

Chemical Analysis Report

SE-DIST-2022-01-27-01

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

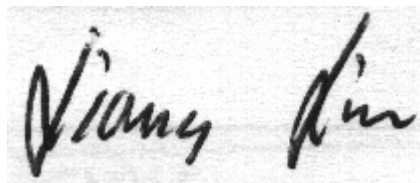
Event Description: **Stuart/Stuart Deploy**
Request ID: **RQ-2022-01-24-46**
Customer: **SE-DIST**
Project ID: **SMP**

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 24-FEB-2022 11:11

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

NON-CONFORMANCE REPORT INCLUDED

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: Bessey Creek @ Murphy

Collection Date/Time: 01/26/2022 10:40

Field ID: G2SE0017

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302037	EPA 180.1 Rev. 2.0	Turbidity	3.5		NTU	P409103	
	SM 2320 B-2011	Total Alkalinity	185		mg CaCO3/L	P409175	
	SM 2540 D-2011	TSS	3	I	mg/L	P409664	
	SM 4500 F-C-2011	Fluoride	0.16		mg F/L	P409177	
2302038	EPA 350.1 Rev. 2.0	Ammonia-N	0.075		mg N/L	P409350	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.64		mg N/L	P409190	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P409317	
	EPA 365.1 Rev. 2.0	Total-P	0.091		mg P/L	P409102	
	SM 5310 B-2011	Organic Carbon	9.9		mg C/L	P409830	
2302039	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.045		mg P/L	P409089	
2302077	EPA 200.7 Rev. 4.4	Calcium	97.4		mg/L	P409205	
		Iron	670		ug/L	P409205	
		Magnesium	63.4		mg/L	P409205	
		Strontium	874		ug/L	P409205	
		Tin	3.0	U	ug/L	P409205	
		Vanadium	2.0	U	ug/L	P409205	
		Zinc	5.0	U	ug/L	P409205	
	EPA 200.8 Rev. 5.4	Aluminum	21		ug/L	P409205	
		Antimony	0.067	I	ug/L	P409205	
		Arsenic	1.28		ug/L	P409205	
		Beryllium	0.010	U	ug/L	P409205	
		Cadmium	0.020	U	ug/L	P409205	
		Chromium	0.57	I	ug/L	P409205	
		Cobalt	0.071	I	ug/L	P409205	
		Copper	0.61	I	ug/L	P409205	
		Lead	0.20	U	ug/L	P409205	
		Manganese	11.3		ug/L	P409205	
		Molybdenum	1.26		ug/L	P409205	
		Nickel	1.1	I	ug/L	P409205	
		Selenium	0.20	U	ug/L	P409205	
		Silver	0.010	U	ug/L	P409205	

Ref. Method and Comment:

