0 - 33
2384988	Pyraflufen Ethyl	11.4	Spike	P	0 - 29
2384988	Pyridaben	8.86	Spike	P	0 - 30
2384988	Pyriproxyfen	1.95	Spike	P	0 - 79
2384988	Simazine	4.69	Spike	P	0 - 29
2384988	Stirophos	5.09	Spike	P	0 - 61
2384988	Sulfentrazone	5.23	Spike	P	0 - 33
2384988	Tebuconazole	28.5	Spike	P	0 - 69
2384988	Terbufos	7.57	Spike	P	0 - 29
2384988	Terbuthylazine	8.95	Spike	P	0 - 32
2384988	Thiobencarb	4.93	Spike	P	0 - 26
2384988	Tri-o-cresyl Phosphate	9.19	Spike	P	0 - 33
2384988	Triadimefon	7.21	Spike	P	0 - 28

Reference Method: EPA 8276

Batch ID: P425379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384926	Chlordane	6.93	Spike	P	0 - 25
2384926	Toxaphene	7.98	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P425449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384985	3-Hydroxycarbofuran	23.1	Spike	P	0 - 30
2384985	Aldicarb	2.43	Spike	P	0 - 30
2384985	Aldicarb Sulfone	19.2	Spike	P	0 - 30
2384985	Aldicarb Sulfoxide	13.4	Spike	P	0 - 30
2384985	Carbaryl	21.8	Spike	P	0 - 30
2384985	Carbofuran	14.0	Spike	P	0 - 30
2384985	Methiocarb	7.36	Spike	P	0 - 30
2384985	Methomyl	9.85	Spike	P	0 - 30
2384985	Oxamyl	13.7	Spike	P	0 - 30
2384985	Propoxur	14.6	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P425570

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384889	Total Alkalinity	0.342	Sample	P	0 - 3.8

Reference Method: SM 4500-F- C-2011
Batch ID: P425575

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384889	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P425588

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384229	Organic Carbon	1.13	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2384985
Field Sample ID: G2SD0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	42.4	P	30 - 160

Lab Sample ID: 2384986
Field Sample ID: G3SD0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	80.9	P	29 - 130
EPA 8270E	Decachlorobiphenyl	77.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	64.0	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	58.5	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	56.7	P	30 - 101
EPA 8276	PCNB	81.0	P	48 - 121

Lab Sample ID: 2384987
Field Sample ID: G2SD0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	94.5	P	29 - 130
EPA 8270E	Decachlorobiphenyl	90.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	80.3	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	72.8	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	73.0	P	30 - 101
EPA 8276	PCNB	102	P	48 - 121

Lab Sample ID: 2384988
Field Sample ID: G2SD0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	103	P	20 - 200
EPA 8270E	Simazine-d10	79.0	P	62 - 142
EPA 8270E	Terbufos-d10	96.9	P	58 - 132
EPA 8270E	Terphenyl-d14	99.4	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117299

Included Lab Sample IDs: 2384980

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117314

Included Lab Sample IDs: 2384981

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

Reference Method: EPA 8270E

Run ID: A117335

Included Lab Sample IDs: 2384986, 2384987

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.7		P	80 - 120
PCB-1260	99.8		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A117337

Included Lab Sample IDs: 2384980

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.8	99.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A117337

Included Lab Sample IDs: 2384980

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	102	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A117348

Included Lab Sample IDs: 2384981

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.2	93.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117350

