

Chemical Analysis Report

SO-DIST-2021-06-09-01

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

Event Description: **2021 SMP : Large Highlands**
Request ID: **RQ-2021-06-07-46**
Customer: **SO-DIST**
Project ID: **SMP**

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FLDEP South District Office
2295 Victoria Ave. Suite 364
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 01-JUL-2021 15:03

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 first name.

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: C-19 @ US 27

Collection Date/Time: 06/08/2021 09:50

Field ID: G3SD0087

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2253742	EPA 180.1 Rev. 2.0	Turbidity	6.0		NTU	P399457	
	EPA 300.0 Rev. 2.1	Chloride	48		mg Cl/L	P399617	
		Sulfate	18		mg SO4/L	P399619	
	SM 2120 B-2011	Color (true)	74		PCU	P399460	
	SM 2320 B-2011	Total Alkalinity	110		mg CaCO3/L	P399897	
	SM 2540 C-2011	TDS	264		mg/L	P399792	
	SM 2540 D-2011	TSS	8	I	mg/L	P399680	
	SM 4500 F-C-2011	Fluoride	0.18		mg F/L	P399899	
2253743	EPA 350.1 Rev. 2.0	Ammonia-N	0.42		mg N/L	P400055	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P399711	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.017		mg N/L	P399690	
	EPA 365.1 Rev. 2.0	Total-P	0.098		mg P/L	P399851	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P399772	
2253744	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.01	I	mg P/L	P399452	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: C-19 CANAL

Collection Date/Time: 06/08/2021 10:35

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2253748	EPA 180.1 Rev. 2.0	Turbidity	11	A	NTU	P399458	
	EPA 300.0 Rev. 2.1	Chloride	47	A	mg Cl/L	P399907	
		Sulfate	19	A	mg SO4/L	P399909	
	SM 2120 B-2011	Color (true)	62		PCU	P399460	
	SM 2320 B-2011	Total Alkalinity	96		mg CaCO3/L	P399897	
	SM 2540 C-2011	TDS	255	A	mg/L	P399793	
	SM 2540 D-2011	TSS	20		mg/L	P399681	
	SM 4500 F-C-2011	Fluoride	0.17		mg F/L	P399899	
2253749	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P400055	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.2		mg N/L	P400010	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P399690	
	EPA 365.1 Rev. 2.0	Total-P	0.096		mg P/L	P399851	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P399772	
2253750	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P399452	
2253792	EPA 8321B	Aldicarb	0.020	U	ug/L	P399330	
		Aldicarb Sulfone	0.0020	U	ug/L	P399330	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P399330	
		Carbaryl	0.0020	U	ug/L	P399330	
		Carbofuran	0.0020	U	ug/L	P399330	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P399330	
		Methiocarb	0.0020	U	ug/L	P399330	
		Methomyl	0.0020	U	ug/L	P399330	
		Oxamyl	0.0020	U	ug/L	P399330	
		Propoxur	0.0020	U	ug/L	P399330	
		2,4-D	0.017		ug/L	P399432	
		Acesulfame K	0.10	U	ug/L	P399425	
2253793		2,4,5-T	0.0040	U	ug/L	P399432	
		AMPA	0.12	I	ug/L	P399425	
		Acetaminophen	0.0080	U	ug/L	P399432	
		Acetamiprid	0.0020	U	ug/L	P399432	
		Endothall	0.25	U	ug/L	P399425	
		Glufosinate	0.10	U	ug/L	P399425	
		Glyphosate	0.80		ug/L	P399425	
		Afidopyropen	0.0020	U	ug/L	P399432	
		Sucralose	0.099		ug/L	P399425	
		Bentazon	0.0069	J	ug/L	P399432	MS
		Benzovindiflupyr	0.0020	U	ug/L	P399432	
		Carbamazepine	8.0E-04	U	ug/L	P399432	
		Clothianidin	0.0030	I	ug/L	P399432	
		Dinotefuran	0.0020	U	ug/L	P399432	
		Diuron	0.0020	U	ug/L	P399432	
		Fenuron	0.016	U	ug/L	P399432	
		Fluridone	0.0036		ug/L	P399432	

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2253793	EPA 8321B	Imazapyr	0.44		ug/L	P399432	
		Hydrocodone	0.0020	U	ug/L	P399432	
		Ibuprofen	0.020	U	ug/L	P399432	
		Imidacloprid	0.0033	IJ	ug/L	P399432	MS
		Linuron	0.0040	U	ug/L	P399432	
		Mandestrobin	0.0020	U	ug/L	P399432	
		MCPP	0.0020	UJ	ug/L	P399432	MS
		Naproxen	0.0080	U	ug/L	P399432	
		Primidone	0.0040	U	ug/L	P399432	
		Pyraclostrobin	0.0020	U	ug/L	P399432	
		Thiamethoxam	0.0049	I	ug/L	P399432	
		Tolfenpyrad	0.0020	U	ug/L	P399432	
		Triclopyr	0.0040	U	ug/L	P399432	
2253804	EPA 8270E	Aldrin	0.71	U	ng/L	P399348	RPD
		Alpha-BHC	0.11	U	ng/L	P399348	
		Alpha-Chlordane	0.22	U	ng/L	P399348	
		Beta-BHC	0.11	U	ng/L	P399348	
		Beta-Cyfluthrin**	1.4	UJ	ng/L	P399348	LCS
		Bifenthrin**	0.54	U	ng/L	P399348	
		Chlorothalonil	0.54	U	ng/L	P399348	MS
		Cis-Nonachlor**	0.22	U	ng/L	P399348	
		Cypermethrin	1.6	U	ng/L	P399348	
		Dacthal**	0.16	U	ng/L	P399348	
		DDD-p,p'	0.27	U	ng/L	P399348	
		DDE-p,p'	0.22	U	ng/L	P399348	
		DDT-p,p'	0.27	U	ng/L	P399348	
		Delta-BHC	0.43	U	ng/L	P399348	
		Deltamethrin**	1.4	U	ng/L	P399348	MS, RPD
		Dichlobenil**	0.11	U	ng/L	P399348	
		Dicofol	1.4	U	ng/L	P399348	
		Dieldrin	0.43	U	ng/L	P399348	
		Endosulfan I	0.43	U	ng/L	P399348	
		Endosulfan II	0.43	U	ng/L	P399348	
		Endosulfan Sulfate	0.33	U	ng/L	P399348	
		Endrin	0.43	U	ng/L	P399348	
		Endrin Aldehyde	0.82	U	ng/L	P399348	
		Endrin Ketone	0.43	U	ng/L	P399348	
		Esfenvalerate**	0.82	U	ng/L	P399348	RPD
		Ethalfuralin**	0.16	U	ng/L	P399348	
		Fenpropathrin**	0.27	UJ	ng/L	P399348	CCV
		Gamma-BHC	0.14	U	ng/L	P399348	
		Gamma-Chlordane	0.22	U	ng/L	P399348	
		Heptachlor	0.22	U	ng/L	P399348	
		Heptachlor Epoxide	0.27	U	ng/L	P399348	
		Hexachlorobenzene	1.1	U	ng/L	P399348	

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2253804	EPA 8270E	Kepone**	5.4	UJ	ng/L	P399348	RPD
		Lambda-Cyhalothrin**	0.82	U	ng/L	P399348	
		Methoxychlor	0.33	U	ng/L	P399348	
		MGK-264**	0.22	U	ng/L	P399348	
		Mirex	0.33	U	ng/L	P399348	
		Permethrin	1.7	U	ng/L	P399348	
		Phenothrin**	0.98	U	ng/L	P399348	
		Piperonyl Butoxide**	0.16	U	ng/L	P399348	
		Prallethrin**	2.2	U	ng/L	P399348	
		Tau-Fluvalinate**	0.27	U	ng/L	P399348	
		Tetramethrin**	0.82	U	ng/L	P399348	
		Trans-Nonachlor**	0.22	U	ng/L	P399348	
		Triclosan Methyl**	0.16	U	ng/L	P399348	
		Trifluralin	0.22	U	ng/L	P399348	
		Chlordane	5.4	U	ng/L	P399348	
2253805	EPA 8276	Toxaphene	33	U	ng/L	P399348	LCS, MS
		Acetochlor	0.25	U	ng/L	P399659	
		Alachlor	0.25	U	ng/L	P399659	
	EPA 8270E	Ametryn	0.60	U	ng/L	P399659	
		Atrazine	230		ng/L	P399659	
		Atrazine Desethyl	31		ng/L	P399659	
		Azinphos Methyl	2.0	U	ng/L	P399659	
		Azoxystrobin**	2.0	I	ng/L	P399659	
		Bromacil	4.6		ng/L	P399659	
		Butylate	0.40	U	ng/L	P399659	
		Caffeine**	69		ng/L	P399659	
		Carbophenothion	0.50	U	ng/L	P399659	
		Carfentrazone Ethyl**	0.099	U	ng/L	P399659	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P399659	
		Chlorpyrifos Methyl	0.050	U	ng/L	P399659	
		Cyanazine	3.2	U	ng/L	P399659	
		Demeton	1.5	UJ	ng/L	P399659	
		Diazinon	0.12	U	ng/L	P399659	
		Difenoconazole**	0.60	U	ng/L	P399659	
		Dimethenamid**	0.099	U	ng/L	P399659	
		Disulfoton	0.50	U	ng/L	P399659	
		Dithiopyr**	0.17	U	ng/L	P399659	
		EPTC	1.2	U	ng/L	P399659	
		Ethion	0.15	U	ng/L	P399659	
		Ethoprop	0.099	U	ng/L	P399659	
		Fenamiphos	0.50	U	ng/L	P399659	
		Fenbuconazole**	0.14	I	ng/L	P399659	
		Fipronil	0.25	U	ng/L	P399659	
		Fipronil Desulfinyl**	0.12	U	ng/L	P399659	
		Fipronil Sulfide	0.15	U	ng/L	P399659	

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2253805	EPA 8270E	Fipronil Sulfone	0.15	U	ng/L	P399659	
		Fluazifop-P-butyl**	0.099	U	ng/L	P399659	
		Fludioxonil**	0.12	U	ng/L	P399659	
		Flumioxazin**	1.7	U	ng/L	P399659	
		Flutolanil**	0.099	U	ng/L	P399659	
		Fluxapyroxad**	0.75		ng/L	P399659	
		Fonofos	0.20	U	ng/L	P399659	
		Hexazinone	31		ng/L	P399659	
		Imazalil**	0.74	U	ng/L	P399659	
		Iprodione**	0.60	U	ng/L	P399659	
		Malathion	0.35	U	ng/L	P399659	
		Metalaxyl	2.2	I	ng/L	P399659	
		Metolachlor	37		ng/L	P399659	
		Metribuzin	3.8	I	ng/L	P399659	
		Mevinphos	1.0	U	ng/L	P399659	
		Molinate	0.30	U	ng/L	P399659	
		Myclobutanil**	0.25	U	ng/L	P399659	
		Naled**	1.5	U	ng/L	P399659	
		Norflurazon	5.1		ng/L	P399659	
		Oxadiazon	0.30	U	ng/L	P399659	
		Oxyfluorfen**	0.15	U	ng/L	P399659	
		Parathion Ethyl	0.25	U	ng/L	P399659	
		Parathion Methyl	0.55	U	ng/L	P399659	
		Pendimethalin	0.99	U	ng/L	P399659	
		Phorate	0.52	U	ng/L	P399659	
		Prodiamine**	0.17	U	ng/L	P399659	
		Prometon	0.89	U	ng/L	P399659	
		Prometryn	0.20	U	ng/L	P399659	
		Pronamide**	0.15	U	ng/L	P399659	
		Propiconazole**	2.1		ng/L	P399659	
		Pyriproxyfen**	0.12	U	ng/L	P399659	
		Simazine	51		ng/L	P399659	
		Sulfentrazone**	0.50	U	ng/L	P399659	
		Tebuconazole**	0.50	U	ng/L	P399659	
		Terbufos	0.099	U	ng/L	P399659	
		Terbuthylazine	0.42	U	ng/L	P399659	