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

Sample Location: Danforth Creek @ Martin Hwy

Collection Date/Time: 01/26/2022 11:20

Field ID: G2SE0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302040	DEP SOP: NU-094-1	Color (true)**	26		PCU	P409065	
	EPA 180.1 Rev. 2.0	Turbidity	2.7	A	NTU	P409103	
	EPA 300.0 Rev. 2.1	Chloride	72		mg Cl/L	P409418	
		Sulfate	84		mg SO4/L	P409421	
	SM 2320 B-2011	Total Alkalinity	123		mg CaCO3/L	P409175	
	SM 2540 C-2011	TDS	361		mg/L	P409661	
	SM 2540 D-2011	TSS	2	I	mg/L	P409663	
	SM 4500 F-C-2011	Fluoride	0.052	I	mg F/L	P409177	
2302041	EPA 350.1 Rev. 2.0	Ammonia-N	0.052		mg N/L	P409472	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.66		mg N/L	P409233	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P409210	
	EPA 365.1 Rev. 2.0	Total-P	0.040		mg P/L	P409101	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P409830	
2302042	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.016		mg P/L	P409087	
2302068	EPA 8321B	2,4-D	0.014		ug/L	P409048	
		Acesulfame K	0.21	I	ug/L	P409043	
		2,4,5-T	0.0040	U	ug/L	P409048	
		AMPA	0.10	U	ug/L	P409043	
		Acetaminophen	0.0080	U	ug/L	P409048	
		Acetamiprid	0.0020	U	ug/L	P409048	
		Endothall	0.25	U	ug/L	P409043	MS
		Glufosinate	0.10	U	ug/L	P409043	
		Glyphosate	0.16	I	ug/L	P409043	
		Afidopyropen	0.0020	U	ug/L	P409048	
		Bentazon	0.059		ug/L	P409048	
		Sucralose	0.32		ug/L	P409043	
		Benzovindiflupyr	0.0020	U	ug/L	P409048	
		Carbamazepine	8.0E-04	I	ug/L	P409048	
		Clothianidin	0.0020	U	ug/L	P409048	
		Dinotefuran	0.0020	U	ug/L	P409048	
		Diuron	0.0020	U	ug/L	P409048	
		Fenuron	0.016	U	ug/L	P409048	
		Fluridone	0.0051		ug/L	P409048	
		Imazapyr	0.97		ug/L	P409048	
		Hydrocodone	0.0020	U	ug/L	P409048	
		Ibuprofen	0.020	U	ug/L	P409048	
		Imidacloprid	0.0073	I	ug/L	P409048	
		Linuron	0.0040	U	ug/L	P409048	
		Mandestrobin	0.0020	U	ug/L	P409048	
		MCPD	0.0020	U	ug/L	P409048	
		Naproxen	0.0080	U	ug/L	P409048	
		Primidone	0.0040	U	ug/L	P409048	
		Pyraclostrobin	0.0020	U	ug/L	P409048	

Field ID: G2SE0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302068	EPA 8321B	Silvex	0.0040	U	ug/L	P409048	
		Thiamethoxam	0.0057	I	ug/L	P409048	
		Tolfenpyrad	0.0020	U	ug/L	P409048	
		Triclopyr	0.0040	U	ug/L	P409048	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Manatee Pocket North

Collection Date/Time: 01/26/2022 12:00

Field ID: G2SE0063

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302046	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P409103	
	SM 2320 B-2011	Total Alkalinity	134		mg CaCO3/L	P409176	
	SM 2540 D-2011	TSS	8	I	mg/L	P409667	
	SM 4500 F-C-2011	Fluoride	0.85		mg F/L	P409178	
2302048	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P409350	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.74		mg N/L	P409190	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.045		mg N/L	P409317	
	EPA 365.1 Rev. 2.0	Total-P	0.074		mg P/L	P409102	
	SM 5310 B-2011	Organic Carbon	6.3	J	mg C/L	P409916	CCV
2302050	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.024		mg P/L	P409089	

Ref. Method and Comment:

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

SM 5310 B-2011: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Willoughby Creek

