

Chemical Analysis Report

SO-DIST-2021-09-21-01

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

Event Description: **2021 SMP: Peace River**
Request ID: **RQ-2021-09-20-53**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: William Mullen

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: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 18-OCT-2021 12:10



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: Peace River Above Horse Creek 2

Collection Date/Time: 09/20/2021 09:55

Field ID: G3SD0154

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2277057	EPA 180.1 Rev. 2.0	Turbidity	2.4	A	NTU	P404018	
	EPA 300.0 Rev. 2.1	Chloride	18	A	mg Cl/L	P404146	
		Sulfate	27	A	mg SO4/L	P404147	
	SM 2120 B-2011	Color (true)	290		PCU	P403991	
	SM 2320 B-2011	Total Alkalinity	46		mg CaCO3/L	P404101	
	SM 2540 C-2011	TDS	166		mg/L	P404556	
	SM 2540 D-2011	TSS	3	I	mg/L	P404548	
2277058	SM 4500 F-C-2011	Fluoride	0.39		mg F/L	P404106	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P404121	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P404037	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.33		mg N/L	P404041	
	EPA 365.1 Rev. 2.0	Total-P	0.59		mg P/L	P404051	
2277059	SM 5310 B-2011	Organic Carbon	27		mg C/L	P404200	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.51		mg P/L	P404008	
2277065	EPA 8321B	2,4-D	0.19		ug/L	P404055	
		Acesulfame K	0.10	U	ug/L	P404050	
		2,4,5-T	0.0040	U	ug/L	P404055	
		AMPA	0.77		ug/L	P404050	
		Acetaminophen	0.0080	U	ug/L	P404055	
		Acetamiprid	0.0020	U	ug/L	P404055	
		Endothall	0.25	U	ug/L	P404050	
		Glufosinate	0.10	U	ug/L	P404050	
		Glyphosate	1.1		ug/L	P404050	
		Afidopyropen	0.0020	U	ug/L	P404055	
		Bentazon	0.0024	I	ug/L	P404055	
		Sucralose	0.20		ug/L	P404050	
		Benzovindiflupyr	0.0020	U	ug/L	P404055	
		Carbamazepine	8.0E-04	U	ug/L	P404055	
		Clothianidin	0.022		ug/L	P404055	
		Dinotefuran	0.0055	I	ug/L	P404055	
		Diuron	0.085		ug/L	P404055	
		Fenuron	0.016	U	ug/L	P404055	
		Fluridone	0.0025	I	ug/L	P404055	
		Imazapyr	0.052		ug/L	P404055	
		Hydrocodone	0.0020	U	ug/L	P404055	
		Ibuprofen	0.020	U	ug/L	P404055	
		Imidacloprid	0.25		ug/L	P404055	MS
		Linuron	0.0040	U	ug/L	P404055	
		Mandestrobin	0.0020	U	ug/L	P404055	
		MCP	0.0020	U	ug/L	P404055	
		Naproxen	0.0080	U	ug/L	P404055	
		Primidone	0.0040	U	ug/L	P404055	
		Pyraclostrobin	0.0020	U	ug/L	P404055	

Field ID: G3SD0154

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2277065	EPA 8321B	Thiamethoxam	0.095		ug/L	P404055	MS
		Tolfenpyrad	0.0020	U	ug/L	P404055	
		Triclopyr	0.0040	U	ug/L	P404055	
2277067	EPA 8270E	Aldrin	0.70	U	ng/L	P404251	
		Alpha-BHC	0.11	U	ng/L	P404251	
		Alpha-Chlordane	0.22	U	ng/L	P404251	
		Beta-BHC	0.11	U	ng/L	P404251	
		Beta-Cyfluthrin**	1.3	U	ng/L	P404251	
		Bifenthrin**	0.54	U	ng/L	P404251	
		Chlorothalonil	1.0	I	ng/L	P404251	
		Cis-Nonachlor**	0.22	U	ng/L	P404251	
		Cypermethrin	1.6	U	ng/L	P404251	
		Dacthal**	0.16	U	ng/L	P404251	
		DDD-p,p'	0.27	U	ng/L	P404251	
		DDE-p,p'	0.22	U	ng/L	P404251	
		DDT-p,p'	0.27	U	ng/L	P404251	
		Delta-BHC	0.43	U	ng/L	P404251	
		Deltamethrin**	1.3	U	ng/L	P404251	
		Dichlobenil**	0.11	U	ng/L	P404251	
		Dicofol	1.3	U	ng/L	P404251	
		Dieldrin	0.49	I	ng/L	P404251	
		Endosulfan I	0.43	U	ng/L	P404251	
		Endosulfan II	0.43	UJ	ng/L	P404251	LCS, MS
		Endosulfan Sulfate	0.32	U	ng/L	P404251	
		Endrin	0.43	U	ng/L	P404251	
		Endrin Aldehyde	0.81	U	ng/L	P404251	
		Endrin Ketone	0.43	U	ng/L	P404251	
		Esfenvalerate**	0.81	U	ng/L	P404251	
		Ethalfuralin**	0.16	U	ng/L	P404251	
		Fenpropathrin**	0.27	U	ng/L	P404251	
		Gamma-BHC	0.13	U	ng/L	P404251	
		Gamma-Chlordane	0.22	U	ng/L	P404251	
		Heptachlor	0.22	U	ng/L	P404251	
		Heptachlor Epoxide	0.27	U	ng/L	P404251	
		Hexachlorobenzene	1.1	U	ng/L	P404251	
		Kepone**	5.4	UJ	ng/L	P404251	CCV
		Lambda-Cyhalothrin**	0.81	U	ng/L	P404251	
		Methoprene**	0.81	U	ng/L	P404251	
		Methoxychlor	0.32	U	ng/L	P404251	
		MGK-264**	0.22	U	ng/L	P404251	
		Mirex	0.75	U	ng/L	P404251	
		Oxychlordane**	0.32	U	ng/L	P404251	
		Permethrin	1.7	U	ng/L	P404251	
		Phenothrin**	0.97	U	ng/L	P404251	
		Piperonyl Butoxide**	0.17	I	ng/L	P404251	

Field ID: G3SD0154

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2277067	EPA 8270E	Prallethrin**	2.2	U	ng/L	P404251	
		Tau-Fluvalinate**	0.27	U	ng/L	P404251	
		Tetramethrin**	0.81	U	ng/L	P404251	
		Trans-Nonachlor**	0.22	U	ng/L	P404251	
		Triclosan Methyl**	0.16	U	ng/L	P404251	
		Trifluralin	0.22	U	ng/L	P404251	
2277068	EPA 8270E	Chlordane	2.7	U	ng/L	P404251	
		Toxaphene	16	U	ng/L	P404251	
		Acetochlor	0.24	U	ng/L	P404262	
		Alachlor	0.24	U	ng/L	P404262	
		Ametryn	0.57	U	ng/L	P404262	
		Atrazine	5.6		ng/L	P404262	
		Atrazine Desethyl	1.4	U	ng/L	P404262	
		Azinphos Methyl	1.9	U	ng/L	P404262	MS, RPD
		Azoxystrobin**	0.48	UJ	ng/L	P404262	CCV
		Bromacil	91		ng/L	P404262	
		Butylate	0.38	U	ng/L	P404262	
		Caffeine**	19	IV	ng/L	P404262	
		Carbophenothion	0.48	U	ng/L	P404262	
		Carfentrazone Ethyl**	0.095	U	ng/L	P404262	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P404262	
		Chlorpyrifos Methyl	0.048	U	ng/L	P404262	
		Cyanazine	3.1	U	ng/L	P404262	
		Demeton	1.4	U	ng/L	P404262	
		Diazinon	7.0		ng/L	P404262	
		Difenoconazole**	0.57	U	ng/L	P404262	
		Dimethenamid**	0.23	I	ng/L	P404262	
		Disulfoton	0.48	U	ng/L	P404262	
		Dithiopyr**	0.17	U	ng/L	P404262	
		EPTC	1.2	U	ng/L	P404262	
		Ethion	0.14	U	ng/L	P404262	
		Ethoprop	0.095	U	ng/L	P404262	
		Fenamiphos	0.48	U	ng/L	P404262	
		Fenbuconazole**	3.5	J	ng/L	P404262	LCS, MS
		Fipronil	0.24	U	ng/L	P404262	
		Fipronil Desulfinyl**	0.12	U	ng/L	P404262	
		Fipronil Sulfide	0.14	U	ng/L	P404262	
		Fipronil Sulfone	0.14	U	ng/L	P404262	
		Fluazifop-P-butyl**	0.095	U	ng/L	P404262	
		Fludioxonil**	0.12	U	ng/L	P404262	
		Flumioxazin**	1.7	U	ng/L	P404262	
		Flutolanil**	0.53		ng/L	P404262	
		Fluxapyroxad**	1.0	J	ng/L	P404262	LCS, MS
		Fonofos	0.19	U	ng/L	P404262	
		Hexazinone	660		ng/L	P404262	

Field ID: G3SD0154

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2277068	EPA 8270E	Imazalil**	0.71	U	ng/L	P404262	
		Iprodione**	0.57	U	ng/L	P404262	
		Malathion	0.33	U	ng/L	P404262	
		Metalaxyl	19		ng/L	P404262	
		Metolachlor	10		ng/L	P404262	
		Metribuzin	3.6	I	ng/L	P404262	
		Mevinphos	1.0	U	ng/L	P404262	
		Molinate	0.29	U	ng/L	P404262	
		Myclobutanil**	0.24	U	ng/L	P404262	
		Naled**	1.4	U	ng/L	P404262	
		Norflurazon	120		ng/L	P404262	
		Oxadiazon	0.29	U	ng/L	P404262	
		Oxyfluorfen**	0.14	U	ng/L	P404262	
		Parathion Ethyl	0.24	U	ng/L	P404262	
		Parathion Methyl	0.52	U	ng/L	P404262	
		Pendimethalin	0.95	U	ng/L	P404262	
		Phorate	0.50	U	ng/L	P404262	
		Prodiamine**	0.18	I	ng/L	P404262	
		Prometon	0.86	U	ng/L	P404262	
		Prometryn	0.19	U	ng/L	P404262	
		Pronamide**	0.14	U	ng/L	P404262	
		Propiconazole**	1.4	I	ng/L	P404262	
		Pyriproxyfen**	0.12	U	ng/L	P404262	
		Simazine	34		ng/L	P404262	
		Sulfentrazone**	7.7		ng/L	P404262	
		Tebuconazole**	0.48	U	ng/L	P404262	
		Terbufos	0.095	U	ng/L	P404262	
		Terbutylazine	0.41	U	ng/L	P404262	

Ref. Method and Comment:

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

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

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

EPA 8270E: MS accuracy for caffeine not assessed due to high content of this parameter in the sample spiked. V - Due to the presence of caffeine in both the Method Blank and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB

