

Chemical Analysis Report

SE-DIST-2022-02-09-01

Florida Department of Environmental Protection
Central Laboratory
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DOH Accreditation E31780

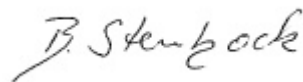
Event Description: **Hollywood '22**
Request ID: **RQ-2022-02-07-52**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 02-MAR-2022 16:55



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: Metals, 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: Dania Cutoff @ Griffin Marine Park

Collection Date/Time: 02/08/2022 09:30

Field ID: G4SE0146

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304522	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P409640	
	SM 2320 B-2011	Total Alkalinity	204		mg CaCO3/L	P410035	RPD
	SM 2540 D-2011	TSS	2	I	mg/L	P409982	
	SM 4500 F-C-2011	Fluoride	0.40		mg F/L	P409907	
2304523	EPA 350.1 Rev. 2.0	Ammonia-N	0.14		mg N/L	P409952	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P409671	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.31		mg N/L	P410050	
	EPA 365.1 Rev. 2.0	Total-P	0.036		mg P/L	P409630	
	SM 5310 B-2011	Organic Carbon	9.1		mg C/L	P410400	
2304524	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.020		mg P/L	P409627	
2304546	EPA 8321B	Acesulfame K	0.20	I	ug/L	P409584	
		2,4-D	0.022		ug/L	P409557	
		AMPA	1.0	U	ug/L	P409584	
		2,4,5-T	0.0040	U	ug/L	P409557	
		Acetaminophen	0.0080	U	ug/L	P409557	
		Endothall	0.25	U	ug/L	P409584	
		Acetamiprid	0.0020	U	ug/L	P409557	
		Glufosinate	1.0	U	ug/L	P409584	
		Glyphosate	1.0	U	ug/L	P409584	
		Afidopyropen	0.0020	U	ug/L	P409557	
		Sucralose	0.31		ug/L	P409584	
		Bentazon	0.072		ug/L	P409557	
		Benzovindiflupyr	0.0020	U	ug/L	P409557	
		Carbamazepine	0.0049		ug/L	P409557	
		Clothianidin	0.0020	U	ug/L	P409557	
		Dinotefuran	0.0020	U	ug/L	P409557	
		Diuron	0.049		ug/L	P409557	
		Fenuron	0.016	U	ug/L	P409557	
		Fluridone	0.073		ug/L	P409557	
		Imazapyr	0.19		ug/L	P409557	
		Hydrocodone	0.0020	U	ug/L	P409557	
		Ibuprofen	0.020	U	ug/L	P409557	RPD
		Imidacloprid	0.0096		ug/L	P409557	
		Linuron	0.0040	U	ug/L	P409557	
		Mandestrobin	0.0020	U	ug/L	P409557	
		MCP	0.0040	U	ug/L	P409557	
		Naproxen	0.0080	U	ug/L	P409557	
		Primidone	0.0040	U	ug/L	P409557	
		Pyraclostrobin	0.0020	U	ug/L	P409557	
		Silvex	0.0040	U	ug/L	P409557	MS
		Thiamethoxam	0.0020	U	ug/L	P409557	
		Tolfenpyrad	0.0020	U	ug/L	P409557	
		Triclopyr	0.0040	U	ug/L	P409557	MS

Field ID: G4SE0146

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304549	EPA 200.7 Rev. 4.4	Calcium	150		mg/L	P410092	
		Iron	100	I	ug/L	P410092	
		Magnesium	250		mg/L	P410092	
		Strontium	2.01E+03		ug/L	P410092	
		Tin	60	U	ug/L	P410092	
		Titanium	2.4	I	ug/L	P410092	
	EPA 200.8 Rev. 5.4	Vanadium	6.0	U	ug/L	P410092	
		Zinc	15	U	ug/L	P410092	
		Aluminum	20	U	ug/L	P410092	
		Antimony	0.20	U	ug/L	P410092	
		Arsenic	1.66		ug/L	P410092	
		Beryllium	0.040	U	ug/L	P410092	
		Cadmium	0.080	U	ug/L	P410092	
		Chromium	1.6	U	ug/L	P410092	
		Cobalt	0.080	U	ug/L	P410092	
		Copper	5.1		ug/L	P410092	
		Lead	0.80	U	ug/L	P410092	
		Manganese	9.7		ug/L	P410092	
		Molybdenum	3.0		ug/L	P410092	
		Nickel	2.0	U	ug/L	P410092	
		Selenium	0.80	U	ug/L	P410092	
		Silver	0.040	U	ug/L	P410092	
		Thallium	0.40	U	ug/L	P410092	

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: Some MDLs are elevated due to required dilution of sample matrix.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium and strontium are unavailable because of high analyte concentration in the QC sample.

EPA 200.8 Rev. 5.4: The copper result was confirmed in the undigested sample on 02/22/2022.

Sample Location: North New River Canal (NNR-3)

