

Chemical Analysis Report

CEN-DIST-2021-07-01-01

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

Event Description: **Volusia Blue Spring + blank**
Request ID: **RQ-2021-06-28-56**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 26-JUL-2021 09:45

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the "T" and a long horizontal stroke at the end.

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: Volusia Blue Spring near vent

Collection Date/Time: 06/30/2021 11:35

Field ID: G2CE0242

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2258441	EPA 180.1 Rev. 2.0	Turbidity	0.10	I	NTU	P400481	
	EPA 300.0 Rev. 2.1	Chloride	300		mg Cl/L	P400719	
		Sulfate	49		mg SO4/L	P400721	
	SM 2120 B-2011	Color (true)	3.0	I	PCU	P400485	
	SM 2320 B-2011	Total Alkalinity	151		mg CaCO3/L	P400782	
	SM 2540 C-2011	TDS	676		mg/L	P400831	
	SM 2540 D-2011	TSS	2	U	mg/L	P400834	
	SM 4500 F-C-2011	Fluoride	0.084	I	mg F/L	P400786	
2258442	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P400874	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.19	I	mg N/L	P401334	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.79		mg N/L	P400512	
	EPA 365.1 Rev. 2.0	Total-P	0.075		mg P/L	P400529	
	SM 5310 B-2011	Organic Carbon	1.5		mg C/L	P400822	
2258443	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.069		mg P/L	P400464	
2258448	EPA 8270E	Aldrin	0.71	U	ng/L	P400511	
		Alpha-BHC	0.11	U	ng/L	P400511	
		Alpha-Chlordane	0.22	U	ng/L	P400511	
		Beta-BHC	0.11	U	ng/L	P400511	
		Beta-Cyfluthrin**	1.4	U	ng/L	P400511	
		Bifenthrin**	0.54	U	ng/L	P400511	
		Chlorothalonil	0.54	U	ng/L	P400511	
		Cis-Nonachlor**	0.22	U	ng/L	P400511	
		Cypermethrin	1.6	U	ng/L	P400511	
		Dacthal**	0.16	U	ng/L	P400511	
		DDD-p,p'	0.27	U	ng/L	P400511	
		DDE-p,p'	0.22	U	ng/L	P400511	
		DDT-p,p'	0.27	U	ng/L	P400511	
		Delta-BHC	0.44	U	ng/L	P400511	
		Deltamethrin**	1.4	U	ng/L	P400511	
		Dichlobenil**	0.11	U	ng/L	P400511	
		Dicofol	1.4	U	ng/L	P400511	
		Dieldrin	1.4	I	ng/L	P400511	
		Endosulfan I	0.44	U	ng/L	P400511	
		Endosulfan II	0.44	U	ng/L	P400511	
		Endosulfan Sulfate	0.33	U	ng/L	P400511	
		Endrin	0.44	U	ng/L	P400511	
		Endrin Aldehyde	0.82	U	ng/L	P400511	
		Endrin Ketone	0.44	U	ng/L	P400511	
		Esfenvalerate**	0.82	UJ	ng/L	P400511	RPD
		Ethalfuralin**	0.16	U	ng/L	P400511	
		Fenpropathrin**	0.27	U	ng/L	P400511	
		Gamma-BHC	0.14	U	ng/L	P400511	
		Gamma-Chlordane	0.22	U	ng/L	P400511	

Field ID: G2CE0242

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2258448	EPA 8270E	Heptachlor	0.22	U	ng/L	P400511	
		Heptachlor Epoxide	0.27	U	ng/L	P400511	
		Hexachlorobenzene	1.1	U	ng/L	P400511	
		Kepone**	36	J	ng/L	P400511	MS, RPD
		Lambda-Cyhalothrin**	0.82	U	ng/L	P400511	RPD
		Methoxychlor	0.33	U	ng/L	P400511	
		MGK-264**	0.22	U	ng/L	P400511	
		Mirex	0.33	UJ	ng/L	P400511	LCS, RPD
		Permethrin	1.7	U	ng/L	P400511	
		Phenothrin**	0.98	UJ	ng/L	P400511	RPD
		Piperonyl Butoxide**	0.16	U	ng/L	P400511	
		Prallethrin**	2.2	U	ng/L	P400511	
		Tau-Fluvalinate**	0.27	UJ	ng/L	P400511	RPD
		Tetramethrin**	0.82	U	ng/L	P400511	
		Trans-Nonachlor**	0.22	U	ng/L	P400511	
		Triclosan Methyl**	0.16	U	ng/L	P400511	
		Trifluralin	0.22	U	ng/L	P400511	
		Chlordane	5.4	U	ng/L	P400511	
		Toxaphene	33	U	ng/L	P400511	
	EPA 8276						
2258449	EPA 8270E	Acetochlor	0.25	U	ng/L	P400417	
		Alachlor	0.25	U	ng/L	P400417	
		Ametryn	0.59	U	ng/L	P400417	
		Atrazine	0.86	I	ng/L	P400417	
		Atrazine Desethyl	1.8	I	ng/L	P400417	
		Azinphos Methyl	2.0	U	ng/L	P400417	
		Azoxystrobin**	0.49	U	ng/L	P400417	
		Bromacil	0.49	U	ng/L	P400417	
		Butylate	0.39	U	ng/L	P400417	
		Caffeine**	7.4	U	ng/L	P400417	
		Carbophenothion	0.49	U	ng/L	P400417	
		Carfentrazone Ethyl**	0.098	U	ng/L	P400417	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P400417	
		Chlorpyrifos Methyl	0.049	U	ng/L	P400417	
		Cyanazine	3.2	U	ng/L	P400417	
		Demeton	1.5	U	ng/L	P400417	
		Diazinon	0.12	U	ng/L	P400417	
		Difenoconazole**	0.59	U	ng/L	P400417	
		Dimethenamid**	0.098	U	ng/L	P400417	
		Disulfoton	0.49	U	ng/L	P400417	
		Dithiopyr**	0.17	U	ng/L	P400417	
		EPTC	1.2	U	ng/L	P400417	
		Ethion	0.15	UJ	ng/L	P400417	RPD
		Ethoprop	0.098	U	ng/L	P400417	
		Fenamiphos	0.49	U	ng/L	P400417	
		Fenbuconazole**	0.12	U	ng/L	P400417	

Field ID: G2CE0242

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2258449	EPA 8270E	Fipronil	0.25	U	ng/L	P400417	RPD
		Fipronil Desulfinyl**	0.12	U	ng/L	P400417	
		Fipronil Sulfide	0.15	U	ng/L	P400417	
		Fipronil Sulfone	0.55	I	ng/L	P400417	
		Fluazifop-P-butyl**	0.098	U	ng/L	P400417	
		Fludioxonil**	0.12	U	ng/L	P400417	
		Flumioxazin**	1.7	U	ng/L	P400417	
		Flutolanil**	0.12	I	ng/L	P400417	
		Fluxapyroxad**	0.098	U	ng/L	P400417	
		Fonofos	0.20	U	ng/L	P400417	
		Hexazinone	0.49	U	ng/L	P400417	
		Imazalil**	0.74	U	ng/L	P400417	
		Iprodione**	0.59	U	ng/L	P400417	
		Malathion	0.34	U	ng/L	P400417	
		Metalaxyl	0.74	U	ng/L	P400417	
		Metolachlor	0.34	U	ng/L	P400417	
		Metribuzin	3.2	U	ng/L	P400417	
		Mevinphos	1.0	U	ng/L	P400417	
		Molinate	0.29	U	ng/L	P400417	
		Myclobutanil**	0.25	U	ng/L	P400417	
		Naled**	1.5	U	ng/L	P400417	
		Norflurazon	0.49	U	ng/L	P400417	
		Oxadiazon	0.29	U	ng/L	P400417	
		Oxyfluorfen**	0.15	U	ng/L	P400417	
		Parathion Ethyl	0.25	U	ng/L	P400417	
		Parathion Methyl	0.54	U	ng/L	P400417	
		Pendimethalin	0.98	U	ng/L	P400417	
		Phorate	0.52	U	ng/L	P400417	
		Prodiamine**	0.17	U	ng/L	P400417	
		Prometon	0.88	U	ng/L	P400417	
		Prometryn	0.20	U	ng/L	P400417	
		Pronamide**	0.15	U	ng/L	P400417	
		Propiconazole**	0.49	U	ng/L	P400417	
		Pyriproxyfen**	0.12	U	ng/L	P400417	
		Simazine	0.49	U	ng/L	P400417	
		Sulfentrazone**	26		ng/L	P400417	
		Tebuconazole**	0.49	U	ng/L	P400417	
		Terbufos	0.098	U	ng/L	P400417	
		Terbuthylazine	0.42	U	ng/L	P400417	

Ref. Method and Comment:

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

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

Sample Location: FB_06302021

Collection Date/Time: 06/30/2021 12:15

Field ID: FB_06302021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2258444	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P400481	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P400719	
		Sulfate	0.20	U	mg SO4/L	P400721	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P400485	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P400782	
	SM 2540 C-2011	TDS	15	U	mg/L	P400831	
	SM 2540 D-2011	TSS	2	U	mg/L	P400834	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P400786	
2258445	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P400874	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P401334	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P400512	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P400529	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P400822	
2258446	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P400464	
2258450	EPA 8270E	Aldrin	0.70	U	ng/L	P400511	
		Alpha-BHC	0.11	U	ng/L	P400511	
		Alpha-Chlordane	0.22	U	ng/L	P400511	
		Beta-BHC	0.11	U	ng/L	P400511	
		Beta-Cyfluthrin**	1.3	U	ng/L	P400511	
		Bifenthrin**	0.54	U	ng/L	P400511	
		Chlorothalonil	0.72	I	ng/L	P400511	
		Cis-Nonachlor**	0.22	U	ng/L	P400511	
		Cypermethrin	1.6	U	ng/L	P400511	
		Dacthal**	0.16	U	ng/L	P400511	
		DDD-p,p'	0.27	U	ng/L	P400511	
		DDE-p,p'	0.22	U	ng/L	P400511	
		DDT-p,p'	0.27	U	ng/L	P400511	
		Delta-BHC	0.43	U	ng/L	P400511	
		Deltamethrin**	1.3	U	ng/L	P400511	
		Dichlobenil**	0.11	U	ng/L	P400511	
		Dicofol	1.3	U	ng/L	P400511	
		Dieldrin	0.43	U	ng/L	P400511	
		Endosulfan I	0.43	U	ng/L	P400511	
		Endosulfan II	0.43	U	ng/L	P400511	
		Endosulfan Sulfate	0.32	U	ng/L	P400511	
		Endrin	0.43	U	ng/L	P400511	
		Endrin Aldehyde	0.81	U	ng/L	P400511	
		Endrin Ketone	0.43	U	ng/L	P400511	
		Esfenvalerate**	0.81	UJ	ng/L	P400511	RPD
		Ethalfuralin**	0.16	U	ng/L	P400511	
		Fenpropathrin**	0.27	U	ng/L	P400511	
		Gamma-BHC	0.13	U	ng/L	P400511	
		Gamma-Chlordane	0.22	U	ng/L	P400511	

Field ID: FB_06302021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2258450	EPA 8270E	Heptachlor	0.22	U	ng/L	P400511	
		Heptachlor Epoxide	0.27	U	ng/L	P400511	
		Hexachlorobenzene	1.1	U	ng/L	P400511	
		Kepone**	5.4	UJ	ng/L	P400511	MS, RPD
		Lambda-Cyhalothrin**	0.81	U	ng/L	P400511	RPD
		Methoxychlor	0.32	U	ng/L	P400511	
		MGK-264**	0.22	U	ng/L	P400511	
		Mirex	0.32	UJ	ng/L	P400511	LCS, RPD
		Permethrin	1.7	U	ng/L	P400511	
		Phenothrin**	0.97	UJ	ng/L	P400511	RPD
		Piperonyl Butoxide**	0.16	U	ng/L	P400511	
		Prallethrin**	2.2	U	ng/L	P400511	
		Tau-Fluvalinate**	0.27	UJ	ng/L	P400511	RPD
		Tetramethrin**	0.81	U	ng/L	P400511	
		Trans-Nonachlor**	0.22	U	ng/L	P400511	
		Triclosan Methyl**	0.16	U	ng/L	P400511	
		Trifluralin	0.22	U	ng/L	P400511	
		Chlordane	5.4	U	ng/L	P400511	
		Toxaphene	32	U	ng/L	P400511	
	EPA 8276						
2258451	EPA 8270E	Acetochlor	0.29	U	ng/L	P400417	
		Alachlor	0.29	U	ng/L	P400417	
		Ametryn	0.69	U	ng/L	P400417	
		Atrazine	0.29	U	ng/L	P400417	
		Atrazine Desethyl	1.7	U	ng/L	P400417	
		Azinphos Methyl	2.3	U	ng/L	P400417	
		Azoxystrobin**	0.57	U	ng/L	P400417	
		Bromacil	0.57	U	ng/L	P400417	
		Butylate	0.46	U	ng/L	P400417	
		Caffeine**	8.6	U	ng/L	P400417	
		Carbophenothion	0.57	U	ng/L	P400417	
		Carfentrazone Ethyl**	0.11	U	ng/L	P400417	
		Chlorpyrifos Ethyl	0.29	U	ng/L	P400417	
		Chlorpyrifos Methyl	0.057	U	ng/L	P400417	
		Cyanazine	3.7	U	ng/L	P400417	
		Demeton	1.7	U	ng/L	P400417	
		Diazinon	0.14	U	ng/L	P400417	
		Difenoconazole**	0.69	U	ng/L	P400417	
		Dimethenamid**	0.11	U	ng/L	P400417	
		Disulfoton	0.57	U	ng/L	P400417	
		Dithiopyr**	0.20	U	ng/L	P400417	
		EPTC	1.4	U	ng/L	P400417	
		Ethion	0.17	UJ	ng/L	P400417	RPD
		Ethoprop	0.11	U	ng/L	P400417	
		Fenamiphos	0.57	U	ng/L	P400417	
		Fenbuconazole**	0.14	U	ng/L	P400417	

Field ID: FB_06302021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2258451	EPA 8270E	Fipronil	0.29	U	ng/L	P400417	
		Fipronil Desulfinyl**	0.14	U	ng/L	P400417	
		Fipronil Sulfide	0.17	U	ng/L	P400417	
		Fipronil Sulfone	0.17	U	ng/L	P400417	
		Fluazifop-P-butyl**	0.11	U	ng/L	P400417	
		Fludioxonil**	0.14	U	ng/L	P400417	
		Flumioxazin**	2.0	U	ng/L	P400417	
		Flutolanil**	0.11	U	ng/L	P400417	
		Fluxapyroxad**	0.11	U	ng/L	P400417	
		Fonofos	0.23	U	ng/L	P400417	
		Hexazinone	0.57	U	ng/L	P400417	
		Imazalil**	0.86	U	ng/L	P400417	
		Iprodione**	0.69	U	ng/L	P400417	
		Malathion	0.40	U	ng/L	P400417	
		Metalaxyl	0.86	U	ng/L	P400417	
		Metolachlor	0.40	U	ng/L	P400417	
		Metribuzin	3.7	U	ng/L	P400417	
		Mevinphos	1.2	U	ng/L	P400417	
		Molinate	0.34	U	ng/L	P400417	
		Myclobutanil**	0.29	U	ng/L	P400417	
		Naled**	1.7	U	ng/L	P400417	
		Norflurazon	0.57	U	ng/L	P400417	
		Oxadiazon	0.34	U	ng/L	P400417	
		Oxyfluorfen**	0.17	U	ng/L	P400417	
		Parathion Ethyl	0.29	U	ng/L	P400417	
		Parathion Methyl	0.63	U	ng/L	P400417	
		Pendimethalin	1.1	U	ng/L	P400417	
		Phorate	0.60	U	ng/L	P400417	
		Prodiamine**	0.20	U	ng/L	P400417	RPD
		Prometon	1.0	U	ng/L	P400417	
		Prometryn	0.23	U	ng/L	P400417	
		Pronamide**	0.17	U	ng/L	P400417	
		Propiconazole**	0.57	U	ng/L	P400417	
		Pyriproxyfen**	0.14	U	ng/L	P400417	
		Simazine	0.57	U	ng/L	P400417	
		Sulfentrazone**	0.57	U	ng/L	P400417	
		Tebuconazole**	0.57	U	ng/L	P400417	
		Terbufos	0.11	U	ng/L	P400417	
		Terbuthylazine	0.49	U	ng/L	P400417	

Ref. Method and Comment:

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: P400481

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400719

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400721

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P400874

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P401334

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P400512

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P400529

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P400464

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

Reference Method: EPA 8270E
Batch ID: P400417

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: P400417

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
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
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	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
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
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 Desulfanyl	0.12	U	ng/L
Fipronil Desulfanyl	0.12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P400417

Component	Result	Code	Units
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
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
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
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P400417

Component	Result	Code	Units
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	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
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

Reference Method: EPA 8270E

Batch ID: P400511

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P400511

Component	Result	Code	Units
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
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
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	0.30	U	ng/L
Mirex	0.30	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P400511

Component	Result	Code	Units
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: P400511

Component	Result	Code	Units
Chlordane	5.0	U	ng/L
Chlordane	5.0	U	ng/L
Toxaphene	30	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: SM 2120 B-2011