Collection Date/Time: 09/20/2021 10:45

Field ID: FB_09202021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2277060	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P404018	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P404146	
		Sulfate	0.20	U	mg SO4/L	P404147	
		Color (true)	2.5	U	PCU	P403991	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P404101	
	SM 2540 C-2011	TDS	15	U	mg/L	P404555	
	SM 2540 D-2011	TSS	2	U	mg/L	P404547	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P404106	
2277061	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P404121	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P404037	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P404041	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P404051	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P404200	
2277062	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P404008	
2277066	EPA 8321B	2,4-D	0.0020	U	ug/L	P404055	
		Acesulfame K	0.10	U	ug/L	P404050	
		2,4,5-T	0.0040	U	ug/L	P404055	
		AMPA	0.10	U	ug/L	P404050	
		Acetaminophen	0.0080	U	ug/L	P404055	
		Acetamiprid	0.0020	U	ug/L	P404055	
		Endothall	0.25	U	ug/L	P404050	
		Glufosinate	0.10	U	ug/L	P404050	
		Glyphosate	0.10	U	ug/L	P404050	
		Afidopyrophen	0.0020	U	ug/L	P404055	
		Bentazon	8.0E-04	U	ug/L	P404055	
		Sucralose	0.010	U	ug/L	P404050	
		Benzovindiflupyr	0.0020	U	ug/L	P404055	
		Carbamazepine	8.0E-04	U	ug/L	P404055	
		Clothianidin	0.0020	U	ug/L	P404055	
		Dinotefuran	0.0020	U	ug/L	P404055	
		Diuron	0.0020	U	ug/L	P404055	
		Fenuron	0.016	U	ug/L	P404055	
		Fluridone	8.0E-04	U	ug/L	P404055	
		Imazapyr	0.0040	U	ug/L	P404055	
		Hydrocodone	0.0020	U	ug/L	P404055	
		Ibuprofen	0.020	U	ug/L	P404055	
		Imidacloprid	0.0020	U	ug/L	P404055	MS
		Linuron	0.0040	U	ug/L	P404055	
		Mandestrobin	0.0020	U	ug/L	P404055	
		MCPP	0.0020	U	ug/L	P404055	
		Naproxen	0.0080	U	ug/L	P404055	
		Primidone	0.0040	U	ug/L	P404055	
		Pyraclostrobin	0.0020	U	ug/L	P404055	

Field ID: FB_09202021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2277066	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	P404055	MS
		Tolfenpyrad	0.0020	U	ug/L	P404055	
		Triclopyr	0.0040	U	ug/L	P404055	
2277069	EPA 8270E	Aldrin	0.76	U	ng/L	P404251	
		Alpha-BHC	0.12	U	ng/L	P404251	
		Alpha-Chlordane	0.23	U	ng/L	P404251	
		Beta-BHC	0.12	U	ng/L	P404251	
		Beta-Cyfluthrin**	1.5	U	ng/L	P404251	
		Bifenthrin**	0.58	U	ng/L	P404251	
		Chlorothalonil	0.57	UQ	ng/L	P404614	
		Cis-Nonachlor**	0.23	U	ng/L	P404251	
		Cypermethrin	1.7	U	ng/L	P404251	
		Dacthal**	0.17	U	ng/L	P404251	
		DDD-p,p'	0.29	U	ng/L	P404251	
		DDE-p,p'	0.23	U	ng/L	P404251	
		DDT-p,p'	0.29	U	ng/L	P404251	
		Delta-BHC	0.47	U	ng/L	P404251	
		Deltamethrin**	1.5	U	ng/L	P404251	
		Dichlobenil**	0.12	U	ng/L	P404251	
		Dicofol	1.5	U	ng/L	P404251	
		Dieldrin	0.47	U	ng/L	P404251	
		Endosulfan I	0.47	U	ng/L	P404251	
		Endosulfan II	0.47	UJ	ng/L	P404251	LCS, MS
		Endosulfan Sulfate	0.35	U	ng/L	P404251	
		Endrin	0.47	U	ng/L	P404251	
		Endrin Aldehyde	0.87	U	ng/L	P404251	
		Endrin Ketone	0.47	U	ng/L	P404251	
		Esfenvalerate**	0.87	U	ng/L	P404251	
		Ethalfuralin**	0.17	U	ng/L	P404251	
		Fenpropathrin**	0.29	U	ng/L	P404251	
		Gamma-BHC	0.15	U	ng/L	P404251	
		Gamma-Chlordane	0.23	U	ng/L	P404251	
		Heptachlor	0.23	U	ng/L	P404251	
		Heptachlor Epoxide	0.29	U	ng/L	P404251	
		Hexachlorobenzene	1.2	U	ng/L	P404251	
		Kepone**	5.8	UJ	ng/L	P404251	CCV
		Lambda-Cyhalothrin**	0.87	U	ng/L	P404251	
		Methoprene**	0.87	U	ng/L	P404251	
		Methoxychlor	0.35	U	ng/L	P404251	
		MGK-264**	0.23	U	ng/L	P404251	
		Mirex	0.81	U	ng/L	P404251	
		Oxychlordane**	0.35	U	ng/L	P404251	
		Permethrin	1.9	U	ng/L	P404251	
		Phenothrin**	1.0	U	ng/L	P404251	
		Piperonyl Butoxide**	0.17	UQ	ng/L	P404614	

Field ID: FB_09202021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2277069	EPA 8270E	Prallethrin**	2.3	U	ng/L	P404251	
		Tau-Fluvalinate**	0.29	U	ng/L	P404251	
		Tetramethrin**	0.87	U	ng/L	P404251	
		Trans-Nonachlor**	0.23	U	ng/L	P404251	
		Triclosan Methyl**	0.17	U	ng/L	P404251	
		Trifluralin	0.23	U	ng/L	P404251	
2277070	EPA 8270E	Chlordane	2.9	U	ng/L	P404251	
		Toxaphene	17	U	ng/L	P404251	
		Acetochlor	0.27	U	ng/L	P404262	
		Alachlor	0.27	U	ng/L	P404262	
		Ametryn	0.64	U	ng/L	P404262	
		Atrazine	0.27	U	ng/L	P404262	
		Atrazine Desethyl	1.6	U	ng/L	P404262	
		Azinphos Methyl	2.1	U	ng/L	P404262	MS, RPD
		Azoxystrobin**	0.53	UJ	ng/L	P404262	CCV
		Bromacil	0.53	U	ng/L	P404262	
		Butylate	0.42	U	ng/L	P404262	
		Caffeine**	8.0	U	ng/L	P404262	
		Carbophenothion	0.53	U	ng/L	P404262	
		Carfentrazone Ethyl**	0.11	U	ng/L	P404262	
		Chlorpyrifos Ethyl	0.27	U	ng/L	P404262	
		Chlorpyrifos Methyl	0.053	U	ng/L	P404262	
		Cyanazine	3.4	U	ng/L	P404262	
		Demeton	1.6	U	ng/L	P404262	
		Diazinon	0.13	U	ng/L	P404262	
		Difenoconazole**	0.64	U	ng/L	P404262	
		Dimethenamid**	0.11	U	ng/L	P404262	
		Disulfoton	0.53	U	ng/L	P404262	
		Dithiopyr**	0.19	U	ng/L	P404262	
		EPTC	1.3	U	ng/L	P404262	
		Ethion	0.16	U	ng/L	P404262	
		Ethoprop	0.11	U	ng/L	P404262	
		Fenamiphos	0.53	U	ng/L	P404262	
		Fenbuconazole**	0.13	UJ	ng/L	P404262	LCS, MS
		Fipronil	0.27	U	ng/L	P404262	
		Fipronil Desulfinyl**	0.13	U	ng/L	P404262	
		Fipronil Sulfide	0.16	U	ng/L	P404262	
		Fipronil Sulfone	0.16	U	ng/L	P404262	
		Fluazifop-P-butyl**	0.11	U	ng/L	P404262	
		Fludioxonil**	0.13	U	ng/L	P404262	
		Flumioxazin**	1.9	U	ng/L	P404262	
		Flutolanil**	0.11	U	ng/L	P404262	
		Fluxapyroxad**	0.11	UJ	ng/L	P404262	LCS, MS
		Fonofos	0.21	U	ng/L	P404262	
		Hexazinone	0.53	U	ng/L	P404262	

Field ID: FB_09202021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2277070	EPA 8270E	Imazalil**	0.80	U	ng/L	P404262	
		Iprodione**	0.64	U	ng/L	P404262	
		Malathion	0.37	U	ng/L	P404262	
		Metalaxyl	0.80	U	ng/L	P404262	
		Metolachlor	0.37	U	ng/L	P404262	
		Metribuzin	3.4	U	ng/L	P404262	
		Mevinphos	1.1	U	ng/L	P404262	
		Molinate	0.32	U	ng/L	P404262	
		Myclobutanil**	0.27	U	ng/L	P404262	
		Naled**	1.6	U	ng/L	P404262	
		Norflurazon	0.53	U	ng/L	P404262	
		Oxadiazon	0.32	U	ng/L	P404262	
		Oxyfluorfen**	0.16	U	ng/L	P404262	
		Parathion Ethyl	0.27	U	ng/L	P404262	
		Parathion Methyl	0.58	U	ng/L	P404262	
		Pendimethalin	1.1	U	ng/L	P404262	
		Phorate	0.56	U	ng/L	P404262	
		Prodiamine**	0.19	U	ng/L	P404262	
		Prometon	0.95	U	ng/L	P404262	
		Prometryn	0.21	U	ng/L	P404262	
		Pronamide**	0.16	U	ng/L	P404262	
		Propiconazole**	0.53	U	ng/L	P404262	
		Pyriproxyfen**	0.13	U	ng/L	P404262	
		Simazine	0.53	U	ng/L	P404262	
		Sulfentrazone**	0.53	U	ng/L	P404262	
		Tebuconazole**	0.53	U	ng/L	P404262	
		Terbufos	0.11	U	ng/L	P404262	
		Terbutylazine	0.45	U	ng/L	P404262	

Ref. Method and Comment:

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

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

EPA 8270E: Insufficient sample available for re-extraction to perform duplicate matrix spikes. Sample expired for preparation for chlorothalonil and piperonyl butoxide due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for caffeine not assessed due to high content of this parameter 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: P404018

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P404146

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P404147

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P404121

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P404037

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P404041

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P404051

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P404008

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

Reference Method: EPA 8270E
Batch ID: P404251

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P404251

Component	Result	Code	Units
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	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
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P404251

Component	Result	Code	Units
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	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 8270E

Batch ID: P404262

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
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P404262

Component	Result	Code	Units
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	14	I	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 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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P404262

Component	Result	Code	Units
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
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P404262

Component	Result	Code	Units
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
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8270E

Batch ID: P404614

Component	Result	Code	Units
Chlorothalonil	0.50	U	ng/L
Chlorothalonil	0.50	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L

Reference Method: EPA 8276

Batch ID: P404251

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

Reference Method: EPA 8321B

Batch ID: P404050

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P404055

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B-2011

Batch ID: P403991

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011

Batch ID: P404101

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

Reference Method: SM 2540 C-2011

Batch ID: P404555

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011

Batch ID: P404556

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P404547

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P404548

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P404106

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P404200

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: P404146

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

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P404147

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P404121

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P404037

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P404041

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P404051

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P404008

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

Reference Method: EPA 8270E
 Batch ID: P404251

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.8	60.3	P/P	20 - 83.0
Alpha-BHC	79.4	93.2	P/P	74 - 108
Alpha-Chlordane	71.8	83.1	P/P	53 - 109
Beta-BHC	97.3	105	P/P	64 - 139
Beta-Cyfluthrin	100	106	P/P	27 - 171
Bifenthrin	51.0	59.1	P/P	20 - 124
Chlorothalonil	101	109	P/P	20 - 182
Cis-Nonachlor	62.0	70.3	P/P	46 - 110
Cypermethrin	80.4	86.1	P/P	35 - 160
Dacthal	82.4	97.7	P/P	70 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P404251

