

Chemical Analysis Report

CEN-DIST-2021-11-19-02

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

Event Description: **Dead River**
Request ID: **RQ-2021-10-04-16**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matt Bearden

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

Certified by: Liang Lin, Environmental Administrator

Date Certified: 13-DEC-2021 14:44

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

Case Narrative

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

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Dead River @ 1250m North of Lake Hatchineha Collection Date/Time: 11/18/2021 10:00

Field ID: G4CE0167

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2290791	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P406604	
	EPA 300.0 Rev. 2.1	Chloride	34		mg Cl/L	P407153	
		Sulfate	2.1		mg SO4/L	P407156	
	SM 2120 B-2011	Color (true)	500		PCU	P406601	
	SM 2320 B-2011	Total Alkalinity	26		mg CaCO3/L	P406782	
	SM 2540 C-2011	TDS	196	A	mg/L	P406958	
	SM 2540 D-2011	TSS	2	IA	mg/L	P406929	
	SM 4500 F-C-2011	Fluoride	0.079	I	mg F/L	P406785	
2290792	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P406852	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P406866	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P406645	
	EPA 365.1 Rev. 2.0	Total-P	0.033		mg P/L	P406641	
	SM 5310 B-2011	Organic Carbon	50		mg C/L	P407059	
2290793	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.01	I	mg P/L	P406586	
2290796	EPA 8270E	Aldrin	0.69	U	ng/L	P406573	
		Alpha-BHC	0.11	U	ng/L	P406573	
		Alpha-Chlordane	0.21	U	ng/L	P406573	
		Beta-BHC	0.11	U	ng/L	P406573	
		Beta-Cyfluthrin**	1.3	U	ng/L	P406573	
		Bifenthrin**	0.53	U	ng/L	P406573	
		Chlorothalonil	1.1	I	ng/L	P406573	
		Cis-Nonachlor**	0.21	U	ng/L	P406573	
		Cypermethrin	1.6	U	ng/L	P406573	
		Dacthal**	0.16	U	ng/L	P406573	
		DDD-p,p'	0.26	U	ng/L	P406573	
		DDE-p,p'	0.21	U	ng/L	P406573	
		DDT-p,p'	0.26	U	ng/L	P406573	
		Delta-BHC	0.42	U	ng/L	P406573	
		Deltamethrin**	1.3	U	ng/L	P406573	
		Dichlobenil**	0.11	U	ng/L	P406573	
		Dicofol	1.3	U	ng/L	P406573	
		Dieldrin	0.42	U	ng/L	P406573	
		Endosulfan I	0.42	U	ng/L	P406573	
		Endosulfan II	0.42	U	ng/L	P406573	
		Endosulfan Sulfate	0.32	U	ng/L	P406573	
		Endrin	0.42	U	ng/L	P406573	
		Endrin Aldehyde	0.79	U	ng/L	P406573	
		Endrin Ketone	0.42	U	ng/L	P406573	
		Esfenvalerate**	0.79	UJ	ng/L	P406573	RPD
		Ethalfuralin**	0.16	U	ng/L	P406573	
		Fenpropathrin**	0.26	U	ng/L	P406573	
		Gamma-BHC	0.13	U	ng/L	P406573	
		Gamma-Chlordane	0.21	U	ng/L	P406573	

Field ID: G4CE0167

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2290796	EPA 8270E	Heptachlor	0.21	U	ng/L	P406573	
		Heptachlor Epoxide	0.26	U	ng/L	P406573	
		Hexachlorobenzene	1.1	U	ng/L	P406573	
		Kepone**	5.3	U	ng/L	P406573	
		Lambda-Cyhalothrin**	0.79	U	ng/L	P406573	
		Methoprene**	0.79	U	ng/L	P406573	
		Methoxychlor	0.32	U	ng/L	P406573	
		MGK-264**	0.21	U	ng/L	P406573	
		Mirex	0.74	U	ng/L	P406573	
		Oxychlordane**	0.32	U	ng/L	P406573	
		Permethrin	1.7	U	ng/L	P406573	
		Phenothrin**	0.95	U	ng/L	P406573	
		Piperonyl Butoxide**	0.16	U	ng/L	P406573	
		Prallethrin**	2.1	U	ng/L	P406573	
		Tau-Fluvalinate**	0.26	U	ng/L	P406573	
		Tetramethrin**	0.79	U	ng/L	P406573	
		Trans-Nonachlor**	0.21	U	ng/L	P406573	
		Triclosan Methyl**	0.16	U	ng/L	P406573	RPD
		Trifluralin	0.21	U	ng/L	P406573	
		Chlordane	2.6	U	ng/L	P406573	
		Toxaphene	16	U	ng/L	P406573	
2290797	EPA 8270E	Acetochlor	0.24	U	ng/L	P406480	
		Alachlor	0.24	U	ng/L	P406480	
		Ametryn	0.58	U	ng/L	P406480	
		Atrazine	0.61	I	ng/L	P406480	
		Atrazine Desethyl	1.5	U	ng/L	P406480	
		Azinphos Methyl	1.9	UJ	ng/L	P406480	MS, RPD
		Azoxystrobin**	0.49	U	ng/L	P406480	
		Bromacil	0.49	U	ng/L	P406480	RPD
		Butylate	0.39	U	ng/L	P406480	
		Caffeine**	7.3	U	ng/L	P406480	
		Carbophenothion	0.49	U	ng/L	P406480	
		Carfentrazone Ethyl**	0.097	U	ng/L	P406480	
		Chlorfenapyr**	0.17	U	ng/L	P406480	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P406480	
		Chlorpyrifos Methyl	0.049	U	ng/L	P406480	
		Coumaphos**	0.49	U	ng/L	P406480	
		Cyanazine	3.2	U	ng/L	P406480	
		Cyprodinil**	0.097	U	ng/L	P406480	
		Demeton	1.5	U	ng/L	P406480	
		Diazinon	0.12	U	ng/L	P406480	
		Difenoconazole**	0.58	UJ	ng/L	P406480	RPD
		Dimethenamid**	0.097	U	ng/L	P406480	
		Dimethomorph**	0.17	U	ng/L	P406480	RPD
		Disulfoton	0.49	U	ng/L	P406480	

Field ID: G4CE0167

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2290797	EPA 8270E	Dithiopyr**	0.17	U	ng/L	P406480	
		EPTC	1.2	U	ng/L	P406480	
		Ethion	0.15	U	ng/L	P406480	
		Ethoprop	0.097	U	ng/L	P406480	
		Etridiazole**	0.15	U	ng/L	P406480	
		Fenamiphos	0.49	U	ng/L	P406480	
		Fenbuconazole**	0.12	U	ng/L	P406480	
		Fipronil	0.24	U	ng/L	P406480	
		Fipronil Desulfinyl**	0.12	U	ng/L	P406480	
		Fipronil Sulfide	0.15	U	ng/L	P406480	
		Fipronil Sulfone	0.15	U	ng/L	P406480	
		Fluazifop-P-butyl**	0.097	U	ng/L	P406480	
		Fludioxonil**	0.12	U	ng/L	P406480	
		Flumioxazin**	1.7	U	ng/L	P406480	
		Flutolanil**	0.097	U	ng/L	P406480	
		Fluxapyroxad**	0.097	U	ng/L	P406480	
		Fonofos	0.19	U	ng/L	P406480	
		Hexazinone	0.49	U	ng/L	P406480	
		Imazalil**	0.73	U	ng/L	P406480	
		Iprodione**	0.58	U	ng/L	P406480	
		Loratadine**	0.097	UJ	ng/L	P406480	LCS, RPD
		Malathion	0.34	U	ng/L	P406480	
		Metalaxyl	0.73	U	ng/L	P406480	
		Metolachlor	0.34	U	ng/L	P406480	
		Metribuzin	3.2	U	ng/L	P406480	
		Mevinphos	1.0	U	ng/L	P406480	
		Molinate	0.29	U	ng/L	P406480	
		Myclobutanil**	0.24	U	ng/L	P406480	
		Naled**	1.5	UJ	ng/L	P406480	LCS, MS
		Napropamide**	0.39	U	ng/L	P406480	
		Norflurazon	0.49	U	ng/L	P406480	
		Oxadiazon	0.29	U	ng/L	P406480	
		Oxyfluorfen**	0.15	U	ng/L	P406480	
		Parathion Ethyl	0.24	U	ng/L	P406480	
		Parathion Methyl	0.54	U	ng/L	P406480	
		Pendimethalin	0.97	U	ng/L	P406480	
		Phenytol**	3.4	U	ng/L	P406480	MS, RPD
		Phorate	0.51	U	ng/L	P406480	
		Prodiamine**	0.17	U	ng/L	P406480	
		Prometon	0.88	U	ng/L	P406480	
		Prometryn	0.19	U	ng/L	P406480	
		Pronamide**	0.15	U	ng/L	P406480	
		Propanil**	0.12	U	ng/L	P406480	
		Propargite**	1.5	U	ng/L	P406480	
		Propiconazole**	0.49	U	ng/L	P406480	