Batch ID: P400485

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011

Batch ID: P400782

Component	Result	Code	Units
Total Alkalinity	0.72	I	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011

Batch ID: P400831

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P400834

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500 F-C-2011
Batch ID: P400786

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P400822

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: P400719

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400721

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P400874

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P401334

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.7		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P400512

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P400529

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P400464

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

Reference Method: EPA 8270E
Batch ID: P400417

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	99.4	121	P/P	70 - 121
Alachlor	93.4	115	P/P	70 - 119
Ametryn	95.9	116	P/P	61 - 135
Atrazine	94.6	119	P/P	76 - 123
Atrazine Desethyl	53.4	71.9	P/P	35 - 140
Azinphos Methyl	116	125	P/P	57 - 163
Azoxystrobin	96.2	111	P/P	43 - 231
Bromacil	79.3	96.3	P/P	42 - 123
Butylate	49.7	61.3	P/P	34 - 92.0
Caffeine	91.0	101	P/P	70 - 130

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P400417

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbophenothion	104	103	P/P	61 - 121
Carfentrazone Ethyl	102	117	P/P	62 - 139
Chlorpyrifos Ethyl	92.1	101	P/P	67 - 121
Chlorpyrifos Methyl	95.3	103	P/P	67 - 120
Cyanazine	93.7	108	P/P	20 - 226
Demeton	40.2	47.4	P/P	35 - 125
Diazinon	98.4	121	P/P	70 - 122
Difenoconazole	150	146	P/P	56 - 186
Dimethenamid	80.5	84.5	P/P	67 - 119
Disulfoton	92.4	102	P/P	47 - 120
Dithiopyr	93.7	110	P/P	67 - 118
EPTC	50.1	60.0	P/P	33 - 90.0
Ethion	89.7	46.5	P/P	40 - 133
Ethoprop	87.0	101	P/P	61 - 121
Fenamiphos	96.6	93.1	P/P	31 - 139
Fenbuconazole	118	139	P/P	66 - 141
Fipronil	99.6	113	P/P	62 - 129
Fipronil Desulfinyl	108	121	P/P	59 - 126
Fipronil Sulfide	92.5	97.4	P/P	63 - 117
Fipronil Sulfone	92.0	88.8	P/P	57 - 117
Fluazifop-P-butyl	98.9	109	P/P	63 - 124
Fludioxonil	104	114	P/P	63 - 123
Flumioxazin	148	137	P/P	34 - 245
Flutolanil	98.2	98.9	P/P	56 - 131
Fluxapyroxad	89.9	93.3	P/P	57 - 117
Fonofos	84.1	96.9	P/P	61 - 116
Hexazinone	95.2	103	P/P	55 - 138
Imazalil	99.9	109	P/P	33 - 143
Iprodione	91.2	99.5	P/P	59 - 118
Malathion	100	110	P/P	62 - 138
Metalaxyl	91.6	116	P/P	24 - 147
Metolachlor	94.1	117	P/P	68 - 118
Metribuzin	93.5	125	P/P	20 - 239
Mevinphos	80.6	95.8	P/P	46 - 124
Molinate	66.1	83.9	P/P	46 - 100
Myclobutanil	96.9	101	P/P	32 - 149
Naled	47.0	53.1	P/P	32 - 95.0
Norflurazon	96.2	109	P/P	57 - 127
Oxadiazon	88.5	99.7	P/P	63 - 118
Oxyfluorfen	108	97.8	P/P	69 - 137
Parathion Ethyl	95.7	98.8	P/P	70 - 113
Parathion Methyl	101	115	P/P	71 - 130
Pendimethalin	100	97.9	P/P	55 - 118
Phorate	82.4	94.0	P/P	46 - 125
Prodiamine	101	111	P/P	20 - 141
Prometon	88.0	105	P/P	54 - 122
Prometryn	92.2	105	P/P	66 - 124
Pronamide	96.2	122	P/P	79 - 122
Propiconazole	93.2	100	P/P	61 - 126
Pyriproxyfen	86.3	71.0	P/P	52 - 131
Simazine	90.5	115	P/P	75 - 128
Sulfentrazone	70.6	87.1	P/P	20 - 132

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P400417

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Tebuconazole	76.0	59.2	P/P	20 - 116
Terbufos	105	114	P/P	61 - 117
Terbutylazine	94.2	113	P/P	74 - 116

Reference Method: EPA 8270E
Batch ID: P400511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	47.3	36.3	P/P	20 - 150
Alpha-BHC	85.7	88.0	P/P	50 - 150
Alpha-Chlordane	70.4	66.1	P/P	50 - 150
Beta-BHC	104	100	P/P	50 - 150
Beta-Cyfluthrin	118	89.4	P/P	50 - 150
Bifenthrin	66.5	53.5	P/P	40 - 150
Chlorothalonil	138	126	P/P	20 - 150
Cis-Nonachlor	63.8	62.6	P/P	50 - 150
Cypermethrin	107	84.3	P/P	50 - 150
Dacthal	93.7	91.2	P/P	50 - 150
DDD-p,p'	70.0	70.0	P/P	50 - 150
DDE-p,p'	67.6	65.8	P/P	50 - 150
DDT-p,p'	69.4	63.7	P/P	50 - 150
Delta-BHC	119	116	P/P	50 - 150
Deltamethrin	101	76.3	P/P	50 - 150
Dichlobenil	78.4	70.0	P/P	40 - 150
Dicofol	76.8	72.0	P/P	50 - 150
Dieldrin	80.2	75.6	P/P	50 - 150
Endosulfan I	81.1	77.1	P/P	50 - 150
Endosulfan II	85.3	92.0	P/P	50 - 150
Endosulfan Sulfate	94.7	88.3	P/P	50 - 150
Endrin	75.0	76.7	P/P	50 - 150
Endrin Aldehyde	73.8	73.8	P/P	50 - 150
Endrin Ketone	87.1	83.8	P/P	50 - 150
Esfenvalerate	115	84.1	P/P	50 - 180
Ethalfuralin	71.9	66.1	P/P	50 - 150
Fenpropathrin	82.3	76.3	P/P	50 - 150
Gamma-BHC	101	82.8	P/P	50 - 150
Gamma-Chlordane	66.1	62.4	P/P	50 - 150
Heptachlor	63.0	53.2	P/P	50 - 150
Heptachlor Epoxide	79.7	75.0	P/P	50 - 150
Hexachlorobenzene	59.9	50.7	P/P	50 - 150
Kepone	114	81.3	P/P	30 - 180
Lambda-Cyhalothrin	127	97.2	P/P	50 - 200
Methoxychlor	102	91.3	P/P	50 - 150
MGK-264	83.8	86.8	P/P	30 - 150
Mirex	45.4	33.4	F/F	50 - 180
Permethrin	96.8	77.3	P/P	50 - 150
Phenothrin	57.4	33.7	P/P	20 - 150
Piperonyl Butoxide	102	104	P/P	50 - 150
Prallethrin	73.0	76.4	P/P	30 - 150
Tau-Fluvalinate	84.0	59.9	P/P	40 - 150
Tetramethrin	87.3	85.6	P/P	30 - 150
Trans-Nonachlor	65.3	62.9	P/P	50 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P400511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclosan Methyl	81.8	76.3	P/P	50 - 150
Trifluralin	71.0	64.2	P/P	50 - 150

Reference Method: EPA 8276

Batch ID: P400511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	74.8	85.9	P/P	47 - 128
Toxaphene	57.5	71.7	P/P	11 - 163

Reference Method: SM 2120 B-2011

Batch ID: P400485

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.9		P	85 - 115

Reference Method: SM 2320 B-2011

Batch ID: P400782

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	94 - 106

Reference Method: SM 4500 F-C-2011

Batch ID: P400786

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

Reference Method: SM 5310 B-2011

Batch ID: P400822

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400719

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2258042	Chloride	97.4		P	90 - 110
2258179	Chloride	98.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400721

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2258042	Sulfate	95.6		P	90 - 110
2258179	Sulfate	98.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P400874

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2257754	Ammonia-N	94.6	94.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P401334

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2258442	Kjeldahl Nitrogen	94.3	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P400512

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2258433	NO2NO3-N	98.8	98.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P400529

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2258094	Total-P	102	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P400464

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2258434	O-Phosphate-P	96.1	97.1	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P400417

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2257580	Acetochlor	95.1	103	P/P	66 - 122
2257580	Alachlor	92.9	96.6	P/P	65 - 122
2257580	Ametryn	132	143	P/P	45 - 173
2257580	Azinphos Methyl	114	98.6	P/P	44 - 174
2257580	Bromacil	73.7	77.4	P/P	31 - 145
2257580	Butylate	48.8	48.1	P/P	15 - 97.0
2257580	Caffeine	104	125	P/P	70 - 130
2257580	Carbophenothion	81.7	88.8	P/P	42 - 129