Ref. Method and Comment:

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8321B: MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

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. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB

Collection Date/Time: 06/08/2021 10:45

Field ID: FB_06082021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2253806	EPA 8270E	Aldrin	0.74	U	ng/L	P399348	RPD
		Alpha-BHC	0.11	U	ng/L	P399348	
		Alpha-Chlordane	0.23	U	ng/L	P399348	
		Beta-BHC	0.11	U	ng/L	P399348	
		Beta-Cyfluthrin**	1.4	UJ	ng/L	P399348	LCS
		Bifenthrin**	0.57	U	ng/L	P399348	
		Carbophenothion	0.40	U	ng/L	P399348	
		Chlorothalonil	0.57	U	ng/L	P399348	MS
		Cis-Nonachlor**	0.23	U	ng/L	P399348	
		Cypermethrin	1.7	U	ng/L	P399348	
		Dacthal**	0.17	U	ng/L	P399348	
		DDD-p,p'	0.28	U	ng/L	P399348	
		DDE-p,p'	0.23	U	ng/L	P399348	
		DDT-p,p'	0.28	U	ng/L	P399348	
		Delta-BHC	0.45	U	ng/L	P399348	
		Deltamethrin**	1.4	U	ng/L	P399348	MS, RPD
		Dichlobenil**	0.11	U	ng/L	P399348	
		Dicofol	1.4	U	ng/L	P399348	
		Dieldrin	0.45	U	ng/L	P399348	
		Endosulfan I	0.45	U	ng/L	P399348	
		Endosulfan II	0.45	U	ng/L	P399348	
		Endosulfan Sulfate	0.34	U	ng/L	P399348	
		Endrin	0.45	U	ng/L	P399348	
		Endrin Aldehyde	0.85	U	ng/L	P399348	
		Endrin Ketone	0.45	U	ng/L	P399348	
		Esfenvalerate**	0.85	U	ng/L	P399348	RPD
		Ethalfuralin**	0.17	U	ng/L	P399348	
		Fenpropathrin**	0.28	UJ	ng/L	P399348	CCV
		Gamma-BHC	0.14	U	ng/L	P399348	
		Gamma-Chlordane	0.23	U	ng/L	P399348	
		Heptachlor	0.23	U	ng/L	P399348	
		Heptachlor Epoxide	0.28	U	ng/L	P399348	
		Hexachlorobenzene	1.1	U	ng/L	P399348	
		Kepone**	5.7	UJ	ng/L	P399348	RPD
		Lambda-Cyhalothrin**	0.85	U	ng/L	P399348	
		Methoxychlor	0.34	U	ng/L	P399348	
		MGK-264**	0.23	U	ng/L	P399348	
		Mirex	0.34	U	ng/L	P399348	
		Permethrin	1.8	U	ng/L	P399348	
		Phenothrin**	1.0	U	ng/L	P399348	
		Piperonyl Butoxide**	0.17	U	ng/L	P399348	
		Prallethrin**	2.3	U	ng/L	P399348	
		Tau-Fluvalinate**	0.28	U	ng/L	P399348	
		Tetramethrin**	0.85	U	ng/L	P399348	

Field ID: FB_06082021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2253806	EPA 8270E	Trans-Nonachlor**	0.23	U	ng/L	P399348	
		Triclosan Methyl**	0.17	U	ng/L	P399348	
		Trifluralin	0.23	U	ng/L	P399348	

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

Sample Location: NINE MILE CANAL @ SR 80

Collection Date/Time: 06/08/2021 11:30

Field ID: G3SD0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2253745	EPA 180.1 Rev. 2.0	Turbidity	7.4		NTU	P399457	
	EPA 300.0 Rev. 2.1	Chloride	53		mg Cl/L	P399617	
		Sulfate	41		mg SO4/L	P399619	
	SM 2120 B-2011	Color (true)	93		PCU	P399460	
	SM 2320 B-2011	Total Alkalinity	156		mg CaCO3/L	P399897	
	SM 2540 C-2011	TDS	375		mg/L	P399792	
	SM 2540 D-2011	TSS	6	I	mg/L	P399680	
	SM 4500 F-C-2011	Fluoride	0.31		mg F/L	P399899	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.13		mg N/L	P400055	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.1		mg N/L	P400010	
2253746	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P399690	
	EPA 365.1 Rev. 2.0	Total-P	0.24		mg P/L	P399851	
	SM 5310 B-2011	Organic Carbon	23		mg C/L	P399772	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.11		mg P/L	P399452	
	EPA 8270E	Acetochlor	0.25	UJ	ng/L	P399659	SUR
2253803		Alachlor	0.25	UJ	ng/L	P399659	SUR
		Ametryn	0.60	UJ	ng/L	P399659	SUR
		Atrazine	2.4E+04	J	ng/L	P399659	SUR
		Atrazine Desethyl	710	J	ng/L	P399659	SUR
		Azinphos Methyl	2.0	U	ng/L	P399659	
		Azoxystrobin**	9.5	J	ng/L	P399659	SUR
		Bromacil	87	J	ng/L	P399659	SUR
		Butylate	0.40	UJ	ng/L	P399659	SUR
		Caffeine**	24	I	ng/L	P399659	
		Carbophenothion	0.50	U	ng/L	P399659	
		Carfentrazone Ethyl**	0.10	UJ	ng/L	P399659	SUR
		Chlorpyrifos Ethyl	0.25	U	ng/L	P399659	
		Chlorpyrifos Methyl	0.050	U	ng/L	P399659	
		Cyanazine	3.2	UJ	ng/L	P399659	SUR
		Demeton	1.5	UJ	ng/L	P399659	LCS, MS
		Diazinon	0.12	U	ng/L	P399659	
		Difenoconazole**	0.60	UJ	ng/L	P399659	SUR
		Dimethenamid**	0.10	UJ	ng/L	P399659	SUR
		Disulfoton	0.50	U	ng/L	P399659	
		Dithiopyr**	0.17	UJ	ng/L	P399659	SUR
		EPTC	1.2	UJ	ng/L	P399659	SUR
		Ethion	0.15	U	ng/L	P399659	
		Ethoprop	0.10	U	ng/L	P399659	
		Fenamiphos	0.50	U	ng/L	P399659	
		Fenbuconazole**	0.12	UJ	ng/L	P399659	SUR
		Fipronil	0.25	UJ	ng/L	P399659	SUR
		Fipronil Desulfinyl**	0.12	UJ	ng/L	P399659	SUR
		Fipronil Sulfide	0.15	UJ	ng/L	P399659	SUR

Field ID: G3SD0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2253803	EPA 8270E	Fipronil Sulfone	0.15	UJ	ng/L	P399659	SUR
		Fluazifop-P-butyl**	0.10	UJ	ng/L	P399659	SUR
		Fludioxonil**	0.12	UJ	ng/L	P399659	SUR
		Flumioxazin**	1.7	UJ	ng/L	P399659	SUR
		Flutolanil**	0.10	UJ	ng/L	P399659	SUR
		Fluxapyroxad**	35	J	ng/L	P399659	SUR
		Fonofos	0.20	U	ng/L	P399659	
		Hexazinone	21	J	ng/L	P399659	SUR
		Imazalil**	0.75	UJ	ng/L	P399659	SUR
		Iprodione**	0.60	UJ	ng/L	P399659	SUR
		Malathion	0.35	U	ng/L	P399659	
		Metalaxyl	6.9	J	ng/L	P399659	SUR
		Metolachlor	100	J	ng/L	P399659	SUR
		Metribuzin	13	J	ng/L	P399659	SUR
		Mevinphos	1.0	U	ng/L	P399659	
		Molinate	0.30	UJ	ng/L	P399659	SUR
		Myclobutanil**	0.72	IJ	ng/L	P399659	SUR
		Naled**	1.5	U	ng/L	P399659	
		Norflurazon	180	J	ng/L	P399659	SUR
		Oxadiazon	0.33	IJ	ng/L	P399659	SUR
		Oxyfluorfen**	0.15	UJ	ng/L	P399659	SUR
		Parathion Ethyl	0.25	U	ng/L	P399659	
		Parathion Methyl	0.55	U	ng/L	P399659	
		Pendimethalin	1.0	UJ	ng/L	P399659	SUR
		Phorate	0.52	U	ng/L	P399659	
		Prodiamine**	0.17	UJ	ng/L	P399659	SUR
		Prometon	0.90	UJ	ng/L	P399659	SUR
		Prometryn	0.20	UJ	ng/L	P399659	SUR
		Pronamide**	0.15	UJ	ng/L	P399659	SUR
		Propiconazole**	0.50	UJ	ng/L	P399659	SUR
		Pyriproxyfen**	0.12	UJ	ng/L	P399659	SUR
		Simazine	1.4E+03	J	ng/L	P399659	SUR
		Sulfentrazone**	0.50	UJ	ng/L	P399659	SUR
		Tebuconazole**	0.50	UJ	ng/L	P399659	SUR
		Terbufos	0.10	U	ng/L	P399659	
		Terbuthylazine	0.42	UJ	ng/L	P399659	SUR

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8270E: MS accuracy for caffeine not assessed due to high content of this parameter in the sample spiked. Reported results are J qualified due to the surrogate simazine-d10 recovery exceeding control limits. Reported result J qualified for hexazinone due to the internal standard recovery exceeding control limits. 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: P399457

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P399458

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399617

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399619

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399907

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399909

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P400055

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399711

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P400010

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P399690

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P399851

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P399452

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

Reference Method: EPA 8270E

Batch ID: P399348

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.35	U	ng/L
Chlorothalonil	0.50	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.10	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P399348

Component	Result	Code	Units
Lambda-Cyhalothrin	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.30	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P399659

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P399659

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P399659

Component	Result	Code	Units
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
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 8276

Batch ID: P399348

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P399330

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: EPA 8321B

Batch ID: P399425

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

Reference Method: EPA 8321B

Batch ID: P399432

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B-2011
Batch ID: P399460

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P399897

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

Reference Method: SM 2540 C-2011
Batch ID: P399792

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P399793

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P399680

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P399681

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P399899

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P399772

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: P399617

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399619

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399907

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399909

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P400055

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399711

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	107		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P400010