Field ID: G4CE0167

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2290797	EPA 8270E	Pyraflufen Ethyl**	0.24	U	ng/L	P406480	
		Pyridaben**	0.44	U	ng/L	P406480	
		Pyriproxyfen**	0.12	U	ng/L	P406480	
		Simazine	0.49	U	ng/L	P406480	
		Stirophos**	0.12	U	ng/L	P406480	
		Sulfentrazone**	6.8		ng/L	P406480	
		Tebuconazole**	0.49	U	ng/L	P406480	
		Terbufos	0.097	U	ng/L	P406480	
		Terbuthylazine	0.41	U	ng/L	P406480	
		Thiobencarb**	0.58	U	ng/L	P406480	
		Triadimefon**	0.24	U	ng/L	P406480	

Ref. Method and Comment:

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

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

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P406604

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407153

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407156

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P406852

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406866

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P406645

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P406641

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P406586

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P406480

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P406480

Component	Result	Code	Units
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
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	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P406480

Component	Result	Code	Units
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
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	3.2	U	ng/L
Metribuzin	3.2	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P406480

Component	Result	Code	Units
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	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
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
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P406573

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	0.50	U	ng/L
Chlorothalonil	0.50	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	0.10	U	ng/L
Dichlobenil	0.10	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P406573

Component	Result	Code	Units
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P406573

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8276
Batch ID: P406573

Component	Result	Code	Units
Toxaphene	15	U	ng/L

Reference Method: SM 2120 B-2011
Batch ID: P406601

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P406782

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P406958

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P406929

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P406785

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P407059

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407153

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407156

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P406852

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406866

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.7		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P406645

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P406641

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P406586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.0		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P406480

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	90.0	92.3	P/P	70 - 121
Alachlor	83.8	86.8	P/P	70 - 119
Ametryn	106	110	P/P	61 - 135
Atrazine	87.2	85.9	P/P	76 - 123
Atrazine Desethyl	79.7	72.2	P/P	35 - 140
Azinphos Methyl	124	62.2	P/P	57 - 163
Azoxystrobin	91.2	88.7	P/P	43 - 231
Bromacil	75.3	78.3	P/P	42 - 123
Butylate	64.0	62.5	P/P	34 - 92.0
Caffeine	91.2	101	P/P	70 - 130

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P406480

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbophenothion	106	95.8	P/P	61 - 121
Carfentrazone Ethyl	95.3	87.1	P/P	62 - 139
Chlorfenapyr	99.1	91.1	P/P	50 - 150
Chlorpyrifos Ethyl	77.8	73.0	P/P	67 - 121
Chlorpyrifos Methyl	107	111	P/P	67 - 120
Coumaphos	157	190	P/P	50 - 220
Cyanazine	105	104	P/P	20 - 226
Cyprodinil	92.5	97.4	P/P	50 - 150
Demeton	62.7	76.6	P/P	35 - 125
Diazinon	89.7	95.8	P/P	70 - 122
Difenoconazole	71.5	119	P/P	56 - 186
Dimethenamid	71.9	76.0	P/P	67 - 119
Dimethomorph	84.4	106	P/P	50 - 150
Disulfoton	72.1	88.6	P/P	47 - 120
Dithiopyr	85.4	86.0	P/P	67 - 118
EPTC	58.8	58.3	P/P	33 - 90.0
Ethion	99.2	82.7	P/P	40 - 133
Ethoprop	81.9	88.7	P/P	61 - 121
Etridiazole	60.9	63.3	P/P	50 - 150
Fenamiphos	110	95.4	P/P	31 - 139
Fenbuconazole	125	131	P/P	66 - 141
Fipronil	87.0	91.3	P/P	62 - 129
Fipronil Desulfinyl	88.0	87.8	P/P	59 - 126
Fipronil Sulfide	88.6	91.3	P/P	63 - 117
Fipronil Sulfone	107	105	P/P	57 - 117
Fluazifop-P-butyl	85.9	85.4	P/P	63 - 124
Fludioxonil	86.9	84.5	P/P	63 - 123
Flumioxazin	203	189	P/P	34 - 245
Flutolanil	68.7	66.0	P/P	56 - 131
Fluxapyroxad	76.6	61.1	P/P	57 - 117
Fonofos	85.4	94.4	P/P	61 - 116
Hexazinone	94.9	94.1	P/P	55 - 138
Imazalil	75.2	83.9	P/P	33 - 143
Iprodione	81.6	65.8	P/P	59 - 118
Loratadine	158	184	F/F	50 - 150
Malathion	118	120	P/P	62 - 138
Metalaxyl	78.4	76.6	P/P	24 - 147
Metolachlor	87.0	87.5	P/P	68 - 118
Metribuzin	69.9	74.1	P/P	20 - 239
Mevinphos	71.2	76.1	P/P	46 - 124
Molinate	70.1	73.3	P/P	46 - 100
Myclobutanil	86.5	86.3	P/P	32 - 149
Naled	21.4	21.5	F/F	32 - 95.0
Napropamide	86.4	86.6	P/P	50 - 150
Norflurazon	98.6	92.2	P/P	57 - 127
Oxadiazon	76.4	71.4	P/P	63 - 118
Oxyfluorfen	113	107	P/P	69 - 137
Parathion Ethyl	89.5	78.2	P/P	70 - 113
Parathion Methyl	103	109	P/P	71 - 130
Pendimethalin	92.9	110	P/P	55 - 118
Phenytoin	101	103	P/P	50 - 200
Phorate	85.6	72.7	P/P	46 - 125

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P406480

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prodiamine	48.4	62.3	P/P	20 - 141
Prometon	105	114	P/P	54 - 122
Prometryn	86.5	88.6	P/P	66 - 124
Pronamide	85.4	94.2	P/P	79 - 122
Propanil	93.1	91.5	P/P	50 - 150
Propargite	144	131	P/P	50 - 200
Propiconazole	101	103	P/P	61 - 126
Pyraflufen Ethyl	109	124	P/P	50 - 150
Pyridaben	125	153	P/P	50 - 200
Pyriproxyfen	53.3	52.8	P/P	52 - 131
Simazine	89.3	91.9	P/P	75 - 128
Stiophos	115	114	P/P	50 - 150
Sulfentrazone	102	128	P/P	20 - 132
Tebuconazole	62.4	50.1	P/P	20 - 116
Terbufos	98.2	109	P/P	61 - 117
Terbutylazine	81.7	83.6	P/P	74 - 116
Thiobencarb	85.4	85.3	P/P	50 - 150
Triadimefon	83.1	81.3	P/P	50 - 150

Reference Method: EPA 8270E

Batch ID: P406573

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	61.1	53.8	P/P	20 - 83.0
Alpha-BHC	88.3	84.2	P/P	74 - 108
Alpha-Chlordane	68.2	55.8	P/P	53 - 109
Beta-BHC	92.1	92.0	P/P	64 - 139
Beta-Cyfluthrin	81.8	59.2	P/P	27 - 171
Bifenthrin	46.5	30.6	P/P	20 - 124
Chlorothalonil	73.0	55.2	P/P	20 - 182
Cis-Nonachlor	73.1	59.3	P/P	46 - 110
Cypermethrin	64.8	49.0	P/P	35 - 160
Dacthal	89.9	84.3	P/P	70 - 115
DDD-p,p'	76.9	72.6	P/P	51 - 108
DDE-p,p'	67.2	53.4	P/P	51 - 104
DDT-p,p'	72.4	65.4	P/P	52 - 107
Delta-BHC	80.8	75.4	P/P	73 - 146
Deltamethrin	81.6	62.6	P/P	20 - 190
Dichlobenil	84.4	79.0	P/P	30 - 100
Dicofol	67.9	58.3	P/P	52 - 110
Dieldrin	79.4	75.3	P/P	57 - 111
Endosulfan I	80.7	75.1	P/P	61 - 106
Endosulfan II	86.5	74.5	P/P	57 - 122
Endosulfan Sulfate	79.3	74.8	P/P	58 - 122
Endrin	76.2	75.8	P/P	34 - 125
Endrin Aldehyde	63.6	60.1	P/P	40 - 120
Endrin Ketone	107	92.6	P/P	51 - 138
Esfenvalerate	67.1	42.2	P/P	20 - 193
Ethalfuralin	69.2	62.0	P/P	51 - 99.0
Fenpropathrin	65.6	49.3	P/P	40 - 116
Gamma-BHC	84.7	79.2	P/P	74 - 116
Gamma-Chlordane	64.2	51.9	P/P	49 - 105