Collection Date/Time: 01/26/2022 13:00

Field ID: G2SE0034

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302043	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P409103	
	SM 2320 B-2011	Total Alkalinity	138		mg CaCO3/L	P409176	
	SM 2540 D-2011	TSS	5	I	mg/L	P409667	
	SM 4500 F-C-2011	Fluoride	0.87		mg F/L	P409178	
2302044	EPA 350.1 Rev. 2.0	Ammonia-N	0.072		mg N/L	P409350	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.56		mg N/L	P409190	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.040		mg N/L	P409317	
	EPA 365.1 Rev. 2.0	Total-P	0.063		mg P/L	P409102	
	SM 5310 B-2011	Organic Carbon	5.8	J	mg C/L	P409916	CCV
2302045	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.040		mg P/L	P409089	
2302069	EPA 8321B	Aldicarb	0.020	U	ug/L	P409047	
		Aldicarb Sulfone	0.0020	U	ug/L	P409047	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P409047	
		Carbaryl	0.0020	U	ug/L	P409047	
		Carbofuran	0.0020	U	ug/L	P409047	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P409047	
		Methiocarb	0.0020	U	ug/L	P409047	
		Methomyl	0.0067	I	ug/L	P409047	
		Oxamyl	0.0020	U	ug/L	P409047	
		Propoxur	0.0020	U	ug/L	P409047	
2302070		2,4-D	0.013		ug/L	P409048	
		Acesulfame K	0.24	I	ug/L	P409043	
		2,4,5-T	0.0040	U	ug/L	P409048	
		AMPA	10	U	ug/L	P409043	
		Acetaminophen	0.0080	U	ug/L	P409048	
		Acetamiprid	0.0020	U	ug/L	P409048	
		Endothall	0.25	U	ug/L	P409043	MS
		Glufosinate	10	U	ug/L	P409043	
		Glyphosate	10	U	ug/L	P409043	
		Afidopyropen	0.0020	U	ug/L	P409048	
		Bentazon	0.016		ug/L	P409048	
		Sucralose	1.2		ug/L	P409043	
		Benzovindiflupyr	0.0020	U	ug/L	P409048	
		Carbamazepine	0.0018	I	ug/L	P409048	
		Clothianidin	0.0020	U	ug/L	P409048	
		Dinotefuran	0.0020	U	ug/L	P409048	
		Diuron	0.0034	I	ug/L	P409048	
		Fenuron	0.016	U	ug/L	P409048	
		Fluridone	0.0027	I	ug/L	P409048	
		Imazapyr	0.10		ug/L	P409048	
		Hydrocodone	0.0020	U	ug/L	P409048	
		Ibuprofen	0.020	U	ug/L	P409048	
		Imidacloprid	0.0041	I	ug/L	P409048	

Field ID: G2SE0034

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302070	EPA 8321B	Linuron	0.0040	U	ug/L	P409048	
		Mandestrobin	0.0020	U	ug/L	P409048	
		MCP	0.0020	U	ug/L	P409048	
		Naproxen	0.0080	U	ug/L	P409048	
		Primidone	0.0074	I	ug/L	P409048	
		Pyraclostrobin	0.0020	U	ug/L	P409048	
		Silvex	0.0040	U	ug/L	P409048	
		Thiamethoxam	0.0020	U	ug/L	P409048	
		Tolfenpyrad	0.0020	U	ug/L	P409048	
		Triclopyr	0.0040	U	ug/L	P409048	
2302073	EPA 8270E	Aldrin	0.68	U	ng/L	P408985	RPD
		Alpha-BHC	0.10	U	ng/L	P408985	MS, RPD
		Alpha-Chlordane	0.21	U	ng/L	P408985	MS, RPD
		PCB-1016	2.1	U	ng/L	P408985	
		Beta-BHC	0.10	U	ng/L	P408985	
		PCB-1221	2.1	U	ng/L	P408985	
		Beta-Cyfluthrin**	1.3	U	ng/L	P408985	RPD
		PCB-1232	2.1	U	ng/L	P408985	
		Bifenthrin**	0.52	U	ng/L	P408985	RPD
		PCB-1242	2.1	U	ng/L	P408985	
		PCB-1248	2.1	U	ng/L	P408985	
		Chlorothalonil	1.3	U	ng/L	P408985	RPD
		PCB-1254	2.1	U	ng/L	P408985	
		Cis-Nonachlor**	0.21	U	ng/L	P408985	
		PCB-1260	2.1	U	ng/L	P408985	
		Cypermethrin	1.6	U	ng/L	P408985	RPD
		Dacthal**	0.16	U	ng/L	P408985	MS, RPD
		DDD-p,p'	0.26	U	ng/L	P408985	RPD
		DDE-p,p'	0.21	U	ng/L	P408985	RPD
		DDT-p,p'	0.26	U	ng/L	P408985	MS, RPD
		Delta-BHC	0.42	U	ng/L	P408985	RPD
		Deltamethrin**	1.3	U	ng/L	P408985	
		Dichlobenil**	0.26	U	ng/L	P408985	RPD
		Dicofol	1.3	U	ng/L	P408985	RPD
		Diethrin	0.42	U	ng/L	P408985	RPD
		Endosulfan I	0.42	U	ng/L	P408985	MS, RPD
		Endosulfan II	0.42	U	ng/L	P408985	RPD
		Endosulfan Sulfate	0.31	U	ng/L	P408985	
		Endrin	0.42	U	ng/L	P408985	
		Endrin Aldehyde	0.78	U	ng/L	P408985	
		Endrin Ketone	0.42	U	ng/L	P408985	RPD
		Esfenvalerate**	0.78	U	ng/L	P408985	
		Ethalfuralin**	0.16	U	ng/L	P408985	MS, RPD
		Fenprothrin**	0.26	U	ng/L	P408985	RPD
		Gamma-BHC	0.13	U	ng/L	P408985	RPD