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P399690

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P399851

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P399452

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

Reference Method: EPA 8270E
 Batch ID: P399348

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	52.3	52.6	P/P	20 - 150
Alpha-BHC	98.1	93.9	P/P	50 - 150
Alpha-Chlordane	100	94.5	P/P	50 - 150
Beta-BHC	118	110	P/P	50 - 150
Beta-Cyfluthrin	154	129	F/P	50 - 150
Bifenthrin	100	93.3	P/P	40 - 150
Carbophenothion	71.2	67.0	P/P	20 - 150
Chlorothalonil	137	128	P/P	20 - 150
Cis-Nonachlor	105	94.0	P/P	50 - 150
Cypermethrin	143	125	P/P	50 - 150
Dacthal	109	101	P/P	50 - 150
DDD-p,p'	99.3	89.6	P/P	50 - 150
DDE-p,p'	95.2	90.1	P/P	50 - 150
DDT-p,p'	101	94.9	P/P	50 - 150
Delta-BHC	130	119	P/P	50 - 150
Deltamethrin	146	150	P/P	50 - 150
Dichlobenil	60.4	54.7	P/P	40 - 150
Dicofol	102	93.7	P/P	50 - 150
Dieldrin	105	98.8	P/P	50 - 150
Endosulfan I	100	96.9	P/P	50 - 150
Endosulfan II	107	99.5	P/P	50 - 150
Endosulfan Sulfate	107	98.5	P/P	50 - 150
Endrin	98.7	92.5	P/P	50 - 150
Endrin Aldehyde	101	88.5	P/P	50 - 150
Endrin Ketone	106	98.5	P/P	50 - 150
Esfenvalerate	164	145	P/P	50 - 180
Ethalfuralin	89.7	87.9	P/P	50 - 150
Fenpropathrin	105	82.3	P/P	50 - 150
Gamma-BHC	105	99.6	P/P	50 - 150
Gamma-Chlordane	98.2	88.2	P/P	50 - 150
Heptachlor	82.4	78.2	P/P	50 - 150
Heptachlor Epoxide	102	94.1	P/P	50 - 150
Hexachlorobenzene	79.2	76.5	P/P	50 - 150
Kepone	146	82.1	P/P	30 - 180
Lambda-Cyhalothrin	177	140	P/P	50 - 200
Methoxychlor	104	98.0	P/P	50 - 150
MGK-264	89.5	83.7	P/P	30 - 150
Mirex	174	162	P/P	50 - 180
Permethrin	135	127	P/P	50 - 150
Phenothrin	75.4	65.7	P/P	20 - 150
Piperonyl Butoxide	104	96.9	P/P	50 - 150
Prallethrin	80.6	82.0	P/P	30 - 150
Tau-Fluvalinate	115	107	P/P	40 - 150
Tetramethrin	94.6	92.8	P/P	30 - 150
Trans-Nonachlor	98.7	87.9	P/P	50 - 150
Triclosan Methyl	104	98.6	P/P	50 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P399348

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Trifluralin	88.5	86.4	P/P	50 - 150

Reference Method: EPA 8270E
 Batch ID: P399659

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	98.5	114	P/P	70 - 121
Alachlor	100	109	P/P	70 - 119
Ametryn	85.6	101	P/P	61 - 135
Atrazine	93.7	112	P/P	76 - 123
Atrazine Desethyl	67.6	77.1	P/P	35 - 140
Azinphos Methyl	100	115	P/P	57 - 163
Azoxystrobin	98.1	125	P/P	43 - 231
Bromacil	85.3	102	P/P	42 - 123
Butylate	43.1	49.8	P/P	34 - 92.0
Caffeine	101	102	P/P	70 - 130
Carbophenothion	99.9	118	P/P	61 - 121
Carfentrazone Ethyl	100	121	P/P	62 - 139
Chlorpyrifos Ethyl	95.1	114	P/P	67 - 121
Chlorpyrifos Methyl	98.2	114	P/P	67 - 120
Cyanazine	129	150	P/P	20 - 226
Demeton	29.7	32.1	F/F	35 - 125
Diazinon	93.9	115	P/P	70 - 122
Difenoconazole	136	164	P/P	56 - 186
Dimethenamid	76.8	88.7	P/P	67 - 119
Disulfoton	70.5	79.8	P/P	47 - 120
Dithiopyr	87.4	104	P/P	67 - 118
EPTC	47.8	53.3	P/P	33 - 90.0
Ethion	69.4	78.6	P/P	40 - 133
Ethoprop	80.8	93.4	P/P	61 - 121
Fenamiphos	107	113	P/P	31 - 139
Fenbuconazole	104	127	P/P	66 - 141
Fipronil	92.4	110	P/P	62 - 129
Fipronil Desulfinyl	95.5	114	P/P	59 - 126
Fipronil Sulfide	74.1	88.2	P/P	63 - 117
Fipronil Sulfone	76.5	91.9	P/P	57 - 117
Fluazifop-P-butyl	96.9	114	P/P	63 - 124
Fludioxonil	96.1	112	P/P	63 - 123
Flumioxazin	156	180	P/P	34 - 245
Flutolanil	84.7	97.3	P/P	56 - 131
Fluxapyroxad	83.3	99.8	P/P	57 - 117
Fonofos	83.2	98.2	P/P	61 - 116
Hexazinone	101	118	P/P	55 - 138
Imazalil	69.9	80.8	P/P	33 - 143
Iprodione	78.1	99.4	P/P	59 - 118
Malathion	102	120	P/P	62 - 138
Metalaxyl	91.4	105	P/P	24 - 147
Metolachlor	94.3	114	P/P	68 - 118
Metribuzin	91.9	106	P/P	20 - 239
Mevinphos	80.8	94.8	P/P	46 - 124
Molinate	61.1	67.2	P/P	46 - 100
Myclobutanil	92.1	106	P/P	32 - 149

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P399659

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naled	64.1	79.4	P/P	32 - 95.0
Norflurazon	89.3	106	P/P	57 - 127
Oxadiazon	84.4	99.7	P/P	63 - 118
Oxyfluorfen	92.8	108	P/P	69 - 137
Parathion Ethyl	86.6	106	P/P	70 - 113
Parathion Methyl	94.2	109	P/P	71 - 130
Pendimethalin	71.7	82.0	P/P	55 - 118
Phorate	70.1	81.1	P/P	46 - 125
Prodiamine	37.4	42.1	P/P	20 - 141
Prometon	85.5	103	P/P	54 - 122
Prometryn	84.1	103	P/P	66 - 124
Pronamide	89.0	111	P/P	79 - 122
Propiconazole	84.3	99.1	P/P	61 - 126
Pyriproxyfen	77.3	92.6	P/P	52 - 131
Simazine	97.2	106	P/P	75 - 128
Sulfentrazone	89.2	101	P/P	20 - 132
Tebuconazole	62.8	73.7	P/P	20 - 116
Terbufos	97.4	116	P/P	61 - 117
Terbutylazine	89.2	108	P/P	74 - 116

Reference Method: EPA 8276

Batch ID: P399348

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	90.4	89.9	P/P	56 - 117
Toxaphene	106	107	P/P	45 - 116

Reference Method: EPA 8321B

Batch ID: P399330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.6		P	40 - 150
Aldicarb	73.9		P	30 - 150
Aldicarb Sulfone	83.4		P	40 - 150
Aldicarb Sulfoxide	95.5		P	40 - 150
Carbaryl	74.4		P	40 - 150
Carbofuran	76.2		P	40 - 150
Methiocarb	71.8		P	40 - 150
Methomyl	76.4		P	40 - 150
Oxamyl	80.4		P	40 - 150
Propoxur	71.2		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P399425

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	83.0		P	40 - 150
AMPA	96.0		P	40 - 150
Endothall	108		P	40 - 150
Glufosinate	110		P	40 - 150
Glyphosate	112		P	40 - 150
Sucralose	93.2		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P399432

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	103		P	30 - 160
2,4,5-T	113		P	30 - 160
Acetaminophen	68.3		P	30 - 150
Acetamiprid	86.9		P	30 - 160
Afidopyropen	78.1		P	30 - 160
Bentazon	37.6		P	30 - 150
Benzovindiflupyr	82.5		P	30 - 160
Carbamazepine	81.4		P	30 - 160
Clothianidin	94.3		P	30 - 160
Dinotefuran	78.2		P	30 - 160
Diuron	84.2		P	30 - 160
Fenuron	98.5		P	30 - 160
Fluridone	82.0		P	30 - 160
Hydrocodone	91.0		P	30 - 160
Ibuprofen	71.9		P	30 - 160
Imazapyr	92.8		P	30 - 160
Imidacloprid	87.0		P	30 - 160
Linuron	73.1		P	30 - 160
Mandestrobin	93.7		P	30 - 160
MCPP	140		P	30 - 160
Naproxen	96.6		P	30 - 160
Primidone	90.4		P	30 - 160
Pyraclostrobin	71.7		P	30 - 160
Thiamethoxam	85.2		P	30 - 160
Tolfenpyrad	56.8		P	30 - 160
Triclopyr	113		P	30 - 160

Reference Method: SM 2120 B-2011
Batch ID: P399460

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.3		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P399897

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

Reference Method: SM 4500 F-C-2011
Batch ID: P399899

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P399772

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.7		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399617

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253303	Chloride	97.8		P	90 - 110
2253358	Chloride	97.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399619

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253303	Sulfate	98.0		P	90 - 110
2253358	Sulfate	97.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399907

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253748	Chloride	91.9		P	90 - 110
2254815	Chloride	94.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399909

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253748	Sulfate	94.5		P	90 - 110
2254815	Sulfate	94.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P400055

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253855	Ammonia-N	99.6	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P399690

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253617	NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P399851

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253361	Total-P	101	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P399452

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253344	O-Phosphate-P	99.9	100	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P399348

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P399348

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253065	Aldrin	53.9	37.0	P/P	20 - 170
2253065	Alpha-BHC	98.2	90.0	P/P	50 - 170
2253065	Alpha-Chlordane	85.3	65.6	P/P	50 - 170
2253065	Beta-BHC	128	114	P/P	50 - 170
2253065	Beta-Cyfluthrin	107	139	P/P	50 - 170
2253065	Bifenthrin	74.8	67.5	P/P	40 - 170
2253065	Carbophenothion	72.8	65.9	P/P	20 - 170
2253065	Chlorothalonil	12.8	7.88	F/F	20 - 170
2253065	Cis-Nonachlor	82.0	68.2	P/P	50 - 170
2253065	Cypermethrin	101	119	P/P	50 - 170
2253065	Dacthal	100	90.8	P/P	50 - 170
2253065	DDD-p,p'	78.4	68.2	P/P	50 - 170
2253065	DDE-p,p'	75.2	60.8	P/P	50 - 170
2253065	DDT-p,p'	77.9	65.7	P/P	50 - 170
2253065	Delta-BHC	140	137	P/P	50 - 170
2253065	Deltamethrin	122	189	P/F	50 - 170
2253065	Dichlobenil	47.0	50.3	P/P	40 - 170
2253065	Dicofol	89.6	84.0	P/P	50 - 170
2253065	Dieldrin	90.2	76.4	P/P	50 - 170
2253065	Endosulfan I	92.8	82.9	P/P	50 - 170
2253065	Endosulfan II	110	98.7	P/P	50 - 170
2253065	Endosulfan Sulfate	97.1	86.5	P/P	50 - 170
2253065	Endrin	85.5	81.2	P/P	50 - 170
2253065	Endrin Aldehyde	64.1	73.9	P/P	50 - 170
2253065	Endrin Ketone	96.5	92.0	P/P	50 - 170
2253065	Esfenvalerate	112	164	P/P	50 - 180
2253065	Ethalfuralin	79.2	67.4	P/P	50 - 170
2253065	Fenpropathrin	71.0	63.4	P/P	50 - 170
2253065	Gamma-BHC	113	103	P/P	50 - 170
2253065	Gamma-Chlordane	79.2	64.2	P/P	50 - 170
2253065	Heptachlor	66.2	58.2	P/P	50 - 170
2253065	Heptachlor Epoxide	88.7	77.3	P/P	50 - 170
2253065	Hexachlorobenzene	64.1	52.8	P/P	50 - 170
2253065	Kepone	126	117	P/P	30 - 180
2253065	Lambda-Cyhalothrin	125	156	P/P	50 - 200
2253065	Methoxychlor	93.1	85.3	P/P	50 - 170
2253065	MGK-264	89.7	67.8	P/P	30 - 170
2253065	Mirex	132	107	P/P	50 - 180
2253065	Permethrin	97.8	132	P/P	50 - 170
2253065	Phenothrin	74.2	90.0	P/P	20 - 170
2253065	Piperonyl Butoxide	96.0	93.6	P/P	50 - 170
2253065	Prallethrin	80.6	70.7	P/P	30 - 170
2253065	Tau-Fluvalinate	87.8	110	P/P	40 - 170
2253065	Tetramethrin	92.3	89.2	P/P	30 - 170
2253065	Trans-Nonachlor	80.0	64.7	P/P	50 - 170
2253065	Triclosan Methyl	88.1	74.6	P/P	50 - 170
2253065	Trifluralin	76.8	65.0	P/P	50 - 170