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P406573

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Heptachlor	65.0	59.4	P/P	45 - 98.0
Heptachlor Epoxide	78.0	75.8	P/P	61 - 106
Hexachlorobenzene	71.4	62.1	P/P	41 - 96.0
Kepone	101	90.6	P/P	27 - 179
Lambda-Cyhalothrin	62.6	43.2	P/P	20 - 199
Methoprene	44.0	27.4	P/P	20 - 134
Methoxychlor	80.9	71.8	P/P	61 - 111
MGK-264	71.1	58.0	P/P	20 - 124
Mirex	55.0	45.7	P/P	20 - 199
Oxychlordane	65.9	57.7	P/P	39 - 112
Permethrin	67.7	48.6	P/P	31 - 155
Phenothrin	44.5	33.8	P/P	20 - 100
Piperonyl Butoxide	94.3	83.7	P/P	20 - 144
Prallethrin	56.8	40.8	P/P	20 - 103
Tau-Fluvalinate	65.2	45.5	P/P	24 - 133
Tetramethrin	94.9	70.0	P/P	20 - 116
Trans-Nonachlor	72.4	67.6	P/P	49 - 105
Triclosan Methyl	82.0	78.3	P/P	60 - 111
Trifluralin	71.4	65.3	P/P	53 - 97.0

Reference Method: EPA 8276

Batch ID: P406573

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	83.9	84.6	P/P	56 - 117
Toxaphene	100	99.9	P/P	45 - 116

Reference Method: SM 2120 B-2011

Batch ID: P406601

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	85 - 115

Reference Method: SM 2320 B-2011

Batch ID: P406782

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	94 - 106

Reference Method: SM 4500 F-C-2011

Batch ID: P406785

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	93 - 104

Reference Method: SM 5310 B-2011

Batch ID: P407059

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	100		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407153

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290422	Chloride	98.9		P	90 - 110
2290693	Chloride	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407156

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290422	Sulfate	94.8		P	90 - 110
2290693	Sulfate	96.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P406852

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290730	Ammonia-N	92.4	94.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406866

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290699	Kjeldahl Nitrogen	98.0	94.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P406645

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290781	NO2NO3-N	94.9	95.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P406641

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290781	Total-P	104	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P406586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290768	O-Phosphate-P	95.8	97.0	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P406480

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290149	Acetochlor	95.8	92.9	P/P	66 - 122
2290149	Alachlor	88.7	88.4	P/P	65 - 122
2290149	Ametryn	106	102	P/P	45 - 173
2290149	Atrazine	85.0	89.7	P/P	70 - 134
2290149	Atrazine Desethyl	47.2	54.0	P/P	25 - 150
2290149	Azinphos Methyl	154	243	P/F	44 - 174
2290149	Azoxystrobin	143	154	P/P	10 - 268
2290149	Butylate	46.3	49.3	P/P	15 - 97.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
 Batch ID: P406480

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290149	Caffeine	70.3	77.6	P/P	70 - 130
2290149	Carbophenothion	88.5	85.7	P/P	42 - 129
2290149	Carfentrazone Ethyl	91.5	89.0	P/P	62 - 145
2290149	Chlorfenapyr	82.0	82.7	P/P	50 - 150
2290149	Chlorpyrifos Ethyl	79.3	94.8	P/P	60 - 124
2290149	Chlorpyrifos Methyl	101	101	P/P	66 - 119
2290149	Coumaphos	188	219	P/P	50 - 220
2290149	Cyanazine	101	104	P/P	17 - 225
2290149	Cyprodinil	101	96.9	P/P	50 - 150
2290149	Demeton	80.0	99.1	P/P	36 - 142
2290149	Diazinon	101	97.4	P/P	70 - 128
2290149	Difenoconazole	107	83.9	P/P	33 - 222
2290149	Dimethenamid	83.8	81.3	P/P	54 - 125
2290149	Dimethomorph	91.6	131	P/P	50 - 150
2290149	Disulfoton	86.4	88.4	P/P	49 - 133
2290149	Dithiopyr	85.8	83.5	P/P	55 - 123
2290149	EPTC	43.1	48.7	P/P	19 - 91.0
2290149	Ethion	73.5	54.1	P/P	13 - 143
2290149	Ethoprop	87.0	93.0	P/P	49 - 144
2290149	Etridiazole	57.4	62.5	P/P	50 - 150
2290149	Fenamiphos	80.9	73.3	P/P	32 - 136
2290149	Fenbuconazole	133	141	P/P	73 - 148
2290149	Fipronil	99.2	101	P/P	57 - 129
2290149	Fipronil Desulfinyl	96.9	97.8	P/P	49 - 127
2290149	Fipronil Sulfide	89.2	91.1	P/P	44 - 127
2290149	Fipronil Sulfone	100	99.9	P/P	35 - 126
2290149	Fluazifop-P-butyl	86.3	83.4	P/P	67 - 129
2290149	Fludioxonil	88.5	83.3	P/P	61 - 126
2290149	Flumioxazin	251	245	P/P	38 - 279
2290149	Flutolanil	60.9	63.5	P/P	55 - 136
2290149	Fluxapyroxad	84.8	67.2	P/P	33 - 140
2290149	Fonofos	84.3	85.9	P/P	58 - 125
2290149	Imazalil	68.1	76.6	P/P	10 - 221
2290149	Iprodione	82.0	83.3	P/P	32 - 140
2290149	Loratadine	63.1	96.3	P/P	50 - 150
2290149	Malathion	111	116	P/P	52 - 138
2290149	Metribuzin	104	121	P/P	16 - 272
2290149	Mevinphos	81.0	88.7	P/P	45 - 140
2290149	Molinate	66.3	72.7	P/P	41 - 103
2290149	Myclobutanil	93.5	88.5	P/P	60 - 134
2290149	Naled	19.1	20.9	F/P	20 - 113
2290149	Napropamide	77.6	65.7	P/P	50 - 150
2290149	Oxadiazon	73.4	70.4	P/P	44 - 125
2290149	Oxyfluorfen	123	122	P/P	66 - 176
2290149	Parathion Ethyl	82.6	81.7	P/P	57 - 132
2290149	Parathion Methyl	106	111	P/P	59 - 156
2290149	Pendimethalin	90.0	93.6	P/P	59 - 129
2290149	Phenytoin	76.6	2.13	P/F	50 - 200
2290149	Phorate	96.4	96.4	P/P	47 - 136
2290149	Prodiamine	128	121	P/P	10 - 159
2290149	Prometon	108	106	P/P	59 - 127
2290149	Prometryn	95.2	93.1	P/P	59 - 129

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P406480

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290149	Pronamide	83.0	87.2	P/P	65 - 145
2290149	Propanil	92.0	93.1	P/P	50 - 150
2290149	Propargite	132	143	P/P	50 - 200
2290149	Propiconazole	134	128	P/P	28 - 165
2290149	Pyraflufen Ethyl	111	125	P/P	50 - 150
2290149	Pyridaben	146	149	P/P	50 - 200
2290149	Pyriproxyfen	47.7	34.1	P/P	21 - 180
2290149	Stiropfos	102	90.9	P/P	50 - 150
2290149	Sulfentrazone	61.8	92.0	P/P	32 - 136
2290149	Tebuconazole	45.0	29.2	P/P	10 - 117
2290149	Terbufos	103	107	P/P	61 - 131
2290149	Terbuthylazine	84.0	82.3	P/P	62 - 126
2290149	Thiobencarb	82.1	80.2	P/P	50 - 150
2290149	Triadimefon	93.6	85.7	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P406573