Field ID: G2SE0034

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2302073	EPA 8270E	Gamma-Chlordane	0.21	U	ng/L	P408985	MS, RPD	
		Heptachlor	0.21	U	ng/L	P408985	MS, RPD	
		Heptachlor Epoxide	0.26	U	ng/L	P408985	RPD	
		Hexachlorobenzene	1.0	U	ng/L	P408985	MS, RPD	
		Kepone**	5.2	U	ng/L	P408985		
		Lambda-Cyhalothrin**	0.78	U	ng/L	P408985		
		Methoprene**	0.78	U	ng/L	P408985	RPD	
		Methoxychlor	0.31	U	ng/L	P408985		
		MGK-264**	0.21	U	ng/L	P408985		
		Mirex	0.73	U	ng/L	P408985	RPD	
		Oxychlordane**	0.31	U	ng/L	P408985	RPD	
		Permethrin	1.7	U	ng/L	P408985	RPD	
		Phenothrin**	0.94	U	ng/L	P408985	RPD	
		Piperonyl Butoxide**	0.16	U	ng/L	P408985		
		Prallethrin**	2.1	U	ng/L	P408985	RPD	
		Tau-Fluvalinate**	0.26	U	ng/L	P408985	RPD	
		Tetramethrin**	0.78	U	ng/L	P408985	RPD	
		Trans-Nonachlor**	0.21	U	ng/L	P408985	MS, RPD	
		Triclosan Methyl**	0.16	U	ng/L	P408985	MS, RPD	
		Trifluralin	0.21	U	ng/L	P408985	MS, RPD	
		EPA 8276	Chlordane	2.6	U	ng/L	P408985	
			Toxaphene	16	U	ng/L	P408985	
2302074	EPA 8270E	Oxybenzone**	10	U	ng/L	P409108		
		Acetochlor	0.24	U	ng/L	P409108		
		Octinoxate**	20	UQ	ng/L	P409681		
		Alachlor	0.24	U	ng/L	P409108		
		Avobenzone**	100	UQ	ng/L	P409681		
		Ametryn	2.5		ng/L	P409108		
		Atrazine	46		ng/L	P409108		
		Atrazine Desethyl	5.0	I	ng/L	P409108		
		Azinphos Methyl	1.9	U	ng/L	P409108		
		Azoxystrobin**	0.47	U	ng/L	P409108		
		Bromacil	1.1	I	ng/L	P409108		
		Butylate	0.38	U	ng/L	P409108		
		Caffeine**	8.1	I	ng/L	P409108		
		Carbophenothion	0.19	U	ng/L	P409108		
		Carfentrazone Ethyl**	0.095	U	ng/L	P409108		
		Chlorfenapyr**	0.17	U	ng/L	P409108		
		Chlorpyrifos Ethyl	0.24	U	ng/L	P409108		
		Chlorpyrifos Methyl	0.047	U	ng/L	P409108		
		Coumaphos**	0.47	U	ng/L	P409108		
		Cyanazine	3.1	U	ng/L	P409108		
		Cyprodinil**	0.095	U	ng/L	P409108		
		Demeton	1.4	U	ng/L	P409108		
		Diazinon	0.12	U	ng/L	P409108		