Reference Method: EPA 8270E
Batch ID: P399659

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P399659

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2252632	Acetochlor	106	117	P/P	66 - 122
2252632	Alachlor	100	112	P/P	65 - 122
2252632	Ametryn	92.6	106	P/P	45 - 173
2252632	Atrazine	92.2	106	P/P	70 - 134
2252632	Atrazine Desethyl	49.6	56.2	P/P	25 - 150
2252632	Azinphos Methyl	94.3	121	P/P	44 - 174
2252632	Azoxystrobin	117	119	P/P	10 - 268
2252632	Bromacil	83.3	95.4	P/P	31 - 145
2252632	Butylate	53.0	54.6	P/P	15 - 97.0
2252632	Carbophenothion	90.9	101	P/P	42 - 129
2252632	Carfentrazone Ethyl	101	112	P/P	62 - 145
2252632	Chlorpyrifos Ethyl	97.1	102	P/P	60 - 124
2252632	Chlorpyrifos Methyl	95.8	105	P/P	66 - 119
2252632	Cyanazine	114	128	P/P	17 - 225
2252632	Demeton	34.5	35.9	F/F	36 - 142
2252632	Diazinon	104	118	P/P	70 - 128
2252632	Difenoconazole	130	147	P/P	33 - 222
2252632	Dimethenamid	70.6	81.5	P/P	54 - 125
2252632	Disulfoton	76.4	83.3	P/P	49 - 133
2252632	Dithiopyr	95.3	105	P/P	55 - 123
2252632	EPTC	55.0	59.1	P/P	19 - 91.0
2252632	Ethion	46.0	51.5	P/P	13 - 143
2252632	Ethoprop	89.8	98.6	P/P	49 - 144
2252632	Fenamiphos	85.5	94.7	P/P	32 - 136
2252632	Fenbuconazole	105	119	P/P	73 - 148
2252632	Fipronil	91.8	104	P/P	57 - 129
2252632	Fipronil Desulfinyl	90.6	107	P/P	49 - 127
2252632	Fipronil Sulfide	79.5	85.4	P/P	44 - 127
2252632	Fipronil Sulfone	79.9	89.3	P/P	35 - 126
2252632	Fluazifop-P-butyl	91.5	101	P/P	67 - 129
2252632	Fludioxonil	91.7	105	P/P	61 - 126
2252632	Flumioxazin	151	172	P/P	38 - 279
2252632	Flutolanil	74.4	90.2	P/P	55 - 136
2252632	Fluxapyroxad	70.7	82.6	P/P	33 - 140
2252632	Fonofos	89.8	96.4	P/P	58 - 125
2252632	Hexazinone	97.6	102	P/P	57 - 148
2252632	Imazalil	65.1	80.4	P/P	10 - 221
2252632	Iprodione	82.3	90.1	P/P	32 - 140
2252632	Malathion	100	113	P/P	52 - 138
2252632	Metalaxyl	93.8	108	P/P	46 - 134
2252632	Metolachlor	87.5	108	P/P	58 - 122
2252632	Metribuzin	106	119	P/P	16 - 272
2252632	Mevinphos	86.5	93.3	P/P	45 - 140
2252632	Molinate	69.9	74.9	P/P	41 - 103
2252632	Myclobutanil	80.5	96.4	P/P	60 - 134
2252632	Naled	77.0	84.8	P/P	20 - 113
2252632	Norflurazon	84.3	93.0	P/P	51 - 123
2252632	Oxadiazon	76.1	87.9	P/P	44 - 125
2252632	Oxyfluorfen	83.7	97.9	P/P	66 - 176
2252632	Parathion Ethyl	93.0	97.7	P/P	57 - 132
2252632	Parathion Methyl	97.2	106	P/P	59 - 156
2252632	Pendimethalin	78.9	79.9	P/P	59 - 129

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P399659

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2252632	Phorate	78.4	85.4	P/P	47 - 136
2252632	Prodiamine	42.7	48.2	P/P	10 - 159
2252632	Prometon	88.3	99.8	P/P	59 - 127
2252632	Prometryn	83.3	97.4	P/P	59 - 129
2252632	Pronamide	92.4	101	P/P	65 - 145
2252632	Propiconazole	80.3	92.3	P/P	28 - 165
2252632	Pyriproxyfen	72.4	81.3	P/P	21 - 180
2252632	Simazine	87.7	106	P/P	63 - 147
2252632	Sulfentrazone	83.6	96.5	P/P	32 - 136
2252632	Tebuconazole	46.1	51.7	P/P	10 - 117
2252632	Terbufos	107	116	P/P	61 - 131
2252632	Terbuthylazine	89.9	100	P/P	62 - 126

Reference Method: EPA 8276

Batch ID: P399348

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253925	Chlordane	93.2	101	P/P	47 - 128
2253925	Toxaphene	107	94.8	P/P	11 - 163

Reference Method: EPA 8321B

Batch ID: P399330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2252078	3-Hydroxycarbofuran	97.6	86.7	P/P	40 - 150
2252078	Aldicarb	78.6	71.4	P/P	30 - 150
2252078	Aldicarb Sulfone	108	101	P/P	40 - 150
2252078	Aldicarb Sulfoxide	103	98.7	P/P	40 - 150
2252078	Carbaryl	79.2	73.3	P/P	40 - 150
2252078	Carbofuran	75.3	74.0	P/P	40 - 150
2252078	Methiocarb	71.9	75.4	P/P	40 - 150
2252078	Methomyl	74.2	73.3	P/P	40 - 150
2252078	Oxamyl	93.6	91.1	P/P	40 - 150
2252078	Propoxur	72.1	67.9	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P399425

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253793	Acesulfame K	115	114	P/P	40 - 150
2253793	AMPA	79.8	83.5	P/P	40 - 150
2253793	Endothall	58.6	70.1	P/P	40 - 150
2253793	Glufosinate	115	119	P/P	40 - 150
2253793	Glyphosate	102	102	P/P	40 - 150
2253793	Sucralose	100	111	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P399432

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253793	2,4-D	146	152	P/P	30 - 160
2253793	2,4,5-T	126	151	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P399432

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253793	Acetaminophen	74.7	78.0	P/P	30 - 150
2253793	Acetamiprid	83.9	72.6	P/P	30 - 160
2253793	Afidopyropen	82.5	77.0	P/P	30 - 160
2253793	Bentazon	22.2	28.3	F/F	30 - 150
2253793	Benzovindiflupyr	90.7	101	P/P	30 - 160
2253793	Carbamazepine	85.0	88.7	P/P	30 - 160
2253793	Clothianidin	102	107	P/P	30 - 160
2253793	Dinotefuran	96.0	95.3	P/P	30 - 160
2253793	Diuron	80.8	78.9	P/P	30 - 160
2253793	Fenuron	82.3	87.4	P/P	30 - 160
2253793	Fluridone	79.2	86.4	P/P	30 - 160
2253793	Hydrocodone	82.1	88.9	P/P	30 - 160
2253793	Ibuprofen	95.8	90.3	P/P	30 - 160
2253793	Imidacloprid	163	179	F/F	30 - 160
2253793	Linuron	75.5	80.9	P/P	30 - 160
2253793	Mandestrobin	100	110	P/P	30 - 160
2253793	MCPP	188	217	F/F	30 - 160
2253793	Naproxen	110	124	P/P	30 - 160
2253793	Primidone	97.5	97.5	P/P	30 - 160
2253793	Pyraclostrobin	75.2	84.4	P/P	30 - 160
2253793	Thiamethoxam	112	116	P/P	30 - 160
2253793	Tolfenpyrad	68.5	79.8	P/P	30 - 160
2253793	Triclopyr	147	156	P/P	30 - 160

Reference Method: SM 4500 F-C-2011

Batch ID: P399899

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2252615	Fluoride	101	101	P/P	92 - 107

Reference Method: SM 5310 B-2011

Batch ID: P399772

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2253746	Organic Carbon	100		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P399457

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253358	Turbidity	1.69	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P399458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253748	Turbidity	2.69	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399617

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253303	Chloride	1.12	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399619

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253303	Sulfate	0.0323	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399907

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253748	Chloride	0.349	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P399909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253748	Sulfate	0.407	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P400055

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253855	Ammonia-N	0.414	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253743	Kjeldahl Nitrogen	2.16	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P400010

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253749	Kjeldahl Nitrogen	3.91	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P399690

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253617	NO2NO3-N	0.496	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P399851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253361	Total-P	3.37	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P399452

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253344	O-Phosphate-P	0.0884	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P399348

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253065	Aldrin	37.2	Spike	F	0 - 30
2253065	Alpha-BHC	8.68	Spike	P	0 - 30
2253065	Alpha-Chlordane	26.1	Spike	P	0 - 30
2253065	Beta-BHC	11.6	Spike	P	0 - 30
2253065	Beta-Cyfluthrin	26.0	Spike	P	0 - 30
2253065	Bifenthrin	10.4	Spike	P	0 - 30
2253065	Carbophenothion	9.86	Spike	P	0 - 30
2253065	Chlorothalonil	48.0	Spike	P	0 - 50
2253065	Cis-Nonachlor	18.3	Spike	P	0 - 30
2253065	Cypermethrin	16.0	Spike	P	0 - 30
2253065	Dacthal	10.0	Spike	P	0 - 30
2253065	DDD-p,p'	13.9	Spike	P	0 - 30
2253065	DDE-p,p'	21.2	Spike	P	0 - 30
2253065	DDT-p,p'	17.1	Spike	P	0 - 30
2253065	Delta-BHC	2.31	Spike	P	0 - 30
2253065	Deltamethrin	43.1	Spike	F	0 - 30
2253065	Dichlobenil	6.69	Spike	P	0 - 30
2253065	Dicofol	6.40	Spike	P	0 - 30
2253065	Dieldrin	16.6	Spike	P	0 - 30
2253065	Endosulfan I	11.2	Spike	P	0 - 30
2253065	Endosulfan II	11.1	Spike	P	0 - 30
2253065	Endosulfan Sulfate	11.6	Spike	P	0 - 30
2253065	Endrin	5.24	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P399348