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDD-p,p'	58.8	70.5	P/P	51 - 108
DDE-p,p'	72.6	85.0	P/P	51 - 104
DDT-p,p'	83.8	99.2	P/P	52 - 107
Delta-BHC	91.7	96.1	P/P	73 - 146
Deltamethrin	92.8	111	P/P	20 - 190
Dichlobenil	83.4	96.0	P/P	30 - 100
Dicofol	69.2	74.7	P/P	52 - 110
Dieldrin	70.8	84.8	P/P	57 - 111
Endosulfan I	69.2	84.6	P/P	61 - 106
Endosulfan II	55.8	64.4	F/P	57 - 122
Endosulfan Sulfate	70.4	82.5	P/P	58 - 122
Endrin	51.7	60.0	P/P	34 - 125
Endrin Aldehyde	60.7	72.3	P/P	40 - 120
Endrin Ketone	86.0	98.1	P/P	51 - 138
Esfenvalerate	78.7	86.9	P/P	20 - 193
Ethalfuralin	65.8	79.8	P/P	51 - 99.0
Fenpropathrin	69.6	72.3	P/P	40 - 116
Gamma-BHC	84.6	95.7	P/P	74 - 116
Gamma-Chlordane	64.9	76.8	P/P	49 - 105
Heptachlor	68.4	83.4	P/P	45 - 98.0
Heptachlor Epoxide	68.5	80.4	P/P	61 - 106
Hexachlorobenzene	67.4	77.0	P/P	41 - 96.0
Kepone	29.6	35.5	P/P	27 - 179
Lambda-Cyhalothrin	82.8	83.6	P/P	20 - 199
Methoprene	61.0	72.8	P/P	50 - 150
Methoxychlor	82.3	93.1	P/P	61 - 111
MGK-264	76.0	81.4	P/P	20 - 124
Mirex	48.6	58.8	P/P	20 - 199
Oxychlordane	63.4	77.6	P/P	50 - 150
Permethrin	74.4	79.3	P/P	31 - 155
Phenothrin	52.6	64.6	P/P	20 - 100
Piperonyl Butoxide	102	115	P/P	20 - 144
Prallethrin	71.4	70.7	P/P	20 - 103
Tau-Fluvalinate	69.2	85.2	P/P	24 - 133
Tetramethrin	81.5	88.8	P/P	20 - 116
Trans-Nonachlor	68.0	81.6	P/P	49 - 105
Triclosan Methyl	72.0	85.3	P/P	60 - 111
Trifluralin	67.4	77.1	P/P	53 - 97.0

Reference Method: EPA 8270E
Batch ID: P404262

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	89.1	88.0	P/P	70 - 121
Alachlor	77.5	77.1	P/P	70 - 119
Ametryn	76.6	78.2	P/P	61 - 135
Atrazine	92.7	93.2	P/P	76 - 123
Atrazine Desethyl	64.6	67.1	P/P	35 - 140
Azinphos Methyl	120	126	P/P	57 - 163
Azoxystrobin	109	112	P/P	43 - 231
Bromacil	88.4	88.3	P/P	42 - 123
Butylate	55.6	56.1	P/P	34 - 92.0

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P404262

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Caffeine	94.6	93.8	P/P	70 - 130
Carbophenothion	106	106	P/P	61 - 121
Carfentrazone Ethyl	100	95.4	P/P	62 - 139
Chlorpyrifos Ethyl	107	103	P/P	67 - 121
Chlorpyrifos Methyl	104	105	P/P	67 - 120
Cyanazine	106	105	P/P	20 - 226
Demeton	58.9	63.6	P/P	35 - 125
Diazinon	87.0	87.7	P/P	70 - 122
Difenoconazole	67.2	79.9	P/P	56 - 186
Dimethenamid	76.1	73.6	P/P	67 - 119
Disulfoton	64.5	79.5	P/P	47 - 120
Dithiopyr	77.4	77.3	P/P	67 - 118
EPTC	55.8	57.2	P/P	33 - 90.0
Ethion	106	101	P/P	40 - 133
Ethoprop	88.2	89.4	P/P	61 - 121
Fenamiphos	119	123	P/P	31 - 139
Fenbuconazole	150	148	F/F	66 - 141
Fipronil	93.7	95.5	P/P	62 - 129
Fipronil Desulfinyl	96.0	97.5	P/P	59 - 126
Fipronil Sulfide	105	103	P/P	63 - 117
Fipronil Sulfone	103	103	P/P	57 - 117
Fluazifop-P-butyl	87.2	87.8	P/P	63 - 124
Fludioxonil	88.8	82.9	P/P	63 - 123
Flumioxazin	109	123	P/P	34 - 245
Flutolanil	73.1	70.8	P/P	56 - 131
Fluxapyroxad	158	159	F/F	57 - 117
Fonofos	88.2	89.7	P/P	61 - 116
Hexazinone	97.8	99.8	P/P	55 - 138
Imazalil	87.5	74.1	P/P	33 - 143
Iprodione	92.7	98.7	P/P	59 - 118
Malathion	99.8	105	P/P	62 - 138
Metalaxyl	72.6	72.8	P/P	24 - 147
Metolachlor	82.9	81.0	P/P	68 - 118
Metribuzin	96.6	99.4	P/P	20 - 239
Mevinphos	92.6	96.3	P/P	46 - 124
Molinate	70.5	76.8	P/P	46 - 100
Myclobutanil	86.9	85.4	P/P	32 - 149
Naled	40.8	40.8	P/P	32 - 95.0
Norflurazon	99.5	100	P/P	57 - 127
Oxadiazon	75.7	73.9	P/P	63 - 118
Oxyfluorfen	94.2	95.2	P/P	69 - 137
Parathion Ethyl	87.8	92.9	P/P	70 - 113
Parathion Methyl	115	112	P/P	71 - 130
Pendimethalin	66.4	67.6	P/P	55 - 118
Phorate	79.0	85.5	P/P	46 - 125
Prodiamine	89.8	90.5	P/P	20 - 141
Prometon	76.1	74.4	P/P	54 - 122
Prometryn	69.9	68.1	P/P	66 - 124
Pronamide	81.9	80.6	P/P	79 - 122
Propiconazole	92.1	95.5	P/P	61 - 126
Pyriproxyfen	67.7	81.1	P/P	52 - 131
Simazine	94.7	92.0	P/P	75 - 128

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P404262

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfentrazone	125	124	P/P	20 - 132
Tebuconazole	55.0	58.8	P/P	20 - 116
Terbufos	101	108	P/P	61 - 117
Terbuthylazine	82.8	82.6	P/P	74 - 116

Reference Method: EPA 8270E
 Batch ID: P404614

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorothalonil	149	123	P/P	20 - 182
Piperonyl Butoxide	84.5	91.4	P/P	20 - 144

Reference Method: EPA 8276
 Batch ID: P404251

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	72.7	74.5	P/P	56 - 117
Toxaphene	76.5	77.1	P/P	45 - 116

Reference Method: EPA 8321B
 Batch ID: P404050

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.2		P	40 - 150
AMPA	97.4		P	40 - 160
Endothall	80.0		P	40 - 150
Glufosinate	93.8		P	40 - 160
Glyphosate	94.7		P	40 - 160
Sucralose	89.9		P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P404055

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	98.8		P	40 - 150
2,4,5-T	111		P	40 - 150
Acetaminophen	84.9		P	30 - 150
Acetamiprid	92.7		P	40 - 150
Afidopyropen	76.7		P	40 - 150
Bentazon	123		P	30 - 150
Benzovindiflupyr	85.2		P	40 - 150
Carbamazepine	95.6		P	40 - 150
Clothianidin	83.8		P	40 - 150
Dinotefuran	84.6		P	40 - 150
Diuron	76.3		P	40 - 150
Fenuron	90.3		P	40 - 150
Fluridone	86.3		P	40 - 150
Hydrocodone	85.6		P	40 - 150
Ibuprofen	80.5		P	40 - 150
Imazapyr	93.6		P	40 - 150
Imidacloprid	86.5		P	40 - 150
Linuron	95.5		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P404055

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mandestrobin	83.8		P	40 - 150
MCPD	115		P	40 - 150
Naproxen	129		P	40 - 150
Primidone	81.1		P	40 - 150
Pyraclostrobin	80.6		P	40 - 150
Thiamethoxam	92.0		P	40 - 150
Tolfenpyrad	43.6		P	30 - 150
Triclopyr	99.1		P	40 - 150

Reference Method: SM 2120 B-2011
Batch ID: P403991

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

Reference Method: SM 2320 B-2011
Batch ID: P404101

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

Reference Method: SM 4500 F-C-2011
Batch ID: P404106

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.6		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P404200

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.9		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P404146

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2277057	Chloride	95.3		P	90 - 110
2277424	Chloride	99.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P404147

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2277057	Sulfate	95.8		P	90 - 110
2277424	Sulfate	98.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P404121

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276888	Ammonia-N	96.4	97.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P404037

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276976	Kjeldahl Nitrogen	93.0	97.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P404041

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276888	NO2NO3-N	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P404051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276889	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P404008

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2277075	O-Phosphate-P	99.4	99.8	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P404251

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2277535	Aldrin	63.7	61.4	P/P	10 - 94.0
2277535	Alpha-BHC	80.5	80.7	P/P	71 - 108
2277535	Alpha-Chlordane	75.4	81.8	P/P	42 - 115
2277535	Beta-BHC	110	123	P/P	56 - 161
2277535	Beta-Cyfluthrin	122	150	P/P	46 - 190
2277535	Bifenthrin	72.6	78.2	P/P	19 - 126
2277535	Chlorothalonil	107	119	P/P	10 - 262
2277535	Cis-Nonachlor	87.0	86.5	P/P	44 - 112