Field ID: G2SE0034

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302074	EPA 8270E	Difenoconazole**	0.57	U	ng/L	P409108	
		Dimethenamid**	0.095	U	ng/L	P409108	
		Dimethomorph**	0.19	I	ng/L	P409108	
		Disulfoton	0.47	U	ng/L	P409108	
		Dithiopyr**	0.35	I	ng/L	P409108	
		EPTC	1.2	U	ng/L	P409108	
		Ethion	0.14	U	ng/L	P409108	
		Ethoprop	0.095	U	ng/L	P409108	
		Etridiazole**	0.14	U	ng/L	P409108	
		Fenamiphos	0.47	U	ng/L	P409108	
		Fenbuconazole**	0.12	U	ng/L	P409108	
		Fipronil	0.24	U	ng/L	P409108	
		Fipronil Desulfinyl**	0.14	I	ng/L	P409108	
		Fipronil Sulfide	0.18	I	ng/L	P409108	
		Fipronil Sulfone	0.28	I	ng/L	P409108	
		Fluazifop-P-butyl**	0.095	U	ng/L	P409108	
		Fludioxonil**	0.12	U	ng/L	P409108	
		Flumioxazin**	3.1	I	ng/L	P409108	
		Flutolanil**	0.32	I	ng/L	P409108	
		Fluxapyroxad**	0.52		ng/L	P409108	
		Fonofos	0.19	U	ng/L	P409108	
		Hexazinone	12		ng/L	P409108	
		Imazalil**	0.71	U	ng/L	P409108	
		Iprodione**	0.57	U	ng/L	P409108	
		Loratadine**	0.095	U	ng/L	P409108	
		Malathion	0.33	U	ng/L	P409108	
		Metalaxyl	1.2	I	ng/L	P409108	
		Metolachlor	3.7		ng/L	P409108	
		Metribuzin	2.4	U	ng/L	P409108	
		Mevinphos	0.99	U	ng/L	P409108	
		Molinate	0.28	U	ng/L	P409108	
		Myclobutanil**	0.24	U	ng/L	P409108	
		Naled**	1.4	UJ	ng/L	P409108	LCS, MS
		Napropamide**	0.38	U	ng/L	P409108	
		Norflurazon	10		ng/L	P409108	
		Oxadiazon	4.2		ng/L	P409108	
		Oxyfluorfen**	0.14	U	ng/L	P409108	RPD
		Parathion Ethyl	0.24	U	ng/L	P409108	
		Parathion Methyl	0.52	U	ng/L	P409108	
		Pendimethalin	0.95	U	ng/L	P409108	
		Phenytol**	3.4	I	ng/L	P409108	
		Phorate	0.50	U	ng/L	P409108	
		Prodiamine**	0.17	U	ng/L	P409108	
		Prometon	0.85	U	ng/L	P409108	
		Prometryn	0.19	U	ng/L	P409108	

Field ID: G2SE0034

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302074	EPA 8270E	Pronamide**	0.14	U	ng/L	P409108	
		Propanil**	0.12	U	ng/L	P409108	
		Propargite**	1.4	U	ng/L	P409108	
		Propiconazole**	1.6	I	ng/L	P409108	
		Pyraflufen Ethyl**	0.24	U	ng/L	P409108	
		Pyridaben**	0.43	U	ng/L	P409108	
		Pyriproxyfen**	0.12	U	ng/L	P409108	
		Simazine	0.47	U	ng/L	P409108	
		Stirophos**	0.12	U	ng/L	P409108	
		Sulfentrazone**	5.9		ng/L	P409108	
		Tebuconazole**	1.3	I	ng/L	P409108	
		Terbufos	0.095	U	ng/L	P409108	
		Terbutylazine	0.40	U	ng/L	P409108	
		Thiobencarb**	0.57	U	ng/L	P409108	
		Triadimefon**	0.24	U	ng/L	P409108	
2302078	EPA 200.7 Rev. 4.4	Calcium	335		mg/L	P409246	
		Iron	120	U	ug/L	P409246	
		Magnesium	996		mg/L	P409246	
		Strontium	6.15E+03		ug/L	P409246	
		Tin	150	U	ug/L	P409246	
		Titanium	4.7	I	ug/L	P409246	
		Vanadium	8.0	U	ug/L	P409246	
		Zinc	20	U	ug/L	P409246	
	EPA 200.8 Rev. 5.4	Aluminum	77	I	ug/L	P409246	
		Antimony	0.22	I	ug/L	P409246	
		Arsenic	1.84		ug/L	P409246	
		Beryllium	0.040	U	ug/L	P409246	
		Cadmium	0.080	U	ug/L	P409246	
		Chromium	1.6	U	ug/L	P409246	
		Cobalt	0.080	U	ug/L	P409246	
		Copper	1.8	I	ug/L	P409606	
		Lead	0.80	U	ug/L	P409246	
		Manganese	5.0		ug/L	P409246	
		Molybdenum	8.9		ug/L	P409246	
		Nickel	2.0	U	ug/L	P409246	
		Selenium	0.80	U	ug/L	P409246	
		Silver	0.040	U	ug/L	P409246	
		Thallium	0.40	U	ug/L	P409246	