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253065	Endrin Aldehyde	14.1	Spike	P	0 - 30
2253065	Endrin Ketone	4.77	Spike	P	0 - 30
2253065	Esfenvalerate	37.8	Spike	F	0 - 30
2253065	Ethalfuralin	16.1	Spike	P	0 - 30
2253065	Fenpropathrin	11.4	Spike	P	0 - 30
2253065	Gamma-BHC	8.90	Spike	P	0 - 30
2253065	Gamma-Chlordane	21.0	Spike	P	0 - 30
2253065	Heptachlor	12.8	Spike	P	0 - 30
2253065	Heptachlor Epoxide	13.7	Spike	P	0 - 30
2253065	Hexachlorobenzene	19.3	Spike	P	0 - 30
2253065	Kepone	7.27	Spike	P	0 - 30
2253065	Lambda-Cyhalothrin	22.0	Spike	P	0 - 30
2253065	Methoxychlor	8.73	Spike	P	0 - 30
2253065	MGK-264	27.8	Spike	P	0 - 30
2253065	Mirex	20.9	Spike	P	0 - 30
2253065	Permethrin	29.5	Spike	P	0 - 30
2253065	Phenothrin	19.2	Spike	P	0 - 30
2253065	Piperonyl Butoxide	2.55	Spike	P	0 - 30
2253065	Prallethrin	13.1	Spike	P	0 - 30
2253065	Tau-Fluvalinate	22.7	Spike	P	0 - 30
2253065	Tetramethrin	3.39	Spike	P	0 - 30
2253065	Trans-Nonachlor	21.2	Spike	P	0 - 30
2253065	Triclosan Methyl	16.6	Spike	P	0 - 30
2253065	Trifluralin	16.7	Spike	P	0 - 30
LFB	Aldrin	0.523	LCS	P	0 - 30
LFB	Alpha-BHC	4.32	LCS	P	0 - 30
LFB	Alpha-Chlordane	5.78	LCS	P	0 - 30
LFB	Beta-BHC	6.92	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	17.2	LCS	P	0 - 30
LFB	Bifenthrin	7.35	LCS	P	0 - 30
LFB	Carbophenothion	6.10	LCS	P	0 - 30
LFB	Chlorothalonil	7.05	LCS	P	0 - 50
LFB	Cis-Nonachlor	10.6	LCS	P	0 - 30
LFB	Cypermethrin	13.7	LCS	P	0 - 30
LFB	Dacthal	7.22	LCS	P	0 - 30
LFB	DDD-p,p'	10.3	LCS	P	0 - 30
LFB	DDE-p,p'	5.49	LCS	P	0 - 30
LFB	DDT-p,p'	5.75	LCS	P	0 - 30
LFB	Delta-BHC	8.60	LCS	P	0 - 30
LFB	Deltamethrin	2.27	LCS	P	0 - 30
LFB	Dichlobenil	9.93	LCS	P	0 - 30
LFB	Dicofol	8.48	LCS	P	0 - 30
LFB	Dieldrin	6.42	LCS	P	0 - 30
LFB	Endosulfan I	3.45	LCS	P	0 - 30
LFB	Endosulfan II	7.43	LCS	P	0 - 30
LFB	Endosulfan Sulfate	8.12	LCS	P	0 - 30
LFB	Endrin	6.44	LCS	P	0 - 30
LFB	Endrin Aldehyde	13.2	LCS	P	0 - 30
LFB	Endrin Ketone	7.60	LCS	P	0 - 30
LFB	Esfenvalerate	12.3	LCS	P	0 - 30
LFB	Ethalfuralin	2.07	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P399348

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Fenpropathrin	23.8	LCS	P	0 - 30
LFB	Gamma-BHC	5.61	LCS	P	0 - 30
LFB	Gamma-Chlordane	10.7	LCS	P	0 - 30
LFB	Heptachlor	5.26	LCS	P	0 - 30
LFB	Heptachlor Epoxide	7.62	LCS	P	0 - 30
LFB	Hexachlorobenzene	3.35	LCS	P	0 - 30
LFB	Kepone	56.2	LCS	F	0 - 30
LFB	Lambda-Cyhalothrin	23.1	LCS	P	0 - 30
LFB	Methoxychlor	6.19	LCS	P	0 - 30
LFB	MGK-264	6.78	LCS	P	0 - 30
LFB	Mirex	6.98	LCS	P	0 - 30
LFB	Permethrin	5.97	LCS	P	0 - 30
LFB	Phenothrin	13.8	LCS	P	0 - 30
LFB	Piperonyl Butoxide	7.30	LCS	P	0 - 30
LFB	Prallethrin	1.80	LCS	P	0 - 30
LFB	Tau-Fluvalinate	7.24	LCS	P	0 - 30
LFB	Tetramethrin	1.96	LCS	P	0 - 30
LFB	Trans-Nonachlor	11.6	LCS	P	0 - 30
LFB	Triclosan Methyl	5.14	LCS	P	0 - 30
LFB	Trifluralin	2.47	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P399659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2252632	Acetochlor	10.1	Spike	P	0 - 30
2252632	Alachlor	11.4	Spike	P	0 - 30
2252632	Ametryn	13.3	Spike	P	0 - 30
2252632	Atrazine	11.0	Spike	P	0 - 30
2252632	Atrazine Desethyl	10.5	Spike	P	0 - 30
2252632	Azinphos Methyl	24.7	Spike	P	0 - 30
2252632	Azoxystrobin	1.99	Spike	P	0 - 30
2252632	Bromacil	13.5	Spike	P	0 - 30
2252632	Butylate	2.91	Spike	P	0 - 30
2252632	Caffeine	0.439	Spike	P	0 - 30
2252632	Carbophenothion	10.9	Spike	P	0 - 30
2252632	Carfentrazone Ethyl	11.2	Spike	P	0 - 30
2252632	Chlorpyrifos Ethyl	5.31	Spike	P	0 - 30
2252632	Chlorpyrifos Methyl	9.58	Spike	P	0 - 30
2252632	Cyanazine	11.7	Spike	P	0 - 30
2252632	Demeton	3.92	Spike	P	0 - 30
2252632	Diazinon	12.8	Spike	P	0 - 30
2252632	Difenoconazole	12.1	Spike	P	0 - 30
2252632	Dimethenamid	14.3	Spike	P	0 - 30
2252632	Disulfoton	8.68	Spike	P	0 - 30
2252632	Dithiopyr	10.1	Spike	P	0 - 30
2252632	EPTC	7.23	Spike	P	0 - 30
2252632	Ethion	11.2	Spike	P	0 - 30
2252632	Ethoprop	9.30	Spike	P	0 - 30
2252632	Fenamiphos	10.2	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P399659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2252632	Fenbuconazole	12.6	Spike	P	0 - 30
2252632	Fipronil	12.5	Spike	P	0 - 30
2252632	Fipronil Desulfinyl	16.3	Spike	P	0 - 30
2252632	Fipronil Sulfide	7.20	Spike	P	0 - 30
2252632	Fipronil Sulfone	11.0	Spike	P	0 - 30
2252632	Fluazifop-P-butyl	9.62	Spike	P	0 - 30
2252632	Fludioxonil	13.0	Spike	P	0 - 30
2252632	Flumioxazin	13.2	Spike	P	0 - 30
2252632	Flutolanil	19.2	Spike	P	0 - 30
2252632	Fluxapyroxad	14.9	Spike	P	0 - 30
2252632	Fonofos	7.04	Spike	P	0 - 30
2252632	Hexazinone	2.74	Spike	P	0 - 30
2252632	Imazalil	21.0	Spike	P	0 - 30
2252632	Iprodione	9.10	Spike	P	0 - 30
2252632	Malathion	12.3	Spike	P	0 - 30
2252632	Metalaxyl	13.7	Spike	P	0 - 30
2252632	Metolachlor	10.7	Spike	P	0 - 30
2252632	Metribuzin	11.2	Spike	P	0 - 30
2252632	Mevinphos	7.54	Spike	P	0 - 30
2252632	Molinate	6.85	Spike	P	0 - 30
2252632	Myclobutanil	18.0	Spike	P	0 - 30
2252632	Naled	9.66	Spike	P	0 - 30
2252632	Norflurazon	9.04	Spike	P	0 - 30
2252632	Oxadiazon	14.3	Spike	P	0 - 30
2252632	Oxyfluorfen	15.7	Spike	P	0 - 30
2252632	Parathion Ethyl	4.88	Spike	P	0 - 30
2252632	Parathion Methyl	8.29	Spike	P	0 - 30
2252632	Pendimethalin	1.30	Spike	P	0 - 30
2252632	Phorate	8.56	Spike	P	0 - 30
2252632	Prodiamine	12.2	Spike	P	0 - 30
2252632	Prometon	12.3	Spike	P	0 - 30
2252632	Prometryn	15.6	Spike	P	0 - 30
2252632	Pronamide	8.49	Spike	P	0 - 30
2252632	Propiconazole	13.9	Spike	P	0 - 30
2252632	Pyriproxyfen	11.6	Spike	P	0 - 30
2252632	Simazine	18.9	Spike	P	0 - 30
2252632	Sulfentrazone	14.3	Spike	P	0 - 30
2252632	Tebuconazole	11.3	Spike	P	0 - 30
2252632	Terbufos	7.60	Spike	P	0 - 30
2252632	Terbuthylazine	11.1	Spike	P	0 - 30
LFB	Acetochlor	14.4	LCS	P	0 - 30
LFB	Alachlor	8.68	LCS	P	0 - 30
LFB	Ametryn	16.9	LCS	P	0 - 30
LFB	Atrazine	17.4	LCS	P	0 - 30
LFB	Atrazine Desethyl	13.1	LCS	P	0 - 30
LFB	Azinphos Methyl	14.1	LCS	P	0 - 30
LFB	Azoxystrobin	23.9	LCS	P	0 - 30
LFB	Bromacil	18.1	LCS	P	0 - 30
LFB	Butylate	14.3	LCS	P	0 - 30
LFB	Caffeine	1.56	LCS	P	0 - 30
LFB	Carbophenothion	16.9	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P399659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Carfentrazone Ethyl	18.8	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	18.2	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	15.1	LCS	P	0 - 30
LFB	Cyanazine	15.2	LCS	P	0 - 30
LFB	Demeton	7.81	LCS	P	0 - 30
LFB	Diazinon	20.5	LCS	P	0 - 30
LFB	Difenoconazole	18.6	LCS	P	0 - 30
LFB	Dimethenamid	14.4	LCS	P	0 - 30
LFB	Disulfoton	12.3	LCS	P	0 - 30
LFB	Dithiopyr	17.6	LCS	P	0 - 30
LFB	EPTC	10.9	LCS	P	0 - 30
LFB	Ethion	12.4	LCS	P	0 - 30
LFB	Ethoprop	14.4	LCS	P	0 - 30
LFB	Fenamiphos	6.12	LCS	P	0 - 30
LFB	Fenbuconazole	20.1	LCS	P	0 - 30
LFB	Fipronil	17.2	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	17.6	LCS	P	0 - 30
LFB	Fipronil Sulfide	17.3	LCS	P	0 - 30
LFB	Fipronil Sulfone	18.3	LCS	P	0 - 30
LFB	Fluazifop-P-butyl	16.0	LCS	P	0 - 30
LFB	Fludioxonil	15.7	LCS	P	0 - 30
LFB	Flumioxazin	14.7	LCS	P	0 - 30
LFB	Flutolanil	13.8	LCS	P	0 - 30
LFB	Fluxapyroxad	18.0	LCS	P	0 - 30
LFB	Fonofos	16.6	LCS	P	0 - 30
LFB	Hexazinone	16.0	LCS	P	0 - 30
LFB	Imazalil	14.5	LCS	P	0 - 30
LFB	Iprodione	24.0	LCS	P	0 - 30
LFB	Malathion	16.3	LCS	P	0 - 30
LFB	Metalaxyl	13.8	LCS	P	0 - 30
LFB	Metolachlor	18.8	LCS	P	0 - 30
LFB	Metribuzin	13.9	LCS	P	0 - 30
LFB	Mevinphos	16.0	LCS	P	0 - 30
LFB	Molinate	9.54	LCS	P	0 - 30
LFB	Myclobutanil	13.8	LCS	P	0 - 30
LFB	Naled	21.4	LCS	P	0 - 30
LFB	Norflurazon	16.8	LCS	P	0 - 30
LFB	Oxadiazon	16.6	LCS	P	0 - 30
LFB	Oxyfluorfen	15.0	LCS	P	0 - 30
LFB	Parathion Ethyl	19.7	LCS	P	0 - 30
LFB	Parathion Methyl	14.2	LCS	P	0 - 30
LFB	Pendimethalin	13.5	LCS	P	0 - 30
LFB	Phorate	14.5	LCS	P	0 - 30
LFB	Prodiamine	11.9	LCS	P	0 - 30
LFB	Prometon	18.7	LCS	P	0 - 30
LFB	Prometryn	19.9	LCS	P	0 - 30
LFB	Pronamide	21.7	LCS	P	0 - 30
LFB	Propiconazole	16.2	LCS	P	0 - 30
LFB	Pyriproxyfen	17.9	LCS	P	0 - 30
LFB	Simazine	8.45	LCS	P	0 - 30
LFB	Sulfentrazone	12.4	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P399659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Tebuconazole	16.1	LCS	P	0 - 30
LFB	Terbufos	17.6	LCS	P	0 - 30
LFB	Terbutylazine	19.3	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P399348