Collection Date/Time: 02/08/2022 10:30

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304544	EPA 8321B	Aldicarb	0.020	U	ug/L	P409559	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P409559	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P409559	
		Carbaryl	0.0020	U	ug/L	P409559	
		Carbofuran	0.0020	U	ug/L	P409559	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P409559	
		Methiocarb	0.0020	U	ug/L	P409559	
		Methomyl	0.0020	U	ug/L	P409559	
		Oxamyl	0.0020	U	ug/L	P409559	
		Propoxur	0.0020	U	ug/L	P409559	
2304545		2,4-D	0.0020	I	ug/L	P409557	
		Acesulfame K	0.10	U	ug/L	P409584	
		2,4,5-T	0.0040	U	ug/L	P409557	
		AMPA	0.10	U	ug/L	P409584	
		Acetaminophen	0.0080	U	ug/L	P409557	
		Acetamiprid	0.0020	U	ug/L	P409557	
		Endothall	0.25	U	ug/L	P409584	
		Glufosinate	0.10	U	ug/L	P409584	
		Glyphosate	0.10	U	ug/L	P409584	
		Afidopyropen	0.0020	U	ug/L	P409557	
		Bentazon	0.0085		ug/L	P409557	
		Sucralose	0.010	U	ug/L	P409584	
		Benzovindiflupyr	0.0020	U	ug/L	P409557	
		Carbamazepine	8.0E-04	U	ug/L	P409557	
		Clothianidin	0.0020	U	ug/L	P409557	
		Dinotefuran	0.0020	U	ug/L	P409557	
		Diuron	0.0020	U	ug/L	P409557	
		Fenuron	0.016	U	ug/L	P409557	
		Fluridone	0.0016	I	ug/L	P409557	
		Imazapyr	0.033		ug/L	P409557	
		Hydrocodone	0.0020	U	ug/L	P409557	
		Ibuprofen	0.020	U	ug/L	P409557	RPD
		Imidacloprid	0.017		ug/L	P409557	
		Linuron	0.0040	U	ug/L	P409557	
		Mandestrobin	0.0020	U	ug/L	P409557	
		MCPP	0.0040	U	ug/L	P409557	
		Naproxen	0.0080	U	ug/L	P409557	
		Primidone	0.0040	U	ug/L	P409557	
		Pyraclostrobin	0.0020	U	ug/L	P409557	
		Silvex	0.0040	U	ug/L	P409557	MS
		Thiamethoxam	0.0020	U	ug/L	P409557	
		Tolfenpyrad	0.0020	U	ug/L	P409557	
		Triclopyr	0.0040	U	ug/L	P409557	MS
2304547	EPA 8270E	Aldrin	0.71	U	ng/L	P409707	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304547	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P409707	
		Alpha-Chlordane	0.22	U	ng/L	P409707	
		PCB-1016	2.2	U	ng/L	P409707	
		Beta-BHC	0.11	U	ng/L	P409707	
		PCB-1221	2.2	U	ng/L	P409707	
		Beta-Cyfluthrin**	1.4	U	ng/L	P409707	
		PCB-1232	2.2	U	ng/L	P409707	
		Bifenthrin**	0.54	U	ng/L	P409707	RPD
		PCB-1242	2.2	U	ng/L	P409707	
		PCB-1248	2.2	U	ng/L	P409707	
		Chlorothalonil	1.4	U	ng/L	P409707	
		PCB-1254	2.2	U	ng/L	P409707	
		Cis-Nonachlor**	0.22	U	ng/L	P409707	
		PCB-1260	2.2	U	ng/L	P409707	
		Cypermethrin	1.6	U	ng/L	P409707	
		Dacthal**	0.16	U	ng/L	P409707	
		DDD-p,p'	0.27	U	ng/L	P409707	
		DDE-p,p'	0.22	U	ng/L	P409707	
		DDT-p,p'	0.27	U	ng/L	P409707	
		Delta-BHC	0.43	U	ng/L	P409707	
		Deltamethrin**	1.4	U	ng/L	P409707	
		Dichlobenil**	0.27	U	ng/L	P409707	
		Dicofol	1.4	U	ng/L	P409707	
		Dieldrin	0.43	U	ng/L	P409707	
		Endosulfan I	0.43	U	ng/L	P409707	
		Endosulfan II	0.43	U	ng/L	P409707	
		Endosulfan Sulfate	0.33	U	ng/L	P409707	
		Endrin	0.42	UQJ	ng/L	P410329	LCS, RPD
		Endrin Aldehyde	0.79	UQ	ng/L	P410329	
		Endrin Ketone	0.43	UJ	ng/L	P409707	LCS
		Esfenvalerate**	0.82	U	ng/L	P409707	
		Ethalfuralin**	0.16	U	ng/L	P409707	
		Fenpropathrin**	0.27	U	ng/L	P409707	
		Gamma-BHC	0.14	U	ng/L	P409707	
		Gamma-Chlordane	0.22	U	ng/L	P409707	
		Heptachlor	0.22	U	ng/L	P409707	
		Heptachlor Epoxide	0.27	U	ng/L	P409707	
		Hexachlorobenzene	1.1	U	ng/L	P409707	
		Kepone**	5.4	U	ng/L	P409707	RPD
		Lambda-Cyhalothrin**	0.82	U	ng/L	P409707	
		Methoprene**	0.79	UQ	ng/L	P410329	
		Methoxychlor	0.33	U	ng/L	P409707	
		MGK-264**	0.22	U	ng/L	P409707	
		Mirex	0.76	U	ng/L	P409707	
		Oxychlordane**	0.33	U	ng/L	P409707	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304547	EPA 8270E	Permethrin	1.7	U	ng/L	P409707	LCS, MS
		Phenothrin**	0.98	U	ng/L	P409707	
		Piperonyl Butoxide**	0.42	IQJ	ng/L	P410329	
		Prallethrin**	2.1	UQ	ng/L	P410329	
		Tau-Fluvalinate**	0.27	U	ng/L	P409707	
		Tetramethrin**	0.79	UQ	ng/L	P410329	
		Trans-Nonachlor**	0.22	U	ng/L	P409707	
		Triclosan Methyl**	0.16	U	ng/L	P409707	
		Trifluralin	0.22	U	ng/L	P409707	
		Chlordane	2.7	U	ng/L	P409707	
2304548	EPA 8270E	Toxaphene	16	U	ng/L	P409707	LCS, MS
		Oxybenzone**	9.7	U	ng/L	P409681	
		Acetochlor	0.24	U	ng/L	P409681	
		Octinoxate**	19	U	ng/L	P409681	
		Alachlor	0.24	U	ng/L	P409681	
		Avobenzone**	97	U	ng/L	P409681	
		Ametryn	0.58	U	ng/L	P409681	
		Atrazine	19		ng/L	P409681	
		Atrazine Desethyl	1.5	U	ng/L	P409681	
		Azinphos Methyl	1.9	U	ng/L	P409681	
		Azoxystrobin**	0.49	U	ng/L	P409681	
		Bromacil	0.49	U	ng/L	P409681	
		Butylate	0.39	U	ng/L	P409681	
		Caffeine**	13	I	ng/L	P409681	
		Carbophenothion	0.19	U	ng/L	P409681	
		Carfentrazone Ethyl**	0.097	U	ng/L	P409681	
		Chlorfenapyr**	0.17	U	ng/L	P409681	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P409681	
		Chlorpyrifos Methyl	0.049	U	ng/L	P409681	
		Coumaphos**	0.49	U	ng/L	P409681	
		Cyanazine	3.2	U	ng/L	P409681	
		Cyprodinil**	0.097	U	ng/L	P409681	
		Demeton	1.5	U	ng/L	P409681	
		Diazinon	0.12	U	ng/L	P409681	
		Difenoconazole**	0.58	U	ng/L	P409681	
		Dimethenamid**	0.097	U	ng/L	P409681	
		Dimethomorph**	0.17	U	ng/L	P409681	
		Disulfoton	0.49	U	ng/L	P409681	
		Dithiopyr**	0.17	U	ng/L	P409681	
		EPTC	1.2	U	ng/L	P409681	
		Ethion	0.15	U	ng/L	P409681	
		Ethoprop	0.097	U	ng/L	P409681	
		Etridiazole**	0.15	U	ng/L	P409681	
		Fenamiphos	0.49	U	ng/L	P409681	
		Fenbuconazole**	0.12	UJ	ng/L	P409681	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304548	EPA 8270E	Fipronil	0.24	U	ng/L	P409681	LCS, MS
		Fipronil Desulfinyll**	0.12	U	ng/L	P409681	
		Fipronil Sulfide	0.15	U	ng/L	P409681	
		Fipronil Sulfone	0.15	U	ng/L	P409681	
		Fluazifop-P-butyl**	0.097	U	ng/L	P409681	
		Fludioxonil**	0.12	U	ng/L	P409681	
		Flumioxazin**	1.7	U	ng/L	P409681	
		Flutolanil**	0.097	U	ng/L	P409681	
		Fluxapyroxad**	0.26	I	ng/L	P409681	
		Fonofos	0.19	U	ng/L	P409681	
		Hexazinone	1.4	I	ng/L	P409681	
		Imazalil**	0.73	U	ng/L	P409681	
		Iprodione**	0.58	U	ng/L	P409681	
		Loratadine**	0.097	U	ng/L	P409681	
		Malathion	0.34	U	ng/L	P409681	
		Metalaxyl	0.73	U	ng/L	P409681	
		Metolachlor	0.45	I	ng/L	P409681	
		Metribuzin	2.4	U	ng/L	P409681	
		Mevinphos	1.0	U	ng/L	P409681	
		Molinate	0.29	U	ng/L	P409681	
		Myclobutanil**	0.24	U	ng/L	P409681	
		Naled**	1.5	UJ	ng/L	P409681	
		Napropamide**	0.39	U	ng/L	P409681	
		Norflurazon	0.49	U	ng/L	P409681	
		Oxadiazon	1.3		ng/L	P409681	
		Oxyfluorfen**	0.15	U	ng/L	P409681	
		Parathion Ethyl	0.24	U	ng/L	P409681	
		Parathion Methyl	0.54	U	ng/L	P409681	
		Pendimethalin	0.97	U	ng/L	P409681	
		Phenytol**	3.4	U	ng/L	P409681	
		Phorate	0.51	U	ng/L	P409681	
		Prodiamine**	0.17	U	ng/L	P409681	
		Prometon	0.88	U	ng/L	P409681	
		Prometryn	0.19	U	ng/L	P409681	
		Pronamide**	0.15	U	ng/L	P409681	
		Propanil**	0.12	U	ng/L	P409681	
		Propargite**	1.5	U	ng/L	P409681	
		Propiconazole**	0.49	U	ng/L	P409681	
		Pyraflufen Ethyl**	0.24	U	ng/L	P409681	
		Pyridaben**	0.44	U	ng/L	P409681	
		Pyriproxyfen**	0.12	U	ng/L	P409681	
		Simazine	0.49	U	ng/L	P409681	
		Stirophos**	0.12	U	ng/L	P409681	
		Sulfentrazone**	0.49	U	ng/L	P409681	
		Tebuconazole**	0.49	U	ng/L	P409681	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304548	EPA 8270E	Terbufos	0.097	U	ng/L	P409681	
		Terbuthylazine	0.41	U	ng/L	P409681	
		Thiobencarb**	0.58	U	ng/L	P409681	
		Triadimefon**	0.24	U	ng/L	P409681	

Ref. Method and Comment:
EPA 8270E: MS accuracy for phenothrin 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. Insufficient sample available to perform duplicate matrix spikes in re-extraction. Sample expired for preparation for some analytes due to need for re-extraction.
EPA 8270E: MS accuracy for Dimethanamid and Sulfentrazone not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409640

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P410092

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P410092

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Beryllium	0.010	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409952

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409671

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410050

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409630

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409627

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

Reference Method: EPA 8270E

Batch ID: P409681

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
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409681

Component	Result	Code	Units
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409681

Component	Result	Code	Units
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	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
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
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409681

Component	Result	Code	Units
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P409707

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P409707

Component	Result	Code	Units
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P409707

Component	Result	Code	Units
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	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: P410329

Component	Result	Code	Units
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
Methoprene	0.75	U	ng/L
Methoprene	0.75	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
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L

Reference Method: EPA 8276
Batch ID: P409707

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: P409557

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P409557

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	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P409559

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: P409584

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P409584

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P410035

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

Reference Method: SM 2540 D-2011
Batch ID: P409982

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P409907

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P410400

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P409640

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.2		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P410092

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	107		P	85 - 115
Magnesium	102		P	85 - 115
Strontium	102		P	85 - 115
Tin	107		P	85 - 115
Titanium	104		P	85 - 115
Vanadium	96.2		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P410092

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.8		P	85 - 115
Antimony	98.5		P	85 - 115
Arsenic	97.9		P	85 - 115
Beryllium	94.0		P	85 - 115
Cadmium	97.1		P	85 - 115
Chromium	96.2		P	85 - 115
Cobalt	96.7		P	85 - 115
Copper	94.1		P	85 - 115
Lead	94.4		P	85 - 115
Manganese	96.6		P	85 - 115
Molybdenum	97.3		P	85 - 115
Nickel	96.5		P	85 - 115
Selenium	97.4		P	85 - 115
Silver	97.7		P	85 - 115
Thallium	97.3		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P409952

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P409671

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: P410050

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409630

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409627

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

Reference Method: EPA 8270E

Batch ID: P409681

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	88.1		P	70 - 121
Alachlor	95.0		P	68 - 119
Ametryn	101		P	64 - 139
Atrazine	79.4		P	76 - 120
Atrazine Desethyl	45.9		P	44 - 126
Avobenzone	95.9		P	50 - 200
Azinphos Methyl	96.1		P	43 - 192
Azoxystrobin	90.1		P	36 - 224
Bromacil	84.5		P	52 - 121
Butylate	53.3		P	28 - 91.0
Caffeine	104		P	50 - 134
Carbophenothion	73.8		P	56 - 129
Carfentrazone Ethyl	89.2		P	60 - 141
Chlorfenapyr	79.7		P	56 - 115
Chlorpyrifos Ethyl	81.4		P	60 - 118
Chlorpyrifos Methyl	78.6		P	68 - 119
Coumaphos	79.8		P	18 - 250
Cyanazine	135		P	61 - 250
Cyprodinil	92.1		P	55 - 145
Demeton	68.7		P	30 - 159
Diazinon	86.7		P	70 - 123
Difenoconazole	128		P	49 - 204
Dimethenamid	72.5		P	64 - 115
Dimethomorph	103		P	12 - 219
Disulfoton	73.3		P	44 - 125
Dithiopyr	87.7		P	64 - 115
EPTC	54.3		P	28 - 86.0
Ethion	72.2		P	33 - 125
Ethoprop	75.2		P	64 - 116
Etridiazole	64.4		P	34 - 91.0
Fenamiphos	79.7		P	12 - 127
Fenbuconazole	48.3		F	59 - 151
Fipronil	90.3		P	67 - 129
Fipronil Desulfinyl	93.6		P	65 - 127
Fipronil Sulfide	80.1		P	61 - 116
Fipronil Sulfone	65.1		P	55 - 117
Fluazifop-P-butyl	69.2		P	62 - 127
Fludioxonil	77.2		P	62 - 128
Flumioxazin	63.0		P	33 - 250
Flutolanil	77.1		P	56 - 127