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290515	Aldrin	51.7	66.4	P/P	10 - 94.0
2290515	Alpha-BHC	76.2	83.9	P/P	71 - 108
2290515	Alpha-Chlordane	43.2	54.4	P/P	42 - 115
2290515	Beta-BHC	80.3	89.2	P/P	56 - 161
2290515	Beta-Cyfluthrin	55.7	67.2	P/P	46 - 190
2290515	Bifenthrin	45.2	53.4	P/P	19 - 126
2290515	Chlorothalonil	137	183	P/P	10 - 262
2290515	Cis-Nonachlor	49.2	62.9	P/P	44 - 112
2290515	Cypermethrin	49.5	55.7	P/P	40 - 178
2290515	Dacthal	73.3	86.9	P/P	60 - 119
2290515	DDD-p,p'	55.5	67.8	P/P	40 - 114
2290515	DDE-p,p'	42.3	54.3	P/P	22 - 125
2290515	DDT-p,p'	58.0	72.6	P/P	39 - 110
2290515	Delta-BHC	80.7	87.0	P/P	64 - 174
2290515	Deltamethrin	41.4	58.8	P/P	10 - 227
2290515	Dichlobenil	54.9	63.5	P/P	20 - 99.0
2290515	Dicofol	45.4	49.6	P/P	43 - 115
2290515	Dieldrin	44.8	56.9	P/P	31 - 131
2290515	Endosulfan I	65.1	81.8	P/P	52 - 110
2290515	Endosulfan II	61.1	73.8	P/P	53 - 127
2290515	Endosulfan Sulfate	63.7	76.8	P/P	44 - 135
2290515	Endrin	60.1	92.2	P/P	36 - 122
2290515	Endrin Aldehyde	59.1	81.3	P/P	23 - 115
2290515	Endrin Ketone	74.1	93.1	P/P	46 - 147
2290515	Esfenvalerate	55.2	66.0	P/P	25 - 217
2290515	Ethalfuralin	56.6	69.1	P/P	46 - 99.0
2290515	Fenpropathrin	53.5	57.1	P/P	42 - 121
2290515	Gamma-BHC	75.6	81.2	P/P	63 - 131
2290515	Gamma-Chlordane	41.6	53.6	P/P	40 - 108
2290515	Heptachlor	64.6	80.7	P/P	38 - 98.0
2290515	Heptachlor Epoxide	48.6	60.2	P/P	39 - 124
2290515	Hexachlorobenzene	54.3	67.6	P/P	37 - 96.0
2290515	Kepone	65.1	96.0	P/P	10 - 216

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P406573

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290515	Lambda-Cyhalothrin	51.1	62.7	P/P	21 - 220
2290515	Methoprene	37.0	33.9	P/P	19 - 112
2290515	Methoxychlor	72.4	92.4	P/P	56 - 118
2290515	MGK-264	44.6	51.0	P/P	28 - 125
2290515	Mirex	44.6	61.1	P/P	10 - 203
2290515	Oxychlordane	56.0	70.9	P/P	46 - 92.0
2290515	Permethrin	55.9	64.5	P/P	42 - 173
2290515	Phenothrin	42.6	46.9	P/P	10 - 140
2290515	Piperonyl Butoxide	74.8	73.5	P/P	10 - 158
2290515	Prallethrin	33.0	31.7	P/P	19 - 119
2290515	Tau-Fluvalinate	44.0	45.8	P/P	27 - 164
2290515	Tetramethrin	64.1	80.8	P/P	16 - 130
2290515	Trans-Nonachlor	55.5	71.8	P/P	43 - 105
2290515	Triclosan Methyl	62.0	80.0	P/P	50 - 113
2290515	Trifluralin	55.3	66.9	P/P	48 - 98.0

Reference Method: EPA 8276

Batch ID: P406573

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2290607	Chlordane	75.3	80.4	P/P	47 - 128
2290607	Toxaphene	83.7	99.7	P/P	11 - 163

Reference Method: SM 4500 F-C-2011

Batch ID: P406785

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2291000	Fluoride	98.1	98.6	P/P	92 - 107

Reference Method: SM 5310 B-2011

Batch ID: P407059

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2289981	Organic Carbon	98.7		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P406604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290802	Turbidity	1.15	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407153

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290422	Chloride	1.04	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407156

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290422	Sulfate	0.908	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P406852

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290730	Ammonia-N	2.14	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P406866

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290699	Kjeldahl Nitrogen	3.25	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P406645

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290781	NO2NO3-N	0.512	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P406641

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290781	Total-P	2.89	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P406586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290768	O-Phosphate-P	1.16	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P406480

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290149	Acetochlor	3.04	Spike	P	0 - 24
2290149	Alachlor	0.361	Spike	P	0 - 24
2290149	Ametryn	3.52	Spike	P	0 - 27
2290149	Atrazine	2.69	Spike	P	0 - 29
2290149	Atrazine Desethyl	10.2	Spike	P	0 - 30
2290149	Azinphos Methyl	45.2	Spike	P	0 - 50
2290149	Azoxystrobin	7.83	Spike	P	0 - 32
2290149	Bromacil	34.0	Spike	F	0 - 30
2290149	Butylate	6.31	Spike	P	0 - 47
2290149	Caffeine	7.25	Spike	P	0 - 60
2290149	Carbophenothion	3.19	Spike	P	0 - 24
2290149	Carfentrazone Ethyl	2.87	Spike	P	0 - 26
2290149	Chlorfenapyr	0.841	Spike	P	0 - 30
2290149	Chlorpyrifos Ethyl	17.8	Spike	P	0 - 27
2290149	Chlorpyrifos Methyl	0.233	Spike	P	0 - 22
2290149	Coumaphos	15.6	Spike	P	0 - 30
2290149	Cyanazine	3.38	Spike	P	0 - 32
2290149	Cyprodinil	3.62	Spike	P	0 - 30
2290149	Demeton	21.2	Spike	P	0 - 25
2290149	Diazinon	3.24	Spike	P	0 - 24
2290149	Difenoconazole	24.3	Spike	P	0 - 25
2290149	Dimethenamid	3.09	Spike	P	0 - 30
2290149	Dimethomorph	35.6	Spike	F	0 - 30
2290149	Disulfoton	2.38	Spike	P	0 - 26
2290149	Dithiopyr	2.74	Spike	P	0 - 22
2290149	EPTC	12.1	Spike	P	0 - 38
2290149	Ethion	30.3	Spike	P	0 - 47
2290149	Ethoprop	6.61	Spike	P	0 - 23
2290149	Etridiazole	8.47	Spike	P	0 - 30
2290149	Fenamiphos	9.93	Spike	P	0 - 34
2290149	Fenbuconazole	5.41	Spike	P	0 - 37
2290149	Fipronil	1.77	Spike	P	0 - 23
2290149	Fipronil Desulfinyl	0.968	Spike	P	0 - 26
2290149	Fipronil Sulfide	2.11	Spike	P	0 - 23
2290149	Fipronil Sulfone	0.0750	Spike	P	0 - 24
2290149	Fluazifop-P-butyl	3.36	Spike	P	0 - 24
2290149	Fludioxonil	5.43	Spike	P	0 - 26
2290149	Flumioxazin	2.49	Spike	P	0 - 37
2290149	Flutolanil	3.81	Spike	P	0 - 26
2290149	Fluxapyroxad	23.1	Spike	P	0 - 34
2290149	Fonofos	1.86	Spike	P	0 - 22
2290149	Hexazinone	1.78	Spike	P	0 - 21
2290149	Imazalil	11.7	Spike	P	0 - 65
2290149	Iprodione	1.60	Spike	P	0 - 33
2290149	Loratadine	41.6	Spike	F	0 - 30
2290149	Malathion	3.92	Spike	P	0 - 26
2290149	Metalaxyl	15.8	Spike	P	0 - 38
2290149	Metolachlor	6.01	Spike	P	0 - 36
2290149	Metribuzin	14.9	Spike	P	0 - 29
2290149	Mevinphos	9.03	Spike	P	0 - 26
2290149	Molinate	9.18	Spike	P	0 - 27