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253925	Chlordane	7.63	Spike	P	0 - 30
2253925	Toxaphene	12.4	Spike	P	0 - 30
LFB	Chlordane	0.548	LCS	P	0 - 30
LFB	Toxaphene	0.642	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P399330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2252078	3-Hydroxycarbofuran	11.8	Spike	P	0 - 30
2252078	Aldicarb	9.47	Spike	P	0 - 30
2252078	Aldicarb Sulfone	6.01	Spike	P	0 - 30
2252078	Aldicarb Sulfoxide	4.42	Spike	P	0 - 30
2252078	Carbaryl	7.75	Spike	P	0 - 30
2252078	Carbofuran	1.80	Spike	P	0 - 30
2252078	Methiocarb	4.87	Spike	P	0 - 30
2252078	Methomyl	1.10	Spike	P	0 - 30
2252078	Oxamyl	2.70	Spike	P	0 - 30
2252078	Propoxur	5.95	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P399425

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253793	Acesulfame K	1.01	Spike	P	0 - 30
2253793	AMPA	4.30	Spike	P	0 - 30
2253793	Endothall	17.9	Spike	P	0 - 30
2253793	Glufosinate	2.93	Spike	P	0 - 30
2253793	Glyphosate	0.200	Spike	P	0 - 30
2253793	Sucralose	10.3	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P399432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253793	2,4-D	3.09	Spike	P	0 - 30
2253793	2,4,5-T	18.3	Spike	P	0 - 30
2253793	Acetaminophen	4.36	Spike	P	0 - 30
2253793	Acetamiprid	14.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P399432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253793	Afidopyropen	6.86	Spike	P	0 - 30
2253793	Bentazon	10.1	Spike	P	0 - 30
2253793	Benzovindiflupyr	10.9	Spike	P	0 - 30
2253793	Carbamazepine	4.28	Spike	P	0 - 30
2253793	Clothianidin	4.04	Spike	P	0 - 30
2253793	Dinotefuran	0.774	Spike	P	0 - 30
2253793	Diuron	2.40	Spike	P	0 - 30
2253793	Fenuron	6.07	Spike	P	0 - 30
2253793	Fluridone	7.13	Spike	P	0 - 30
2253793	Hydrocodone	8.02	Spike	P	0 - 30
2253793	Ibuprofen	5.90	Spike	P	0 - 30
2253793	Imazapyr	4.16	Spike	P	0 - 30
2253793	Imidacloprid	9.06	Spike	P	0 - 30
2253793	Linuron	6.92	Spike	P	0 - 30
2253793	Mandestrobin	9.38	Spike	P	0 - 30
2253793	MCPP	14.3	Spike	P	0 - 30
2253793	Naproxen	12.6	Spike	P	0 - 30
2253793	Primidone	0.0615	Spike	P	0 - 30
2253793	Pyraclostrobin	11.5	Spike	P	0 - 30
2253793	Thiamethoxam	3.82	Spike	P	0 - 30
2253793	Tolfenpyrad	15.3	Spike	P	0 - 30
2253793	Triclopyr	5.90	Spike	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P399460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253357	Color (true)	10.1	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P399897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2252615	Total Alkalinity	0.205	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P399792

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2252680	TDS	0.590	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P399793

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253748	TDS	3.92	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 2540 D-2011
Batch ID: P399681

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253845	TSS	7.27	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P399899

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2252615	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P399772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253746	Organic Carbon	0.589	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2253792
Field Sample ID: G3SD0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	58.2	P	30 - 160

Lab Sample ID: 2253793
Field Sample ID: G3SD0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	153	P	30 - 160
EPA 8321B	Acetaminophen-d4	80.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	85.4	P	30 - 160
EPA 8321B	Diuron-d6	99.0	P	30 - 160
EPA 8321B	Endothall-d6	74.9	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	125	P	30 - 160
EPA 8321B	Ibuprofen-d3	100	P	30 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Sucralose-d6	72.3	P	30 - 160

Lab Sample ID: 2253803
Field Sample ID: G3SD0088

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	120	P	20 - 200
EPA 8270E	Simazine-d10	195	F	73 - 135
EPA 8270E	Terbufos-d10	104	P	58 - 130

Lab Sample ID: 2253804
Field Sample ID: G3SD0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	90.3	P	35 - 120
EPA 8270E	Tetrachloro-m-xylene	56.3	P	30 - 110
EPA 8276	Decachlorobiphenyl	73.4	P	29 - 92.0
EPA 8276	PCNB	79.7	P	43 - 134

Lab Sample ID: 2253805
Field Sample ID: G3SD0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	71.2	P	20 - 200
EPA 8270E	Simazine-d10	127	P	73 - 135
EPA 8270E	Terbufos-d10	106	P	58 - 130

Lab Sample ID: 2253806
Field Sample ID: FB_06082021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	67.8	P	35 - 120
EPA 8270E	Tetrachloro-m-xylene	51.7	P	30 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A105956

Included Lab Sample IDs: 2253742, 2253745

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	99.9	P/P	90 - 110
Sulfate	99.4	99.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A105970

Included Lab Sample IDs: 2253744, 2253747, 2253750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.4	98.5	P/P	90 - 110
O-Phosphate-P	99.1	98.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A105972

Included Lab Sample IDs: 2253742, 2253745, 2253748

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

Reference Method: SM 2120 B-2011

Run ID: A105973

Included Lab Sample IDs: 2253742, 2253745, 2253748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.2	100	P/P	90 - 115

Reference Method: EPA 8321B

Run ID: A106009

Included Lab Sample IDs: 2253793

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	92.9	92.3	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A106011

Included Lab Sample IDs: 2253793

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	81.1	78.7	P/P	60 - 160
Endothall	104	105	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A106015

Included Lab Sample IDs: 2253793

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	85.0	92.2	P/P	60 - 160
Glufosinate	93.9	101	P/P	60 - 160
Glyphosate	96.2	103	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276
Run ID: A106035
Included Lab Sample IDs: 2253804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.0		P	80 - 120
Toxaphene	105		P	80 - 120

Reference Method: EPA 8321B
Run ID: A106040
Included Lab Sample IDs: 2253792

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	104	104	P/P	60 - 150
Aldicarb	98.8	106	P/P	60 - 150
Aldicarb Sulfone	104	97.7	P/P	50 - 150
Aldicarb Sulfoxide	95.1	86.0	P/P	50 - 150
Carbaryl	115	120	P/P	60 - 150
Carbofuran	112	104	P/P	50 - 150
Methiocarb	98.9	100	P/P	50 - 150
Methomyl	99.2	96.1	P/P	50 - 150
Oxamyl	102	99.5	P/P	50 - 150
Propoxur	113	110	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A106054
Included Lab Sample IDs: 2253804, 2253806

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.4		P	80 - 120
Alpha-BHC	97.6		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	97.1		P	80 - 120
Beta-Cyfluthrin	91.0		P	80 - 120
Bifenthrin	96.5		P	80 - 120
Carbophenothion	95.8		P	80 - 120
Chlorothalonil	100		P	80 - 120
Cis-Nonachlor	95.7		P	80 - 120
Cypermethrin	92.3		P	80 - 120
Dacthal	96.4		P	80 - 120
DDD-p,p'	95.5		P	80 - 120
DDE-p,p'	96.5		P	80 - 120
DDT-p,p'	97.7		P	80 - 120
Delta-BHC	98.8		P	80 - 120
Deltamethrin	92.7		P	80 - 120
Dichlobenil	94.2		P	80 - 120
Dicofol	90.0		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	97.7		P	80 - 120
Endosulfan II	96.8		P	80 - 120
Endosulfan Sulfate	97.2		P	80 - 120
Endrin	98.9		P	80 - 120
Endrin Aldehyde	93.5		P	80 - 120
Endrin Ketone	96.3		P	80 - 120
Esfenvalerate	93.3		P	80 - 120
Ethalfuralin	95.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A106054

Included Lab Sample IDs: 2253804, 2253806

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenpropathrin	78.8*		F	80 - 120
Gamma-BHC	98.5		P	80 - 120
Gamma-Chlordane	98.2		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	98.1		P	80 - 120
Hexachlorobenzene	99.8		P	80 - 120
Kepone	88.0		P	80 - 120
Lambda-Cyhalothrin	86.6		P	80 - 120
Methoxychlor	92.4		P	80 - 120
MGK-264	97.3		P	80 - 120
Mirex	97.1		P	80 - 120
Permethrin	97.6		P	80 - 120
Phenothrin	94.1		P	80 - 120
Piperonyl Butoxide	94.6		P	80 - 120
Prallethrin	90.0		P	80 - 120
Tau-Fluvalinate	88.9		P	80 - 120
Tetramethrin	109		P	80 - 120
Trans-Nonachlor	99.2		P	80 - 120
Triclosan Methyl	98.7		P	80 - 120
Trifluralin	97.5		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A106065

Included Lab Sample IDs: 2253743, 2253746, 2253749

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

Reference Method: SM 5310 B-2011

Run ID: A106104

Included Lab Sample IDs: 2253743, 2253746, 2253749

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	96.2	P/P	90 - 110
Organic Carbon	96.2	96.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A106105