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P400417

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2257580	Carfentrazone Ethyl	86.3	94.4	P/P	62 - 145
2257580	Chlorpyrifos Ethyl	83.5	89.5	P/P	60 - 124
2257580	Chlorpyrifos Methyl	83.8	89.6	P/P	66 - 119
2257580	Cyanazine	92.2	99.7	P/P	17 - 225
2257580	Demeton	43.5	44.5	P/P	36 - 142
2257580	Diazinon	100	103	P/P	70 - 128
2257580	Difenoconazole	137	151	P/P	33 - 222
2257580	Dimethenamid	74.2	78.6	P/P	54 - 125
2257580	Disulfoton	87.3	88.6	P/P	49 - 133
2257580	Dithiopyr	87.3	92.1	P/P	55 - 123
2257580	EPTC	47.7	48.3	P/P	19 - 91.0
2257580	Ethion	49.6	58.7	P/P	13 - 143
2257580	Ethoprop	87.2	88.4	P/P	49 - 144
2257580	Fenamiphos	97.0	88.6	P/P	32 - 136
2257580	Fenbuconazole	110	116	P/P	73 - 148
2257580	Fipronil	93.6	94.0	P/P	57 - 129
2257580	Fipronil Desulfinyl	98.3	104	P/P	49 - 127
2257580	Fipronil Sulfide	74.9	78.1	P/P	44 - 127
2257580	Fipronil Sulfone	81.1	71.5	P/P	35 - 126
2257580	Fluazifop-P-butyl	86.1	95.1	P/P	67 - 129
2257580	Fludioxonil	90.8	94.2	P/P	61 - 126
2257580	Flumioxazin	147	162	P/P	38 - 279
2257580	Flutolanil	79.5	90.2	P/P	55 - 136
2257580	Fonofos	82.1	84.1	P/P	58 - 125
2257580	Hexazinone	91.9	96.4	P/P	57 - 148
2257580	Imazalil	134	128	P/P	10 - 221
2257580	Iprodione	79.9	83.8	P/P	32 - 140
2257580	Malathion	97.8	102	P/P	52 - 138
2257580	Metalaxyl	90.9	95.8	P/P	46 - 134
2257580	Metolachlor	88.1	95.1	P/P	58 - 122
2257580	Metribuzin	116	107	P/P	16 - 272
2257580	Mevinphos	81.1	79.5	P/P	45 - 140
2257580	Molinate	67.0	65.9	P/P	41 - 103
2257580	Myclobutanil	86.2	103	P/P	60 - 134
2257580	Naled	40.8	37.2	P/P	20 - 113
2257580	Norflurazon	88.3	88.2	P/P	51 - 123
2257580	Oxadiazon	80.4	91.8	P/P	44 - 125
2257580	Oxyfluorfen	96.9	100	P/P	66 - 176
2257580	Parathion Ethyl	87.0	91.7	P/P	57 - 132
2257580	Parathion Methyl	99.8	99.8	P/P	59 - 156
2257580	Pendimethalin	96.4	104	P/P	59 - 129
2257580	Phorate	80.3	82.6	P/P	47 - 136
2257580	Prodiamine	85.3	121	P/P	10 - 159
2257580	Prometon	85.5	94.4	P/P	59 - 127
2257580	Prometryn	87.8	95.3	P/P	59 - 129
2257580	Pronamide	95.1	108	P/P	65 - 145
2257580	Propiconazole	84.4	92.7	P/P	28 - 165
2257580	Pyriproxyfen	60.4	68.8	P/P	21 - 180
2257580	Simazine	99.1	102	P/P	63 - 147
2257580	Tebuconazole	53.9	63.4	P/P	10 - 117
2257580	Terbufos	107	111	P/P	61 - 131
2257580	Terbutylazine	98.0	93.8	P/P	62 - 126

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P400511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2259722	Aldrin	47.9	46.4	P/P	20 - 170
2259722	Alpha-BHC	85.8	87.1	P/P	50 - 170
2259722	Alpha-Chlordane	65.9	68.3	P/P	50 - 170
2259722	Beta-BHC	105	104	P/P	50 - 170
2259722	Beta-Cyfluthrin	101	124	P/P	50 - 170
2259722	Bifenthrin	67.5	70.6	P/P	40 - 170
2259722	Chlorothalonil	143	135	P/P	20 - 170
2259722	Cis-Nonachlor	60.4	67.4	P/P	50 - 170
2259722	Cypermethrin	100	119	P/P	50 - 170
2259722	Dacthal	89.2	90.0	P/P	50 - 170
2259722	DDD-p,p'	64.2	65.8	P/P	50 - 170
2259722	DDE-p,p'	63.6	61.8	P/P	50 - 170
2259722	DDT-p,p'	63.4	61.8	P/P	50 - 170
2259722	Delta-BHC	126	125	P/P	50 - 170
2259722	Deltamethrin	97.7	118	P/P	50 - 170
2259722	Dichlobenil	72.7	73.9	P/P	40 - 170
2259722	Dicofol	66.9	68.3	P/P	50 - 170
2259722	Dieldrin	72.4	72.9	P/P	50 - 170
2259722	Endosulfan I	73.6	70.7	P/P	50 - 170
2259722	Endosulfan II	82.5	87.1	P/P	50 - 170
2259722	Endosulfan Sulfate	82.6	93.8	P/P	50 - 170
2259722	Endrin	69.9	72.2	P/P	50 - 170
2259722	Endrin Aldehyde	68.8	75.3	P/P	50 - 170
2259722	Endrin Ketone	83.6	91.0	P/P	50 - 170
2259722	Esfenvalerate	91.8	122	P/P	50 - 180
2259722	Ethalfuralin	64.2	61.9	P/P	50 - 170
2259722	Fenpropathrin	75.8	80.4	P/P	50 - 170
2259722	Gamma-BHC	95.9	98.7	P/P	50 - 170
2259722	Gamma-Chlordane	65.9	65.6	P/P	50 - 170
2259722	Heptachlor	56.8	57.9	P/P	50 - 170
2259722	Heptachlor Epoxide	73.5	75.9	P/P	50 - 170
2259722	Hexachlorobenzene	58.5	53.1	P/P	50 - 170
2259722	Kepone	19.8	27.9	F/F	30 - 180
2259722	Lambda-Cyhalothrin	103	148	P/P	50 - 200
2259722	Methoxychlor	90.2	90.7	P/P	50 - 170
2259722	MGK-264	78.7	81.7	P/P	30 - 170
2259722	Mirex	52.7	53.2	P/P	50 - 180
2259722	Permethrin	77.9	88.8	P/P	50 - 170
2259722	Phenothrin	62.3	57.5	P/P	20 - 170
2259722	Piperonyl Butoxide	89.4	93.8	P/P	50 - 170
2259722	Prallethrin	70.1	73.8	P/P	30 - 170
2259722	Tau-Fluvalinate	84.1	87.4	P/P	40 - 170
2259722	Tetramethrin	84.9	85.3	P/P	30 - 170
2259722	Trans-Nonachlor	63.7	64.6	P/P	50 - 170
2259722	Triclosan Methyl	70.2	72.6	P/P	50 - 170
2259722	Trifluralin	63.0	61.9	P/P	50 - 170

Reference Method: EPA 8276

Batch ID: P400511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2259760	Chlordane	83.2	99.0	P/P	47 - 128

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P400511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2259760	Toxaphene	77.1	78.6	P/P	11 - 163

Reference Method: SM 4500 F-C-2011
Batch ID: P400786

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2258566	Fluoride	99.4	98.8	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P400822

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2258043	Organic Carbon	100	99.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P400481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258468	Turbidity	0.243	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400719

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258042	Chloride	0.430	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P400721

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258042	Sulfate	0.389	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P400874

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258433	Ammonia-N	0.694	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P401334

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258442	Kjeldahl Nitrogen	3.27	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P400512

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258433	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P400529

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258094	Total-P	2.22	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P400464