Ref. Method and Comment:

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

SM 5310 B-2011: Refer to the Lab Analysis Report for an explanation of QC Codes.

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

EPA 8270E: Sample expired for preparation for some analytes due to need for re-extraction.

EPA 8270E: MS accuracy for Flutolanil 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.

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.

Sample Location: FB

Collection Date/Time: 01/26/2022 13:10

Field ID: FB_01262022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302052	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P409103	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P409175	
	SM 2540 D-2011	TSS	2	U	mg/L	P409664	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P409177	
2302053	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P409349	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P409237	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P409451	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P409101	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P409830	
2302054	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P409087	
2302071	EPA 8321B	Aldicarb	0.020	U	ug/L	P409047	
		Aldicarb Sulfone	0.0020	U	ug/L	P409047	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P409047	
		Carbaryl	0.0020	U	ug/L	P409047	
		Carbofuran	0.0020	U	ug/L	P409047	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P409047	
		Methiocarb	0.0020	U	ug/L	P409047	
		Methomyl	0.0020	U	ug/L	P409047	
		Oxamyl	0.0020	U	ug/L	P409047	
		Propoxur	0.0020	U	ug/L	P409047	
2302072		2,4-D	0.0020	U	ug/L	P409048	
		Acesulfame K	0.10	U	ug/L	P409043	
		2,4,5-T	0.0040	U	ug/L	P409048	
		AMPA	0.10	U	ug/L	P409043	
		Acetaminophen	0.0080	U	ug/L	P409048	
		Acetamiprid	0.0020	U	ug/L	P409048	
		Endothall	0.25	U	ug/L	P409043	MS
		Glufosinate	0.10	U	ug/L	P409043	
		Glyphosate	0.10	U	ug/L	P409043	
		Afidopyropen	0.0020	U	ug/L	P409048	
		Bentazon	8.0E-04	U	ug/L	P409048	
		Sucralose	0.010	U	ug/L	P409043	
		Benzovindiflupyr	0.0020	U	ug/L	P409048	
		Carbamazepine	8.0E-04	U	ug/L	P409048	
		Clothianidin	0.0020	U	ug/L	P409048	
		Dinotefuran	0.0020	U	ug/L	P409048	
		Diuron	0.0020	U	ug/L	P409048	
		Fenuron	0.016	U	ug/L	P409048	
		Fluridone	8.0E-04	U	ug/L	P409048	
		Imazapyr	0.0040	U	ug/L	P409048	
		Hydrocodone	0.0020	U	ug/L	P409048	
		Ibuprofen	0.020	U	ug/L	P409048	
		Imidacloprid	0.0020	U	ug/L	P409048	