Included Lab Sample IDs: 2253748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.5	101	P/P	90 - 110
Sulfate	99.0	99.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A106117

Included Lab Sample IDs: 2253743

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.1	91.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A106152

Included Lab Sample IDs: 2253742, 2253745, 2253748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	97.2	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A106152

Included Lab Sample IDs: 2253742, 2253745, 2253748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	104	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A106163

Included Lab Sample IDs: 2253743, 2253746, 2253749

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

Reference Method: EPA 8321B

Run ID: A106199

Included Lab Sample IDs: 2253793

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.7	92.8	P/P	50 - 150
2,4,5-T	93.9	96.8	P/P	50 - 150
Acetaminophen	81.0	85.2	P/P	60 - 160
Acetamiprid	102	105	P/P	50 - 150
Afidopyropen	130	103	P/P	50 - 150
Bentazon	92.0	80.4	P/P	50 - 160
Benzovindiflupyr	109	96.8	P/P	50 - 160
Carbamazepine	111	103	P/P	60 - 150
Clothianidin	107	104	P/P	60 - 150
Dinotefuran	87.8	99.3	P/P	50 - 150
Diuron	124	116	P/P	60 - 160
Fenuron	116	106	P/P	60 - 150
Fluridone	112	117	P/P	60 - 160
Hydrocodone	108	108	P/P	60 - 150
Ibuprofen	75.7	88.2	P/P	50 - 160
Imazapyr	103	111	P/P	50 - 150
Imidacloprid	94.5	98.0	P/P	60 - 150
Linuron	90.5	109	P/P	60 - 150
Mandestrobin	117	123	P/P	50 - 150
MCPP	103	101	P/P	50 - 150
Naproxen	92.3	127	P/P	50 - 160
Primidone	103	91.8	P/P	60 - 150
Pyraclostrobin	107	104	P/P	60 - 150
Thiamethoxam	102	102	P/P	50 - 150
Tolfenpyrad	132	123	P/P	60 - 150
Triclopyr	107	101	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A106218

Included Lab Sample IDs: 2253743, 2253746, 2253749

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	99.9	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A106245

Included Lab Sample IDs: 2253803, 2253805

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	100		P	80 - 120
Alachlor	96.8		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine Desethyl	97.6		P	80 - 120
Azinphos Methyl	94.2		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	99.2		P	80 - 120
Butylate	100		P	80 - 120
Caffeine	96.2		P	80 - 120
Carbophenothion	99.2		P	80 - 120
Carfentrazone Ethyl	98.7		P	80 - 120
Chlorpyrifos Ethyl	102		P	80 - 120
Chlorpyrifos Methyl	99.7		P	80 - 120
Cyanazine	96.0		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	104		P	80 - 120
Difenoconazole	89.8		P	80 - 120
Dimethenamid	100		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	99.4		P	80 - 120
EPTC	102		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	104		P	80 - 120
Fenamiphos	100		P	80 - 120
Fenbuconazole	99.0		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	97.1		P	80 - 120
Fipronil Sulfide	109		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	98.9		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	96.9		P	80 - 120
Flutolanil	100		P	80 - 120
Fluxapyroxad	98.6		P	80 - 120
Fonofos	104		P	80 - 120
Hexazinone	103		P	80 - 120
Imazalil	108		P	80 - 120
Iprodione	94.8		P	80 - 120
Malathion	95.3		P	80 - 120
Metalaxyl	103		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	102		P	80 - 120
Molinate	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A106245

Included Lab Sample IDs: 2253803, 2253805

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Myclobutanil	105		P	80 - 120
Naled	102		P	80 - 120
Norflurazon	100		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	95.2		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	99.3		P	80 - 120
Pendimethalin	99.9		P	80 - 120
Phorate	99.9		P	80 - 120
Prodiamine	86.9		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	103		P	80 - 120
Pronamide	97.5		P	80 - 120
Propiconazole	101		P	80 - 120
Pyriproxyfen	98.1		P	80 - 120
Sulfentrazone	90.9		P	80 - 120
Tebuconazole	97.0		P	80 - 120
Terbufos	99.7		P	80 - 120
Terbutylazine	100		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A106277

Included Lab Sample IDs: 2253746, 2253749

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.1	98.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A106280

Included Lab Sample IDs: 2253803, 2253805

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	98.1		P	80 - 120
Atrazine Desethyl	106		P	80 - 120
Bromacil	103		P	80 - 120
Fluxapyroxad	102		P	80 - 120
Metolachlor	102		P	80 - 120
Norflurazon	102		P	80 - 120
Propiconazole	102		P	80 - 120
Simazine	106		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						1.69	
	Turbidity						2.69	
EPA 300.0 Rev. 2.1	Chloride	97.6		97.8	97.3		1.12	
	Chloride	97.0		91.9	94.1		0.349	
	Sulfate	98.1		98.0	97.2		0.0323	
	Sulfate	97.6		94.5	94.4		0.407	
EPA 350.1 Rev. 2.0	Ammonia-N	95.6		99.6	100			0.414
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107						2.16
	Kjeldahl Nitrogen	103						3.91
EPA 353.2 Rev. 2.0	NO2NO3-N	100		101	100			0.496
EPA 365.1 Rev. 2.0	Total-P	104		101	105			3.37
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.6		99.9	100			0.0884
EPA 8270E	Acetochlor	98.5	114	117	106	14.4		10.1
	Alachlor	100	109	112	100	8.68		11.4
	Aldrin	52.3	52.6	53.9	37.0	0.523		37.2
	Alpha-BHC	98.1	93.9	98.2	90.0	4.32		8.68
	Alpha-Chlordane	100	94.5	85.3	65.6	5.78		26.1
	Ametryn	85.6	101	106	92.6	16.9		13.3
	Atrazine	93.7	112	106	92.2	17.4		11.0
	Atrazine Desethyl	67.6	77.1	56.2	49.6	13.1		10.5
	Azinphos Methyl	100	115	121	94.3	14.1		24.7
	Azoxystrobin	98.1	125	119	117	23.9		1.99
	Beta-BHC	118	110	128	114	6.92		11.6
	Beta-Cyfluthrin	154	129	107	139	17.2		26.0
	Bifenthrin	100	93.3	74.8	67.5	7.35		10.4
	Bromacil	85.3	102	95.4	83.3	18.1		13.5
	Butylate	43.1	49.8	54.6	53.0	14.3		2.91
	Caffeine	101	102			1.56		0.439
	Carbophenothion	71.2	67.0	72.8	65.9	6.10		9.86
	Carbophenothion	99.9	118	101	90.9	16.9		10.9
	Carfentrazone Ethyl	100	121	112	101	18.8		11.2
	Chlorothalonil	137	128	12.8	7.88	7.05		48.0
	Chlorpyrifos Ethyl	95.1	114	102	97.1	18.2		5.31
	Chlorpyrifos Methyl	98.2	114	105	95.8	15.1		9.58
	Cis-Nonachlor	105	94.0	82.0	68.2	10.6		18.3
	Cyanazine	129	150	128	114	15.2		11.7
	Cypermethrin	143	125	101	119	13.7		16.0
	Dacthal	109	101	100	90.8	7.22		10.0
	DDD-p,p'	99.3	89.6	78.4	68.2	10.3		13.9
	DDE-p,p'	95.2	90.1	75.2	60.8	5.49		21.2
	DDT-p,p'	101	94.9	77.9	65.7	5.75		17.1
	Delta-BHC	130	119	140	137	8.60		2.31
	Deltamethrin	146	150	122	189	2.27		43.1
	Demeton	29.7	32.1	35.9	34.5	7.81		3.92
	Diazinon	93.9	115	118	104	20.5		12.8
	Dichlobenil	60.4	54.7	47.0	50.3	9.93		6.69
	Dicofol	102	93.7	89.6	84.0	8.48		6.40
	Dieldrin	105	98.8	90.2	76.4	6.42		16.6
	Difenoconazole	136	164	147	130	18.6		12.1
	Dimethenamid	76.8	88.7	81.5	70.6	14.4		14.3
	Disulfoton	70.5	79.8	83.3	76.4	12.3		8.68
	Dithiopyr	87.4	104	95.3	105	17.6		10.1
	Endosulfan I	100	96.9	92.8	82.9	3.45		11.2
	Endosulfan II	107	99.5	110	98.7	7.43		11.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Endosulfan Sulfate	107	98.5	97.1	86.5	8.12	11.6
	Endrin	98.7	92.5	85.5	81.2	6.44	5.24
	Endrin Aldehyde	101	88.5	64.1	73.9	13.2	14.1
	Endrin Ketone	106	98.5	96.5	92.0	7.60	4.77
	EPTC	47.8	53.3	55.0	59.1	10.9	7.23
	Esfenvalerate	164	145	112	164	12.3	37.8
	Ethalfuralin	89.7	87.9	79.2	67.4	2.07	16.1
	Ethion	69.4	78.6	46.0	51.5	12.4	11.2
	Ethoprop	80.8	93.4	89.8	98.6	14.4	9.30
	Fenamiphos	107	113	85.5	94.7	6.12	10.2
	Fenbuconazole	104	127	105	119	20.1	12.6
	Fenpropathrin	105	82.3	71.0	63.4	23.8	11.4
	Fipronil	92.4	110	91.8	104	17.2	12.5
	Fipronil Desulfinyl	95.5	114	90.6	107	17.6	16.3
	Fipronil Sulfide	74.1	88.2	79.5	85.4	17.3	7.20
	Fipronil Sulfone	76.5	91.9	79.9	89.3	18.3	11.0
	Fluazifop-P-butyl	96.9	114	91.5	101	16.0	9.62
	Fludioxonil	96.1	112	91.7	105	15.7	13.0
	Flumioxazin	156	180	151	172	14.7	13.2
	Flutolanil	84.7	97.3	74.4	90.2	13.8	19.2
	Fluxapyroxad	83.3	99.8	70.7	82.6	18.0	14.9
	Fonofos	83.2	98.2	89.8	96.4	16.6	7.04
	Gamma-BHC	105	99.6	113	103	5.61	8.90
	Gamma-Chlordane	98.2	88.2	79.2	64.2	10.7	21.0
	Heptachlor	82.4	78.2	66.2	58.2	5.26	12.8
	Heptachlor Epoxide	102	94.1	88.7	77.3	7.62	13.7
	Hexachlorobenzene	79.2	76.5	64.1	52.8	3.35	19.3
	Hexazinone	101	118	97.6	102	16.0	2.74
	Imazalil	69.9	80.8	65.1	80.4	14.5	21.0
	Iprodione	78.1	99.4	82.3	90.1	24.0	9.10
	Kepone	146	82.1	126	117	56.2	7.27
	Lambda-Cyhalothrin	177	140	125	156	23.1	22.0
	Malathion	102	120	100	113	16.3	12.3
	Metalaxyl	91.4	105	93.8	108	13.8	13.7
	Methoxychlor	104	98.0	93.1	85.3	6.19	8.73
	Metolachlor	94.3	114	87.5	108	18.8	10.7
	Metribuzin	91.9	106	106	119	13.9	11.2
	Mevinphos	80.8	94.8	86.5	93.3	16.0	7.54
	MGK-264	89.5	83.7	89.7	67.8	6.78	27.8
	Mirex	174	162	132	107	6.98	20.9
	Molinate	61.1	67.2	69.9	74.9	9.54	6.85
	Myclobutanil	92.1	106	80.5	96.4	13.8	18.0
	Naled	64.1	79.4	77.0	84.8	21.4	9.66
	Norflurazon	89.3	106	84.3	93.0	16.8	9.04
	Oxadiazon	84.4	99.7	76.1	87.9	16.6	14.3
	Oxyfluorfen	92.8	108	83.7	97.9	15.0	15.7
	Parathion Ethyl	86.6	106	93.0	97.7	19.7	4.88
	Parathion Methyl	94.2	109	97.2	106	14.2	8.29
	Pendimethalin	71.7	82.0	78.9	79.9	13.5	1.30
	Permethrin	135	127	97.8	132	5.97	29.5
	Phenothrin	75.4	65.7	74.2	90.0	13.8	19.2
	Phorate	70.1	81.1	78.4	85.4	14.5	8.56
	Piperonyl Butoxide	104	96.9	96.0	93.6	7.30	2.55
	Prallethrin	80.6	82.0	80.6	70.7	1.80	13.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Prodiamine	37.4	42.1	42.7	48.2	11.9		12.2
	Prometon	85.5	103	88.3	99.8	18.7		12.3
	Prometryn	84.1	103	83.3	97.4	19.9		15.6
	Pronamide	89.0	111	92.4	101	21.7		8.49
	Propiconazole	84.3	99.1	80.3	92.3	16.2		13.9
	Pyriproxyfen	77.3	92.6	72.4	81.3	17.9		11.6
	Simazine	97.2	106	87.7	106	8.45		18.9
	Sulfentrazone	89.2	101	83.6	96.5	12.4		14.3
	Tau-Fluvalinate	115	107	87.8	110	7.24		22.7
	Tebuconazole	62.8	73.7	46.1	51.7	16.1		11.3
	Terbufos	97.4	116	107	116	17.6		7.60
	Terbutylazine	89.2	108	89.9	100	19.3		11.1
	Tetramethrin	94.6	92.8	92.3	89.2	1.96		3.39
	Trans-Nonachlor	98.7	87.9	80.0	64.7	11.6		21.2
	Triclosan Methyl	104	98.6	88.1	74.6	5.14		16.6
	Trifluralin	88.5	86.4	76.8	65.0	2.47		16.7
EPA 8276	Chlordane	90.4	89.9	93.2	101	0.548		7.63
	Toxaphene	106	107	107	94.8	0.642		12.4
EPA 8321B	2,4-D	103		146	152			3.09
	2,4,5-T	113		126	151			18.3
	3-Hydroxycarbofuran	79.6		97.6	86.7			11.8
	Acesulfame K	83.0		115	114			1.01
	Acetaminophen	68.3		78.0	74.7			4.36
	Acetamiprid	86.9		83.9	72.6			14.4
	Afidopyropen	78.1		82.5	77.0			6.86
	Aldicarb	73.9		78.6	71.4			9.47
	Aldicarb Sulfone	83.4		108	101			6.01
	Aldicarb Sulfoxide	95.5		103	98.7			4.42
	AMPA	96.0		79.8	83.5			4.30
	Bentazon	37.6		22.2	28.3			10.1
	Benzovindiflupyr	82.5		90.7	101			10.9
	Carbamazepine	81.4		85.0	88.7			4.28
	Carbaryl	74.4		79.2	73.3			7.75
	Carbofuran	76.2		75.3	74.0			1.80
	Clothianidin	94.3		102	107			4.04
	Dinotefuran	78.2		96.0	95.3			0.774
	Diuron	84.2		80.8	78.9			2.40
	Endothall	108		58.6	70.1			17.9
	Fenuron	98.5		82.3	87.4			6.07
	Fluridone	82.0		79.2	86.4			7.13
	Glufosinate	110		115	119			2.93
	Glyphosate	112		102	102			0.200
	Hydrocodone	91.0		82.1	88.9			8.02
	Ibuprofen	71.9		95.8	90.3			5.90
	Imazapyr	92.8						4.16
	Imidacloprid	87.0		163	179			9.06
	Linuron	73.1		75.5	80.9			6.92
	Mandestrobin	93.7		100	110			9.38
	MCPP	140		188	217			14.3
	Methiocarb	71.8		71.9	75.4			4.87
	Methomyl	76.4		74.2	73.3			1.10
	Naproxen	96.6		110	124			12.6
	Oxamyl	80.4		93.6	91.1			2.70
	Primidone	90.4		97.5	97.5			0.0615