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P406480

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290149	Myclobutanil	5.56	Spike	P	0 - 21
2290149	Naled	9.07	Spike	P	0 - 26
2290149	Napropamide	16.6	Spike	P	0 - 30
2290149	Norflurazon	8.54	Spike	P	0 - 24
2290149	Oxadiazon	4.11	Spike	P	0 - 23
2290149	Oxyfluorfen	1.55	Spike	P	0 - 24
2290149	Parathion Ethyl	1.06	Spike	P	0 - 23
2290149	Parathion Methyl	4.45	Spike	P	0 - 23
2290149	Pendimethalin	4.00	Spike	P	0 - 31
2290149	Phenytoin	189	Spike	F	0 - 30
2290149	Phorate	0.0765	Spike	P	0 - 27
2290149	Prodiamine	5.59	Spike	P	0 - 52
2290149	Prometon	1.40	Spike	P	0 - 31
2290149	Prometryn	2.30	Spike	P	0 - 24
2290149	Pronamide	4.85	Spike	P	0 - 26
2290149	Propanil	1.15	Spike	P	0 - 30
2290149	Propargite	7.78	Spike	P	0 - 30
2290149	Propiconazole	4.22	Spike	P	0 - 31
2290149	Pyraflufen Ethyl	11.5	Spike	P	0 - 30
2290149	Pyridaben	2.33	Spike	P	0 - 30
2290149	Pyriproxyfen	33.3	Spike	P	0 - 50
2290149	Simazine	1.44	Spike	P	0 - 25
2290149	Stirophos	11.1	Spike	P	0 - 30
2290149	Sulfentrazone	17.4	Spike	P	0 - 33
2290149	Tebuconazole	36.1	Spike	P	0 - 43
2290149	Terbufos	3.46	Spike	P	0 - 22
2290149	Terbuthylazine	1.99	Spike	P	0 - 24
2290149	Thiobencarb	2.33	Spike	P	0 - 30
2290149	Triadimefon	8.74	Spike	P	0 - 30
LFB	Acetochlor	2.47	LCS	P	0 - 22
LFB	Alachlor	3.40	LCS	P	0 - 20
LFB	Ametryn	3.45	LCS	P	0 - 25
LFB	Atrazine	1.51	LCS	P	0 - 20
LFB	Atrazine Desethyl	9.85	LCS	P	0 - 33
LFB	Azinphos Methyl	66.2	LCS	F	0 - 51
LFB	Azoxystrobin	2.80	LCS	P	0 - 47
LFB	Bromacil	3.95	LCS	P	0 - 26
LFB	Butylate	2.45	LCS	P	0 - 35
LFB	Caffeine	10.2	LCS	P	0 - 27
LFB	Carbophenothion	9.81	LCS	P	0 - 22
LFB	Carfentrazone Ethyl	9.00	LCS	P	0 - 21
LFB	Chlorfenapyr	8.36	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	6.31	LCS	P	0 - 23
LFB	Chlorpyrifos Methyl	4.37	LCS	P	0 - 24
LFB	Coumaphos	18.6	LCS	P	0 - 30
LFB	Cyanazine	1.59	LCS	P	0 - 37
LFB	Cyprodinil	5.22	LCS	P	0 - 30
LFB	Demeton	20.0	LCS	P	0 - 32
LFB	Diazinon	6.63	LCS	P	0 - 21
LFB	Difenoconazole	50.2	LCS	F	0 - 37
LFB	Dimethenamid	5.46	LCS	P	0 - 21

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P406480

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Dimethomorph	22.8	LCS	P	0 - 30
LFB	Disulfoton	20.6	LCS	P	0 - 31
LFB	Dithiopyr	0.708	LCS	P	0 - 21
LFB	EPTC	0.854	LCS	P	0 - 41
LFB	Ethion	18.1	LCS	P	0 - 45
LFB	Ethoprop	8.06	LCS	P	0 - 28
LFB	Etridiazole	3.88	LCS	P	0 - 30
LFB	Fenamiphos	13.9	LCS	P	0 - 28
LFB	Fenbuconazole	4.58	LCS	P	0 - 36
LFB	Fipronil	4.89	LCS	P	0 - 23
LFB	Fipronil Desulfinyl	0.181	LCS	P	0 - 22
LFB	Fipronil Sulfide	2.98	LCS	P	0 - 24
LFB	Fipronil Sulfone	1.71	LCS	P	0 - 24
LFB	Fluazifop-P-butyl	0.611	LCS	P	0 - 23
LFB	Fludioxonil	2.77	LCS	P	0 - 23
LFB	Flumioxazin	7.29	LCS	P	0 - 39
LFB	Flutolanil	4.04	LCS	P	0 - 27
LFB	Fluxapyroxad	22.6	LCS	P	0 - 38
LFB	Fonofos	9.99	LCS	P	0 - 28
LFB	Hexazinone	0.916	LCS	P	0 - 27
LFB	Imazalil	10.9	LCS	P	0 - 45
LFB	Iprodione	21.4	LCS	P	0 - 42
LFB	Loratadine	15.4	LCS	P	0 - 30
LFB	Malathion	1.38	LCS	P	0 - 23
LFB	Metalaxyl	2.32	LCS	P	0 - 41
LFB	Metolachlor	0.584	LCS	P	0 - 21
LFB	Metribuzin	5.91	LCS	P	0 - 31
LFB	Mevinphos	6.70	LCS	P	0 - 32
LFB	Molinate	4.43	LCS	P	0 - 31
LFB	Myclobutanil	0.202	LCS	P	0 - 27
LFB	Naled	0.677	LCS	P	0 - 32
LFB	Napropamide	0.166	LCS	P	0 - 30
LFB	Norflurazon	6.72	LCS	P	0 - 25
LFB	Oxadiazon	6.85	LCS	P	0 - 25
LFB	Oxyfluorfen	4.94	LCS	P	0 - 22
LFB	Parathion Ethyl	13.6	LCS	P	0 - 32
LFB	Parathion Methyl	5.92	LCS	P	0 - 30
LFB	Pendimethalin	17.3	LCS	P	0 - 39
LFB	Phenytoin	2.34	LCS	P	0 - 30
LFB	Phorate	16.4	LCS	P	0 - 36
LFB	Prodiamine	25.2	LCS	P	0 - 71
LFB	Prometon	8.26	LCS	P	0 - 23
LFB	Prometryn	2.46	LCS	P	0 - 22
LFB	Pronamide	9.77	LCS	P	0 - 21
LFB	Propanil	1.73	LCS	P	0 - 30
LFB	Propargite	9.33	LCS	P	0 - 30
LFB	Propiconazole	2.19	LCS	P	0 - 23
LFB	Pyraflufen Ethyl	12.7	LCS	P	0 - 30
LFB	Pyridaben	19.7	LCS	P	0 - 30
LFB	Pyriproxyfen	1.04	LCS	P	0 - 53
LFB	Simazine	2.95	LCS	P	0 - 22

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P406480

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Stirophos	0.892	LCS	P	0 - 30
LFB	Sulfentrazone	23.0	LCS	P	0 - 45
LFB	Tebuconazole	22.0	LCS	P	0 - 52
LFB	Terbufos	10.1	LCS	P	0 - 27
LFB	Terbutylazine	2.21	LCS	P	0 - 21
LFB	Thiobencarb	0.101	LCS	P	0 - 30
LFB	Triadimefon	2.26	LCS	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P406573