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P409681

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluxapyroxad	59.8		P	45 - 128
Fonofos	76.2		P	62 - 111
Hexazinone	84.4		P	46 - 139
Imazalil	75.4		P	38 - 142
Iprodione	77.7		P	47 - 135
Loratadine	79.1		P	10 - 244
Malathion	89.3		P	61 - 139
Metaxyl	86.3		P	10 - 119
Metolachlor	90.9		P	65 - 118
Metribuzin	81.4		P	51 - 250
Mevinphos	55.6		P	53 - 121
Molinate	56.4		P	42 - 96.0
Myclobutanil	77.1		P	55 - 128
Naled	105		F	10 - 98.0
Napropamide	81.1		P	49 - 121
Norflurazon	73.6		P	61 - 126
Octinoxate	65.4		P	50 - 150
Oxadiazon	74.3		P	59 - 116
Oxybenzone	117		P	50 - 150
Oxyfluorfen	86.5		P	64 - 137
Parathion Ethyl	91.5		P	70 - 112
Parathion Methyl	93.9		P	76 - 133
Pendimethalin	89.6		P	52 - 117
Phenytoin	40.8		P	10 - 199
Phorate	66.9		P	48 - 121
Prodiamine	43.3		P	26 - 142
Prometon	83.7		P	43 - 123
Prometryn	81.9		P	66 - 127
Pronamide	80.7		P	75 - 121
Propanil	80.4		P	45 - 150
Propargite	84.6		P	42 - 208
Propiconazole	75.0		P	60 - 125
Pyraflufen Ethyl	79.8		P	70 - 138
Pyridaben	74.7		P	35 - 245
Pyriproxyfen	76.2		P	30 - 149
Simazine	72.8		P	72 - 125
Stirophos	70.0		P	29 - 164
Sulfentrazone	65.5		P	21 - 139
Tebuconazole	58.5		P	10 - 115
Terbufos	101		P	60 - 123
Terbuthylazine	97.1		P	72 - 115
Thiobencarb	95.8		P	31 - 139
Triadimefon	90.0		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P409707

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	41.0		P	10 - 93.0
Alpha-BHC	90.5		P	75 - 106
Alpha-Chlordane	73.8		P	50 - 109
Beta-BHC	112		P	65 - 135

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P409707

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	63.3		P	23 - 167
Bifenthrin	48.7		P	11 - 123
Chlorothalonil	80.4		P	26 - 182
Cis-Nonachlor	69.1		P	40 - 111
Cypermethrin	68.1		P	25 - 155
Dacthal	86.2		P	73 - 112
DDD-p,p'	70.4		P	47 - 108
DDE-p,p'	74.7		P	48 - 107
DDT-p,p'	82.6		P	49 - 111
Delta-BHC	111		P	68 - 143
Deltamethrin	70.5		P	16 - 176
Dichlobenil	79.7		P	32 - 113
Dicofol	67.0		P	50 - 108
Dieldrin	60.2		P	56 - 110
Endosulfan I	77.7		P	60 - 105
Endosulfan II	66.7		P	50 - 120
Endosulfan Sulfate	80.6		P	55 - 121
Endrin Ketone	141		F	56 - 130
Esfenvalerate	62.3		P	10 - 179
Ethalfuralin	62.5		P	49 - 99.0
Fenpropathrin	50.6		P	35 - 119
Gamma-BHC	75.7		P	72 - 115
Gamma-Chlordane	68.7		P	45 - 107
Heptachlor	56.6		P	41 - 100
Heptachlor Epoxide	73.7		P	58 - 106
Hexachlorobenzene	70.2		P	39 - 100
Kepone	67.1		P	10 - 191
Lambda-Cyhalothrin	61.0		P	10 - 186
Methoxychlor	76.8		P	61 - 111
MGK-264	60.1		P	20 - 123
Mirex	45.4		P	10 - 182
Oxychlordane	70.8		P	39 - 110
PCB-1016	71.0		P	49 - 111
PCB-1260	95.1		P	42 - 116
Permethrin	70.6		P	26 - 152
Phenothrin	37.3		P	10 - 109
Tau-Fluvalinate	42.0		P	16 - 134
Trans-Nonachlor	69.7		P	45 - 107
Triclosan Methyl	77.1		P	60 - 110
Trifluralin	69.4		P	49 - 98.0

Reference Method: EPA 8270E
Batch ID: P410329

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	32.9	24.7	P/F	31 - 119
Endrin Aldehyde	50.5	41.2	P/P	36 - 116
Methoprene	33.0	23.9	P/P	10 - 129
Piperonyl Butoxide	11.0	8.54	F/F	27 - 142
Prallethrin	51.5	55.1	P/P	14 - 109
Tetramethrin	107	66.2	P/P	10 - 125

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P409707

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	94.7		P	61 - 118
Toxaphene	76.6		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P409557

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	86.8		P	40 - 150
2,4,5-T	63.9		P	40 - 150
Acetaminophen	62.7		P	30 - 150
Acetamiprid	83.8		P	40 - 150
Afidopyropen	49.6		P	40 - 150
Bentazon	83.1		P	30 - 150
Benzovindiflupyr	66.9		P	40 - 150
Carbamazepine	96.6		P	40 - 150
Clothianidin	81.7		P	40 - 150
Dinotefuran	98.9		P	40 - 150
Diuron	98.1		P	40 - 150
Fenuron	86.1		P	40 - 150
Fluridone	89.1		P	40 - 150
Hydrocodone	85.0		P	40 - 150
Ibuprofen	101		P	40 - 150
Imazapyr	101		P	40 - 150
Imidacloprid	79.8		P	40 - 150
Linuron	59.2		P	40 - 150
Mandestrobin	93.4		P	40 - 150
MCPP	102		P	40 - 150
Naproxen	64.8		P	40 - 150
Primidone	109		P	40 - 150
Pyraclostrobin	70.6		P	40 - 150
Silvex	76.7		P	40 - 150
Thiamethoxam	103		P	40 - 150
Tolfenpyrad	40.4		P	30 - 150
Triclopyr	55.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P409559

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	97.2		P	40 - 150
Aldicarb	65.3		P	30 - 150
Aldicarb Sulfone	93.8		P	40 - 150
Aldicarb Sulfoxide	80.4		P	40 - 150
Carbaryl	89.8		P	40 - 150
Carbofuran	88.8		P	40 - 150
Methiocarb	105		P	40 - 150
Methomyl	87.9		P	40 - 150
Oxamyl	94.3		P	40 - 150
Propoxur	90.5		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P409584

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.4		P	40 - 150
AMPA	95.0		P	40 - 150
Endothall	61.7		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	92.5		P	40 - 150
Sucralose	90.3		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P410035

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.5		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P409907

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.9		P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P410400

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P410092

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305376	Iron	107	108	P/P	80 - 120
2305376	Tin	80.0	90.8	P/P	80 - 120
2305376	Titanium	102	102	P/P	80 - 120
2305376	Vanadium	98.8	99.0	P/P	80 - 120
2305376	Zinc	99.8	100	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P410092

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305376	Aluminum	99.3	97.7	P/P	70 - 130
2305376	Antimony	103	102	P/P	70 - 130
2305376	Arsenic	108	108	P/P	70 - 130
2305376	Beryllium	99.0	99.5	P/P	70 - 130
2305376	Cadmium	98.5	97.5	P/P	70 - 130
2305376	Chromium	101	100	P/P	70 - 130
2305376	Cobalt	105	105	P/P	70 - 130
2305376	Copper	97.1	95.2	P/P	70 - 130
2305376	Lead	99.3	98.3	P/P	70 - 130
2305376	Manganese	98.7	97.7	P/P	70 - 130
2305376	Molybdenum	109	110	P/P	70 - 130
2305376	Nickel	106	103	P/P	70 - 130
2305376	Selenium	79.4	78.5	P/P	70 - 130
2305376	Silver	91.3	91.0	P/P	70 - 130
2305376	Thallium	102	103	P/P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P409952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303923	Ammonia-N	98.6	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P409671

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304295	Kjeldahl Nitrogen	105	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P410050

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304523	NO2NO3-N	94.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304481	Total-P	100	103	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409627

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304531	O-Phosphate-P	94.1	94.6	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P409681

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305257	Acetochlor	99.4	115	P/P	65 - 124
2305257	Alachlor	99.6	121	P/P	61 - 121
2305257	Ametryn	78.8	106	P/P	52 - 216
2305257	Atrazine	93.0	91.8	P/P	68 - 133
2305257	Atrazine Desethyl	54.8	57.8	P/P	15 - 160
2305257	Avobenzone	124	142	P/P	50 - 200
2305257	Azinphos Methyl	98.4	122	P/P	40 - 292
2305257	Azoxystrobin	99.2	106	P/P	12 - 242
2305257	Bromacil	98.3	112	P/P	54 - 167
2305257	Butylate	57.6	56.7	P/P	14 - 94.0
2305257	Caffeine	158	86.7	P/P	10 - 226
2305257	Carbophenothion	85.9	83.6	P/P	49 - 122
2305257	Carfentrazone Ethyl	95.7	102	P/P	53 - 138
2305257	Chlorfenapyr	78.1	90.7	P/P	50 - 150
2305257	Chlorpyrifos Ethyl	91.2	86.8	P/P	52 - 122
2305257	Chlorpyrifos Methyl	97.7	102	P/P	66 - 117
2305257	Coumaphos	79.2	74.5	P/P	50 - 220
2305257	Cyanazine	180	172	P/P	43 - 245
2305257	Cyprodinil	80.8	92.8	P/P	50 - 150
2305257	Demeton	83.0	81.4	P/P	43 - 188
2305257	Diazinon	97.5	109	P/P	69 - 131
2305257	Difenoconazole	150	174	P/P	34 - 231
2305257	Dimethomorph	121	121	P/P	50 - 150
2305257	Disulfoton	96.9	87.7	P/P	38 - 141
2305257	Dithiopyr	94.2	93.0	P/P	42 - 116
2305257	EPTC	54.4	50.8	P/P	18 - 85.0
2305257	Ethion	88.8	80.2	P/P	10 - 131
2305257	Ethoprop	94.5	93.0	P/P	65 - 129
2305257	Etridiazole	69.7	78.2	P/P	50 - 150
2305257	Fenamiphos	109	100	P/P	31 - 137
2305257	Fenbuconazole	42.3	46.0	F/F	57 - 160
2305257	Fipronil	92.6	105	P/P	62 - 132
2305257	Fipronil Desulfinyl	94.9	109	P/P	57 - 131
2305257	Fipronil Sulfide	76.3	78.8	P/P	15 - 138
2305257	Fipronil Sulfone	78.9	73.5	P/P	21 - 134
2305257	Fluazifop-P-butyl	70.0	70.4	P/P	54 - 133
2305257	Fludioxonil	94.6	97.7	P/P	58 - 127
2305257	Flumioxazin	78.2	80.8	P/P	33 - 300
2305257	Flutolanil	73.4	78.2	P/P	42 - 130
2305257	Fluxapyroxad	64.0	76.9	P/P	23 - 141
2305257	Fonofos	86.1	82.4	P/P	58 - 119
2305257	Hexazinone	105	99.8	P/P	68 - 172
2305257	Imazalil	93.4	97.9	P/P	48 - 283
2305257	Iprodione	75.8	105	P/P	38 - 140
2305257	Loratadine	107	112	P/P	50 - 150
2305257	Malathion	99.4	109	P/P	40 - 137