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258434	O-Phosphate-P	1.04	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P400417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2257580	Acetochlor	8.28	Spike	P	0 - 30
2257580	Alachlor	3.95	Spike	P	0 - 30
2257580	Ametryn	7.73	Spike	P	0 - 30
2257580	Atrazine	2.59	Spike	P	0 - 30
2257580	Atrazine Desethyl	0.879	Spike	P	0 - 30
2257580	Azinphos Methyl	14.7	Spike	P	0 - 30
2257580	Azoxystrobin	2.62	Spike	P	0 - 30
2257580	Bromacil	3.96	Spike	P	0 - 30
2257580	Butylate	1.31	Spike	P	0 - 30
2257580	Caffeine	12.3	Spike	P	0 - 30
2257580	Carbophenothion	8.33	Spike	P	0 - 30
2257580	Carfentrazone Ethyl	8.89	Spike	P	0 - 30
2257580	Chlorpyrifos Ethyl	6.95	Spike	P	0 - 30
2257580	Chlorpyrifos Methyl	6.68	Spike	P	0 - 30
2257580	Cyanazine	7.91	Spike	P	0 - 30
2257580	Demeton	2.26	Spike	P	0 - 30
2257580	Diazinon	2.61	Spike	P	0 - 30
2257580	Difenoconazole	10.1	Spike	P	0 - 30
2257580	Dimethenamid	5.80	Spike	P	0 - 30
2257580	Disulfoton	1.55	Spike	P	0 - 30
2257580	Dithiopyr	4.67	Spike	P	0 - 30
2257580	EPTC	1.07	Spike	P	0 - 30
2257580	Ethion	16.8	Spike	P	0 - 30
2257580	Ethoprop	1.38	Spike	P	0 - 30
2257580	Fenamiphos	9.08	Spike	P	0 - 30
2257580	Fenbuconazole	5.55	Spike	P	0 - 30
2257580	Fipronil	0.244	Spike	P	0 - 30
2257580	Fipronil Desulfinyl	3.87	Spike	P	0 - 30
2257580	Fipronil Sulfide	2.81	Spike	P	0 - 30
2257580	Fipronil Sulfone	5.50	Spike	P	0 - 30
2257580	Fluazifop-P-butyl	9.86	Spike	P	0 - 30
2257580	Fludioxonil	3.70	Spike	P	0 - 30
2257580	Flumioxazin	6.88	Spike	P	0 - 30
2257580	Flutolanil	12.7	Spike	P	0 - 30
2257580	Fluxapyroxad	5.28	Spike	P	0 - 30
2257580	Fonofos	2.48	Spike	P	0 - 30
2257580	Hexazinone	4.75	Spike	P	0 - 30
2257580	Imazalil	4.03	Spike	P	0 - 30
2257580	Iprodione	4.73	Spike	P	0 - 30
2257580	Malathion	4.14	Spike	P	0 - 30
2257580	Metalaxyl	5.24	Spike	P	0 - 30
2257580	Metolachlor	6.91	Spike	P	0 - 30
2257580	Metribuzin	8.46	Spike	P	0 - 30
2257580	Mevinphos	2.02	Spike	P	0 - 30
2257580	Molinate	1.63	Spike	P	0 - 30
2257580	Myclobutanil	17.6	Spike	P	0 - 30
2257580	Naled	9.23	Spike	P	0 - 30
2257580	Norflurazon	0.0864	Spike	P	0 - 30
2257580	Oxadiazon	6.42	Spike	P	0 - 30
2257580	Oxyfluorfen	3.42	Spike	P	0 - 30
2257580	Parathion Ethyl	5.30	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P400417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2257580	Parathion Methyl	0.0395	Spike	P	0 - 30
2257580	Pendimethalin	7.25	Spike	P	0 - 30
2257580	Phorate	2.80	Spike	P	0 - 30
2257580	Prodiamine	34.3	Spike	F	0 - 30
2257580	Prometon	9.87	Spike	P	0 - 30
2257580	Prometryn	8.15	Spike	P	0 - 30
2257580	Pronamide	12.6	Spike	P	0 - 30
2257580	Propiconazole	9.40	Spike	P	0 - 30
2257580	Pyriproxyfen	12.9	Spike	P	0 - 30
2257580	Simazine	1.32	Spike	P	0 - 30
2257580	Sulfentrazone	9.44	Spike	P	0 - 30
2257580	Tebuconazole	16.3	Spike	P	0 - 30
2257580	Terbufos	3.19	Spike	P	0 - 30
2257580	Terbutylazine	4.38	Spike	P	0 - 30
LFB	Acetochlor	19.3	LCS	P	0 - 30
LFB	Alachlor	20.3	LCS	P	0 - 30
LFB	Ametryn	18.9	LCS	P	0 - 30
LFB	Atrazine	23.1	LCS	P	0 - 30
LFB	Atrazine Desethyl	29.6	LCS	P	0 - 30
LFB	Azinphos Methyl	6.79	LCS	P	0 - 30
LFB	Azoxystrobin	14.4	LCS	P	0 - 30
LFB	Bromacil	19.3	LCS	P	0 - 30
LFB	Butylate	20.9	LCS	P	0 - 30
LFB	Caffeine	10.3	LCS	P	0 - 30
LFB	Carbophenothion	0.925	LCS	P	0 - 30
LFB	Carfentrazone Ethyl	13.6	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	9.14	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	7.42	LCS	P	0 - 30
LFB	Cyanazine	13.8	LCS	P	0 - 30
LFB	Demeton	16.4	LCS	P	0 - 30
LFB	Diazinon	20.9	LCS	P	0 - 30
LFB	Difenoconazole	2.72	LCS	P	0 - 30
LFB	Dimethenamid	4.74	LCS	P	0 - 30
LFB	Disulfoton	10.3	LCS	P	0 - 30
LFB	Dithiopyr	16.2	LCS	P	0 - 30
LFB	EPTC	18.1	LCS	P	0 - 30
LFB	Ethion	63.4	LCS	F	0 - 30
LFB	Ethoprop	14.9	LCS	P	0 - 30
LFB	Fenamiphos	3.68	LCS	P	0 - 30
LFB	Fenbuconazole	15.9	LCS	P	0 - 30
LFB	Fipronil	13.0	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	11.4	LCS	P	0 - 30
LFB	Fipronil Sulfide	5.20	LCS	P	0 - 30
LFB	Fipronil Sulfone	3.57	LCS	P	0 - 30
LFB	Fluazifop-P-butyl	10.1	LCS	P	0 - 30
LFB	Fludioxonil	9.07	LCS	P	0 - 30
LFB	Flumioxazin	7.76	LCS	P	0 - 30
LFB	Flutolanil	0.635	LCS	P	0 - 30
LFB	Fluxapyroxad	3.77	LCS	P	0 - 30
LFB	Fonofos	14.2	LCS	P	0 - 30
LFB	Hexazinone	8.34	LCS	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P400417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Imazalil	8.97	LCS	P	0 - 30
LFB	Iprodione	8.75	LCS	P	0 - 30
LFB	Malathion	9.18	LCS	P	0 - 30
LFB	Metalaxyl	23.3	LCS	P	0 - 30
LFB	Metolachlor	21.4	LCS	P	0 - 30
LFB	Metribuzin	28.6	LCS	P	0 - 30
LFB	Mevinphos	17.3	LCS	P	0 - 30
LFB	Molinate	23.8	LCS	P	0 - 30
LFB	Myclobutanil	4.32	LCS	P	0 - 30
LFB	Naled	12.2	LCS	P	0 - 30
LFB	Norflurazon	12.3	LCS	P	0 - 30
LFB	Oxadiazon	11.9	LCS	P	0 - 30
LFB	Oxyfluorfen	10.1	LCS	P	0 - 30
LFB	Parathion Ethyl	3.14	LCS	P	0 - 30
LFB	Parathion Methyl	12.7	LCS	P	0 - 30
LFB	Pendimethalin	2.21	LCS	P	0 - 30
LFB	Phorate	13.2	LCS	P	0 - 30
LFB	Prodiamine	9.34	LCS	P	0 - 30
LFB	Prometon	18.0	LCS	P	0 - 30
LFB	Prometryn	13.4	LCS	P	0 - 30
LFB	Pronamide	23.4	LCS	P	0 - 30
LFB	Propiconazole	7.25	LCS	P	0 - 30
LFB	Pyriproxyfen	19.4	LCS	P	0 - 30
LFB	Simazine	23.8	LCS	P	0 - 30
LFB	Sulfentrazone	20.9	LCS	P	0 - 30
LFB	Tebuconazole	24.9	LCS	P	0 - 30
LFB	Terbufos	8.39	LCS	P	0 - 30
LFB	Terbutylazine	18.0	LCS	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P400511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2259722	Aldrin	3.04	Spike	P	0 - 30
2259722	Alpha-BHC	1.55	Spike	P	0 - 30
2259722	Alpha-Chlordane	3.58	Spike	P	0 - 30
2259722	Beta-BHC	0.961	Spike	P	0 - 30
2259722	Beta-Cyfluthrin	20.0	Spike	P	0 - 30
2259722	Bifenthrin	4.47	Spike	P	0 - 30
2259722	Chlorothalonil	5.70	Spike	P	0 - 50
2259722	Cis-Nonachlor	10.9	Spike	P	0 - 30
2259722	Cypermethrin	17.3	Spike	P	0 - 30
2259722	Dacthal	0.832	Spike	P	0 - 30
2259722	DDD-p,p'	2.50	Spike	P	0 - 30
2259722	DDE-p,p'	2.83	Spike	P	0 - 30
2259722	DDT-p,p'	2.58	Spike	P	0 - 30
2259722	Delta-BHC	0.459	Spike	P	0 - 30
2259722	Deltamethrin	18.6	Spike	P	0 - 30
2259722	Dichlobenil	1.64	Spike	P	0 - 30
2259722	Dicofol	2.14	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P400511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2259722	Dieldrin	0.544	Spike	P	0 - 30
2259722	Endosulfan I	3.97	Spike	P	0 - 30
2259722	Endosulfan II	5.46	Spike	P	0 - 30
2259722	Endosulfan Sulfate	12.6	Spike	P	0 - 30
2259722	Endrin	3.23	Spike	P	0 - 30
2259722	Endrin Aldehyde	9.03	Spike	P	0 - 30
2259722	Endrin Ketone	8.43	Spike	P	0 - 30
2259722	Esfenvalerate	27.9	Spike	P	0 - 30
2259722	Ethalfuralin	3.71	Spike	P	0 - 30
2259722	Fenpropathrin	6.00	Spike	P	0 - 30
2259722	Gamma-BHC	2.79	Spike	P	0 - 30
2259722	Gamma-Chlordane	0.444	Spike	P	0 - 30
2259722	Heptachlor	2.02	Spike	P	0 - 30
2259722	Heptachlor Epoxide	3.22	Spike	P	0 - 30
2259722	Hexachlorobenzene	9.61	Spike	P	0 - 30
2259722	Kepone	2.05	Spike	P	0 - 30
2259722	Lambda-Cyhalothrin	35.8	Spike	F	0 - 30
2259722	Methoxychlor	0.565	Spike	P	0 - 30
2259722	MGK-264	3.78	Spike	P	0 - 30
2259722	Mirex	0.991	Spike	P	0 - 30
2259722	Permethrin	13.0	Spike	P	0 - 30
2259722	Phenothrin	8.03	Spike	P	0 - 30
2259722	Piperonyl Butoxide	4.90	Spike	P	0 - 30
2259722	Prallethrin	5.18	Spike	P	0 - 30
2259722	Tau-Fluvalinate	3.78	Spike	P	0 - 30
2259722	Tetramethrin	0.415	Spike	P	0 - 30
2259722	Trans-Nonachlor	1.50	Spike	P	0 - 30
2259722	Triclosan Methyl	3.27	Spike	P	0 - 30
2259722	Trifluralin	1.70	Spike	P	0 - 30
LFB	Aldrin	26.3	LCS	P	0 - 30
LFB	Alpha-BHC	2.61	LCS	P	0 - 30
LFB	Alpha-Chlordane	6.38	LCS	P	0 - 30
LFB	Beta-BHC	3.73	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	28.0	LCS	P	0 - 30
LFB	Bifenthrin	21.6	LCS	P	0 - 30
LFB	Chlorothalonil	9.55	LCS	P	0 - 50
LFB	Cis-Nonachlor	1.93	LCS	P	0 - 30
LFB	Cypermethrin	23.5	LCS	P	0 - 30
LFB	Dacthal	2.75	LCS	P	0 - 30
LFB	DDD-p,p'	0.107	LCS	P	0 - 30
LFB	DDE-p,p'	2.74	LCS	P	0 - 30
LFB	DDT-p,p'	8.54	LCS	P	0 - 30
LFB	Delta-BHC	2.27	LCS	P	0 - 30
LFB	Deltamethrin	27.5	LCS	P	0 - 30
LFB	Dichlobenil	11.4	LCS	P	0 - 30
LFB	Dicofol	6.45	LCS	P	0 - 30
LFB	Dieldrin	5.91	LCS	P	0 - 30
LFB	Endosulfan I	5.05	LCS	P	0 - 30
LFB	Endosulfan II	7.64	LCS	P	0 - 30
LFB	Endosulfan Sulfate	7.00	LCS	P	0 - 30
LFB	Endrin	2.27	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P400511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Endrin Aldehyde	0.0106	LCS	P	0 - 30
LFB	Endrin Ketone	3.91	LCS	P	0 - 30
LFB	Esfenvalerate	31.3	LCS	F	0 - 30
LFB	Ethalfuralin	8.44	LCS	P	0 - 30
LFB	Fenpropathrin	7.57	LCS	P	0 - 30
LFB	Gamma-BHC	19.4	LCS	P	0 - 30
LFB	Gamma-Chlordane	5.63	LCS	P	0 - 30
LFB	Heptachlor	16.8	LCS	P	0 - 30
LFB	Heptachlor Epoxide	6.08	LCS	P	0 - 30
LFB	Hexachlorobenzene	16.6	LCS	P	0 - 30
LFB	Kepone	33.9	LCS	F	0 - 30
LFB	Lambda-Cyhalothrin	26.5	LCS	P	0 - 30
LFB	Methoxychlor	11.3	LCS	P	0 - 30
LFB	MGK-264	3.44	LCS	P	0 - 30
LFB	Mirex	30.2	LCS	F	0 - 30
LFB	Permethrin	22.3	LCS	P	0 - 30
LFB	Phenothrin	52.1	LCS	F	0 - 30
LFB	Piperonyl Butoxide	1.80	LCS	P	0 - 30
LFB	Prallethrin	4.54	LCS	P	0 - 30
LFB	Tau-Fluvalinate	33.5	LCS	F	0 - 30
LFB	Tetramethrin	2.01	LCS	P	0 - 30
LFB	Trans-Nonachlor	3.85	LCS	P	0 - 30
LFB	Triclosan Methyl	7.00	LCS	P	0 - 30
LFB	Trifluralin	10.1	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P400511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2259760	Chlordane	17.3	Spike	P	0 - 30
2259760	Toxaphene	1.83	Spike	P	0 - 30
LFB	Chlordane	13.8	LCS	P	0 - 30
LFB	Toxaphene	22.0	LCS	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P400485