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290515	Aldrin	24.9	Spike	P	0 - 37
2290515	Alpha-BHC	9.59	Spike	P	0 - 16
2290515	Alpha-Chlordane	22.8	Spike	P	0 - 28
2290515	Beta-BHC	10.6	Spike	P	0 - 32
2290515	Beta-Cyfluthrin	18.7	Spike	P	0 - 41
2290515	Bifenthrin	16.6	Spike	P	0 - 36
2290515	Chlorothalonil	28.3	Spike	P	0 - 54
2290515	Cis-Nonachlor	24.4	Spike	P	0 - 33
2290515	Cypermethrin	11.8	Spike	P	0 - 38
2290515	Dacthal	17.0	Spike	P	0 - 23
2290515	DDD-p,p'	20.0	Spike	P	0 - 35
2290515	DDE-p,p'	24.7	Spike	P	0 - 27
2290515	DDT-p,p'	22.4	Spike	P	0 - 31
2290515	Delta-BHC	7.55	Spike	P	0 - 30
2290515	Deltamethrin	34.8	Spike	P	0 - 76
2290515	Dichlobenil	14.7	Spike	P	0 - 33
2290515	Dicofol	8.92	Spike	P	0 - 24
2290515	Dieldrin	24.0	Spike	P	0 - 35
2290515	Endosulfan I	22.8	Spike	P	0 - 25
2290515	Endosulfan II	18.8	Spike	P	0 - 31
2290515	Endosulfan Sulfate	18.6	Spike	P	0 - 38
2290515	Endrin	42.2	Spike	P	0 - 53
2290515	Endrin Aldehyde	31.6	Spike	P	0 - 81
2290515	Endrin Ketone	22.7	Spike	P	0 - 33
2290515	Esfenvalerate	17.8	Spike	P	0 - 46
2290515	Ethalfuralin	19.9	Spike	P	0 - 22
2290515	Fenpropathrin	6.51	Spike	P	0 - 29
2290515	Gamma-BHC	7.12	Spike	P	0 - 17
2290515	Gamma-Chlordane	25.2	Spike	P	0 - 28
2290515	Heptachlor	22.1	Spike	P	0 - 28
2290515	Heptachlor Epoxide	21.3	Spike	P	0 - 23
2290515	Hexachlorobenzene	21.9	Spike	P	0 - 22
2290515	Kepone	38.3	Spike	P	0 - 61
2290515	Lambda-Cyhalothrin	20.3	Spike	P	0 - 52
2290515	Methoprene	8.61	Spike	P	0 - 38
2290515	Methoxychlor	24.3	Spike	P	0 - 29
2290515	MGK-264	13.3	Spike	P	0 - 41
2290515	Mirex	31.2	Spike	P	0 - 39

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P406573

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290515	Oxychlordane	23.5	Spike	P	0 - 33
2290515	Permethrin	14.2	Spike	P	0 - 39
2290515	Phenothrin	9.73	Spike	P	0 - 52
2290515	Piperonyl Butoxide	1.70	Spike	P	0 - 91
2290515	Prallethrin	3.84	Spike	P	0 - 34
2290515	Tau-Fluvalinate	4.07	Spike	P	0 - 41
2290515	Tetramethrin	23.0	Spike	P	0 - 43
2290515	Trans-Nonachlor	25.5	Spike	P	0 - 31
2290515	Triclosan Methyl	25.4	Spike	F	0 - 24
2290515	Trifluralin	18.9	Spike	P	0 - 23
LFB	Aldrin	12.7	LCS	P	0 - 61
LFB	Alpha-BHC	4.72	LCS	P	0 - 15
LFB	Alpha-Chlordane	20.0	LCS	P	0 - 23
LFB	Beta-BHC	0.0984	LCS	P	0 - 24
LFB	Beta-Cyfluthrin	32.0	LCS	P	0 - 39
LFB	Bifenthrin	41.3	LCS	P	0 - 48
LFB	Chlorothalonil	27.8	LCS	P	0 - 32
LFB	Cis-Nonachlor	20.7	LCS	P	0 - 32
LFB	Cypermethrin	27.7	LCS	P	0 - 34
LFB	Dacthal	6.34	LCS	P	0 - 19
LFB	DDD-p,p'	5.76	LCS	P	0 - 28
LFB	DDE-p,p'	22.9	LCS	P	0 - 24
LFB	DDT-p,p'	10.2	LCS	P	0 - 22
LFB	Delta-BHC	6.95	LCS	P	0 - 20
LFB	Deltamethrin	26.3	LCS	P	0 - 47
LFB	Dichlobenil	6.68	LCS	P	0 - 22
LFB	Dicofol	15.3	LCS	P	0 - 21
LFB	Dieldrin	5.33	LCS	P	0 - 21
LFB	Endosulfan I	7.24	LCS	P	0 - 20
LFB	Endosulfan II	14.8	LCS	P	0 - 22
LFB	Endosulfan Sulfate	5.88	LCS	P	0 - 25
LFB	Endrin	0.610	LCS	P	0 - 20
LFB	Endrin Aldehyde	5.72	LCS	P	0 - 33
LFB	Endrin Ketone	14.0	LCS	P	0 - 20
LFB	Esfenvalerate	45.6	LCS	F	0 - 42
LFB	Ethalfuralin	10.8	LCS	P	0 - 20
LFB	Fenpropathrin	28.3	LCS	P	0 - 29
LFB	Gamma-BHC	6.76	LCS	P	0 - 16
LFB	Gamma-Chlordane	21.2	LCS	P	0 - 23
LFB	Heptachlor	9.06	LCS	P	0 - 27
LFB	Heptachlor Epoxide	2.87	LCS	P	0 - 20
LFB	Hexachlorobenzene	13.9	LCS	P	0 - 24
LFB	Kepone	11.3	LCS	P	0 - 80
LFB	Lambda-Cyhalothrin	36.8	LCS	P	0 - 42
LFB	Methoprene	46.4	LCS	P	0 - 48
LFB	Methoxychlor	12.0	LCS	P	0 - 22
LFB	MGK-264	20.3	LCS	P	0 - 54
LFB	Mirex	18.4	LCS	P	0 - 32
LFB	Oxychlordane	13.2	LCS	P	0 - 21
LFB	Permethrin	32.9	LCS	P	0 - 36
LFB	Phenothrin	27.3	LCS	P	0 - 60

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P406573

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Piperonyl Butoxide	11.9	LCS	P	0 - 36
LFB	Prallethrin	32.7	LCS	P	0 - 41
LFB	Tau-Fluvalinate	35.5	LCS	P	0 - 40
LFB	Tetramethrin	30.2	LCS	P	0 - 66
LFB	Trans-Nonachlor	6.89	LCS	P	0 - 25
LFB	Triclosan Methyl	4.59	LCS	P	0 - 19
LFB	Trifluralin	8.88	LCS	P	0 - 21

Reference Method: EPA 8276
Batch ID: P406573

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290607	Chlordane	6.53	Spike	P	0 - 30
2290607	Toxaphene	17.5	Spike	P	0 - 30
LFB	Chlordane	0.759	LCS	P	0 - 30
LFB	Toxaphene	0.224	LCS	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P406601

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290802	Color (true)	1.26	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P406782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2291000	Total Alkalinity	0.637	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P406958

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2290791	TDS	5.10	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P406785

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2291000	Fluoride	0.487	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P407059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
--------------------------	-----------	-----------	-------------------	-----------	----------------

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P407059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2289981	Organic Carbon	1.09	Sample	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2290796
Field Sample ID: G4CE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	71.8	P	29 - 123
EPA 8270E	Tetrachloro-m-xylene	46.3	P	24 - 97.0
EPA 8276	Decachlorobiphenyl	58.4	P	29 - 92.0
EPA 8276	PCNB	89.4	P	43 - 134

Lab Sample ID: 2290797
Field Sample ID: G4CE0167

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	59.4	P	20 - 200
EPA 8270E	Simazine-d10	117	P	73 - 135
EPA 8270E	Terbufos-d10	93.3	P	58 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A109002

Included Lab Sample IDs: 2290793

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.7	101	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A109007

Included Lab Sample IDs: 2290791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	102	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A109009

Included Lab Sample IDs: 2290791

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A109030

Included Lab Sample IDs: 2290792

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.5	98.0	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A109082

Included Lab Sample IDs: 2290797

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	103		P	80 - 120
Alachlor	103		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	112		P	80 - 120
Azinphos Methyl	102		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	100		P	80 - 120
Butylate	106		P	80 - 120
Caffeine	98.7		P	80 - 120
Carbophenothion	98.5		P	80 - 120
Carfentrazone Ethyl	103		P	80 - 120
Chlorfenapyr	103		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	94.9		P	80 - 120
Cyanazine	99.4		P	80 - 120
Cyprodinil	104		P	80 - 120
Demeton	98.5		P	80 - 120
Diazinon	106		P	80 - 120
Difenoconazole	104		P	80 - 120
Dimethenamid	108		P	80 - 120
Dimethomorph	101		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
Run ID: A109082
Included Lab Sample IDs: 2290797