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P409681

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305257	Metalaxyl	85.2	99.3	P/P	21 - 129
2305257	Metolachlor	98.3	104	P/P	55 - 122
2305257	Metribuzin	94.4	99.5	P/P	38 - 187
2305257	Mevinphos	69.7	77.2	P/P	54 - 134
2305257	Molinate	67.8	66.1	P/P	41 - 97.0
2305257	Myclobutanil	85.1	92.4	P/P	56 - 125
2305257	Naled	121	120	F/F	10 - 108
2305257	Napropamide	77.4	83.8	P/P	50 - 150
2305257	Norflurazon	86.8	89.4	P/P	32 - 122
2305257	Octinoxate	92.7	99.4	P/P	50 - 150
2305257	Oxadiazon	78.6	84.3	P/P	40 - 119
2305257	Oxybenzone	116	128	P/P	50 - 150
2305257	Oxyfluorfen	107	116	P/P	61 - 153
2305257	Parathion Ethyl	93.7	98.8	P/P	59 - 130
2305257	Parathion Methyl	113	126	P/P	65 - 155
2305257	Pendimethalin	96.3	102	P/P	49 - 138
2305257	Phenytoin	52.9	53.3	P/P	50 - 200
2305257	Phorate	84.6	83.0	P/P	54 - 161
2305257	Prodiamine	45.4	52.2	P/P	33 - 161
2305257	Prometon	83.7	90.0	P/P	48 - 140
2305257	Prometryn	77.7	89.4	P/P	55 - 134
2305257	Pronamide	99.1	108	P/P	66 - 137
2305257	Propanil	87.4	103	P/P	50 - 150
2305257	Propargite	84.2	107	P/P	50 - 200
2305257	Propiconazole	88.1	85.3	P/P	36 - 150
2305257	Pyraflufen Ethyl	82.1	74.7	P/P	50 - 150
2305257	Pyridaben	83.0	89.2	P/P	50 - 200
2305257	Pyriproxyfen	83.3	98.9	P/P	10 - 165
2305257	Simazine	85.3	89.8	P/P	57 - 145
2305257	Stirophos	81.1	80.4	P/P	50 - 150
2305257	Tebuconazole	77.6	85.1	P/P	10 - 127
2305257	Terbufos	122	120	P/P	59 - 138
2305257	Terbuthylazine	94.5	101	P/P	68 - 119
2305257	Thiobencarb	88.0	101	P/P	50 - 150
2305257	Triadimefon	94.8	98.5	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P409707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304547	PCB-1016	79.0	75.3	P/P	46 - 110
2304547	PCB-1260	106	104	P/P	42 - 111
2304810	Aldrin	55.2	53.2	P/P	10 - 89.0
2304810	Alpha-BHC	91.2	87.5	P/P	71 - 105
2304810	Alpha-Chlordane	69.0	66.5	P/P	43 - 107
2304810	Beta-BHC	86.2	79.7	P/P	57 - 152
2304810	Beta-Cyfluthrin	117	125	P/P	29 - 186
2304810	Bifenthrin	41.6	60.7	P/P	19 - 119
2304810	Chlorothalonil	148	126	P/P	10 - 245
2304810	Cis-Nonachlor	68.7	69.9	P/P	36 - 110
2304810	Cypermethrin	101	109	P/P	24 - 169
2304810	Dacthal	85.0	82.0	P/P	62 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P409707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304810	DDD-p,p'	65.4	69.5	P/P	36 - 109
2304810	DDE-p,p'	73.8	69.8	P/P	30 - 114
2304810	DDT-p,p'	79.0	75.4	P/P	42 - 108
2304810	Delta-BHC	91.9	83.8	P/P	60 - 164
2304810	Deltamethrin	121	119	P/P	10 - 210
2304810	Dichlobenil	70.9	66.1	P/P	23 - 108
2304810	Dicofol	76.2	76.1	P/P	44 - 109
2304810	Dieldrin	66.5	71.9	P/P	37 - 119
2304810	Endosulfan I	78.6	75.7	P/P	52 - 105
2304810	Endosulfan II	78.2	82.7	P/P	35 - 127
2304810	Endosulfan Sulfate	79.4	73.9	P/P	39 - 130
2304810	Endrin Ketone	122	99.7	P/P	48 - 134
2304810	Esfenvalerate	103	107	P/P	10 - 199
2304810	Ethalfuralin	70.9	69.5	P/P	48 - 95.0
2304810	Fenpropathrin	80.6	92.0	P/P	37 - 121
2304810	Gamma-BHC	81.9	82.1	P/P	61 - 126
2304810	Gamma-Chlordane	69.6	64.8	P/P	39 - 105
2304810	Heptachlor	72.5	70.7	P/P	38 - 96.0
2304810	Heptachlor Epoxide	74.7	73.3	P/P	42 - 114
2304810	Hexachlorobenzene	70.5	68.6	P/P	39 - 93.0
2304810	Kepone	55.8	20.0	P/P	10 - 215
2304810	Lambda-Cyhalothrin	120	137	P/P	10 - 204
2304810	Methoxychlor	87.6	87.0	P/P	56 - 115
2304810	MGK-264	74.0	72.8	P/P	35 - 120
2304810	Mirex	56.9	57.9	P/P	10 - 178
2304810	Oxychlordane	72.2	75.8	P/P	47 - 91.0
2304810	Permethrin	102	114	P/P	27 - 170
2304810	Tau-Fluvalinate	74.5	87.0	P/P	16 - 158
2304810	Trans-Nonachlor	72.3	68.1	P/P	43 - 102
2304810	Triclosan Methyl	74.2	72.8	P/P	49 - 109
2304810	Trifluralin	74.8	69.3	P/P	48 - 93.0

Reference Method: EPA 8270E

Batch ID: P410329

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304526	Endrin	41.8		P	30 - 116
2304526	Endrin Aldehyde	52.9		P	20 - 110
2304526	Methoprene	23.3		P	17 - 108
2304526	Piperonyl Butoxide	13.1		F	23 - 150
2304526	Prallethrin	51.1		P	21 - 113
2304526	Tetramethrin	62.7		P	22 - 132

Reference Method: EPA 8276

Batch ID: P409707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304547	Chlordane	84.1	85.5	P/P	55 - 128
2304547	Toxaphene	77.8	79.6	P/P	57 - 211

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P409557

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303655	2,4-D	105	93.0	P/P	40 - 150
2303655	2,4,5-T	43.0	45.7	P/P	40 - 150
2303655	Acetaminophen	91.7	96.6	P/P	30 - 150
2303655	Acetamiprid	114	101	P/P	40 - 150
2303655	Afidopyropen	96.2	100	P/P	40 - 150
2303655	Bentazon	63.4	77.2	P/P	30 - 150
2303655	Benzovindiflupyr	95.6	78.2	P/P	40 - 150
2303655	Carbamazepine	115	114	P/P	40 - 150
2303655	Clothianidin	103	96.4	P/P	40 - 150
2303655	Dinotefuran	132	117	P/P	40 - 150
2303655	Diuron	99.9	76.3	P/P	40 - 150
2303655	Fenuron	90.5	95.4	P/P	40 - 150
2303655	Fluridone	91.1	104	P/P	40 - 150
2303655	Hydrocodone	98.9	98.6	P/P	40 - 150
2303655	Ibuprofen	121	85.4	P/P	40 - 150
2303655	Imazapyr	136	141	P/P	40 - 150
2303655	Imidacloprid	114	120	P/P	40 - 150
2303655	Linuron	69.8	71.9	P/P	40 - 150
2303655	Mandestrobin	91.3	105	P/P	40 - 150
2303655	MCCPP	118	104	P/P	40 - 150
2303655	Naproxen	71.5	85.6	P/P	40 - 150
2303655	Primidone	105	81.4	P/P	40 - 150
2303655	Pyraclostrobin	86.4	88.4	P/P	40 - 150
2303655	Silvex	38.8	44.0	F/P	40 - 150
2303655	Thiamethoxam	124	121	P/P	40 - 150
2303655	Tolfenpyrad	50.3	38.5	P/P	30 - 150
2303655	Triclopyr	48.9	37.5	P/F	40 - 150

Reference Method: EPA 8321B

Batch ID: P409559

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304428	3-Hydroxycarbofuran	109	85.0	P/P	40 - 150
2304428	Aldicarb	106	61.3	P/P	30 - 150
2304428	Aldicarb Sulfone	101	104	P/P	40 - 150
2304428	Aldicarb Sulfoxide	53.3	52.9	P/P	40 - 150
2304428	Carbaryl	82.8	70.0	P/P	40 - 150
2304428	Carbofuran	95.9	74.8	P/P	40 - 150
2304428	Methiocarb	103	76.8	P/P	40 - 150
2304428	Methomyl	93.1	76.6	P/P	40 - 150
2304428	Oxamyl	92.6	103	P/P	40 - 150
2304428	Propoxur	87.3	81.0	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P409584

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304429	Acesulfame K	97.0	98.2	P/P	40 - 150
2304429	AMPA	54.5	53.6	P/P	40 - 150
2304429	Endothall	89.1	89.8	P/P	40 - 150
2304429	Glufosinate	86.1	84.8	P/P	40 - 150
2304429	Glyphosate	70.3	64.7	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P409584

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304429	Sucralose	91.1	94.3	P/P	40 - 150

Reference Method: SM 4500 F-C-2011
Batch ID: P409907

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305354	Fluoride	97.0	97.8	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P410400

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303952	Organic Carbon	101		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409640

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304485	Turbidity	1.76	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P410092

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305376	Calcium	0.913	Spike	P	0 - 20
2305376	Iron	0.813	Spike	P	0 - 20
2305376	Magnesium	1.85	Spike	P	0 - 20
2305376	Strontium	1.29	Spike	P	0 - 20
2305376	Tin	12.7	Spike	P	0 - 20
2305376	Titanium	0.0516	Spike	P	0 - 20
2305376	Vanadium	0.252	Spike	P	0 - 20
2305376	Zinc	0.533	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P410092