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
 Batch ID: P404251

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2277535	Cypermethrin	98.3	116	P/P	40 - 178
2277535	Dacthal	84.6	88.2	P/P	60 - 119
2277535	DDD-p,p'	71.0	72.0	P/P	40 - 114
2277535	DDE-p,p'	73.9	76.8	P/P	22 - 125
2277535	DDT-p,p'	95.1	104	P/P	39 - 110
2277535	Delta-BHC	97.4	113	P/P	64 - 174
2277535	Deltamethrin	134	154	P/P	10 - 227
2277535	Dichlobenil	84.4	73.3	P/P	20 - 99.0
2277535	Dicofol	79.8	88.3	P/P	43 - 115
2277535	Dieldrin	76.5	84.8	P/P	31 - 131
2277535	Endosulfan I	72.4	77.5	P/P	52 - 110
2277535	Endosulfan II	52.9	53.3	F/P	53 - 127
2277535	Endosulfan Sulfate	74.6	86.7	P/P	44 - 135
2277535	Endrin	51.5	51.5	P/P	36 - 122
2277535	Endrin Aldehyde	74.5	69.1	P/P	23 - 115
2277535	Endrin Ketone	92.0	92.4	P/P	46 - 147
2277535	Esfenvalerate	110	115	P/P	25 - 217
2277535	Ethalfuralin	71.5	66.8	P/P	46 - 99.0
2277535	Fenpropathrin	88.6	98.8	P/P	42 - 121
2277535	Gamma-BHC	90.4	93.4	P/P	63 - 131
2277535	Gamma-Chlordane	72.8	75.3	P/P	40 - 108
2277535	Heptachlor	78.7	77.9	P/P	38 - 98.0
2277535	Heptachlor Epoxide	72.9	79.4	P/P	39 - 124
2277535	Hexachlorobenzene	74.1	71.7	P/P	37 - 96.0
2277535	Kepone	24.0	23.0	P/P	10 - 216
2277535	Lambda-Cyhalothrin	111	120	P/P	21 - 220
2277535	Methoprene	82.4	86.2	P/P	50 - 170
2277535	Methoxychlor	89.6	96.1	P/P	56 - 118
2277535	MGK-264	80.2	85.6	P/P	28 - 125
2277535	Mirex	54.7	57.5	P/P	10 - 203
2277535	Oxychlordane	70.1	72.6	P/P	50 - 170
2277535	Permethrin	106	113	P/P	42 - 173
2277535	Phenothrin	93.5	103	P/P	10 - 140
2277535	Piperonyl Butoxide	102	107	P/P	10 - 158
2277535	Prallethrin	74.9	83.3	P/P	19 - 119
2277535	Tau-Fluvalinate	106	119	P/P	27 - 164
2277535	Tetramethrin	94.1	88.1	P/P	16 - 130
2277535	Trans-Nonachlor	76.4	79.0	P/P	43 - 105
2277535	Triclosan Methyl	72.8	77.4	P/P	50 - 113
2277535	Trifluralin	69.9	68.3	P/P	48 - 98.0

Reference Method: EPA 8270E
 Batch ID: P404262

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276788	Acetochlor	86.0	91.0	P/P	66 - 122
2276788	Alachlor	77.8	77.2	P/P	65 - 122
2276788	Ametryn	78.0	78.2	P/P	45 - 173
2276788	Atrazine	88.4	88.0	P/P	70 - 134
2276788	Atrazine Desethyl	52.6	58.1	P/P	25 - 150
2276788	Azinphos Methyl	95.8	187	P/F	57 - 163
2276788	Azoxystrobin	108	112	P/P	43 - 231

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P404262

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276788	Bromacil	92.5	98.6	P/P	31 - 145
2276788	Butylate	51.5	62.5	P/P	15 - 97.0
2276788	Carbophenothion	103	102	P/P	42 - 129
2276788	Carfentrazone Ethyl	96.4	97.9	P/P	62 - 145
2276788	Chlorpyrifos Ethyl	89.5	96.0	P/P	60 - 124
2276788	Chlorpyrifos Methyl	96.1	102	P/P	66 - 119
2276788	Cyanazine	110	102	P/P	17 - 225
2276788	Demeton	79.7	88.3	P/P	36 - 142
2276788	Diazinon	91.0	92.7	P/P	70 - 128
2276788	Difenoconazole	94.6	94.7	P/P	33 - 222
2276788	Dimethenamid	73.8	76.1	P/P	54 - 125
2276788	Disulfoton	90.4	97.3	P/P	49 - 133
2276788	Dithiopyr	79.1	80.8	P/P	55 - 123
2276788	EPTC	45.7	57.4	P/P	19 - 91.0
2276788	Ethion	81.1	88.1	P/P	13 - 143
2276788	Ethoprop	88.0	94.7	P/P	49 - 144
2276788	Fenamiphos	102	113	P/P	32 - 136
2276788	Fenbuconazole	150	165	F/F	73 - 148
2276788	Fipronil	96.8	105	P/P	57 - 129
2276788	Fipronil Desulfinyl	100	106	P/P	49 - 127
2276788	Fipronil Sulfide	98.4	105	P/P	44 - 127
2276788	Fipronil Sulfone	94.5	101	P/P	35 - 126
2276788	Fluazifop-P-butyl	85.7	87.2	P/P	67 - 129
2276788	Fludioxonil	86.5	90.8	P/P	61 - 126
2276788	Flumioxazin	150	155	P/P	34 - 245
2276788	Flutolanil	65.3	69.2	P/P	55 - 136
2276788	Fluxapyroxad	172	184	F/F	33 - 140
2276788	Fonofos	88.0	90.4	P/P	58 - 125
2276788	Hexazinone	98.3	101	P/P	57 - 148
2276788	Imazalil	73.4	62.1	P/P	10 - 221
2276788	Iprodione	87.9	101	P/P	59 - 118
2276788	Malathion	109	121	P/P	62 - 138
2276788	Metalaxyl	71.3	75.1	P/P	46 - 134
2276788	Metolachlor	76.8	85.8	P/P	58 - 122
2276788	Metribuzin	91.6	100	P/P	16 - 272
2276788	Mevinphos	95.1	113	P/P	45 - 140
2276788	Molinate	76.5	87.1	P/P	41 - 103
2276788	Myclobutanil	85.6	86.3	P/P	60 - 134
2276788	Naled	39.9	44.2	P/P	20 - 113
2276788	Norflurazon	97.5	103	P/P	51 - 123
2276788	Oxadiazon	70.9	72.9	P/P	44 - 125
2276788	Oxyfluorfen	105	109	P/P	66 - 176
2276788	Parathion Ethyl	88.8	93.2	P/P	57 - 132
2276788	Parathion Methyl	111	122	P/P	59 - 156
2276788	Pendimethalin	75.3	77.4	P/P	59 - 129
2276788	Phorate	87.1	96.9	P/P	47 - 136
2276788	Prodiamine	107	118	P/P	10 - 159
2276788	Prometon	70.7	74.1	P/P	59 - 127
2276788	Prometryn	72.3	76.2	P/P	59 - 129
2276788	Pronamide	82.9	87.5	P/P	65 - 145
2276788	Propiconazole	92.6	97.6	P/P	28 - 165
2276788	Pyriproxyfen	50.8	53.4	P/P	21 - 180

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P404262

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276788	Simazine	84.4	88.1	P/P	63 - 147
2276788	Sulfentrazone	84.1	99.2	P/P	20 - 132
2276788	Tebuconazole	111	116	P/P	10 - 117
2276788	Terbufos	112	120	P/P	61 - 131
2276788	Terbutylazine	78.0	82.6	P/P	62 - 126

Reference Method: EPA 8276
Batch ID: P404251

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2277574	Chlordane	88.8	91.2	P/P	47 - 128
2277574	Toxaphene	92.9	89.4	P/P	11 - 163

Reference Method: EPA 8321B
Batch ID: P404050

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276786	Acesulfame K	138	131	P/P	40 - 150
2276786	AMPA	96.0	92.7	P/P	40 - 160
2276786	Endothall	94.4	96.3	P/P	40 - 150
2276786	Glufosinate	88.9	94.0	P/P	40 - 160
2276786	Glyphosate	80.5	84.5	P/P	40 - 160
2276786	Sucralose	100	97.7	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P404055

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2277457	2,4,5-T	111	110	P/P	40 - 150
2277457	Acetaminophen	97.5	99.8	P/P	30 - 150
2277457	Acetamiprid	96.0	105	P/P	40 - 150
2277457	Afidopyropen	83.1	101	P/P	40 - 150
2277457	Benzovindiflupyr	83.1	104	P/P	40 - 150
2277457	Carbamazepine	103	117	P/P	40 - 150
2277457	Clothianidin	91.8	122	P/P	40 - 150
2277457	Dinotefuran	114	134	P/P	40 - 150
2277457	Diuron	56.9	74.2	P/P	40 - 150
2277457	Fenuron	81.5	91.1	P/P	40 - 150
2277457	Hydrocodone	87.0	102	P/P	40 - 150
2277457	Ibuprofen	59.3	56.9	P/P	40 - 150
2277457	Imazapyr	88.0	107	P/P	40 - 150
2277457	Imidacloprid	145	165	P/F	40 - 150
2277457	Linuron	91.5	88.2	P/P	40 - 150
2277457	Mandestrobin	76.9	90.3	P/P	40 - 150
2277457	MCCP	140	137	P/P	40 - 150
2277457	Naproxen	94.1	73.0	P/P	40 - 150
2277457	Primidone	62.3	76.5	P/P	40 - 150
2277457	Pyraclostrobin	79.8	92.9	P/P	40 - 150
2277457	Thiamethoxam	138	155	P/F	40 - 150
2277457	Tolfenpyrad	44.6	45.6	P/P	30 - 150
2277457	Triclopyr	100	121	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P404106

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276975	Fluoride	94.8	96.3	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P404200

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2276976	Organic Carbon	98.4	98.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P404018

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2277057	Turbidity	5.32	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P404146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2277057	Chloride	0.286	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P404147

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2277057	Sulfate	0.485	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P404121

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276888	Ammonia-N	0.709	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P404037

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276976	Kjeldahl Nitrogen	2.73	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P404041

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276888	NO2NO3-N	0.477	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P404051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276889	Total-P	0.304	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P404008

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2277075	O-Phosphate-P	0.402	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P404251

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2277535	Aldrin	3.76	Spike	P	0 - 30
2277535	Alpha-BHC	0.312	Spike	P	0 - 30
2277535	Alpha-Chlordane	8.12	Spike	P	0 - 30
2277535	Beta-BHC	11.5	Spike	P	0 - 30
2277535	Beta-Cyfluthrin	21.1	Spike	P	0 - 30
2277535	Bifenthrin	7.44	Spike	P	0 - 30
2277535	Chlorothalonil	9.39	Spike	P	0 - 50
2277535	Cis-Nonachlor	0.657	Spike	P	0 - 30
2277535	Cypermethrin	16.4	Spike	P	0 - 30
2277535	Dacthal	4.16	Spike	P	0 - 30
2277535	DDD-p,p'	1.38	Spike	P	0 - 30
2277535	DDE-p,p'	3.91	Spike	P	0 - 30
2277535	DDT-p,p'	8.75	Spike	P	0 - 30
2277535	Delta-BHC	14.6	Spike	P	0 - 30
2277535	Deltamethrin	13.5	Spike	P	0 - 30
2277535	Dichlobenil	14.0	Spike	P	0 - 30
2277535	Dicofol	10.0	Spike	P	0 - 30
2277535	Dieldrin	10.3	Spike	P	0 - 30
2277535	Endosulfan I	6.80	Spike	P	0 - 30
2277535	Endosulfan II	0.741	Spike	P	0 - 30
2277535	Endosulfan Sulfate	14.9	Spike	P	0 - 30
2277535	Endrin	0.149	Spike	P	0 - 30
2277535	Endrin Aldehyde	7.51	Spike	P	0 - 30
2277535	Endrin Ketone	0.383	Spike	P	0 - 30
2277535	Esfenvalerate	5.24	Spike	P	0 - 30
2277535	Ethalfuralin	6.89	Spike	P	0 - 30
2277535	Fenpropathrin	10.9	Spike	P	0 - 30
2277535	Gamma-BHC	3.24	Spike	P	0 - 30
2277535	Gamma-Chlordane	3.47	Spike	P	0 - 30
2277535	Heptachlor	1.02	Spike	P	0 - 30
2277535	Heptachlor Epoxide	8.61	Spike	P	0 - 30
2277535	Hexachlorobenzene	3.32	Spike	P	0 - 30
2277535	Kepone	4.05	Spike	P	0 - 30
2277535	Lambda-Cyhalothrin	7.68	Spike	P	0 - 30
2277535	Methoprene	4.49	Spike	P	0 - 30
2277535	Methoxychlor	7.01	Spike	P	0 - 30
2277535	MGK-264	6.50	Spike	P	0 - 30
2277535	Mirex	4.92	Spike	P	0 - 30
2277535	Oxychlordane	3.47	Spike	P	0 - 30
2277535	Permethrin	6.68	Spike	P	0 - 30
2277535	Phenothrin	9.59	Spike	P	0 - 30
2277535	Piperonyl Butoxide	5.11	Spike	P	0 - 30
2277535	Prallethrin	10.5	Spike	P	0 - 30
2277535	Tau-Fluvalinate	11.9	Spike	P	0 - 30
2277535	Tetramethrin	6.60	Spike	P	0 - 30
2277535	Trans-Nonachlor	3.45	Spike	P	0 - 30
2277535	Triclosan Methyl	6.14	Spike	P	0 - 30
2277535	Trifluralin	2.28	Spike	P	0 - 30
LFB	Aldrin	19.1	LCS	P	0 - 30
LFB	Alpha-BHC	16.0	LCS	P	0 - 30
LFB	Alpha-Chlordane	14.7	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P404251