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Disulfoton	102		P	80 - 120
Dithiopyr	105		P	80 - 120
EPTC	100		P	80 - 120
Ethion	100		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	103		P	80 - 120
Fenamiphos	105		P	80 - 120
Fenbuconazole	110		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	106		P	80 - 120
Fipronil Sulfide	94.8		P	80 - 120
Fipronil Sulfone	94.1		P	80 - 120
Fluazifop-P-butyl	106		P	80 - 120
Fludioxonil	105		P	80 - 120
Flumioxazin	108		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	105		P	80 - 120
Fonofos	102		P	80 - 120
Hexazinone	97.7		P	80 - 120
Imazalil	104		P	80 - 120
Iprodione	99.1		P	80 - 120
Loratadine	110		P	80 - 120
Malathion	98.8		P	80 - 120
Metalaxyl	105		P	80 - 120
Metolachlor	107		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	103		P	80 - 120
Molinate	97.3		P	80 - 120
Myclobutanil	103		P	80 - 120
Naled	109		P	80 - 120
Napropamide	106		P	80 - 120
Norflurazon	95.3		P	80 - 120
Oxadiazon	106		P	80 - 120
Oxyfluorfen	92.2		P	80 - 120
Parathion Ethyl	95.1		P	80 - 120
Parathion Methyl	93.6		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytol	101		P	80 - 120
Phorate	101		P	80 - 120
Prodiamine	114		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	103		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	106		P	80 - 120
Propargite	100		P	80 - 120
Propiconazole	99.3		P	80 - 120
Pyraflufen Ethyl	105		P	80 - 120
Pyridaben	110		P	80 - 120
Pyriproxyfen	107		P	80 - 120
Simazine	100		P	80 - 120
Stirophos	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A109082
Included Lab Sample IDs: 2290797

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfentrazone	98.6		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	103		P	80 - 120
Terbutylazine	107		P	80 - 120
Thiobencarb	106		P	80 - 120
Triadimefon	107		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A109109
Included Lab Sample IDs: 2290791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.0	99.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A109109
Included Lab Sample IDs: 2290791

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

Reference Method: EPA 8276
Run ID: A109115
Included Lab Sample IDs: 2290796

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.9		P	80 - 120
Toxaphene	115		P	80 - 120

Reference Method: EPA 8270E
Run ID: A109120
Included Lab Sample IDs: 2290796

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	99.8		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	102		P	80 - 120
Bifenthrin	101		P	80 - 120
Chlorothalonil	109		P	80 - 120
Cis-Nonachlor	103		P	80 - 120
Cypermethrin	103		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	100		P	80 - 120
Deltamethrin	97.7		P	80 - 120
Dichlobenil	101		P	80 - 120
Dicofol	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A109120
Included Lab Sample IDs: 2290796

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dieldrin	102		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	100		P	80 - 120
Endosulfan Sulfate	98.6		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	93.9		P	80 - 120
Endrin Ketone	116		P	80 - 120
Esfenvalerate	101		P	80 - 120
Ethalfuralin	100		P	80 - 120
Fenpropathrin	101		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	105		P	80 - 120
Hexachlorobenzene	98.9		P	80 - 120
Kepone	80.9		P	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoprene	98.5		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	102		P	80 - 120
Oxychlordane	102		P	80 - 120
Permethrin	103		P	80 - 120
Phenothrin	98.3		P	80 - 120
Piperonyl Butoxide	104		P	80 - 120
Prallethrin	98.0		P	80 - 120
Tau-Fluvalinate	102		P	80 - 120
Tetramethrin	108		P	80 - 120
Trans-Nonachlor	95.7		P	80 - 120
Triclosan Methyl	99.9		P	80 - 120
Trifluralin	99.1		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A109129
Included Lab Sample IDs: 2290792

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	98.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A109136
Included Lab Sample IDs: 2290792

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A109193
Included Lab Sample IDs: 2290792

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
-----------	---------	---------	------------	----------------

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A109193

Included Lab Sample IDs: 2290792

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.3	98.2	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A109215

Included Lab Sample IDs: 2290792

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.8	98.6	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A109256