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305376	Aluminum	1.67	Spike	P	0 - 20
2305376	Antimony	1.28	Spike	P	0 - 20
2305376	Arsenic	0.768	Spike	P	0 - 20
2305376	Beryllium	0.505	Spike	P	0 - 20
2305376	Cadmium	1.10	Spike	P	0 - 20
2305376	Chromium	0.556	Spike	P	0 - 20
2305376	Cobalt	0.334	Spike	P	0 - 20
2305376	Copper	1.96	Spike	P	0 - 20
2305376	Lead	0.989	Spike	P	0 - 20
2305376	Manganese	0.982	Spike	P	0 - 20
2305376	Molybdenum	0.800	Spike	P	0 - 20
2305376	Nickel	2.47	Spike	P	0 - 20
2305376	Selenium	1.20	Spike	P	0 - 20
2305376	Silver	0.359	Spike	P	0 - 20
2305376	Thallium	0.959	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303923	Ammonia-N	0.941	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409671

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304295	Kjeldahl Nitrogen	2.72	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P410050

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304523	NO2NO3-N	1.78	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409630

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304481	Total-P	2.42	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409627

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304531	O-Phosphate-P	0.504	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P409681

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305257	Acetochlor	14.4	Spike	P	0 - 27
2305257	Alachlor	19.3	Spike	P	0 - 27
2305257	Ametryn	29.5	Spike	P	0 - 34
2305257	Atrazine	1.15	Spike	P	0 - 41
2305257	Atrazine Desethyl	5.29	Spike	P	0 - 38
2305257	Avobenzone	13.0	Spike	P	0 - 30
2305257	Azinphos Methyl	21.2	Spike	P	0 - 62
2305257	Azoxystrobin	6.63	Spike	P	0 - 32
2305257	Bromacil	13.3	Spike	P	0 - 30
2305257	Butylate	1.70	Spike	P	0 - 59
2305257	Caffeine	58.1	Spike	P	0 - 60
2305257	Carbophenothion	2.70	Spike	P	0 - 25
2305257	Carfentrazone Ethyl	6.86	Spike	P	0 - 26
2305257	Chlorfenapyr	14.9	Spike	P	0 - 30
2305257	Chlorpyrifos Ethyl	4.95	Spike	P	0 - 27
2305257	Chlorpyrifos Methyl	4.09	Spike	P	0 - 26
2305257	Coumaphos	6.08	Spike	P	0 - 30
2305257	Cyanazine	4.16	Spike	P	0 - 58
2305257	Cyprodinil	13.9	Spike	P	0 - 30
2305257	Demeton	1.95	Spike	P	0 - 25
2305257	Diazinon	10.8	Spike	P	0 - 29
2305257	Difenoconazole	15.3	Spike	P	0 - 25
2305257	Dimethenamid	12.0	Spike	P	0 - 30
2305257	Dimethomorph	0.0895	Spike	P	0 - 30
2305257	Disulfoton	9.89	Spike	P	0 - 33
2305257	Dithiopyr	1.27	Spike	P	0 - 22
2305257	EPTC	6.97	Spike	P	0 - 38
2305257	Ethion	10.1	Spike	P	0 - 79
2305257	Ethoprop	1.63	Spike	P	0 - 23
2305257	Etridiazole	11.5	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P409681

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305257	Fenamiphos	8.31	Spike	P	0 - 58
2305257	Fenbuconazole	8.41	Spike	P	0 - 37
2305257	Fipronil	12.1	Spike	P	0 - 33
2305257	Fipronil Desulfinyl	14.2	Spike	P	0 - 26
2305257	Fipronil Sulfide	3.23	Spike	P	0 - 37
2305257	Fipronil Sulfone	7.11	Spike	P	0 - 50
2305257	Fluazifop-P-butyl	0.564	Spike	P	0 - 24
2305257	Fludioxonil	3.26	Spike	P	0 - 26
2305257	Flumioxazin	3.25	Spike	P	0 - 37
2305257	Flutolanil	6.26	Spike	P	0 - 26
2305257	Fluxapyroxad	16.6	Spike	P	0 - 34
2305257	Fonofos	4.43	Spike	P	0 - 27
2305257	Hexazinone	4.62	Spike	P	0 - 36
2305257	Imazalil	4.68	Spike	P	0 - 65
2305257	Iprodione	32.3	Spike	P	0 - 33
2305257	Loratadine	5.10	Spike	P	0 - 30
2305257	Malathion	9.04	Spike	P	0 - 44
2305257	Metalaxyl	15.3	Spike	P	0 - 38
2305257	Metolachlor	6.02	Spike	P	0 - 36
2305257	Metribuzin	5.29	Spike	P	0 - 63
2305257	Mevinphos	10.2	Spike	P	0 - 26
2305257	Molinate	2.61	Spike	P	0 - 40
2305257	Myclobutanil	8.14	Spike	P	0 - 21
2305257	Naled	0.639	Spike	P	0 - 26
2305257	Napropamide	7.95	Spike	P	0 - 30
2305257	Norflurazon	2.97	Spike	P	0 - 24
2305257	Octinoxate	6.97	Spike	P	0 - 30
2305257	Oxadiazon	6.93	Spike	P	0 - 27
2305257	Oxybenzone	9.39	Spike	P	0 - 30
2305257	Oxyfluorfen	7.96	Spike	P	0 - 24
2305257	Parathion Ethyl	5.24	Spike	P	0 - 28
2305257	Parathion Methyl	10.6	Spike	P	0 - 27
2305257	Pendimethalin	5.71	Spike	P	0 - 31
2305257	Phenytol	0.675	Spike	P	0 - 30
2305257	Phorate	1.90	Spike	P	0 - 27
2305257	Prodiamine	14.0	Spike	P	0 - 52
2305257	Prometon	7.18	Spike	P	0 - 31
2305257	Prometryn	14.0	Spike	P	0 - 28
2305257	Pronamide	8.56	Spike	P	0 - 26
2305257	Propanil	16.5	Spike	P	0 - 30
2305257	Propargite	24.1	Spike	P	0 - 30
2305257	Propiconazole	3.22	Spike	P	0 - 31
2305257	Pyraflufen Ethyl	9.32	Spike	P	0 - 30
2305257	Pyridaben	7.28	Spike	P	0 - 30
2305257	Pyriproxyfen	17.2	Spike	P	0 - 50
2305257	Simazine	5.03	Spike	P	0 - 29
2305257	Stirophos	0.872	Spike	P	0 - 30
2305257	Sulfentrazone	2.56	Spike	P	0 - 33
2305257	Tebuconazole	9.18	Spike	P	0 - 44
2305257	Terbufos	1.74	Spike	P	0 - 29
2305257	Terbutylazine	6.92	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P409681

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305257	Thiobencarb	13.7	Spike	P	0 - 30
2305257	Triadimefon	3.78	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P409707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304547	PCB-1016	4.81	Spike	P	0 - 22
2304547	PCB-1260	2.27	Spike	P	0 - 30
2304810	Aldrin	3.72	Spike	P	0 - 37
2304810	Alpha-BHC	4.11	Spike	P	0 - 16
2304810	Alpha-Chlordane	3.59	Spike	P	0 - 28
2304810	Beta-BHC	7.80	Spike	P	0 - 32
2304810	Beta-Cyfluthrin	6.84	Spike	P	0 - 41
2304810	Bifenthrin	37.3	Spike	F	0 - 36
2304810	Chlorothalonil	16.1	Spike	P	0 - 54
2304810	Cis-Nonachlor	1.78	Spike	P	0 - 33
2304810	Cypermethrin	8.16	Spike	P	0 - 38
2304810	Dacthal	3.53	Spike	P	0 - 23
2304810	DDD-p,p'	6.07	Spike	P	0 - 35
2304810	DDE-p,p'	5.56	Spike	P	0 - 27
2304810	DDT-p,p'	4.42	Spike	P	0 - 31
2304810	Delta-BHC	9.22	Spike	P	0 - 30
2304810	Deltamethrin	1.71	Spike	P	0 - 76
2304810	Dichlobenil	7.06	Spike	P	0 - 33
2304810	Dicofol	0.127	Spike	P	0 - 24
2304810	Dieldrin	7.83	Spike	P	0 - 35
2304810	Endosulfan I	3.70	Spike	P	0 - 25
2304810	Endosulfan II	5.65	Spike	P	0 - 31
2304810	Endosulfan Sulfate	7.26	Spike	P	0 - 38
2304810	Endrin Ketone	19.9	Spike	P	0 - 33
2304810	Esfenvalerate	3.77	Spike	P	0 - 46
2304810	Ethalfuralin	2.02	Spike	P	0 - 22
2304810	Fenpropathrin	13.2	Spike	P	0 - 29
2304810	Gamma-BHC	0.278	Spike	P	0 - 17
2304810	Gamma-Chlordane	7.14	Spike	P	0 - 28
2304810	Heptachlor	2.52	Spike	P	0 - 28
2304810	Heptachlor Epoxide	1.83	Spike	P	0 - 23
2304810	Hexachlorobenzene	2.70	Spike	P	0 - 22
2304810	Kepone	94.4	Spike	F	0 - 61
2304810	Lambda-Cyhalothrin	13.3	Spike	P	0 - 52
2304810	Methoxychlor	0.691	Spike	P	0 - 29
2304810	MGK-264	1.71	Spike	P	0 - 41
2304810	Mirex	1.88	Spike	P	0 - 39
2304810	Oxychlordane	4.94	Spike	P	0 - 33
2304810	Permethrin	11.1	Spike	P	0 - 39
2304810	Phenothrin	38.0	Spike	P	0 - 52
2304810	Tau-Fluvalinate	15.5	Spike	P	0 - 41
2304810	Trans-Nonachlor	5.85	Spike	P	0 - 31
2304810	Triclosan Methyl	1.96	Spike	P	0 - 24

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P409707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304810	Trifluralin	7.62	Spike	P	0 - 23

Reference Method: EPA 8270E
Batch ID: P410329

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Endrin	28.6	LCS	F	0 - 20
LFB	Endrin Aldehyde	20.3	LCS	P	0 - 33
LFB	Methoprene	31.8	LCS	P	0 - 48
LFB	Piperonyl Butoxide	25.1	LCS	P	0 - 36
LFB	Prallethrin	6.58	LCS	P	0 - 41
LFB	Tetramethrin	46.8	LCS	P	0 - 66