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Beta-BHC	7.46	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	6.04	LCS	P	0 - 30
LFB	Bifenthrin	14.7	LCS	P	0 - 30
LFB	Chlorothalonil	7.95	LCS	P	0 - 50
LFB	Cis-Nonachlor	12.4	LCS	P	0 - 30
LFB	Cypermethrin	6.83	LCS	P	0 - 30
LFB	Dacthal	17.1	LCS	P	0 - 30
LFB	DDD-p,p'	18.1	LCS	P	0 - 30
LFB	DDE-p,p'	15.7	LCS	P	0 - 30
LFB	DDT-p,p'	16.8	LCS	P	0 - 30
LFB	Delta-BHC	4.68	LCS	P	0 - 30
LFB	Deltamethrin	17.9	LCS	P	0 - 30
LFB	Dichlobenil	14.0	LCS	P	0 - 30
LFB	Dicofol	7.62	LCS	P	0 - 30
LFB	Dieldrin	18.0	LCS	P	0 - 30
LFB	Endosulfan I	20.1	LCS	P	0 - 30
LFB	Endosulfan II	14.4	LCS	P	0 - 30
LFB	Endosulfan Sulfate	15.9	LCS	P	0 - 30
LFB	Endrin	14.8	LCS	P	0 - 30
LFB	Endrin Aldehyde	17.5	LCS	P	0 - 30
LFB	Endrin Ketone	13.1	LCS	P	0 - 30
LFB	Esfenvalerate	9.96	LCS	P	0 - 30
LFB	Ethalfuralin	19.2	LCS	P	0 - 30
LFB	Fenpropathrin	3.81	LCS	P	0 - 30
LFB	Gamma-BHC	12.3	LCS	P	0 - 30
LFB	Gamma-Chlordane	16.9	LCS	P	0 - 30
LFB	Heptachlor	19.7	LCS	P	0 - 30
LFB	Heptachlor Epoxide	16.1	LCS	P	0 - 30
LFB	Hexachlorobenzene	13.2	LCS	P	0 - 30
LFB	Kepone	18.2	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	1.06	LCS	P	0 - 30
LFB	Methoprene	17.5	LCS	P	0 - 30
LFB	Methoxychlor	12.2	LCS	P	0 - 30
LFB	MGK-264	6.94	LCS	P	0 - 30
LFB	Mirex	19.0	LCS	P	0 - 30
LFB	Oxychlordane	20.1	LCS	P	0 - 30
LFB	Permethrin	6.36	LCS	P	0 - 30
LFB	Phenothrin	20.5	LCS	P	0 - 30
LFB	Piperonyl Butoxide	12.0	LCS	P	0 - 30
LFB	Prallethrin	0.959	LCS	P	0 - 30
LFB	Tau-Fluvalinate	20.8	LCS	P	0 - 30
LFB	Tetramethrin	8.52	LCS	P	0 - 30
LFB	Trans-Nonachlor	18.1	LCS	P	0 - 30
LFB	Triclosan Methyl	16.9	LCS	P	0 - 30
LFB	Trifluralin	13.4	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P404262

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P404262

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276788	Acetochlor	5.59	Spike	P	0 - 30
2276788	Alachlor	0.775	Spike	P	0 - 30
2276788	Ametryn	0.263	Spike	P	0 - 30
2276788	Atrazine	0.420	Spike	P	0 - 30
2276788	Atrazine Desethyl	10.0	Spike	P	0 - 30
2276788	Azinphos Methyl	64.4	Spike	F	0 - 30
2276788	Azoxystrobin	4.11	Spike	P	0 - 30
2276788	Bromacil	6.34	Spike	P	0 - 30
2276788	Butylate	19.3	Spike	P	0 - 30
2276788	Caffeine	9.41	Spike	P	0 - 30
2276788	Carbophenothion	0.704	Spike	P	0 - 30
2276788	Carfentrazone Ethyl	1.55	Spike	P	0 - 30
2276788	Chlorpyrifos Ethyl	7.07	Spike	P	0 - 30
2276788	Chlorpyrifos Methyl	6.23	Spike	P	0 - 30
2276788	Cyanazine	7.33	Spike	P	0 - 30
2276788	Demeton	10.3	Spike	P	0 - 30
2276788	Diazinon	1.90	Spike	P	0 - 30
2276788	Difenoconazole	0.0343	Spike	P	0 - 30
2276788	Dimethenamid	3.01	Spike	P	0 - 30
2276788	Disulfoton	7.39	Spike	P	0 - 30
2276788	Dithiopyr	2.03	Spike	P	0 - 30
2276788	EPTC	22.6	Spike	P	0 - 30
2276788	Ethion	8.24	Spike	P	0 - 30
2276788	Ethoprop	7.27	Spike	P	0 - 30
2276788	Fenamiphos	10.5	Spike	P	0 - 30
2276788	Fenbuconazole	9.56	Spike	P	0 - 30
2276788	Fipronil	7.68	Spike	P	0 - 30
2276788	Fipronil Desulfinyl	5.72	Spike	P	0 - 30
2276788	Fipronil Sulfide	6.25	Spike	P	0 - 30
2276788	Fipronil Sulfone	6.45	Spike	P	0 - 30
2276788	Fluazifop-P-butyl	1.76	Spike	P	0 - 30
2276788	Fludioxonil	4.87	Spike	P	0 - 30
2276788	Flumioxazin	2.69	Spike	P	0 - 30
2276788	Flutolanil	5.20	Spike	P	0 - 30
2276788	Fluxapyroxad	6.47	Spike	P	0 - 30
2276788	Fonofos	2.69	Spike	P	0 - 30
2276788	Hexazinone	2.81	Spike	P	0 - 30
2276788	Imazalil	16.6	Spike	P	0 - 30
2276788	Iprodione	13.8	Spike	P	0 - 30
2276788	Malathion	10.2	Spike	P	0 - 30
2276788	Metalaxyl	5.24	Spike	P	0 - 30
2276788	Metolachlor	10.3	Spike	P	0 - 30
2276788	Metribuzin	8.70	Spike	P	0 - 30
2276788	Mevinphos	17.0	Spike	P	0 - 30
2276788	Molinate	12.9	Spike	P	0 - 30
2276788	Myclobutanil	0.838	Spike	P	0 - 30
2276788	Naled	10.1	Spike	P	0 - 30
2276788	Norflurazon	5.83	Spike	P	0 - 30
2276788	Oxadiazon	2.75	Spike	P	0 - 30
2276788	Oxyfluorfen	4.30	Spike	P	0 - 30
2276788	Parathion Ethyl	4.78	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P404262

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276788	Parathion Methyl	9.05	Spike	P	0 - 30
2276788	Pendimethalin	2.68	Spike	P	0 - 30
2276788	Phorate	10.6	Spike	P	0 - 30
2276788	Prodiamine	8.95	Spike	P	0 - 30
2276788	Prometon	4.71	Spike	P	0 - 30
2276788	Prometryn	5.29	Spike	P	0 - 30
2276788	Pronamide	5.36	Spike	P	0 - 30
2276788	Propiconazole	5.25	Spike	P	0 - 30
2276788	Pyriproxyfen	4.99	Spike	P	0 - 30
2276788	Simazine	4.37	Spike	P	0 - 30
2276788	Sulfentrazone	16.4	Spike	P	0 - 30
2276788	Tebuconazole	4.33	Spike	P	0 - 30
2276788	Terbufos	7.09	Spike	P	0 - 30
2276788	Terbuthylazine	5.70	Spike	P	0 - 30
LFB	Acetochlor	1.26	LCS	P	0 - 30
LFB	Alachlor	0.541	LCS	P	0 - 30
LFB	Ametryn	2.02	LCS	P	0 - 30
LFB	Atrazine	0.520	LCS	P	0 - 30
LFB	Atrazine Desethyl	3.85	LCS	P	0 - 30
LFB	Azinphos Methyl	4.45	LCS	P	0 - 30
LFB	Azoxystrobin	2.12	LCS	P	0 - 30
LFB	Bromacil	0.192	LCS	P	0 - 30
LFB	Butylate	0.904	LCS	P	0 - 30
LFB	Caffeine	0.876	LCS	P	0 - 30
LFB	Carbophenothion	0.406	LCS	P	0 - 30
LFB	Carfentrazone Ethyl	4.76	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	3.89	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	0.526	LCS	P	0 - 30
LFB	Cyanazine	1.03	LCS	P	0 - 30
LFB	Demeton	7.83	LCS	P	0 - 30
LFB	Diazinon	0.825	LCS	P	0 - 30
LFB	Difenoconazole	17.3	LCS	P	0 - 30
LFB	Dimethenamid	3.37	LCS	P	0 - 30
LFB	Disulfoton	20.9	LCS	P	0 - 30
LFB	Dithiopyr	0.0873	LCS	P	0 - 30
LFB	EPTC	2.49	LCS	P	0 - 30
LFB	Ethion	4.90	LCS	P	0 - 30
LFB	Ethoprop	1.40	LCS	P	0 - 30
LFB	Fenamiphos	3.54	LCS	P	0 - 30
LFB	Fenbuconazole	1.90	LCS	P	0 - 30
LFB	Fipronil	1.88	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	1.48	LCS	P	0 - 30
LFB	Fipronil Sulfide	2.49	LCS	P	0 - 30
LFB	Fipronil Sulfone	0.0388	LCS	P	0 - 30
LFB	Fluazifop-P-butyl	0.664	LCS	P	0 - 30
LFB	Fludioxonil	6.93	LCS	P	0 - 30
LFB	Flumioxazin	12.3	LCS	P	0 - 30
LFB	Flutolanil	3.22	LCS	P	0 - 30
LFB	Fluxapyroxad	0.869	LCS	P	0 - 30
LFB	Fonofos	1.66	LCS	P	0 - 30
LFB	Hexazinone	2.05	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P404262