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258469	Color (true)	0.873	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P400782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258566	Total Alkalinity	1.54	Sample	P	0 - 5.2

Quality Assurance Report Precision

Reference Method: SM 2540 C-2011
Batch ID: P400831

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258506	TDS	4.82	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P400834

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258506	TSS	6.67	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P400786

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258566	Fluoride	0.506	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P400822

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2258043	Organic Carbon	0.401	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2258448
Field Sample ID: G2CE0242

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	76.0	P	35 - 120
EPA 8270E	Tetrachloro-m-xylene	60.7	P	30 - 110
EPA 8276	Decachlorobiphenyl	64.6	P	29 - 92.0
EPA 8276	PCNB	104	P	43 - 134

Lab Sample ID: 2258449
Field Sample ID: G2CE0242

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	61.3	P	20 - 200
EPA 8270E	Simazine-d10	102	P	73 - 135
EPA 8270E	Terbufos-d10	95.8	P	58 - 130

Lab Sample ID: 2258450
Field Sample ID: FB_06302021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	96.7	P	35 - 120
EPA 8270E	Tetrachloro-m-xylene	52.7	P	30 - 110
EPA 8276	Decachlorobiphenyl	70.1	P	29 - 92.0
EPA 8276	PCNB	97.3	P	43 - 134

Lab Sample ID: 2258451
Field Sample ID: FB_06302021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	74.4	P	20 - 200
EPA 8270E	Simazine-d10	106	P	73 - 135
EPA 8270E	Terbufos-d10	102	P	58 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A106399

Included Lab Sample IDs: 2258443, 2258446

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.4	98.6	P/P	90 - 110
O-Phosphate-P	99.9	98.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A106410

Included Lab Sample IDs: 2258441, 2258444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	99.5	P/P	95 - 105

Reference Method: SM 2120 B-2011

Run ID: A106412

Included Lab Sample IDs: 2258441, 2258444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	101	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A106426

Included Lab Sample IDs: 2258442, 2258445

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A106455

Included Lab Sample IDs: 2258442

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A106459

Included Lab Sample IDs: 2258445

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	98.8	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A106481

Included Lab Sample IDs: 2258441, 2258444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.7	98.8	P/P	90 - 110
Sulfate	98.4	98.6	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A106499