Included Lab Sample IDs: 2290791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Sulfate	99.3	100	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	MS
							SMP	
EPA 180.1 Rev. 2.0	Turbidity						1.15	
EPA 300.0 Rev. 2.1	Chloride	101		98.9	97.9		1.04	
	Sulfate	99.6		94.8	96.4		0.908	
	Ammonia-N	97.8		92.4	94.8			2.14
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.7		98.0	94.4			3.25
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.0		94.9	95.4			0.512
EPA 365.1 Rev. 2.0	Total-P	100		104	108			2.89
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.0		95.8	97.0			1.16
EPA 8270E	Acetochlor	92.3	90.0	95.8	92.9	2.47		3.04
	Alachlor	86.8	83.8	88.7	88.4	3.40		0.361
	Aldrin	61.1	53.8	51.7	66.4	12.7		24.9
	Alpha-BHC	88.3	84.2	76.2	83.9	4.72		9.59
	Alpha-Chlordane	68.2	55.8	43.2	54.4	20.0		22.8
	Ametryn	110	106	106	102	3.45		3.52
	Atrazine	85.9	87.2	85.0	89.7	1.51		2.69
	Atrazine Desethyl	79.7	72.2	47.2	54.0	9.85		10.2
	Azinphos Methyl	124	62.2	154	243	66.2		45.2
	Azoxystrobin	88.7	91.2	143	154	2.80		7.83
	Beta-BHC	92.1	92.0	80.3	89.2	0.0984		10.6
	Beta-Cyfluthrin	81.8	59.2	55.7	67.2	32.0		18.7
	Bifenthrin	46.5	30.6	45.2	53.4	41.3		16.6
	Bromacil	78.3	75.3			3.95		34.0
	Butylate	62.5	64.0	46.3	49.3	2.45		6.31
	Caffeine	101	91.2	70.3	77.6	10.2		7.25
	Carbophenothion	95.8	106	88.5	85.7	9.81		3.19
	Carfentrazone Ethyl	87.1	95.3	91.5	89.0	9.00		2.87
	Chlorfenapyr	91.1	99.1	82.0	82.7	8.36		0.841
	Chlorothalonil	73.0	55.2	137	183	27.8		28.3
	Chlorpyrifos Ethyl	77.8	73.0	79.3	94.8	6.31		17.8
	Chlorpyrifos Methyl	111	107	101	101	4.37		0.233
	Cis-Nonachlor	73.1	59.3	49.2	62.9	20.7		24.4
	Coumaphos	190	157	188	219	18.6		15.6
	Cyanazine	104	105	101	104	1.59		3.38
	Cypermethrin	64.8	49.0	49.5	55.7	27.7		11.8
	Cyprodinil	97.4	92.5	101	96.9	5.22		3.62
	Dacthal	89.9	84.3	73.3	86.9	6.34		17.0
	DDD-p,p'	76.9	72.6	55.5	67.8	5.76		20.0
	DDE-p,p'	67.2	53.4	42.3	54.3	22.9		24.7
	DDT-p,p'	72.4	65.4	58.0	72.6	10.2		22.4
	Delta-BHC	80.8	75.4	80.7	87.0	6.95		7.55
	Deltamethrin	81.6	62.6	41.4	58.8	26.3		34.8
	Demeton	76.6	62.7	80.0	99.1	20.0		21.2
	Diazinon	95.8	89.7	101	97.4	6.63		3.24
	Dichlobenil	84.4	79.0	54.9	63.5	6.68		14.7
	Dicofol	67.9	58.3	45.4	49.6	15.3		8.92
	Dieldrin	79.4	75.3	44.8	56.9	5.33		24.0
	Difenoconazole	119	71.5	107	83.9	50.2		24.3
	Dimethenamid	76.0	71.9	83.8	81.3	5.46		3.09
	Dimethomorph	106	84.4	91.6	131	22.8		35.6
	Disulfoton	88.6	72.1	86.4	88.4	20.6		2.38
	Dithiopyr	86.0	85.4	85.8	83.5	0.708		2.74
	Endosulfan I	80.7	75.1	65.1	81.8	7.24		22.8
	Endosulfan II	86.5	74.5	61.1	73.8	14.8		18.8
	Endosulfan Sulfate	79.3	74.8	63.7	76.8	5.88		18.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	SMP
EPA 8270E	Endrin	76.2	75.8	60.1	92.2	0.610	42.2
	Endrin Aldehyde	63.6	60.1	59.1	81.3	5.72	31.6
	Endrin Ketone	107	92.6	74.1	93.1	14.0	22.7
	EPTC	58.3	58.8	43.1	48.7	0.854	12.1
	Esfenvalerate	67.1	42.2	55.2	66.0	45.6	17.8
	Ethalfuralin	69.2	62.0	56.6	69.1	10.8	19.9
	Ethion	82.7	99.2	73.5	54.1	18.1	30.3
	Ethoprop	88.7	81.9	87.0	93.0	8.06	6.61
	Etridiazole	63.3	60.9	57.4	62.5	3.88	8.47
	Fenamiphos	95.4	110	80.9	73.3	13.9	9.93
	Fenbuconazole	131	125	133	141	4.58	5.41
	Fenpropathrin	65.6	49.3	53.5	57.1	28.3	6.51
	Fipronil	91.3	87.0	99.2	101	4.89	1.77
	Fipronil Desulfinyl	87.8	88.0	96.9	97.8	0.181	0.968
	Fipronil Sulfide	91.3	88.6	89.2	91.1	2.98	2.11
	Fipronil Sulfone	105	107	100	99.9	1.71	0.0750
	Fluazifop-P-butyl	85.4	85.9	86.3	83.4	0.611	3.36
	Fludioxonil	86.9	84.5	88.5	83.3	2.77	5.43
	Flumioxazin	203	189	251	245	7.29	2.49
	Flutolanil	68.7	66.0	60.9	63.5	4.04	3.81
	Fluxapyroxad	76.6	61.1	84.8	67.2	22.6	23.1
	Fonofos	85.4	94.4	84.3	85.9	9.99	1.86
	Gamma-BHC	84.7	79.2	75.6	81.2	6.76	7.12
	Gamma-Chlordane	64.2	51.9	41.6	53.6	21.2	25.2
	Heptachlor	65.0	59.4	64.6	80.7	9.06	22.1
	Heptachlor Epoxide	78.0	75.8	48.6	60.2	2.87	21.3
	Hexachlorobenzene	71.4	62.1	54.3	67.6	13.9	21.9
	Hexazinone	94.9	94.1			0.916	1.78
	Imazalil	75.2	83.9	68.1	76.6	10.9	11.7
	Iprodione	81.6	65.8	82.0	83.3	21.4	1.60
	Kepone	101	90.6	65.1	96.0	11.3	38.3
	Lambda-Cyhalothrin	62.6	43.2	51.1	62.7	36.8	20.3
	Loratadine	158	184	63.1	96.3	15.4	41.6
	Malathion	118	120	111	116	1.38	3.92
	Metalaxyl	78.4	76.6			2.32	15.8
	Methoprene	27.4	44.0	37.0	33.9	46.4	8.61
	Methoxychlor	80.9	71.8	72.4	92.4	12.0	24.3
	Metolachlor	87.0	87.5			0.584	6.01
	Metribuzin	69.9	74.1	104	121	5.91	14.9
	Mevinphos	71.2	76.1	81.0	88.7	6.70	9.03
	MGK-264	71.1	58.0	44.6	51.0	20.3	13.3
	Mirex	55.0	45.7	44.6	61.1	18.4	31.2
	Molinate	70.1	73.3	66.3	72.7	4.43	9.18
	Myclobutanil	86.5	86.3	93.5	88.5	0.202	5.56
	Naled	21.4	21.5	19.1	20.9	0.677	9.07
	Napropamide	86.4	86.6	77.6	65.7	0.166	16.6
	Norflurazon	98.6	92.2			6.72	8.54
	Oxadiazon	76.4	71.4	73.4	70.4	6.85	4.11
	Oxychlordane	65.9	57.7	56.0	70.9	13.2	23.5
	Oxyfluorfen	113	107	123	122	4.94	1.55
	Parathion Ethyl	89.5	78.2	82.6	81.7	13.6	1.06
	Parathion Methyl	103	109	106	111	5.92	4.45
	Pendimethalin	92.9	110	90.0	93.6	17.3	4.00
	Permethrin	67.7	48.6	55.9	64.5	32.9	14.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Phenothrin	44.5	33.8	42.6	46.9	27.3	9.73
	Phenytain	101	103	76.6	2.13	2.34	189
	Phorate	85.6	72.7	96.4	96.4	16.4	0.0765
	Piperonyl Butoxide	94.3	83.7	74.8	73.5	11.9	1.70
	Prallethrin	56.8	40.8	33.0	31.7	32.7	3.84
	Prodimine	48.4	62.3	128	121	25.2	5.59
	Prometon	105	114	108	106	8.26	1.40
	Prometryn	86.5	88.6	95.2	93.1	2.46	2.30
	Pronamide	85.4	94.2	83.0	87.2	9.77	4.85
	Propanil	93.1	91.5	92.0	93.1	1.73	1.15
	Propargite	144	131	132	143	9.33	7.78
	Propiconazole	101	103	134	128	2.19	4.22
	Pyraflufen Ethyl	109	124	111	125	12.7	11.5
	Pyridaben	125	153	146	149	19.7	2.33
	Pyriproxyfen	53.3	52.8	47.7	34.1	1.04	33.3
	Simazine	89.3	91.9			2.95	1.44
	Stirophos	115	114	102	90.9	0.892	11.1
	Sulfentrazone	102	128	61.8	92.0	23.0	17.4
	Tau-Fluvalinate	65.2	45.5	44.0	45.8	35.5	4.07
	Tebuconazole	62.4	50.1	45.0	29.2	22.0	36.1
	Terbufos	98.2	109	103	107	10.1	3.46
	Terbuthylazine	81.7	83.6	84.0	82.3	2.21	1.99
	Tetramethrin	94.9	70.0	64.1	80.8	30.2	23.0
	Thiobencarb	85.4	85.3	82.1	80.2	0.101	2.33
	Trans-Nonachlor	72.4	67.6	55.5	71.8	6.89	25.5
	Triadimefon	83.1	81.3	93.6	85.7	2.26	8.74
	Triclosan Methyl	82.0	78.3	62.0	80.0	4.59	25.4
	Trifluralin	71.4	65.3	55.3	66.9	8.88	18.9
EPA 8276	Chlordane	83.9	84.6	75.3	80.4	0.759	6.53
	Toxaphene	100	99.9	83.7	99.7	0.224	17.5
SM 2120 B-2011	Color (true)	101				1.26	
SM 2320 B-2011	Total Alkalinity	101				0.637	
SM 2540 C-2011	TDS					5.10	
SM 4500 F-C-2011	Fluoride	100		98.1	98.6		0.487
SM 5310 B-2011	Organic Carbon	100		98.7		1.09	

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2290791
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2290791
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2290791
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2290792
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2290792
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2290792
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2290792
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2290793
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2290796
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2290797
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2290796
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2290791

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2290791
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2290791
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2290791
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2290791
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2290792

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	11/19/2021			11/19/2021 17:11	Khloe J Berg	2290791
EPA 300.0 Rev. 2.1	11/19/2021			12/06/2021 22:42	James L Waggeberby	2290791
EPA 350.1 Rev. 2.0	11/19/2021			11/30/2021 14:26	Ping Hua	2290792
EPA 351.2 Rev. 2.0	11/19/2021	12/01/2021 12:54	Benjamin T. Nordmann	12/03/2021 10:08	Alexandra J Mattheus	2290792
EPA 353.2 Rev. 2.0	11/19/2021			11/22/2021 09:53	Beverly Y. Sanders	2290792
EPA 365.1 Rev. 2.0	11/19/2021	11/23/2021 12:38	Simonne.V. Calhoun	11/29/2021 20:12	Sarah A Nixon	2290792
EPA 365.1 Rev. 2.0 dissolved	11/19/2021			11/19/2021 14:11	James L Waggeberby	2290793
EPA 8270E	11/19/2021	11/19/2021 11:00	Fe-Val Siddell	11/22/2021 20:38	Vandana T. Nagar	2290797
	11/19/2021	11/23/2021 08:00	Fe-Val Siddell	11/25/2021 01:49	Julie Wi	2290796
EPA 8276	11/19/2021	11/23/2021 08:00	Fe-Val Siddell	11/27/2021 12:28	Arthur Maknenko	2290796
SM 2120 B-2011	11/19/2021			11/19/2021 16:41	Benjamin T. Nordmann	2290791
SM 2320 B-2011	11/19/2021			11/24/2021 20:40	Dale L. Simmons	2290791
SM 2540 C-2011	11/19/2021			11/23/2021 15:02	Yijie Li	2290791
SM 2540 D-2011	11/19/2021			11/23/2021 15:02	Yijie Li	2290791
SM 4500 F-C-2011	11/19/2021			11/24/2021 20:40	Dale L. Simmons	2290791
SM 5310 B-2011	11/19/2021			12/04/2021 05:39	Touraj Touran	2290792