Included Lab Sample IDs: 2384981

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

Reference Method: EPA 8270E

Run ID: A117372

Included Lab Sample IDs: 2384986, 2384987

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

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E

Run ID: A117372

Included Lab Sample IDs: 2384986, 2384987

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-BHC	96.9		P	80 - 120
Alpha-Chlordane	96.4		P	80 - 120
Beta-BHC	90.7		P	80 - 120
Beta-Cyfluthrin	92.2		P	80 - 120
Bifenthrin	101		P	80 - 120
Carbophenothion	108		P	80 - 120
Chlorothalonil	83.3		P	80 - 120
Cis-Nonachlor	106		P	80 - 120
Cypermethrin	96.8		P	80 - 120
Dacthal	108		P	80 - 120
DDD-p,p'	94.7		P	80 - 120
DDE-p,p'	98.1		P	80 - 120
DDT-p,p'	98.7		P	80 - 120
Delta-BHC	85.0		P	80 - 120
Deltamethrin	87.9		P	80 - 120
Dichlobenil	91.0		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	108		P	80 - 120
Endosulfan I	96.6		P	80 - 120
Endosulfan II	92.4		P	80 - 120
Endosulfan Sulfate	99.6		P	80 - 120
Endrin	99.1		P	80 - 120
Endrin Aldehyde	103		P	80 - 120
Endrin Ketone	108		P	80 - 120
Esfenvalerate	87.2		P	80 - 120
Ethalfuralin	96.9		P	80 - 120
Fenpropathrin	102		P	80 - 120
Gamma-BHC	99.1		P	80 - 120
Gamma-Chlordane	103		P	80 - 120
Heptachlor	104		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	98.3		P	80 - 120
Kepone	84.8		P	80 - 120
Lambda-Cyhalothrin	100		P	80 - 120
Methoprene	91.5		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	93.6		P	80 - 120
Mirex	98.5		P	80 - 120
Oxychlordane	104		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	119		P	80 - 120
Piperonyl Butoxide	89.1		P	80 - 120
Prallethrin	89.4		P	80 - 120
Tau-Fluvalinate	92.0		P	80 - 120
Tetramethrin	85.8		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	116		P	80 - 120
Trifluralin	94.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A117378

Included Lab Sample IDs: 2384986, 2384987

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Chlordane	103		P	80 - 120
Toxaphene	105		P	80 - 120
Toxaphene	113		P	80 - 120

Reference Method: EPA 8321B

Run ID: A117383

Included Lab Sample IDs: 2384985

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	98.4	102	P/P	60 - 150
Aldicarb	96.3	94.0	P/P	60 - 150
Aldicarb Sulfone	107	108	P/P	50 - 150
Aldicarb Sulfoxide	112	111	P/P	50 - 150
Carbaryl	108	118	P/P	60 - 150
Carbofuran	113	101	P/P	50 - 150
Methiocarb	123	116	P/P	50 - 150
Methomyl	109	107	P/P	50 - 150
Oxamyl	112	112	P/P	50 - 150
Propoxur	116	113	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A117398

Included Lab Sample IDs: 2384988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	100		P	80 - 120
Alachlor	95.6		P	80 - 120
Ametryn	91.6		P	80 - 120
Atrazine Desethyl	88.2		P	80 - 120
Azinphos Methyl	97.2		P	80 - 120
Azoxystrobin	97.4		P	80 - 120
Bromacil	100		P	80 - 120
Butylate	99.9		P	80 - 120
Caffeine	99.4		P	80 - 120
Carbophenothion	49.8*		F	80 - 120
Carfentrazone Ethyl	51.4*		F	80 - 120
Chlorfenapyr	87.5		P	80 - 120
Chlorpyrifos Ethyl	97.2		P	80 - 120
Chlorpyrifos Methyl	90.4		P	80 - 120
Coumaphos	80.5		P	80 - 120
Cyanazine	114		P	80 - 120
Cyprodinil	117		P	80 - 120
Demeton	93.5		P	80 - 120
Diazinon	94.4		P	80 - 120
Difenoconazole	107		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	95.2		P	80 - 120
Disulfoton	93.1		P	80 - 120
Dithiopyr	84.5		P	80 - 120
EPTC	92.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A117398
 Included Lab Sample IDs: 2384988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethion	94.3		P	80 - 120
Ethoprop	97.8		P	80 - 120
Etridiazole	82.2		P	80 - 120
Fenamiphos	98.5		P	80 - 120
Fenbuconazole	103		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	86.7		P	80 - 120
Fipronil Sulfide	94.0		P	80 - 120
Fipronil Sulfone	86.2		P	80 - 120
Fluazifop-P-butyl	83.2		P	80 - 120
Fludioxonil	88.3		P	80 - 120
Flumioxazin	98.4		P	80 - 120
Fluxapyroxad	95.5		P	80 - 120
Fonofos	95.6		P	80 - 120
Imazalil	92.2		P	80 - 120
Iprodione	81.6		P	80 - 120
Loratadine	107		P	80 - 120
Malathion	80.2		P	80 - 120
Metalaxyl	87.4		P	80 - 120
Metolachlor	114		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	87.6		P	80 - 120
Molinate	96.7		P	80 - 120
Myclobutanil	97.3		P	80 - 120
Naled	90.2		P	80 - 120
Napropamide	94.5		P	80 - 120
Norflurazon	97.3		P	80 - 120
Oxyfluorfen	92.8		P	80 - 120
Parathion Ethyl	95.3		P	80 - 120
Parathion Methyl	91.5		P	80 - 120
Pendimethalin	95.5		P	80 - 120
Phenytoin	101		P	80 - 120
Phorate	94.5		P	80 - 120
Prodiamine	91.9		P	80 - 120
Prometon	110		P	80 - 120
Prometryn	96.4		P	80 - 120
Pronamide	96.0		P	80 - 120
Propanil	91.4		P	80 - 120
Propargite	92.7		P	80 - 120
Propiconazole	89.1		P	80 - 120
Pyraflufen Ethyl	88.2		P	80 - 120
Pyriproxyfen	98.8		P	80 - 120
Simazine	105		P	80 - 120
Stirophos	85.7		P	80 - 120
Tebuconazole	96.6		P	80 - 120
Terbufos	99.4		P	80 - 120
Terbuthylazine	95.4		P	80 - 120
Thiobencarb	100		P	80 - 120
Triadimefon	116		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117419
Included Lab Sample IDs: 2384988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.5		P	80 - 120
Avobenzene	97.4		P	80 - 120
Dechlorane Plus	94.5		P	80 - 120
Octinoxate	91.2		P	80 - 120
Oxybenzone	94.2		P	80 - 120
PBDE-47	92.2		P	80 - 120
PBDE-99	96.5		P	80 - 120
Tri-o-cresyl Phosphate	91.4		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117477
Included Lab Sample IDs: 2384988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	103		P	80 - 120
Flutolanil	89.9		P	80 - 120
Hexazinone	102		P	80 - 120
Oxadiazon	103		P	80 - 120
Pyridaben	86.1		P	80 - 120
Sulfentrazone	94.8		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A117479
Included Lab Sample IDs: 2384981