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Imazalil	16.7	LCS	P	0 - 30
LFB	Iprodione	6.30	LCS	P	0 - 30
LFB	Malathion	5.11	LCS	P	0 - 30
LFB	Metalaxyl	0.281	LCS	P	0 - 30
LFB	Metolachlor	2.24	LCS	P	0 - 30
LFB	Metribuzin	2.91	LCS	P	0 - 30
LFB	Mevinphos	3.91	LCS	P	0 - 30
LFB	Molinate	8.57	LCS	P	0 - 30
LFB	Myclobutanil	1.80	LCS	P	0 - 30
LFB	Naled	0.162	LCS	P	0 - 30
LFB	Norflurazon	0.558	LCS	P	0 - 30
LFB	Oxadiazon	2.39	LCS	P	0 - 30
LFB	Oxyfluorfen	1.02	LCS	P	0 - 30
LFB	Parathion Ethyl	5.64	LCS	P	0 - 30
LFB	Parathion Methyl	2.85	LCS	P	0 - 30
LFB	Pendimethalin	1.80	LCS	P	0 - 30
LFB	Phorate	7.97	LCS	P	0 - 30
LFB	Prodiamine	0.794	LCS	P	0 - 30
LFB	Prometon	2.36	LCS	P	0 - 30
LFB	Prometryn	2.60	LCS	P	0 - 30
LFB	Pronamide	1.69	LCS	P	0 - 30
LFB	Propiconazole	3.67	LCS	P	0 - 30
LFB	Pyriproxyfen	18.0	LCS	P	0 - 30
LFB	Simazine	2.90	LCS	P	0 - 30
LFB	Sulfentrazone	0.893	LCS	P	0 - 30
LFB	Tebuconazole	6.77	LCS	P	0 - 30
LFB	Terbufos	6.74	LCS	P	0 - 30
LFB	Terbutylazine	0.177	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P404614

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlorothalonil	19.1	LCS	P	0 - 50
LFB	Piperonyl Butoxide	7.84	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P404251

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2277574	Chlordane	1.90	Spike	P	0 - 30
2277574	Toxaphene	1.70	Spike	P	0 - 30
LFB	Chlordane	2.48	LCS	P	0 - 30
LFB	Toxaphene	0.764	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P404050

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276786	Acesulfame K	5.37	Spike	P	0 - 30
2276786	AMPA	3.39	Spike	P	0 - 30
2276786	Endothall	1.94	Spike	P	0 - 30
2276786	Glufosinate	5.61	Spike	P	0 - 30
2276786	Glyphosate	4.90	Spike	P	0 - 30
2276786	Sucralose	2.30	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P404055

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2277457	2,4-D	2.51	Spike	P	0 - 30
2277457	2,4,5-T	0.823	Spike	P	0 - 30
2277457	Acetaminophen	2.35	Spike	P	0 - 30
2277457	Acetamiprid	8.82	Spike	P	0 - 30
2277457	Afidopyropen	19.8	Spike	P	0 - 30
2277457	Bentazon	12.5	Spike	P	0 - 30
2277457	Benzovindiflupyr	22.4	Spike	P	0 - 30
2277457	Carbamazepine	11.2	Spike	P	0 - 30
2277457	Clothianidin	28.0	Spike	P	0 - 30
2277457	Dinotefuran	16.3	Spike	P	0 - 30
2277457	Diuron	22.7	Spike	P	0 - 30
2277457	Fenuron	11.1	Spike	P	0 - 30
2277457	Fluridone	12.3	Spike	P	0 - 30
2277457	Hydrocodone	15.9	Spike	P	0 - 30
2277457	Ibuprofen	4.12	Spike	P	0 - 30
2277457	Imazapyr	11.4	Spike	P	0 - 30
2277457	Imidacloprid	11.8	Spike	P	0 - 30
2277457	Linuron	3.63	Spike	P	0 - 30
2277457	Mandestrobin	16.0	Spike	P	0 - 30
2277457	MCPP	2.45	Spike	P	0 - 30
2277457	Naproxen	25.3	Spike	P	0 - 30
2277457	Primidone	20.4	Spike	P	0 - 30
2277457	Pyraclostrobin	15.1	Spike	P	0 - 30
2277457	Thiamethoxam	11.9	Spike	P	0 - 30
2277457	Tolfenpyrad	2.13	Spike	P	0 - 30
2277457	Triclopyr	18.9	Spike	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P403991

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276975	Color (true)	1.16	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P404101

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P404101

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276975	Total Alkalinity	0.298	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P404555

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276743	TDS	5.13	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P404556

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276887	TDS	1.77	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P404106

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276975	Fluoride	1.40	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P404200

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2276976	Organic Carbon	0.270	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2277065
Field Sample ID: G3SD0154

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	133	P	30 - 160
EPA 8321B	Acetaminophen-d4	81.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.8	P	30 - 160
EPA 8321B	Diuron-d6	55.1	P	30 - 160
EPA 8321B	Endothall-d6	94.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	89.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	76.7	P	30 - 160
EPA 8321B	Primidone-d5	111	P	30 - 160
EPA 8321B	Sucralose-d6	92.5	P	30 - 160

Lab Sample ID: 2277066
Field Sample ID: FB_09202021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	71.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	76.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	86.2	P	30 - 160
EPA 8321B	Diuron-d6	57.2	P	30 - 160
EPA 8321B	Endothall-d6	86.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	73.8	P	30 - 160
EPA 8321B	Primidone-d5	89.4	P	30 - 160
EPA 8321B	Sucralose-d6	87.8	P	30 - 160

Lab Sample ID: 2277067
Field Sample ID: G3SD0154

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	102	P	29 - 123
EPA 8270E	Decachlorobiphenyl	86.1	P	29 - 123
EPA 8270E	Tetrachloro-m-xylene	58.4	P	24 - 97.0
EPA 8270E	Tetrachloro-m-xylene	60.7	P	24 - 97.0
EPA 8276	Decachlorobiphenyl	60.2	P	29 - 92.0
EPA 8276	PCNB	73.8	P	43 - 134

Lab Sample ID: 2277068
Field Sample ID: G3SD0154

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	56.3	P	20 - 200
EPA 8270E	Simazine-d10	112	P	73 - 135
EPA 8270E	Terbufos-d10	97.2	P	58 - 130

Lab Sample ID: 2277069
Field Sample ID: FB_09202021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	70.8	P	29 - 123
EPA 8270E	Decachlorobiphenyl	91.9	P	29 - 123
EPA 8270E	Tetrachloro-m-xylene	59.9	P	24 - 97.0
EPA 8270E	Tetrachloro-m-xylene	69.7	P	24 - 97.0
EPA 8276	Decachlorobiphenyl	54.4	P	29 - 92.0

Quality Assurance Report Surrogates

Lab Sample ID: 2277069
Field Sample ID: FB_09202021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	PCNB	69.9	P	43 - 134

Lab Sample ID: 2277070
Field Sample ID: FB_09202021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	58.7	P	20 - 200
EPA 8270E	Simazine-d10	89.7	P	73 - 135
EPA 8270E	Terbufos-d10	93.4	P	58 - 130

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B-2011

Run ID: A107910

Included Lab Sample IDs: 2277057, 2277060

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 115
Color (true)	101	101	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A107913

Included Lab Sample IDs: 2277059, 2277062

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.1	99.4	P/P	90 - 110
O-Phosphate-P	99.3	99.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A107915

Included Lab Sample IDs: 2277057, 2277060

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A107927

Included Lab Sample IDs: 2277058, 2277061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A107953

Included Lab Sample IDs: 2277057, 2277060

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.0	99.6	P/P	90 - 110
Sulfate	99.0	99.6	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A107959

Included Lab Sample IDs: 2277057, 2277060

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

Reference Method: SM 4500 F-C-2011

Run ID: A107959

Included Lab Sample IDs: 2277057, 2277060

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A107960

Included Lab Sample IDs: 2277058, 2277061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	95.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A107961

Included Lab Sample IDs: 2277058, 2277061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A107963

Included Lab Sample IDs: 2277058

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A107967

Included Lab Sample IDs: 2277061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	99.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A107979

Included Lab Sample IDs: 2277065, 2277066

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	96.4	99.0	P/P	60 - 160
Glufosinate	96.0	104	P/P	60 - 160
Glyphosate	96.8	102	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A107990

Included Lab Sample IDs: 2277065, 2277066

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	88.3	91.2	P/P	60 - 160
Endothall	78.7	64.4	P/P	60 - 160
Sucralose	91.1	87.6	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A107995

Included Lab Sample IDs: 2277058, 2277061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	97.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A108014

Included Lab Sample IDs: 2277065, 2277066

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	100	102	P/P	50 - 150
2,4,5-T	96.5	98.2	P/P	50 - 150
Acetaminophen	104	99.0	P/P	60 - 160
Acetamiprid	100	103	P/P	50 - 150
Afidopyropen	101	90.6	P/P	50 - 150
Bentazon	90.0	122	P/P	50 - 160
Benzovindiflupyr	109	94.7	P/P	50 - 150
Carbamazepine	111	100	P/P	60 - 150
Clothianidin	103	106	P/P	60 - 150
Dinotefuran	98.9	104	P/P	50 - 150
Diuron	106	109	P/P	60 - 160
Fenuron	95.2	101	P/P	60 - 150
Fluridone	105	95.6	P/P	60 - 160
Hydrocodone	101	94.5	P/P	60 - 150
Ibuprofen	74.7	68.4	P/P	50 - 160
Imazapyr	85.1	93.7	P/P	50 - 150
Imidacloprid	110	97.1	P/P	60 - 150
Linuron	116	113	P/P	60 - 150
Mandestrobin	107	105	P/P	50 - 150
MCPP	98.5	91.0	P/P	50 - 150
Naproxen	100	97.0	P/P	50 - 160
Primidone	110	93.2	P/P	60 - 150
Pyraclostrobin	101	107	P/P	60 - 150
Thiamethoxam	93.7	104	P/P	50 - 150
Tolfenpyrad	96.7	109	P/P	60 - 150
Triclopyr	105	98.4	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A108087

Included Lab Sample IDs: 2277068, 2277070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	100		P	80 - 120
Ametryn	98.1		P	80 - 120
Atrazine	96.9		P	80 - 120
Atrazine Desethyl	104		P	80 - 120
Azinphos Methyl	92.0		P	80 - 120
Azoxystrobin	78.7*		F	80 - 120
Bromacil	109		P	80 - 120
Butylate	103		P	80 - 120
Caffeine	102		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	99.5		P	80 - 120
Chlorpyrifos Ethyl	101		P	80 - 120
Chlorpyrifos Methyl	97.2		P	80 - 120
Cyanazine	94.8		P	80 - 120
Demeton	96.1		P	80 - 120
Diazinon	97.2		P	80 - 120
Difenoconazole	111		P	80 - 120
Dimethenamid	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A108087