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Propoxur	71.2	72.1	67.9		5.95
	Pyraclostrobin	71.7	75.2	84.4		11.5
	Sucralose	93.2	100	111		10.3
	Thiamethoxam	85.2	112	116		3.82
	Tolfenpyrad	56.8	68.5	79.8		15.3
	Triclopyr	113	147	156		5.90
	Color (true)	98.3				
SM 2120 B-2011	Total Alkalinity	101			10.1	
SM 2320 B-2011	TDS				0.205	
SM 2540 C-2011	TDS				0.590	
	TSS				3.92	
SM 2540 D-2011					7.27	
SM 4500 F-C-2011	Fluoride	101	101	101		0.0
SM 5310 B-2011	Organic Carbon	93.7	100			0.589

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2253742, 2253745, 2253748
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2253742, 2253745, 2253748
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2253742, 2253745, 2253748
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2253743, 2253746, 2253749
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2253743, 2253746, 2253749
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2253743, 2253746, 2253749
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2253743, 2253746, 2253749
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2253744, 2253747, 2253750
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2253804, 2253806
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2253803, 2253805
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2253804
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2253792
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2253793
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2253742, 2253745, 2253748
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2253742, 2253745, 2253748
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2253742, 2253745, 2253748
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2253742, 2253745, 2253748
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2253742, 2253745, 2253748
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2253743, 2253746, 2253749

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	06/09/2021			06/09/2021 16:23	Yen Ta	2253742, 2253745, 2253748
EPA 300.0 Rev. 2.1	06/09/2021			06/12/2021 00:34	Lipi Saha	2253742
	06/09/2021			06/12/2021 00:46	Lipi Saha	2253745
	06/09/2021			06/17/2021 15:06	Lipi Saha	2253748
EPA 350.1 Rev. 2.0	06/09/2021			06/22/2021 13:37	Roberta Tatti	2253743
	06/09/2021			06/22/2021 13:38	Roberta Tatti	2253746
	06/09/2021			06/22/2021 13:39	Roberta Tatti	2253749
EPA 351.2 Rev. 2.0	06/09/2021	06/15/2021 14:13	Benjamin T. Nordmann	06/16/2021 13:05	Virginia P. Brown	2253743
	06/09/2021	06/21/2021 14:57	Benjamin T. Nordmann	06/24/2021 15:57	Letuzia M De Oliveira	2253746
	06/09/2021	06/21/2021 14:57	Benjamin T. Nordmann	06/24/2021 15:59	Letuzia M De Oliveira	2253749
EPA 353.2 Rev. 2.0	06/09/2021			06/15/2021 09:20	Beverly Y. Sanders	2253743
	06/09/2021			06/15/2021 09:21	Beverly Y. Sanders	2253746
	06/09/2021			06/15/2021 09:22	Beverly Y. Sanders	2253749
EPA 365.1 Rev. 2.0	06/09/2021	06/17/2021 11:39	Shengyu Ding	06/18/2021 08:25	Shengyu Ding	2253743
	06/09/2021	06/17/2021 11:39	Shengyu Ding	06/18/2021 08:26	Shengyu Ding	2253746
	06/09/2021	06/17/2021 11:39	Shengyu Ding	06/18/2021 08:27	Shengyu Ding	2253749
EPA 365.1 Rev. 2.0 dissolved	06/09/2021			06/09/2021 14:59	Blanca Fach	2253744
	06/09/2021			06/09/2021 15:04	Blanca Fach	2253747
	06/09/2021			06/09/2021 15:05	Blanca Fach	2253750
EPA 8270E	06/09/2021	06/10/2021 08:00	Fe-Val Siddell	06/14/2021 22:36	Arthur Maknenko	2253804
	06/09/2021	06/10/2021 08:00	Fe-Val Siddell	06/14/2021 23:05	Arthur Maknenko	2253806
	06/09/2021	06/14/2021 08:00	Rasheda Ghaffari	06/16/2021 15:47	Vandana T. Nagar	2253803
	06/09/2021	06/14/2021 08:00	Rasheda Ghaffari	06/16/2021 16:11	Vandana T. Nagar	2253805
	06/09/2021	06/14/2021 08:00	Rasheda Ghaffari	06/22/2021 19:29	Vandana T. Nagar	2253803
	06/09/2021	06/14/2021 08:00	Rasheda Ghaffari	06/22/2021 19:54	Vandana T. Nagar	2253803
	06/09/2021	06/14/2021 08:00	Rasheda Ghaffari	06/22/2021 20:19	Vandana T. Nagar	2253803
	06/09/2021	06/14/2021 08:00	Rasheda Ghaffari	06/22/2021 20:44	Vandana T. Nagar	2253803
	06/09/2021	06/14/2021 08:00	Rasheda Ghaffari	06/22/2021 21:09	Vandana T. Nagar	2253805
	06/09/2021	06/14/2021 08:00	Rasheda Ghaffari	06/22/2021 21:34	Vandana T. Nagar	2253803
EPA 8276	06/09/2021	06/10/2021 08:00	Fe-Val Siddell	06/12/2021 10:30	Chiran X. Ghimire	2253804
EPA 8321B	06/09/2021	06/10/2021 10:00	Hoor Shaik	06/12/2021 18:33	Juyoung Kim	2253792
	06/09/2021	06/10/2021 13:00	Juyoung Kim	06/10/2021 16:14	Juyoung Kim	2253793
	06/09/2021	06/10/2021 13:00	Juyoung Kim	06/10/2021 16:22	Juyoung Kim	2253793
	06/09/2021	06/10/2021 13:00	Juyoung Kim	06/11/2021 04:48	Juyoung Kim	2253793
	06/09/2021	06/14/2021 09:00	Hoor Shaik	06/20/2021 13:32	Juyoung Kim	2253793
SM 2120 B-2011	06/09/2021			06/09/2021 15:33	Sarah A Nixon	2253742
	06/09/2021			06/09/2021 15:34	Sarah A Nixon	2253745
	06/09/2021			06/09/2021 15:35	Sarah A Nixon	2253748
SM 2320 B-2011	06/09/2021			06/17/2021 19:54	Dale L. Simmons	2253742
	06/09/2021			06/17/2021 20:10	Dale L. Simmons	2253745

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-2011	06/09/2021			06/17/2021 20:24	Dale L. Simmons	2253748
SM 2540 C-2011	06/09/2021			06/11/2021 15:27	Yijie Li	2253742, 2253745, 2253748
SM 2540 D-2011	06/09/2021			06/11/2021 15:27	Yijie Li	2253742, 2253745, 2253748
SM 4500 F-C-2011	06/09/2021			06/17/2021 19:54	Dale L. Simmons	2253742
	06/09/2021			06/17/2021 20:10	Dale L. Simmons	2253745
	06/09/2021			06/17/2021 20:24	Dale L. Simmons	2253748
	06/09/2021			06/16/2021 02:08	Touraj Touran	2253746
SM 5310 B-2011	06/09/2021			06/16/2021 03:09	Touraj Touran	2253743
	06/09/2021			06/16/2021 03:19	Touraj Touran	2253749