Included Lab Sample IDs: 2258449, 2258451

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

Reference Method: EPA 8270E

Run ID: A106499

Included Lab Sample IDs: 2258449, 2258451

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	104		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine	97.8		P	80 - 120
Atrazine Desethyl	106		P	80 - 120
Azinphos Methyl	107		P	80 - 120
Azoxystrobin	97.6		P	80 - 120
Bromacil	100		P	80 - 120
Butylate	93.0		P	80 - 120
Caffeine	95.1		P	80 - 120
Carbophenothion	97.2		P	80 - 120
Carfentrazone Ethyl	102		P	80 - 120
Chlorpyrifos Ethyl	100		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Cyanazine	109		P	80 - 120
Demeton	98.2		P	80 - 120
Diazinon	97.3		P	80 - 120
Difenoconazole	92.2		P	80 - 120
Dimethenamid	101		P	80 - 120
Disulfoton	98.2		P	80 - 120
Dithiopyr	102		P	80 - 120
EPTC	100		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	103		P	80 - 120
Fenamiphos	101		P	80 - 120
Fenbuconazole	102		P	80 - 120
Fipronil	102		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	99.0		P	80 - 120
Fipronil Sulfone	98.3		P	80 - 120
Fluazifop-P-butyl	98.7		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	96.1		P	80 - 120
Flutolanil	100		P	80 - 120
Fluxapyroxad	97.0		P	80 - 120
Fonofos	99.8		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	99.7		P	80 - 120
Iprodione	103		P	80 - 120
Malathion	99.2		P	80 - 120
Metaxyl	106		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	93.7		P	80 - 120
Mevinphos	100		P	80 - 120
Molinate	98.9		P	80 - 120
Myclobutanil	101		P	80 - 120
Naled	103		P	80 - 120
Norflurazon	104		P	80 - 120
Oxadiazon	99.3		P	80 - 120
Oxyfluorfen	95.5		P	80 - 120
Parathion Ethyl	97.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A106499

Included Lab Sample IDs: 2258449, 2258451

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Parathion Methyl	96.1		P	80 - 120
Pendimethalin	96.5		P	80 - 120
Phorate	98.6		P	80 - 120
Prodiamine	101		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	94.8		P	80 - 120
Propiconazole	98.3		P	80 - 120
Pyriproxyfen	102		P	80 - 120
Simazine	108		P	80 - 120
Sulfentrazone	95.7		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	98.1		P	80 - 120
Terbutylazine	98.8		P	80 - 120

Reference Method: EPA 8270E

Run ID: A106521

Included Lab Sample IDs: 2258448, 2258450

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.0		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	103		P	80 - 120
Beta-Cyfluthrin	105		P	80 - 120
Bifenthrin	101		P	80 - 120
Chlorothalonil	113		P	80 - 120
Cis-Nonachlor	90.3		P	80 - 120
Cypermethrin	95.7		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	88.5		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	94.2		P	80 - 120
Delta-BHC	111		P	80 - 120
Deltamethrin	103		P	80 - 120
Dichlobenil	95.7		P	80 - 120
Dicofol	99.9		P	80 - 120
Dieldrin	106		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	94.8		P	80 - 120
Endosulfan Sulfate	88.9		P	80 - 120
Endrin	91.0		P	80 - 120
Endrin Aldehyde	95.1		P	80 - 120
Endrin Ketone	88.9		P	80 - 120
Esfenvalerate	102		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	97.1		P	80 - 120
Gamma-BHC	105		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	103		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A106521

Included Lab Sample IDs: 2258448, 2258450

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexachlorobenzene	99.3		P	80 - 120
Kepone	97.8		P	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoxychlor	112		P	80 - 120
MGK-264	106		P	80 - 120
Mirex	89.9		P	80 - 120
Permethrin	94.0		P	80 - 120
Phenothrin	95.8		P	80 - 120
Piperonyl Butoxide	93.9		P	80 - 120
Prallethrin	108		P	80 - 120
Tau-Fluvalinate	97.3		P	80 - 120
Tetramethrin	107		P	80 - 120
Trans-Nonachlor	102		P	80 - 120
Triclosan Methyl	99.6		P	80 - 120
Trifluralin	97.8		P	80 - 120

Reference Method: EPA 8276

Run ID: A106532

Included Lab Sample IDs: 2258448, 2258450

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Toxaphene	96.2		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A106546

Included Lab Sample IDs: 2258441, 2258444

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	102	P/P	90 - 110
Total Alkalinity	102	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A106546

Included Lab Sample IDs: 2258441, 2258444

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

Reference Method: SM 5310 B-2011

Run ID: A106565

Included Lab Sample IDs: 2258442, 2258445

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	100	99.8	P/P	90 - 110
Organic Carbon	99.8	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A106584

Included Lab Sample IDs: 2258442, 2258445

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.0	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A106788

Included Lab Sample IDs: 2258442, 2258445

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	107	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						0.243	
EPA 300.0 Rev. 2.1	Chloride	99.5		97.4	98.4		0.430	
	Sulfate	99.4		95.6	98.2		0.389	
EPA 350.1 Rev. 2.0	Ammonia-N	99.2		94.6	94.2			0.694
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.7		94.3	98.0			3.27
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101		98.8	98.8			0.0
EPA 365.1 Rev. 2.0	Total-P	102		102	105			2.22
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.8		96.1	97.1			1.04
EPA 8270E	Acetochlor	99.4	121	95.1	103	19.3		8.28
	Alachlor	93.4	115	92.9	96.6	20.3		3.95
	Aldrin	36.3	47.3	47.9	46.4	26.3		3.04
	Alpha-BHC	88.0	85.7	85.8	87.1	2.61		1.55
	Alpha-Chlordane	66.1	70.4	65.9	68.3	6.38		3.58
	Ametryn	95.9	116	132	143	18.9		7.73
	Atrazine	94.6	119			23.1		2.59
	Atrazine Desethyl	53.4	71.9			29.6		0.879
	Azinphos Methyl	116	125	114	98.6	6.79		14.7
	Azoxystrobin	96.2	111			14.4		2.62
	Beta-BHC	100	104	105	104	3.73		0.961
	Beta-Cyfluthrin	89.4	118	101	124	28.0		20.0
	Bifenthrin	53.5	66.5	67.5	70.6	21.6		4.47
	Bromacil	79.3	96.3	73.7	77.4	19.3		3.96
	Butylate	49.7	61.3	48.8	48.1	20.9		1.31
	Caffeine	91.0	101	104	125	10.3		12.3
	Carbophenothion	104	103	81.7	88.8	0.925		8.33
	Carfentrazone Ethyl	102	117	86.3	94.4	13.6		8.89
	Chlorothalonil	126	138	143	135	9.55		5.70
	Chlorpyrifos Ethyl	92.1	101	83.5	89.5	9.14		6.95
	Chlorpyrifos Methyl	95.3	103	83.8	89.6	7.42		6.68
	Cis-Nonachlor	62.6	63.8	60.4	67.4	1.93		10.9
	Cyanazine	93.7	108	92.2	99.7	13.8		7.91
	Cypermethrin	84.3	107	100	119	23.5		17.3
	Dacthal	91.2	93.7	89.2	90.0	2.75		0.832
	DDD-p,p'	70.0	70.0	64.2	65.8	0.107		2.50
	DDE-p,p'	65.8	67.6	63.6	61.8	2.74		2.83
	DDT-p,p'	63.7	69.4	63.4	61.8	8.54		2.58
	Delta-BHC	116	119	126	125	2.27		0.459
	Deltamethrin	76.3	101	97.7	118	27.5		18.6
	Demeton	40.2	47.4	43.5	44.5	16.4		2.26
	Diazinon	98.4	121	100	103	20.9		2.61
	Dichlobenil	70.0	78.4	72.7	73.9	11.4		1.64
	Dicofol	72.0	76.8	66.9	68.3	6.45		2.14
	Dieldrin	75.6	80.2	72.4	72.9	5.91		0.544
	Difenoconazole	150	146	137	151	2.72		10.1
	Dimethenamid	80.5	84.5	74.2	78.6	4.74		5.80
	Disulfoton	92.4	102	87.3	88.6	10.3		1.55
	Dithiopyr	93.7	110	87.3	92.1	16.2		4.67
	Endosulfan I	77.1	81.1	73.6	70.7	5.05		3.97
	Endosulfan II	92.0	85.3	82.5	87.1	7.64		5.46
	Endosulfan Sulfate	88.3	94.7	82.6	93.8	7.00		12.6
	Endrin	76.7	75.0	69.9	72.2	2.27		3.23
	Endrin Aldehyde	73.8	73.8	68.8	75.3	0.0106		9.03
	Endrin Ketone	83.8	87.1	83.6	91.0	3.91		8.43
	EPTC	50.1	60.0	47.7	48.3	18.1		1.07