Included Lab Sample IDs: 2277068, 2277070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Disulfoton	102		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	98.0		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	106		P	80 - 120
Fenamiphos	100		P	80 - 120
Fenbuconazole	87.6		P	80 - 120
Fipronil	98.6		P	80 - 120
Fipronil Desulfinyl	97.7		P	80 - 120
Fipronil Sulfide	103		P	80 - 120
Fipronil Sulfone	96.4		P	80 - 120
Fluazifop-P-butyl	101		P	80 - 120
Fludioxonil	89.4		P	80 - 120
Flumioxazin	88.5		P	80 - 120
Flutolanil	96.9		P	80 - 120
Fluxapyroxad	92.7		P	80 - 120
Fonofos	96.5		P	80 - 120
Hexazinone	98.2		P	80 - 120
Imazalil	95.2		P	80 - 120
Iprodione	99.4		P	80 - 120
Malathion	105		P	80 - 120
Metalaxyl	95.4		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	110		P	80 - 120
Mevinphos	107		P	80 - 120
Molinate	107		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	107		P	80 - 120
Norflurazon	93.8		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	99.6		P	80 - 120
Parathion Ethyl	105		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	96.2		P	80 - 120
Phorate	104		P	80 - 120
Prodiamine	91.3		P	80 - 120
Prometon	99.4		P	80 - 120
Prometryn	98.5		P	80 - 120
Pronamide	95.7		P	80 - 120
Propiconazole	91.1		P	80 - 120
Pyriproxyfen	112		P	80 - 120
Simazine	103		P	80 - 120
Sulfentrazone	95.3		P	80 - 120
Tebuconazole	96.2		P	80 - 120
Terbufos	97.7		P	80 - 120
Terbutylazine	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A108128

Included Lab Sample IDs: 2277067, 2277069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	94.5		P	80 - 120
Toxaphene	107		P	80 - 120

Reference Method: EPA 8270E

Run ID: A108131

Included Lab Sample IDs: 2277069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.2		P	80 - 120
Alpha-BHC	96.8		P	80 - 120
Alpha-Chlordane	99.2		P	80 - 120
Beta-BHC	95.5		P	80 - 120
Beta-Cyfluthrin	92.2		P	80 - 120
Bifenthrin	95.0		P	80 - 120
Cis-Nonachlor	94.2		P	80 - 120
Cypermethrin	91.8		P	80 - 120
Dacthal	99.6		P	80 - 120
DDD-p,p'	91.3		P	80 - 120
DDE-p,p'	99.5		P	80 - 120
DDT-p,p'	94.6		P	80 - 120
Delta-BHC	97.0		P	80 - 120
Deltamethrin	88.9		P	80 - 120
Dichlobenil	98.5		P	80 - 120
Dicofol	97.8		P	80 - 120
Dieldrin	94.1		P	80 - 120
Endosulfan I	96.1		P	80 - 120
Endosulfan II	94.9		P	80 - 120
Endosulfan Sulfate	94.4		P	80 - 120
Endrin	93.0		P	80 - 120
Endrin Aldehyde	95.4		P	80 - 120
Endrin Ketone	94.5		P	80 - 120
Esfenvalerate	91.9		P	80 - 120
Ethalfuralin	96.6		P	80 - 120
Fenpropathrin	96.0		P	80 - 120
Gamma-BHC	96.0		P	80 - 120
Gamma-Chlordane	98.8		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	97.4		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	68.1*		F	80 - 120
Lambda-Cyhalothrin	96.1		P	80 - 120
Methoprene	98.8		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	104		P	80 - 120
Mirex	90.9		P	80 - 120
Oxychlordane	98.9		P	80 - 120
Permethrin	104		P	80 - 120
Phenothrin	98.4		P	80 - 120
Prallethrin	99.5		P	80 - 120
Tau-Fluvalinate	92.2		P	80 - 120
Tetramethrin	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A108131
 Included Lab Sample IDs: 2277069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Trans-Nonachlor	100		P	80 - 120
Triclosan Methyl	97.0		P	80 - 120
Trifluralin	94.6		P	80 - 120

Reference Method: EPA 8270E
 Run ID: A108132
 Included Lab Sample IDs: 2277067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	102		P	80 - 120
Alpha-BHC	98.8		P	80 - 120
Alpha-Chlordane	105		P	80 - 120
Beta-BHC	104		P	80 - 120
Beta-Cyfluthrin	98.3		P	80 - 120
Bifenthrin	102		P	80 - 120
Chlorothalonil	98.2		P	80 - 120
Cis-Nonachlor	119		P	80 - 120
Cypermethrin	98.6		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	119		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	99.4		P	80 - 120
Delta-BHC	101		P	80 - 120
Deltamethrin	101		P	80 - 120
Dichlobenil	97.7		P	80 - 120
Dicofol	106		P	80 - 120
Dieldrin	105		P	80 - 120
Endosulfan I	99.7		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	95.6		P	80 - 120
Endrin	99.9		P	80 - 120
Endrin Aldehyde	107		P	80 - 120
Endrin Ketone	102		P	80 - 120
Esfenvalerate	102		P	80 - 120
Ethalfuralin	97.2		P	80 - 120
Fenpropathrin	97.0		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	103		P	80 - 120
Heptachlor Epoxide	100		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	74.7*		F	80 - 120
Lambda-Cyhalothrin	103		P	80 - 120
Methoprene	100		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	100		P	80 - 120
Mirex	100		P	80 - 120
Oxychlordane	99.6		P	80 - 120
Permethrin	100		P	80 - 120
Phenothrin	97.9		P	80 - 120
Piperonyl Butoxide	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A108132
Included Lab Sample IDs: 2277067

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prallethrin	95.7		P	80 - 120
Tau-Fluvalinate	99.8		P	80 - 120
Tetramethrin	96.8		P	80 - 120
Trans-Nonachlor	102		P	80 - 120
Triclosan Methyl	99.4		P	80 - 120
Trifluralin	94.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A108140
Included Lab Sample IDs: 2277068

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	103		P	80 - 120
Hexazinone	104		P	80 - 120
Norflurazon	104		P	80 - 120

Reference Method: EPA 8270E
Run ID: A108245
Included Lab Sample IDs: 2277069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorothalonil	117		P	80 - 120
Piperonyl Butoxide	93.8		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 180.1 Rev. 2.0	Turbidity						5.32	
EPA 300.0 Rev. 2.1	Chloride	97.8		95.3	99.0		0.286	
	Sulfate	97.3		95.8	98.1		0.485	
EPA 350.1 Rev. 2.0	Ammonia-N	98.4		96.4	97.2			0.709
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		93.0	97.2			2.73
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	104		105	104			0.477
EPA 365.1 Rev. 2.0	Total-P	103		103	103			0.304
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.7		99.4	99.8			0.402
EPA 8270E	Acetochlor	88.0	89.1	86.0	91.0	1.26		5.59
	Alachlor	77.1	77.5	77.8	77.2	0.541		0.775
	Aldrin	49.8	60.3	63.7	61.4	19.1		3.76
	Alpha-BHC	79.4	93.2	80.5	80.7	16.0		0.312
	Alpha-Chlordane	71.8	83.1	75.4	81.8	14.7		8.12
	Ametryn	78.2	76.6	78.0	78.2	2.02		0.263
	Atrazine	93.2	92.7	88.4	88.0	0.520		0.420
	Atrazine Desethyl	67.1	64.6	52.6	58.1	3.85		10.0
	Azinphos Methyl	120	126	95.8	187	4.45		64.4
	Azoxystrobin	109	112	108	112	2.12		4.11
	Beta-BHC	97.3	105	110	123	7.46		11.5
	Beta-Cyfluthrin	100	106	122	150	6.04		21.1
	Bifenthrin	51.0	59.1	72.6	78.2	14.7		7.44
	Bromacil	88.3	88.4	92.5	98.6	0.192		6.34
	Butylate	56.1	55.6	51.5	62.5	0.904		19.3
	Caffeine	93.8	94.6			0.876		9.41
	Carbophenothion	106	106	103	102	0.406		0.704
	Carfentrazone Ethyl	95.4	100	96.4	97.9	4.76		1.55
	Chlorothalonil	101	109	107	119	7.95		9.39
	Chlorothalonil	149	123			19.1		
	Chlorpyrifos Ethyl	103	107	89.5	96.0	3.89		7.07
	Chlorpyrifos Methyl	105	104	96.1	102	0.526		6.23
	Cis-Nonachlor	62.0	70.3	87.0	86.5	12.4		0.657
	Cyanazine	105	106	110	102	1.03		7.33
	Cypermethrin	80.4	86.1	98.3	116	6.83		16.4
	Dacthal	82.4	97.7	84.6	88.2	17.1		4.16
	DDD-p,p'	58.8	70.5	71.0	72.0	18.1		1.38
	DDE-p,p'	72.6	85.0	73.9	76.8	15.7		3.91
	DDT-p,p'	83.8	99.2	95.1	104	16.8		8.75
	Delta-BHC	91.7	96.1	97.4	113	4.68		14.6
	Deltamethrin	92.8	111	134	154	17.9		13.5
	Demeton	63.6	58.9	79.7	88.3	7.83		10.3
	Diazinon	87.7	87.0	91.0	92.7	0.825		1.90
	Dichlobenil	83.4	96.0	84.4	73.3	14.0		14.0
	Dicofol	69.2	74.7	79.8	88.3	7.62		10.0
	Dieldrin	70.8	84.8	76.5	84.8	18.0		10.3
	Difenoconazole	79.9	67.2	94.6	94.7	17.3		0.0343
	Dimethenamid	73.6	76.1	73.8	76.1	3.37		3.01
	Disulfoton	79.5	64.5	90.4	97.3	20.9		7.39
	Dithiopyr	77.3	77.4	79.1	80.8	0.0873		2.03
	Endosulfan I	69.2	84.6	72.4	77.5	20.1		6.80
	Endosulfan II	55.8	64.4	52.9	53.3	14.4		0.741
	Endosulfan Sulfate	70.4	82.5	74.6	86.7	15.9		14.9
	Endrin	51.7	60.0	51.5	51.5	14.8		0.149
	Endrin Aldehyde	60.7	72.3	74.5	69.1	17.5		7.51
	Endrin Ketone	86.0	98.1	92.0	92.4	13.1		0.383