Reference Method: EPA 8276
Batch ID: P409707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304547	Chlordane	1.71	Spike	P	0 - 25
2304547	Toxaphene	2.25	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P409557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303655	2,4-D	11.7	Spike	P	0 - 30
2303655	2,4,5-T	6.20	Spike	P	0 - 30
2303655	Acetaminophen	5.18	Spike	P	0 - 30
2303655	Acetamiprid	12.8	Spike	P	0 - 30
2303655	Afidopyropen	4.19	Spike	P	0 - 30
2303655	Bentazon	11.3	Spike	P	0 - 30
2303655	Benzovindiflupyr	20.0	Spike	P	0 - 30
2303655	Carbamazepine	0.304	Spike	P	0 - 30
2303655	Clothianidin	6.40	Spike	P	0 - 30
2303655	Dinotefuran	12.2	Spike	P	0 - 30
2303655	Diuron	25.2	Spike	P	0 - 30
2303655	Fenuron	5.28	Spike	P	0 - 30
2303655	Fluridone	12.6	Spike	P	0 - 30
2303655	Hydrocodone	0.229	Spike	P	0 - 30
2303655	Ibuprofen	34.6	Spike	F	0 - 30
2303655	Imazapyr	3.09	Spike	P	0 - 30
2303655	Imidacloprid	5.12	Spike	P	0 - 30
2303655	Linuron	2.95	Spike	P	0 - 30
2303655	Mandestrobin	13.7	Spike	P	0 - 30
2303655	MCP	12.4	Spike	P	0 - 30
2303655	Naproxen	18.0	Spike	P	0 - 30
2303655	Primidone	25.0	Spike	P	0 - 30
2303655	Pyraclostrobin	2.21	Spike	P	0 - 30
2303655	Silvex	12.8	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P409557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303655	Thiamethoxam	2.62	Spike	P	0 - 30
2303655	Tolfenpyrad	26.5	Spike	P	0 - 30
2303655	Triclopyr	26.3	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P409559

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304428	3-Hydroxycarbofuran	24.7	Spike	P	0 - 30
2304428	Aldicarb	53.1	Spike	F	0 - 30
2304428	Aldicarb Sulfone	2.54	Spike	P	0 - 30
2304428	Aldicarb Sulfoxide	0.648	Spike	P	0 - 30
2304428	Carbaryl	16.8	Spike	P	0 - 30
2304428	Carbofuran	24.8	Spike	P	0 - 30
2304428	Methiocarb	29.5	Spike	P	0 - 30
2304428	Methomyl	19.4	Spike	P	0 - 30
2304428	Oxamyl	10.4	Spike	P	0 - 30
2304428	Propoxur	7.51	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P409584

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304429	Acesulfame K	1.24	Spike	P	0 - 30
2304429	AMPA	1.44	Spike	P	0 - 30
2304429	Endothall	0.718	Spike	P	0 - 30
2304429	Glufosinate	1.54	Spike	P	0 - 30
2304429	Glyphosate	6.98	Spike	P	0 - 30
2304429	Sucralose	3.29	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P410035

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306102	Total Alkalinity	6.63	Sample	F	0 - 5.2

Reference Method: SM 4500 F-C-2011
Batch ID: P409907

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305354	Fluoride	0.470	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410400

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

Precision

Reference Method: SM 5310 B-2011
Batch ID: P410400

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303952	Organic Carbon	0.370	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2304544
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	69.8	P	30 - 160

Lab Sample ID: 2304545
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	131	P	30 - 160
EPA 8321B	Acetaminophen-d4	87.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	119	P	30 - 160
EPA 8321B	Diuron-d6	62.4	P	30 - 160
EPA 8321B	Endothall-d6	81.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	124	P	30 - 160
EPA 8321B	Primidone-d5	122	P	30 - 160
EPA 8321B	Sucralose-d6	78.6	P	30 - 160

Lab Sample ID: 2304546
Field Sample ID: G4SE0146

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	147	P	30 - 160
EPA 8321B	Acetaminophen-d4	90.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	132	P	30 - 160
EPA 8321B	Diuron-d6	93.1	P	30 - 160
EPA 8321B	Endothall-d6	68.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	62.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	158	P	30 - 160
EPA 8321B	Primidone-d5	114	P	30 - 160
EPA 8321B	Sucralose-d6	78.0	P	30 - 160

Lab Sample ID: 2304547
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	65.5	P	38 - 115
EPA 8270E	Decachlorobiphenyl	62.3	P	31 - 118
EPA 8270E	Decachlorobiphenyl	70.6	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	44.8	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	62.8	P	28 - 96.0
EPA 8270E	Tetrachloro-m-xylene	51.7	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	57.4	P	30 - 97.0
EPA 8276	PCNB	60.1	P	45 - 119

Lab Sample ID: 2304548
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	29.6	P	20 - 200
EPA 8270E	Simazine-d10	77.3	P	71 - 140
EPA 8270E	Terbufos-d10	87.6	P	62 - 131
EPA 8270E	Terphenyl-d14	93.9	P	55 - 108

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110311

Included Lab Sample IDs: 2304524

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.9	98.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110314

Included Lab Sample IDs: 2304522

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110365

Included Lab Sample IDs: 2304523

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

Reference Method: EPA 8321B

Run ID: A110380

Included Lab Sample IDs: 2304545, 2304546

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.3	113	P/P	50 - 150
2,4,5-T	119	149	P/P	50 - 150
3-Hydroxycarbofuran	112	109	P/P	60 - 150
Acetaminophen	97.2	114	P/P	60 - 160
Acetamiprid	111	108	P/P	50 - 150
Afidopyropen	102	121	P/P	50 - 150
Aldicarb	87.7	123	P/P	60 - 150
Aldicarb Sulfone	106	105	P/P	50 - 150
Aldicarb Sulfoxide	99.9	104	P/P	50 - 150
Bentazon	98.2	103	P/P	50 - 160
Benzovindiflupyr	77.8	94.8	P/P	50 - 150
Carbamazepine	98.0	116	P/P	60 - 150
Carbaryl	122	104	P/P	60 - 150
Carbofuran	123	105	P/P	50 - 150
Clothianidin	111	113	P/P	60 - 150
Dinotefuran	99.8	114	P/P	50 - 150
Diuron	110	112	P/P	60 - 160
Fenuron	89.1	113	P/P	60 - 150
Fluridone	108	119	P/P	60 - 160
Hydrocodone	96.9	102	P/P	60 - 150
Ibuprofen	135	112	P/P	50 - 160
Imazapyr	106	108	P/P	50 - 150
Imidacloprid	115	107	P/P	60 - 150
Linuron	81.0	126	P/P	60 - 150
Mandestrobin	119	121	P/P	50 - 150
MCPP	95.5	112	P/P	50 - 150
Methiocarb	118	131	P/P	50 - 150
Methomyl	89.6	88.7	P/P	50 - 150
Naproxen	69.6	55.1	P/P	50 - 160
Oxamyl	109	95.6	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A110380

Included Lab Sample IDs: 2304545, 2304546

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Primidone	107	99.8	P/P	60 - 150
Propoxur	123	110	P/P	50 - 150
Pyraclostrobin	120	143	P/P	60 - 150
Silvex	104	143	P/P	50 - 150
Thiamethoxam	102	114	P/P	50 - 150
Tolfenpyrad	94.9	138	P/P	60 - 150
Triclopyr	99.5	139	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A110387

Included Lab Sample IDs: 2304545, 2304546

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	97.1	97.1	P/P	60 - 160
AMPA	97.2	99.2	P/P	60 - 160
Glufosinate	105	104	P/P	60 - 160
Glufosinate	98.6	104	P/P	60 - 160
Glyphosate	95.7	95.4	P/P	60 - 160
Glyphosate	96.1	94.5	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A110393

Included Lab Sample IDs: 2304545, 2304546

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	88.9	98.4	P/P	60 - 160
Endothall	72.6	83.6	P/P	60 - 160
Sucralose	82.0	84.8	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110402

Included Lab Sample IDs: 2304523

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.1	94.6	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110433

Included Lab Sample IDs: 2304522

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

Reference Method: EPA 8270E

Run ID: A110449

Included Lab Sample IDs: 2304547

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.8		P	80 - 120
Alpha-BHC	95.9		P	80 - 120
Alpha-Chlordane	105		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110449
Included Lab Sample IDs: 2304547

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-BHC	105		P	80 - 120
Beta-Cyfluthrin	90.7		P	80 - 120
Bifenthrin	98.2		P	80 - 120
Chlorothalonil	93.2		P	80 - 120
Cis-Nonachlor	99.3		P	80 - 120
Cypermethrin	98.9		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	94.9		P	80 - 120
Delta-BHC	95.7		P	80 - 120
Deltamethrin	84.8		P	80 - 120
Dichlobenil	104		P	80 - 120
Dicofol	99.3		P	80 - 120
Dieldrin	104		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	95.0		P	80 - 120
Endosulfan Sulfate	101		P	80 - 120
Endrin Ketone	99.9		P	80 - 120
Esfenvalerate	91.1		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	105		P	80 - 120
Gamma-BHC	94.6		P	80 - 120
Gamma-Chlordane	104		P	80 - 120
Heptachlor	93.6		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Hexachlorobenzene	100		P	80 - 120
Kepone	99.1		P	80 - 120
Lambda-Cyhalothrin	90.9		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	105		P	80 - 120
Mirex	97.7		P	80 - 120
Oxychlordane	106		P	80 - 120
Permethrin	93.0		P	80 - 120
Phenothrin	99.2		P	80 - 120
Tau-Fluvalinate	85.7		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Triclosan Methyl	110		P	80 - 120
Trifluralin	95.0		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A110454
Included Lab Sample IDs: 2304523

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	98.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110457
Included Lab Sample IDs: 2304547

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	106		P	80 - 120
PCB-1260	118		P	80 - 120

Reference Method: EPA 8276
Run ID: A110477
Included Lab Sample IDs: 2304547

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.0		P	80 - 120
Toxaphene	101		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A110482
Included Lab Sample IDs: 2304522

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.3	93.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A110486
Included Lab Sample IDs: 2304523