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.8	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A117550
Included Lab Sample IDs: 2384981

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.5	94.3	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity	101				9.82	
EPA 350.1 Rev. 2.0	Ammonia-N	99.8	99.6	101			0.827
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	92.5	97.4			4.43
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	106	108			1.41
EPA 365.1 Rev. 2.0	Total-P	105	100	103			2.36
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.6	98.0	93.4			4.81
	Acetochlor	86.1	92.4	81.9			12.0
	Alachlor	72.8	77.9	64.8			18.4
	Aldrin	49.7	45.7	49.8			8.64
	Alpha-BHC	89.9	87.8	87.6			0.296
	Alpha-Chlordane	83.9	93.2	90.3			3.20
	Ametryn	78.9	122	123			0.776
	Atrazine	85.8					17.9
	Atrazine Desethyl	72.0	71.8	61.6			15.3
	Avobenzone	114	108	114			5.77
	Azinphos Methyl	209	185	184			0.582
	Azoxystrobin	98.0	121	102			17.3
	Beta-BHC	111	123	112			9.16
	Beta-Cyfluthrin	77.3	88.7	84.1			5.32
	Bifenthrin	46.2	53.8	60.8			12.1
	Bromacil	98.1	124	122			1.72
	Butylate	54.4	53.1	46.1			14.1
	Caffeine	73.9	94.5	96.6			2.06
	Carbophenothion	69.6	82.6	83.4			0.923
	Carbophenothion	91.3	76.1	67.1			12.6
	Carfentrazone Ethyl	106	92.7	77.9			17.3
	Chlorfenapyr	78.1	66.7	64.3			3.69
	Chlorothalonil	116	112	117			3.84
	Chlorpyrifos Ethyl	78.4	73.6	74.5			1.25
	Chlorpyrifos Methyl	82.0	93.3	70.3			28.0
	Cis-Nonachlor	67.9	76.2	71.4			6.55
	Coumaphos	27.1	34.5	30.6			11.8
	Cyanazine	173	198	178			10.5
	Cypermethrin	75.8	66.1	69.3			4.75
	Cyprodinil	95.7	93.5	85.9			8.42
	Dacthal	102	90.7	91.1			0.462
	DDD-p,p'	89.7	92.2	87.4			5.33
	DDE-p,p'	82.3	88.7	87.0			1.89
	DDT-p,p'	68.3	60.7	61.6			1.36
	Dechlorane Plus	94.4	101	91.9			9.62
	Delta-BHC	109	110	111			0.960
	Deltamethrin	74.5	46.5	77.8			50.4
	Demeton	76.3	87.5	84.9			3.07
	Diazinon	95.2	105	99.5			5.52
	Dichlobenil	78.2	63.1	63.9			1.27
	Dicofol	79.9	75.0	76.1			1.51
	Dieldrin	79.3	81.4	79.0			2.95
	Difenoconazole	38.0	59.5	49.2			19.0
	Dimethenamid	75.4	75.5	72.2			4.49
	Dimethomorph	44.1	52.1	41.1			23.6
	Disulfoton	103	66.8	65.3			1.40
	Dithiopyr	67.7	73.8	63.4			15.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Endosulfan I	84.6	68.3	75.1			9.46
	Endosulfan II	82.4	70.2	75.0			6.61
	Endosulfan Sulfate	114	121	112			7.35
	Endrin	89.2	95.7	90.2			6.00
	Endrin Aldehyde	86.9	79.9	75.5			5.68
	Endrin Ketone	105	102	97.9			4.45
	EPTC	55.4	47.5	39.5			18.5
	Esfenvalerate	81.3	97.0	101			4.52
	Ethalfuralin	66.8	63.2	64.6			2.28
	Ethion	88.8	70.8	64.6			9.16
	Ethoprop	77.8	89.9	83.2			7.75
	Etridiazole	42.3	37.1	35.0			5.84
	Fenamiphos	110	108	116			6.98
	Fenbuconazole	147	156	168			7.03
	Fenpropathrin	62.7	69.5	69.0			0.618
	Fipronil	88.3	154	141			7.79
	Fipronil Desulfinyl	97.1	128	107			13.9
	Fipronil Sulfide	61.1	111	116			2.91
	Fipronil Sulfone	99.8					3.36
	Fluazifop-P-butyl	124	124	122			1.41
	Fludioxonil	82.3	76.0	70.5			7.48
	Flumioxazin	37.8	66.1	52.1			23.7
	Flutolanil	102	115	126			7.14
	Fluxapyroxad	193	487	457			6.35
	Fonofos	87.4	88.8	81.8			8.21
	Gamma-BHC	97.2	78.1	83.6			6.90
	Gamma-Chlordane	69.4	77.1	76.0			1.47
	Heptachlor	66.3	53.9	66.5			20.9
	Heptachlor Epoxide	85.3	66.8	75.6			12.3
	Hexachlorobenzene	62.2	63.7	65.6			2.88
	Hexazinone	102	79.0	63.5			12.6
	Imazalil	80.6	89.1	90.9			1.97
	Iprodione	217	265	205			25.3
	Kepone	188	130	133			2.07
	Lambda-Cyhalothrin	60.7	58.1	68.2			16.0
	Loratadine	35.7	45.7	36.5			22.4
	Malathion	111	115	111			3.63
	Metalaxyl	64.6	64.3	59.0			8.55
	Methoprene	59.7	74.8	77.9			4.08
	Methoxychlor	87.0	88.3	86.5			2.01
	Metolachlor	70.4	54.2	61.5			12.7
	Metribuzin	87.1	96.6	89.8			7.29
	Mevinphos	64.8	79.3	74.1			6.76
	MGK-264	91.1	75.8	77.5			2.32
	Mirex	58.9	50.5	53.3			5.42
	Molinate	60.5	64.8	59.1			9.14
	Myclobutanil	95.6	85.7	79.6			6.65
	Naled	94.3	97.6	96.0			1.64
	Napropamide	78.1	76.3	74.0			3.01
	Norflurazon	90.9	83.7	81.4			2.86
	Octinoxate	148	64.6	74.8			9.68
	Oxadiazon	72.4					5.70
	Oxybenzone	72.3	74.7	80.9			7.92
	Oxychlordane	77.9	64.3	69.3			7.42