Field ID: FB_01262022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302072	EPA 8321B	Linuron	0.0040	U	ug/L	P409048	
		Mandestrobin	0.0020	U	ug/L	P409048	
		MCPP	0.0020	U	ug/L	P409048	
		Naproxen	0.0080	U	ug/L	P409048	
		Primidone	0.0040	U	ug/L	P409048	
		Pyraclostrobin	0.0020	U	ug/L	P409048	
		Silvex	0.0040	U	ug/L	P409048	
		Thiamethoxam	0.0020	U	ug/L	P409048	
		Tolfenpyrad	0.0020	U	ug/L	P409048	
		Triclopyr	0.0040	U	ug/L	P409048	
2302075	EPA 8270E	Aldrin	0.66	U	ng/L	P408985	RPD
		Alpha-BHC	0.10	U	ng/L	P408985	MS, RPD
		Alpha-Chlordane	0.20	U	ng/L	P408985	MS, RPD
		PCB-1016	2.0	U	ng/L	P408985	
		Beta-BHC	0.10	U	ng/L	P408985	
		PCB-1221	2.0	U	ng/L	P408985	
		Beta-Cyfluthrin**	1.3	U	ng/L	P408985	RPD
		PCB-1232	2.0	U	ng/L	P408985	
		Bifenthrin**	0.51	U	ng/L	P408985	RPD
		PCB-1242	2.0	U	ng/L	P408985	
		PCB-1248	2.0	U	ng/L	P408985	
		Chlorothalonil	1.3	U	ng/L	P408985	RPD
		PCB-1254	2.0	U	ng/L	P408985	
		Cis-Nonachlor**	0.20	U	ng/L	P408985	
		PCB-1260	2.0	U	ng/L	P408985	
		Cypermethrin	1.5	U	ng/L	P408985	RPD
		Dacthal**	0.15	U	ng/L	P408985	MS, RPD
		DDD-p,p'	0.25	U	ng/L	P408985	RPD
		DDE-p,p'	0.20	U	ng/L	P408985	RPD
		DDT-p,p'	0.25	U	ng/L	P408985	MS, RPD
		Delta-BHC	0.41	U	ng/L	P408985	RPD
		Deltamethrin**	1.3	U	ng/L	P408985	
		Dichlobenil**	0.25	U	ng/L	P408985	RPD
		Dicofol	1.3	U	ng/L	P408985	RPD
		Diieldrin	0.41	U	ng/L	P408985	RPD
		Endosulfan I	0.41	U	ng/L	P408985	MS, RPD
		Endosulfan II	0.41	U	ng/L	P408985	RPD
		Endosulfan Sulfate	0.31	U	ng/L	P408985	
		Endrin	0.41	U	ng/L	P408985	
		Endrin Aldehyde	0.76	U	ng/L	P408985	
		Endrin Ketone	0.41	U	ng/L	P408985	RPD
		Esfenvalerate**	0.76	U	ng/L	P408985	
		Ethalfuralin**	0.15	U	ng/L	P408985	MS, RPD
		Fenpropathrin**	0.25	U	ng/L	P408985	RPD
		Gamma-BHC	0.13	U	ng/L	P408985	RPD