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A110507
Included Lab Sample IDs: 2304548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	106		P	80 - 120
Alachlor	111		P	80 - 120
Ametryn	99.2		P	80 - 120
Atrazine	99.2		P	80 - 120
Atrazine Desethyl	110		P	80 - 120
Azinphos Methyl	95.8		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	106		P	80 - 120
Butylate	98.0		P	80 - 120
Caffeine	102		P	80 - 120
Carbophenothion	81.8		P	80 - 120
Carfentrazone Ethyl	101		P	80 - 120
Chlorfenapyr	100		P	80 - 120
Chlorpyrifos Ethyl	106		P	80 - 120
Chlorpyrifos Methyl	99.7		P	80 - 120
Coumaphos	83.2		P	80 - 120
Cyanazine	109		P	80 - 120
Cyprodinil	94.2		P	80 - 120
Demeton	94.4		P	80 - 120
Diazinon	102		P	80 - 120
Difenoconazole	97.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110507
Included Lab Sample IDs: 2304548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dimethenamid	107		P	80 - 120
Dimethomorph	99.1		P	80 - 120
Disulfoton	95.4		P	80 - 120
Dithiopyr	94.1		P	80 - 120
EPTC	101		P	80 - 120
Ethion	98.6		P	80 - 120
Ethoprop	98.5		P	80 - 120
Etridiazole	102		P	80 - 120
Fenamiphos	100		P	80 - 120
Fenbuconazole	113		P	80 - 120
Fipronil	96.7		P	80 - 120
Fipronil Desulfinyl	98.7		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	90.1		P	80 - 120
Fluazifop-P-butyl	81.2		P	80 - 120
Fludioxonil	100		P	80 - 120
Flumioxazin	114		P	80 - 120
Flutolanil	108		P	80 - 120
Fluxapyroxad	90.9		P	80 - 120
Fonofos	98.1		P	80 - 120
Hexazinone	99.8		P	80 - 120
Imazalil	99.2		P	80 - 120
Iprodione	98.5		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	91.8		P	80 - 120
Metalaxyl	98.8		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	105		P	80 - 120
Mevinphos	96.1		P	80 - 120
Molinate	97.7		P	80 - 120
Myclobutanil	106		P	80 - 120
Naled	110		P	80 - 120
Napropamide	101		P	80 - 120
Norflurazon	99.3		P	80 - 120
Oxadiazon	108		P	80 - 120
Oxyfluorfen	96.3		P	80 - 120
Parathion Ethyl	109		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	108		P	80 - 120
Phenytoin	101		P	80 - 120
Phorate	92.5		P	80 - 120
Prodiamine	86.5		P	80 - 120
Prometon	105		P	80 - 120
Prometryn	100		P	80 - 120
Pronamide	106		P	80 - 120
Propanil	105		P	80 - 120
Propargite	98.0		P	80 - 120
Propiconazole	100		P	80 - 120
Pyraflufen Ethyl	97.6		P	80 - 120
Pyridaben	101		P	80 - 120
Pyriproxyfen	106		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110507
Included Lab Sample IDs: 2304548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Simazine	103		P	80 - 120
Stirophos	101		P	80 - 120
Sulfentrazone	92.7		P	80 - 120
Tebuconazole	95.7		P	80 - 120
Terbufos	93.9		P	80 - 120
Terbutylazine	106		P	80 - 120
Thiobencarb	110		P	80 - 120
Triadimefon	109		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A110527
Included Lab Sample IDs: 2304549

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	101	P/P	90 - 110
Antimony	95.7	96.0	P/P	90 - 110
Arsenic	98.1	99.3	P/P	90 - 110
Beryllium	98.8	99.3	P/P	90 - 110
Cadmium	98.2	98.2	P/P	90 - 110
Chromium	97.2	97.2	P/P	90 - 110
Cobalt	98.7	99.1	P/P	90 - 110
Copper	98.6	98.7	P/P	90 - 110
Lead	94.0	94.7	P/P	90 - 110
Manganese	98.3	98.4	P/P	90 - 110
Molybdenum	97.9	98.9	P/P	90 - 110
Nickel	99.2	99.6	P/P	90 - 110
Selenium	99.7	99.1	P/P	90 - 110
Silver	91.7	92.3	P/P	90 - 110
Thallium	99.2	99.1	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A110528
Included Lab Sample IDs: 2304549

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	102	P/P	90 - 110
Iron	104	104	P/P	90 - 110
Magnesium	101	100	P/P	90 - 110
Strontium	101	101	P/P	90 - 110
Tin	103	104	P/P	90 - 110
Titanium	100	101	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110
Zinc	101	102	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A110535
Included Lab Sample IDs: 2304548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	101		P	80 - 120
Octinoxate	91.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110535
Included Lab Sample IDs: 2304548

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxybenzone	95.8		P	80 - 120

Reference Method: EPA 8270E
Run ID: A110615
Included Lab Sample IDs: 2304547

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin	92.3		P	80 - 120
Endrin Aldehyde	112		P	80 - 120
Methoprene	96.2		P	80 - 120
Piperonyl Butoxide	101		P	80 - 120
Prallethrin	101		P	80 - 120
Tetramethrin	109		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A110642
Included Lab Sample IDs: 2304523

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	95.8	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity	96.2				1.76	
EPA 200.7 Rev. 4.4	Calcium	105					0.913
	Iron	107	107	108			0.813
	Magnesium	102					1.85
	Strontium	102					1.29
	Tin	107	90.8	80.0			12.7
	Titanium	104	102	102			0.0516
	Vanadium	96.2	98.8	99.0			0.252
	Zinc	102	99.8	100			0.533
EPA 200.8 Rev. 5.4	Aluminum	99.8	99.3	97.7			1.67
	Antimony	98.5	103	102			1.28
	Arsenic	97.9	108	108			0.768
	Beryllium	94.0	99.0	99.5			0.505
	Cadmium	97.1	98.5	97.5			1.10
	Chromium	96.2	101	100			0.556
	Cobalt	96.7	105	105			0.334
	Copper	94.1	97.1	95.2			1.96
	Lead	94.4	99.3	98.3			0.989
	Manganese	96.6	98.7	97.7			0.982
	Molybdenum	97.3	109	110			0.800
	Nickel	96.5	106	103			2.47
	Selenium	97.4	79.4	78.5			1.20
	Silver	97.7	91.3	91.0			0.359
	Thallium	97.3	102	103			0.959
EPA 350.1 Rev. 2.0	Ammonia-N	100	98.6	100			0.941
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	105	108			2.72
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	94.0				1.78
EPA 365.1 Rev. 2.0	Total-P	104	100	103			2.42
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	94.1	94.6			0.504
EPA 8270E	Acetochlor	88.1	115	99.4			14.4
	Alachlor	95.0	121	99.6			19.3
	Aldrin	41.0	55.2	53.2			3.72
	Alpha-BHC	90.5	91.2	87.5			4.11
	Alpha-Chlordane	73.8	69.0	66.5			3.59
	Ametryn	101	106	78.8			29.5
	Atrazine	79.4	91.8	93.0			1.15
	Atrazine Desethyl	45.9	57.8	54.8			5.29
	Avobenzone	95.9	124	142			13.0
	Azinphos Methyl	96.1	122	98.4			21.2
	Azoxystrobin	90.1	106	99.2			6.63
	Beta-BHC	112	86.2	79.7			7.80
	Beta-Cyfluthrin	63.3	117	125			6.84
	Bifenthrin	48.7	41.6	60.7			37.3
	Bromacil	84.5	112	98.3			13.3
	Butylate	53.3	56.7	57.6			1.70
	Caffeine	104	86.7	158			58.1
	Carbophenothion	73.8	83.6	85.9			2.70
	Carfentrazone Ethyl	89.2	102	95.7			6.86
	Chlorfenapyr	79.7	90.7	78.1			14.9
	Chlorothalonil	80.4	148	126			16.1
	Chlorpyrifos Ethyl	81.4	86.8	91.2			4.95
	Chlorpyrifos Methyl	78.6	102	97.7			4.09
	Cis-Nonachlor	69.1	68.7	69.9			1.78
	Coumaphos	79.8	74.5	79.2			6.08