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	EPTC	57.2	55.8	45.7	57.4	2.49	22.6
	Esfenvalerate	78.7	86.9	110	115	9.96	5.24
	Ethalfuralin	65.8	79.8	71.5	66.8	19.2	6.89
	Ethion	101	106	81.1	88.1	4.90	8.24
	Ethoprop	89.4	88.2	88.0	94.7	1.40	7.27
	Fenamiphos	123	119	102	113	3.54	10.5
	Fenbuconazole	150	148	150	165	1.90	9.56
	Fenpropathrin	69.6	72.3	88.6	98.8	3.81	10.9
	Fipronil	95.5	93.7	96.8	105	1.88	7.68
	Fipronil Desulfinyl	97.5	96.0	100	106	1.48	5.72
	Fipronil Sulfide	103	105	98.4	105	2.49	6.25
	Fipronil Sulfone	103	103	94.5	101	0.0388	6.45
	Fluazifop-P-butyl	87.8	87.2	85.7	87.2	0.664	1.76
	Fludioxonil	82.9	88.8	86.5	90.8	6.93	4.87
	Flumioxazin	109	123	150	155	12.3	2.69
	Flutolanil	70.8	73.1	65.3	69.2	3.22	5.20
	Fluxapyroxad	158	159	172	184	0.869	6.47
	Fonofos	89.7	88.2	88.0	90.4	1.66	2.69
	Gamma-BHC	84.6	95.7	90.4	93.4	12.3	3.24
	Gamma-Chlordane	64.9	76.8	72.8	75.3	16.9	3.47
	Heptachlor	68.4	83.4	78.7	77.9	19.7	1.02
	Heptachlor Epoxide	68.5	80.4	72.9	79.4	16.1	8.61
	Hexachlorobenzene	67.4	77.0	74.1	71.7	13.2	3.32
	Hexazinone	99.8	97.8	98.3	101	2.05	2.81
	Imazalil	74.1	87.5	73.4	62.1	16.7	16.6
	Iprodione	92.7	98.7	87.9	101	6.30	13.8
	Kepone	29.6	35.5	24.0	23.0	18.2	4.05
	Lambda-Cyhalothrin	82.8	83.6	111	120	1.06	7.68
	Malathion	99.8	105	109	121	5.11	10.2
	Metalaxyl	72.8	72.6	71.3	75.1	0.281	5.24
	Methoprene	61.0	72.8	82.4	86.2	17.5	4.49
	Methoxychlor	82.3	93.1	89.6	96.1	12.2	7.01
	Metolachlor	81.0	82.9	76.8	85.8	2.24	10.3
	Metribuzin	96.6	99.4	91.6	100	2.91	8.70
	Mevinphos	92.6	96.3	95.1	113	3.91	17.0
	MGK-264	76.0	81.4	80.2	85.6	6.94	6.50
	Mirex	48.6	58.8	54.7	57.5	19.0	4.92
	Molinate	70.5	76.8	76.5	87.1	8.57	12.9
	Myclobutanil	86.9	85.4	85.6	86.3	1.80	0.838
	Naled	40.8	40.8	39.9	44.2	0.162	10.1
	Norflurazon	99.5	100	97.5	103	0.558	5.83
	Oxadiazon	75.7	73.9	70.9	72.9	2.39	2.75
	Oxychlordane	63.4	77.6	70.1	72.6	20.1	3.47
	Oxyfluorfen	94.2	95.2	105	109	1.02	4.30
	Parathion Ethyl	87.8	92.9	88.8	93.2	5.64	4.78
	Parathion Methyl	115	112	111	122	2.85	9.05
	Pendimethalin	66.4	67.6	75.3	77.4	1.80	2.68
	Permethrin	74.4	79.3	106	113	6.36	6.68
	Phenothrin	52.6	64.6	93.5	103	20.5	9.59
	Phorate	79.0	85.5	87.1	96.9	7.97	10.6
	Piperonyl Butoxide	102	115	102	107	12.0	5.11
	Piperonyl Butoxide	84.5	91.4			7.84	
	Prallethrin	71.4	70.7	74.9	83.3	0.959	10.5
	Prodimamine	89.8	90.5	107	118	0.794	8.95

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Prometon	76.1	74.4	70.7	74.1	2.36	4.71
	Prometryn	69.9	68.1	72.3	76.2	2.60	5.29
	Pronamide	81.9	80.6	82.9	87.5	1.69	5.36
	Propiconazole	92.1	95.5	92.6	97.6	3.67	5.25
	Pyriproxyfen	67.7	81.1	50.8	53.4	18.0	4.99
	Simazine	94.7	92.0	84.4	88.1	2.90	4.37
	Sulfentrazone	125	124	84.1	99.2	0.893	16.4
	Tau-Fluvalinate	69.2	85.2	106	119	20.8	11.9
	Tebuconazole	55.0	58.8	111	116	6.77	4.33
	Terbufos	101	108	112	120	6.74	7.09
	Terbutylazine	82.8	82.6	78.0	82.6	0.177	5.70
	Tetramethrin	81.5	88.8	94.1	88.1	8.52	6.60
	Trans-Nonachlor	68.0	81.6	76.4	79.0	18.1	3.45
	Triclosan Methyl	72.0	85.3	72.8	77.4	16.9	6.14
	Trifluralin	67.4	77.1	69.9	68.3	13.4	2.28
EPA 8276	Chlordane	72.7	74.5	88.8	91.2	2.48	1.90
	Toxaphene	76.5	77.1	92.9	89.4	0.764	1.70
EPA 8321B	2,4-D	98.8					2.51
	2,4,5-T	111		110	111		0.823
	Acesulfame K	95.2		138	131		5.37
	Acetaminophen	84.9		97.5	99.8		2.35
	Acetamiprid	92.7		96.0	105		8.82
	Afidopyropen	76.7		101	83.1		19.8
	AMPA	97.4		96.0	92.7		3.39
	Bentazon	123					12.5
	Benzovindiflupyr	85.2		104	83.1		22.4
	Carbamazepine	95.6		117	103		11.2
	Clothianidin	83.8		91.8	122		28.0
	Dinotefuran	84.6		114	134		16.3
	Diuron	76.3		74.2	56.9		22.7
	Endothall	80.0		94.4	96.3		1.94
	Fenuron	90.3		81.5	91.1		11.1
	Fluridone	86.3					12.3
	Glufosinate	93.8		88.9	94.0		5.61
	Glyphosate	94.7		80.5	84.5		4.90
	Hydrocodone	85.6		87.0	102		15.9
	Ibuprofen	80.5		56.9	59.3		4.12
	Imazapyr	93.6		107	88.0		11.4
	Imidacloprid	86.5		145	165		11.8
	Linuron	95.5		88.2	91.5		3.63
	Mandestrobin	83.8		90.3	76.9		16.0
	MCPP	115		137	140		2.45
	Naproxen	129		73.0	94.1		25.3
	Primidone	81.1		62.3	76.5		20.4
	Pyraclostrobin	80.6		92.9	79.8		15.1
	Sucralose	89.9		100	97.7		2.30
	Thiamethoxam	92.0		138	155		11.9
	Tolfenpyrad	43.6		45.6	44.6		2.13
	Triclopyr	99.1		121	100		18.9
SM 2120 B-2011	Color (true)	101				1.16	
SM 2320 B-2011	Total Alkalinity	102				0.298	
SM 2540 C-2011	TDS					5.13	
	TDS					1.77	
SM 4500 F-C-2011	Fluoride	98.6		94.8	96.3		1.40

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	Precision	MS
				LCS	SMP
SM 5310 B-2011	Organic Carbon	98.9	98.4 98.8		0.270

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2277057, 2277060
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2277057, 2277060
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2277057, 2277060
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2277058, 2277061
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2277058, 2277061
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2277058, 2277061
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2277058, 2277061
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2277059, 2277062
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2277067, 2277069
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2277068, 2277070
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2277067, 2277069
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2277065, 2277066
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2277057, 2277060
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2277057, 2277060
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2277057, 2277060
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2277057, 2277060
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2277057, 2277060
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2277058, 2277061

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	09/21/2021			09/21/2021 15:59	Khloe J Berg	2277057, 2277060
EPA 300.0 Rev. 2.1	09/21/2021			09/23/2021 14:35	Roberta Tatti	2277057
	09/21/2021			09/23/2021 15:23	Roberta Tatti	2277060
EPA 350.1 Rev. 2.0	09/21/2021			09/23/2021 13:04	Ping Hua	2277058
	09/21/2021			09/23/2021 13:05	Ping Hua	2277061
EPA 351.2 Rev. 2.0	09/21/2021	09/22/2021 11:21	Benjamin T. Nordmann	09/23/2021 11:37	Alexandra J Mattheus	2277058
	09/21/2021	09/22/2021 11:21	Benjamin T. Nordmann	09/23/2021 11:39	Alexandra J Mattheus	2277061
EPA 353.2 Rev. 2.0	09/21/2021			09/22/2021 10:13	Beverly Y. Sanders	2277058
	09/21/2021			09/22/2021 10:14	Beverly Y. Sanders	2277061
EPA 365.1 Rev. 2.0	09/21/2021	09/22/2021 13:13	Simonne.V. Calhoun	09/23/2021 11:35	Sarah A Nixon	2277058
	09/21/2021	09/22/2021 13:13	Simonne.V. Calhoun	09/23/2021 14:47	Sarah A Nixon	2277061
EPA 365.1 Rev. 2.0 dissolved	09/21/2021			09/21/2021 15:07	James L Waggeberby	2277062
	09/21/2021			09/21/2021 15:30	James L Waggeberby	2277059
EPA 8270E	09/21/2021	09/24/2021 08:00	Rasheda Ghaffari	09/29/2021 00:40	Arthur Maknenko	2277067
	09/21/2021	09/24/2021 08:00	Rasheda Ghaffari	10/01/2021 21:38	Arthur Maknenko	2277069
	09/21/2021	09/27/2021 08:00	Rasheda Ghaffari	09/29/2021 19:54	Vandana T. Nagar	2277068
	09/21/2021	09/27/2021 08:00	Rasheda Ghaffari	09/29/2021 20:19	Vandana T. Nagar	2277070
	09/21/2021	09/27/2021 08:00	Rasheda Ghaffari	10/04/2021 17:05	Vandana T. Nagar	2277068
	09/21/2021	10/05/2021 11:30	Fe-Val Siddell	10/08/2021 23:11	Arthur Maknenko	2277069
EPA 8276	09/21/2021	09/24/2021 08:00	Rasheda Ghaffari	09/30/2021 05:04	Julie Wi	2277067
	09/21/2021	09/24/2021 08:00	Rasheda Ghaffari	09/30/2021 05:59	Julie Wi	2277069
EPA 8321B	09/21/2021	09/23/2021 12:30	Juyoung Kim	09/23/2021 22:01	Juyoung Kim	2277065
	09/21/2021	09/23/2021 12:30	Juyoung Kim	09/23/2021 22:12	Juyoung Kim	2277066
	09/21/2021	09/23/2021 12:30	Juyoung Kim	09/24/2021 17:13	Manjita Shrestha	2277065
	09/21/2021	09/23/2021 12:30	Juyoung Kim	09/24/2021 17:28	Manjita Shrestha	2277066
	09/21/2021	09/24/2021 09:00	Hoor Shaik	09/25/2021 08:38	Juyoung Kim	2277065
	09/21/2021	09/24/2021 09:00	Hoor Shaik	09/25/2021 09:13	Juyoung Kim	2277066
SM 2120 B-2011	09/21/2021			09/21/2021 14:29	Benjamin T. Nordmann	2277060
	09/21/2021			09/21/2021 14:36	Benjamin T. Nordmann	2277057
SM 2320 B-2011	09/21/2021			09/22/2021 20:04	Dale L. Simmons	2277057
	09/21/2021			09/22/2021 20:12	Dale L. Simmons	2277060
SM 2540 C-2011	09/21/2021			09/23/2021 14:25	Yijie Li	2277057, 2277060
SM 2540 D-2011	09/21/2021			09/23/2021 14:36	Yijie Li	2277057, 2277060
SM 4500 F-C-2011	09/21/2021			09/22/2021 20:04	Dale L. Simmons	2277057
	09/21/2021			09/22/2021 20:12	Dale L. Simmons	2277060
SM 5310 B-2011	09/21/2021			09/24/2021 20:04	Khloe J Berg	2277058
	09/21/2021			09/24/2021 20:17	Khloe J Berg	2277061