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Esfenvalerate	84.1	115	91.8	122	31.3	27.9
	Ethalfuralin	66.1	71.9	64.2	61.9	8.44	3.71
	Ethion	89.7	46.5	49.6	58.7	63.4	16.8
	Ethoprop	87.0	101	87.2	88.4	14.9	1.38
	Fenamiphos	96.6	93.1	97.0	88.6	3.68	9.08
	Fenbuconazole	118	139	110	116	15.9	5.55
	Fenpropathrin	76.3	82.3	75.8	80.4	7.57	6.00
	Fipronil	99.6	113	93.6	94.0	13.0	0.244
	Fipronil Desulfinyl	108	121	98.3	104	11.4	3.87
	Fipronil Sulfide	92.5	97.4	74.9	78.1	5.20	2.81
	Fipronil Sulfone	92.0	88.8	81.1	71.5	3.57	5.50
	Fluazifop-P-butyl	98.9	109	86.1	95.1	10.1	9.86
	Fludioxonil	104	114	90.8	94.2	9.07	3.70
	Flumioxazin	148	137	147	162	7.76	6.88
	Flutolanil	98.2	98.9	79.5	90.2	0.635	12.7
	Fluxapyroxad	89.9	93.3			3.77	5.28
	Fonofos	84.1	96.9	82.1	84.1	14.2	2.48
	Gamma-BHC	82.8	101	95.9	98.7	19.4	2.79
	Gamma-Chlordane	62.4	66.1	65.9	65.6	5.63	0.444
	Heptachlor	53.2	63.0	56.8	57.9	16.8	2.02
	Heptachlor Epoxide	75.0	79.7	73.5	75.9	6.08	3.22
	Hexachlorobenzene	50.7	59.9	58.5	53.1	16.6	9.61
	Hexazinone	95.2	103	91.9	96.4	8.34	4.75
	Imazalil	99.9	109	134	128	8.97	4.03
	Iprodione	91.2	99.5	79.9	83.8	8.75	4.73
	Kepone	81.3	114	19.8	27.9	33.9	2.05
	Lambda-Cyhalothrin	97.2	127	103	148	26.5	35.8
	Malathion	100	110	97.8	102	9.18	4.14
	Metalaxyl	91.6	116	90.9	95.8	23.3	5.24
	Methoxychlor	91.3	102	90.2	90.7	11.3	0.565
	Metolachlor	94.1	117	88.1	95.1	21.4	6.91
	Metribuzin	93.5	125	116	107	28.6	8.46
	Mevinphos	80.6	95.8	81.1	79.5	17.3	2.02
	MGK-264	86.8	83.8	78.7	81.7	3.44	3.78
	Mirex	45.4	33.4	52.7	53.2	30.2	0.991
	Molinate	66.1	83.9	67.0	65.9	23.8	1.63
	Myclobutanil	96.9	101	86.2	103	4.32	17.6
	Naled	47.0	53.1	40.8	37.2	12.2	9.23
	Norflurazon	96.2	109	88.3	88.2	12.3	0.0864
	Oxadiazon	88.5	99.7	80.4	91.8	11.9	6.42
	Oxyfluorfen	108	97.8	96.9	100	10.1	3.42
	Parathion Ethyl	95.7	98.8	87.0	91.7	3.14	5.30
	Parathion Methyl	101	115	99.8	99.8	12.7	0.0395
	Pendimethalin	100	97.9	96.4	104	2.21	7.25
	Permethrin	96.8	77.3	77.9	88.8	22.3	13.0
	Phenothrin	57.4	33.7	62.3	57.5	52.1	8.03
	Phorate	82.4	94.0	80.3	82.6	13.2	2.80
	Piperonyl Butoxide	102	104	89.4	93.8	1.80	4.90
	Prallethrin	73.0	76.4	70.1	73.8	4.54	5.18
	Prodiamine	101	111	85.3	121	9.34	34.3
	Prometon	88.0	105	85.5	94.4	18.0	9.87
	Prometryn	92.2	105	87.8	95.3	13.4	8.15
	Pronamide	96.2	122	95.1	108	23.4	12.6
	Propiconazole	93.2	100	84.4	92.7	7.25	9.40

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Pyriproxyfen	86.3	71.0	60.4	68.8	19.4	12.9
	Simazine	90.5	115	99.1	102	23.8	1.32
	Sulfentrazone	70.6	87.1			20.9	9.44
	Tau-Fluvalinate	84.0	59.9	84.1	87.4	33.5	3.78
	Tebuconazole	76.0	59.2	53.9	63.4	24.9	16.3
	Terbufos	105	114	107	111	8.39	3.19
	Terbuthylazine	94.2	113	98.0	93.8	18.0	4.38
	Tetramethrin	87.3	85.6	84.9	85.3	2.01	0.415
	Trans-Nonachlor	65.3	62.9	63.7	64.6	3.85	1.50
	Triclosan Methyl	81.8	76.3	70.2	72.6	7.00	3.27
	Trifluralin	71.0	64.2	63.0	61.9	10.1	1.70
EPA 8276	Chlordane	74.8	85.9	83.2	99.0	13.8	17.3
	Toxaphene	57.5	71.7	77.1	78.6	22.0	1.83
SM 2120 B-2011	Color (true)	99.9				0.873	
SM 2320 B-2011	Total Alkalinity	102				1.54	
SM 2540 C-2011	TDS					4.82	
SM 2540 D-2011	TSS					6.67	
SM 4500 F-C-2011	Fluoride	100		99.4	98.8		0.506
SM 5310 B-2011	Organic Carbon	98.5		100	99.8		0.401

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2258441, 2258444
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2258441, 2258444
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2258441, 2258444
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2258442, 2258445
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2258442, 2258445
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2258442, 2258445
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2258442, 2258445
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2258443, 2258446
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2258448, 2258450
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2258449, 2258451
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2258448, 2258450
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2258441, 2258444
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2258441, 2258444
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2258441, 2258444
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2258441, 2258444
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2258441, 2258444
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2258442, 2258445

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	07/01/2021			07/01/2021 16:21	Sarah A Nixon	2258441, 2258444
EPA 300.0 Rev. 2.1	07/01/2021			07/08/2021 18:41	Lipi Saha	2258441
	07/01/2021			07/08/2021 18:53	Lipi Saha	2258444
EPA 350.1 Rev. 2.0	07/01/2021			07/13/2021 13:24	Roberta Tatti	2258442
	07/01/2021			07/13/2021 13:32	Roberta Tatti	2258445
EPA 351.2 Rev. 2.0	07/01/2021	07/21/2021 14:12	Benjamin T. Nordmann	07/22/2021 18:32	Letuzia M De Oliveira	2258442
	07/01/2021	07/21/2021 14:12	Benjamin T. Nordmann	07/22/2021 18:37	Letuzia M De Oliveira	2258445
EPA 353.2 Rev. 2.0	07/01/2021			07/02/2021 08:43	Beverly Y. Sanders	2258442
	07/01/2021			07/02/2021 08:44	Beverly Y. Sanders	2258445
EPA 365.1 Rev. 2.0	07/01/2021	07/02/2021 14:09	Madeline Gruver	07/06/2021 11:12	Shengyu Ding	2258442
	07/01/2021	07/02/2021 14:09	Madeline Gruver	07/06/2021 13:38	Shengyu Ding	2258445
EPA 365.1 Rev. 2.0 dissolved	07/01/2021			07/01/2021 14:53	Ping Hua	2258443
	07/01/2021			07/01/2021 15:04	Ping Hua	2258446
EPA 8270E	07/01/2021	07/02/2021 08:00	Fe-Val Siddell	07/03/2021 19:34	Michael Poppell	2258449
	07/01/2021	07/02/2021 08:00	Fe-Val Siddell	07/03/2021 19:59	Michael Poppell	2258451
	07/01/2021	07/06/2021 08:00	Fe-Val Siddell	07/08/2021 22:20	Arthur Maknenko	2258448
	07/01/2021	07/06/2021 08:00	Fe-Val Siddell	07/08/2021 22:49	Arthur Maknenko	2258450
EPA 8276	07/01/2021	07/06/2021 08:00	Fe-Val Siddell	07/09/2021 02:37	Chiran X. Ghimire	2258448
	07/01/2021	07/06/2021 08:00	Fe-Val Siddell	07/09/2021 03:32	Chiran X. Ghimire	2258450
SM 2120 B-2011	07/01/2021			07/01/2021 16:42	Sarah A Nixon	2258441
	07/01/2021			07/01/2021 16:43	Sarah A Nixon	2258444
SM 2320 B-2011	07/01/2021			07/10/2021 06:23	Dale L. Simmons	2258444
	07/01/2021			07/10/2021 09:06	Dale L. Simmons	2258441
SM 2540 C-2011	07/01/2021			07/06/2021 14:08	Yijie Li	2258441, 2258444
SM 2540 D-2011	07/01/2021			07/06/2021 14:08	Yijie Li	2258441, 2258444
SM 4500 F-C-2011	07/01/2021			07/10/2021 06:23	Dale L. Simmons	2258444
	07/01/2021			07/10/2021 09:06	Dale L. Simmons	2258441
SM 5310 B-2011	07/01/2021			07/09/2021 23:10	Madeline Gruver	2258442
	07/01/2021			07/09/2021 23:54	Madeline Gruver	2258445