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Oxyfluorfen	98.8	95.3	87.4			8.64
	Parathion Ethyl	91.1	88.9	81.3			8.90
	Parathion Methyl	97.5	111	87.2			23.7
	PBDE-47	83.8	82.5	76.9			7.05
	PBDE-99	93.0	91.7	84.8			7.72
	PCB-1016	71.3	79.5	70.4			12.2
	PCB-1260	68.5	73.3	64.8			12.2
	Pendimethalin	76.8	81.0	70.9			13.3
	Permethrin	65.3	73.7	74.1			0.533
	Phenothrin	52.8	60.4	58.9			2.45
	Phenytain	18.6	22.0	18.2			19.0
	Phorate	110	99.8	81.5			20.2
	Piperonyl Butoxide	109	111	107			3.61
	Prallethrin	90.5	97.8	90.3			8.02
	Prodiamine	119	104	98.2			5.61
	Prometon	98.6	107	102			4.57
	Prometryn	83.8	94.3	84.8			10.6
	Pronamide	96.1	94.9	77.5			20.1
	Propanil	78.9	73.7	65.3			12.1
	Propargite	19.7	18.8	15.4			20.1
	Propiconazole	122	98.5	79.0			14.1
	Pyraflufen Ethyl	105	106	94.6			11.4
	Pyridaben	178	72.4	66.3			8.86
	Pyriproxyfen	143	139	142			1.95
	Simazine	85.1	88.4	82.8			4.69
	Stirophos	90.5	96.4	91.6			5.09
	Sulfentrazone	92.6					5.23
	Tau-Fluvalinate	69.3	87.7	92.5			5.34
	Tebuconazole	15.5	20.1	15.1			28.5
	Terbufos	95.6	114	106			7.57
	Terbuthylazine	80.8	83.2	76.0			8.95
	Tetramethrin	89.7	90.8	90.8			0.0452
	Thiobencarb	84.1	80.4	76.5			4.93
	Trans-Nonachlor	78.7	63.9	75.6			16.9
	Tri-o-cresyl Phosphate	82.0	84.9	77.4			9.19
	Triadimefon	84.1	93.1	85.4			7.21
	Triclosan Methyl	84.9	81.5	90.3			10.3
	Trifluralin	66.0	59.3	64.3			8.13
EPA 8276	Chlordane	82.5	102	95.1			6.93
	Toxaphene	94.9	137	148			7.98
EPA 8321B	3-Hydroxycarbofuran	80.2	76.0	95.8			23.1
	Aldicarb	64.5	59.5	60.9			2.43
	Aldicarb Sulfone	87.3	81.4	98.7			19.2
	Aldicarb Sulfoxide	113	81.8	93.5			13.4
	Carbaryl	68.0	57.9	72.0			21.8
	Carbofuran	72.9	69.8	80.3			14.0
	Methiocarb	76.1	80.1	74.4			7.36
	Methomyl	91.2	86.4	95.3			9.85
	Oxamyl	96.3	90.2	103			13.7
	Propoxur	84.2	63.2	73.2			14.6
SM 2320 B-2011	Total Alkalinity	96.9				0.342	
SM 2540 D-2015	TSS	99.8					
SM 4500-F- C-2011	Fluoride	101	102	102			0.0
SM 5310 B-2011	Organic Carbon	93.0	90.4	89.0			1.13