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Cyanazine	135		172	180			4.16
	Cypermethrin	68.1		101	109			8.16
	Cyprodinil	92.1		92.8	80.8			13.9
	Dacthal	86.2		85.0	82.0			3.53
	DDD-p,p'	70.4		65.4	69.5			6.07
	DDE-p,p'	74.7		73.8	69.8			5.56
	DDT-p,p'	82.6		79.0	75.4			4.42
	Delta-BHC	111		91.9	83.8			9.22
	Deltamethrin	70.5		121	119			1.71
	Demeton	68.7		81.4	83.0			1.95
	Diazinon	86.7		109	97.5			10.8
	Dichlobenil	79.7		70.9	66.1			7.06
	Dicofol	67.0		76.2	76.1			0.127
	Dieldrin	60.2		66.5	71.9			7.83
	Difenoconazole	128		174	150			15.3
	Dimethenamid	72.5						12.0
	Dimethomorph	103		121	121			0.0895
	Disulfoton	73.3		87.7	96.9			9.89
	Dithiopyr	87.7		93.0	94.2			1.27
	Endosulfan I	77.7		78.6	75.7			3.70
	Endosulfan II	66.7		78.2	82.7			5.65
	Endosulfan Sulfate	80.6		79.4	73.9			7.26
	Endrin	32.9	24.7	41.8		28.6		
	Endrin Aldehyde	50.5	41.2	52.9		20.3		
	Endrin Ketone	141		122	99.7			19.9
	EPTC	54.3		50.8	54.4			6.97
	Esfenvalerate	62.3		103	107			3.77
	Ethalfuralin	62.5		70.9	69.5			2.02
	Ethion	72.2		80.2	88.8			10.1
	Ethoprop	75.2		93.0	94.5			1.63
	Etridiazole	64.4		78.2	69.7			11.5
	Fenamiphos	79.7		100	109			8.31
	Fenbuconazole	48.3		46.0	42.3			8.41
	Fenpropathrin	50.6		80.6	92.0			13.2
	Fipronil	90.3		105	92.6			12.1
	Fipronil Desulfinyl	93.6		109	94.9			14.2
	Fipronil Sulfide	80.1		78.8	76.3			3.23
	Fipronil Sulfone	65.1		73.5	78.9			7.11
	Fluazifop-P-butyl	69.2		70.4	70.0			0.564
	Fludioxonil	77.2		97.7	94.6			3.26
	Flumioxazin	63.0		80.8	78.2			3.25
	Flutolanil	77.1		78.2	73.4			6.26
	Fluxapyroxad	59.8		76.9	64.0			16.6
	Fonofos	76.2		82.4	86.1			4.43
	Gamma-BHC	75.7		81.9	82.1			0.278
	Gamma-Chlordane	68.7		69.6	64.8			7.14
	Heptachlor	56.6		72.5	70.7			2.52
	Heptachlor Epoxide	73.7		74.7	73.3			1.83
	Hexachlorobenzene	70.2		70.5	68.6			2.70
	Hexazinone	84.4		99.8	105			4.62
	Imazalil	75.4		97.9	93.4			4.68
	Iprodione	77.7		105	75.8			32.3
	Kepone	67.1		55.8	20.0			94.4
	Lambda-Cyhalothrin	61.0		120	137			13.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Loratadine	79.1		112	107			5.10
	Malathion	89.3		109	99.4			9.04
	Metalaxyl	86.3		99.3	85.2			15.3
	Methoprene	33.0	23.9	23.3		31.8		
	Methoxychlor	76.8		87.6	87.0			0.691
	Metolachlor	90.9		104	98.3			6.02
	Metribuzin	81.4		99.5	94.4			5.29
	Mevinphos	55.6		77.2	69.7			10.2
	MGK-264	60.1		74.0	72.8			1.71
	Mirex	45.4		56.9	57.9			1.88
	Molinate	56.4		66.1	67.8			2.61
	Myclobutanil	77.1		92.4	85.1			8.14
	Naled	105		120	121			0.639
	Napropamide	81.1		83.8	77.4			7.95
	Norflurazon	73.6		89.4	86.8			2.97
	Octinoxate	65.4		92.7	99.4			6.97
	Oxadiazon	74.3		84.3	78.6			6.93
	Oxybenzone	117		116	128			9.39
	Oxychlordane	70.8		72.2	75.8			4.94
	Oxyfluorfen	86.5		116	107			7.96
	Parathion Ethyl	91.5		93.7	98.8			5.24
	Parathion Methyl	93.9		113	126			10.6
	PCB-1016	71.0		79.0	75.3			4.81
	PCB-1260	95.1		106	104			2.27
	Pendimethalin	89.6		96.3	102			5.71
	Permethrin	70.6		102	114			11.1
	Phenothrin	37.3						38.0
	Phenytol	40.8		52.9	53.3			0.675
	Phorate	66.9		84.6	83.0			1.90
	Piperonyl Butoxide	11.0	8.54	13.1		25.1		
	Prallethrin	51.5	55.1	51.1		6.58		
	Prodiamine	43.3		45.4	52.2			14.0
	Prometon	83.7		83.7	90.0			7.18
	Prometryn	81.9		77.7	89.4			14.0
	Pronamide	80.7		99.1	108			8.56
	Propanil	80.4		87.4	103			16.5
	Propargite	84.6		84.2	107			24.1
	Propiconazole	75.0		88.1	85.3			3.22
	Pyraflufen Ethyl	79.8		82.1	74.7			9.32
	Pyridaben	74.7		83.0	89.2			7.28
	Pyriproxyfen	76.2		83.3	98.9			17.2
	Simazine	72.8		85.3	89.8			5.03
	Stirophos	70.0		81.1	80.4			0.872
	Sulfentrazone	65.5						2.56
	Tau-Fluvalinate	42.0		74.5	87.0			15.5
	Tebuconazole	58.5		77.6	85.1			9.18
	Terbufos	101		122	120			1.74
	Terbutylazine	97.1		94.5	101			6.92
	Tetramethrin	107	66.2	62.7		46.8		
	Thiobencarb	95.8		88.0	101			13.7
	Trans-Nonachlor	69.7		72.3	68.1			5.85
	Triadimefon	90.0		94.8	98.5			3.78
	Triclosan Methyl	77.1		74.2	72.8			1.96
	Trifluralin	69.4		74.8	69.3			7.62

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8276	Chlordane	94.7	84.1	85.5			1.71
	Toxaphene	76.6	77.8	79.6			2.25
EPA 8321B	2,4-D	86.8	105	93.0			11.7
	2,4,5-T	63.9	43.0	45.7			6.20
	3-Hydroxycarbofuran	97.2	109	85.0			24.7
	Acesulfame K	95.4	97.0	98.2			1.24
	Acetaminophen	62.7	91.7	96.6			5.18
	Acetamiprid	83.8	114	101			12.8
	Afidopyropen	49.6	96.2	100			4.19
	Aldicarb	65.3	106	61.3			53.1
	Aldicarb Sulfone	93.8	101	104			2.54
	Aldicarb Sulfoxide	80.4	53.3	52.9			0.648
	AMPA	95.0	54.5	53.6			1.44
	Bentazon	83.1	63.4	77.2			11.3
	Benzovindiflupyr	66.9	95.6	78.2			20.0
	Carbamazepine	96.6	115	114			0.304
	Carbaryl	89.8	82.8	70.0			16.8
	Carbofuran	88.8	95.9	74.8			24.8
	Clothianidin	81.7	103	96.4			6.40
	Dinotefuran	98.9	132	117			12.2
	Diuron	98.1	99.9	76.3			25.2
	Endothall	61.7	89.1	89.8			0.718
	Fenuron	86.1	90.5	95.4			5.28
	Fluridone	89.1	91.1	104			12.6
	Glufosinate	105	86.1	84.8			1.54
	Glyphosate	92.5	70.3	64.7			6.98
	Hydrocodone	85.0	98.9	98.6			0.229
	Ibuprofen	101	121	85.4			34.6
	Imazapyr	101	136	141			3.09
	Imidacloprid	79.8	114	120			5.12
	Linuron	59.2	69.8	71.9			2.95
	Mandestrobin	93.4	91.3	105			13.7
	MCPP	102	118	104			12.4
	Methiocarb	105	103	76.8			29.5
	Methomyl	87.9	93.1	76.6			19.4
	Naproxen	64.8	71.5	85.6			18.0
	Oxamyl	94.3	92.6	103			10.4
	Primidone	109	105	81.4			25.0
	Propoxur	90.5	87.3	81.0			7.51
	Pyraclostrobin	70.6	86.4	88.4			2.21
	Silvex	76.7	38.8	44.0			12.8
	Sucralose	90.3	91.1	94.3			3.29
	Thiamethoxam	103	124	121			2.62
	Tolfenpyrad	40.4	50.3	38.5			26.5
	Triclopyr	55.8	48.9	37.5			26.3
SM 2320 B-2011	Total Alkalinity	96.5				6.63	
SM 4500 F-C-2011	Fluoride	97.9	97.0	97.8			0.470
SM 5310 B-2011	Organic Carbon	97.2	101				0.370

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2304522

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2304549
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2304549
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2304523
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2304523
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2304523
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2304523
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2304524
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2304548
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2304547
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2304548
EPA 8270E	PCBs in water matrices by GC/MS/MS	2304547
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2304547
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2304544
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2304545, 2304546
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2304522
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2304522
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2304522
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2304523

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	02/09/2022			02/09/2022 15:00	Khloe J Berg	2304522
EPA 200.7 Rev. 4.4	02/09/2022	02/21/2022 09:55	Megan Whitefoot	02/21/2022 21:26	Josef B Mick	2304549
	02/09/2022	02/21/2022 09:55	Megan Whitefoot	02/21/2022 21:34	Josef B Mick	2304549
EPA 200.8 Rev. 5.4	02/09/2022	02/21/2022 09:55	Megan Whitefoot	02/22/2022 05:09	Alexander Thompson	2304549
EPA 350.1 Rev. 2.0	02/09/2022			02/16/2022 13:40	Ping Hua	2304523
EPA 351.2 Rev. 2.0	02/09/2022	02/11/2022 10:40	Samantha L Bates	02/14/2022 16:54	Alexandra J Mattheus	2304523
EPA 353.2 Rev. 2.0	02/09/2022			02/17/2022 17:19	Nathaniel J Jones	2304523
EPA 365.1 Rev. 2.0	02/09/2022	02/10/2022 14:00	Simonne.V. Calhoun	02/11/2022 15:20	Shengyu Ding	2304523
EPA 365.1 Rev. 2.0 dissolved	02/09/2022			02/09/2022 14:32	James L Waggeberby	2304524
EPA 8270E	02/09/2022	02/14/2022 08:00	Fe-Val Siddell	02/16/2022 16:16	Michael Poppell	2304548
	02/09/2022	02/14/2022 08:00	Fe-Val Siddell	02/18/2022 23:03	Lipi Saha	2304548
	02/09/2022	02/14/2022 08:00	Rasheda Ghaffari	02/16/2022 18:31	Vandana T. Nagar	2304547
	02/09/2022	02/14/2022 08:00	Rasheda Ghaffari	02/16/2022 22:27	Julie Wi	2304547
	02/09/2022	02/23/2022 08:30	Rasheda Ghaffari	02/24/2022 20:00	Vandana T. Nagar	2304547
EPA 8276	02/09/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 04:04	Arthur Maknenko	2304547
EPA 8321B	02/09/2022	02/09/2022 13:30	June Rhew	02/11/2022 13:44	Juyoung Kim	2304545
	02/09/2022	02/09/2022 13:30	June Rhew	02/11/2022 14:19	Juyoung Kim	2304546
	02/09/2022	02/11/2022 09:00	June Rhew	02/11/2022 21:15	Juyoung Kim	2304544
	02/09/2022	02/11/2022 09:00	Umesh Chiluwal	02/11/2022 12:39	Umesh Chiluwal	2304545
	02/09/2022	02/11/2022 09:00	Umesh Chiluwal	02/11/2022 15:49	Umesh Chiluwal	2304545
	02/09/2022	02/11/2022 09:00	Umesh Chiluwal	02/11/2022 16:04	Umesh Chiluwal	2304546
	02/09/2022	02/11/2022 09:00	Umesh Chiluwal	02/11/2022 18:55	Umesh Chiluwal	2304546
SM 2320 B-2011	02/09/2022			02/18/2022 01:01	Dale L. Simmons	2304522
SM 2540 D-2011	02/09/2022			02/11/2022 14:02	Yijie Li	2304522
SM 4500 F-C-2011	02/09/2022			02/16/2022 02:56	Dale L. Simmons	2304522
SM 5310 B-2011	02/09/2022			02/27/2022 02:36	Touraj Touran	2304523