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2384980
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2384981
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2384981
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2384981
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2384981
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2384988
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2384986, 2384987
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2384988
EPA 8270E	PCBs in water matrices by GC/MS/MS	2384986, 2384987
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2384986, 2384987
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2384985
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2384980
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2384980
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2384980
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2384981

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	02/06/2023			02/07/2023 13:26	Anna M. Plaviak	2384980
EPA 350.1 Rev. 2.0	02/06/2023			02/16/2023 11:26	Ping Hua	2384981
EPA 351.2 Rev. 2.0	02/06/2023	02/14/2023 13:15	Simonne.V. Calhoun	02/20/2023 14:42	Samantha L Bates	2384981
EPA 353.2 Rev. 2.0	02/06/2023			02/08/2023 10:37	Beverly Y. Sanders	2384981
EPA 365.1 Rev. 2.0	02/06/2023	02/08/2023 16:06	Adam P Silver	02/09/2023 11:06	Simonne.V. Calhoun	2384981
EPA 8270E	02/06/2023	02/07/2023 08:00	Fe-Val Siddell	02/08/2023 22:18	Vandana T. Nagar	2384986
	02/06/2023	02/07/2023 08:00	Fe-Val Siddell	02/08/2023 22:48	Vandana T. Nagar	2384987
	02/06/2023	02/07/2023 08:00	Fe-Val Siddell	02/10/2023 03:45	Julie Wi	2384986
	02/06/2023	02/07/2023 08:00	Fe-Val Siddell	02/10/2023 04:15	Julie Wi	2384987
	02/06/2023	02/07/2023 08:00	Rasheda Ghaffari	02/09/2023 17:15	Michael Poppell	2384988
	02/06/2023	02/07/2023 08:00	Rasheda Ghaffari	02/13/2023 17:22	Arthur Maknenko	2384988
	02/06/2023	02/07/2023 08:00	Rasheda Ghaffari	02/16/2023 04:12	Michael Poppell	2384988
EPA 8276	02/06/2023	02/07/2023 08:00	Fe-Val Siddell	02/10/2023 08:16	Lipi Saha	2384986
	02/06/2023	02/07/2023 08:00	Fe-Val Siddell	02/10/2023 10:07	Lipi Saha	2384987
EPA 8321B	02/06/2023	02/07/2023 10:00	June Rhew	02/09/2023 04:47	Juyoung Kim	2384985
SM 2320 B-2011	02/06/2023			02/09/2023 06:35	Dale L. Simmons	2384980
SM 2540 D-2015	02/06/2023			02/08/2023 14:40	Yijie Li	2384980
SM 4500-F- C-2011	02/06/2023			02/09/2023 03:59	Dale L. Simmons	2384980
SM 5310 B-2011	02/06/2023			02/09/2023 05:10	Elise M. Gillis	2384981