Field ID: FB_01262022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2302075	EPA 8270E	Gamma-Chlordane	0.20	U	ng/L	P408985	MS, RPD	
		Heptachlor	0.20	U	ng/L	P408985	MS, RPD	
		Heptachlor Epoxide	0.25	U	ng/L	P408985	RPD	
		Hexachlorobenzene	1.0	U	ng/L	P408985	MS, RPD	
		Kepone**	5.1	U	ng/L	P408985		
		Lambda-Cyhalothrin**	0.76	U	ng/L	P408985		
		Methoprene**	0.76	U	ng/L	P408985	RPD	
		Methoxychlor	0.31	U	ng/L	P408985		
		MGK-264**	0.20	U	ng/L	P408985		
		Mirex	0.71	U	ng/L	P408985	RPD	
		Oxychlordane**	0.31	U	ng/L	P408985	RPD	
		Permethrin	1.6	U	ng/L	P408985	RPD	
		Phenothrin**	0.92	U	ng/L	P408985	RPD	
		Piperonyl Butoxide**	0.15	U	ng/L	P408985		
		Prallethrin**	2.0	U	ng/L	P408985	RPD	
		Tau-Fluvalinate**	0.25	U	ng/L	P408985	RPD	
		Tetramethrin**	0.76	U	ng/L	P408985	RPD	
		Trans-Nonachlor**	0.20	U	ng/L	P408985	MS, RPD	
		Triclosan Methyl**	0.15	U	ng/L	P408985	MS, RPD	
		Trifluralin	0.20	U	ng/L	P408985	MS, RPD	
		EPA 8276	Chlordane	2.5	U	ng/L	P408985	
			Toxaphene	15	U	ng/L	P408985	
		2302076	EPA 8270E	Oxybenzone**	9.5	U	ng/L	P409108
Acetochlor	0.24			U	ng/L	P409108		
Octinoxate**	19			UQ	ng/L	P409681		
Alachlor	0.24			U	ng/L	P409108		
Avobenzone**	95			UQ	ng/L	P409681		
Ametryn	0.58			U	ng/L	P409108		
Atrazine	0.24			U	ng/L	P409108		
Atrazine Desethyl	1.4			U	ng/L	P409108		
Azinphos Methyl	1.9			U	ng/L	P409108		
Azoxystrobin**	0.48			U	ng/L	P409108		
Bromacil	0.48			U	ng/L	P409108		
Butylate	0.38			U	ng/L	P409108		
Caffeine**	7.2			U	ng/L	P409108		
Carbophenothion	0.19			U	ng/L	P409108		
Carfentrazone Ethyl**	0.096			U	ng/L	P409108		
Chlorfenapyr**	0.17			U	ng/L	P409108		
Chlorpyrifos Ethyl	0.24			U	ng/L	P409108		
Chlorpyrifos Methyl	0.048			U	ng/L	P409108		
Coumaphos**	0.48			U	ng/L	P409108		
Cyanazine	3.1			U	ng/L	P409108		
Cyprodinil**	0.096			U	ng/L	P409108		
Demeton	1.4			U	ng/L	P409108		
Diazinon	0.12			U	ng/L	P409108		

Field ID: FB_01262022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302076	EPA 8270E	Difenoconazole**	0.58	U	ng/L	P409108	
		Dimethenamid**	0.096	U	ng/L	P409108	
		Dimethomorph**	0.17	U	ng/L	P409108	
		Disulfoton	0.48	U	ng/L	P409108	
		Dithiopyr**	0.17	U	ng/L	P409108	
		EPTC	1.2	U	ng/L	P409108	
		Ethion	0.14	U	ng/L	P409108	
		Ethoprop	0.096	U	ng/L	P409108	
		Etridiazole**	0.14	U	ng/L	P409108	
		Fenamiphos	0.48	U	ng/L	P409108	
		Fenbuconazole**	0.12	U	ng/L	P409108	
		Fipronil	0.24	U	ng/L	P409108	
		Fipronil Desulfinyl**	0.12	U	ng/L	P409108	
		Fipronil Sulfide	0.14	U	ng/L	P409108	
		Fipronil Sulfone	0.14	U	ng/L	P409108	
		Fluazifop-P-butyl**	0.096	U	ng/L	P409108	
		Fludioxonil**	0.12	U	ng/L	P409108	
		Flumioxazin**	1.7	U	ng/L	P409108	
		Flutolanil**	0.096	U	ng/L	P409108	
		Fluxapyroxad**	0.096	U	ng/L	P409108	
		Fonofos	0.19	U	ng/L	P409108	
		Hexazinone	0.48	U	ng/L	P409108	
		Imazalil**	0.72	U	ng/L	P409108	
		Iprodione**	0.58	U	ng/L	P409108	
		Loratadine**	0.096	U	ng/L	P409108	
		Malathion	0.34	U	ng/L	P409108	
		Metalaxyl	0.72	U	ng/L	P409108	
		Metolachlor	0.34	U	ng/L	P409108	
		Metribuzin	2.4	U	ng/L	P409108	
		Mevinphos	1.0	U	ng/L	P409108	
		Molinate	0.29	U	ng/L	P409108	
		Myclobutanil**	0.24	U	ng/L	P409108	
		Naled**	1.4	UJ	ng/L	P409108	LCS, MS
		Napropamide**	0.38	U	ng/L	P409108	
		Norflurazon	0.48	U	ng/L	P409108	
		Oxadiazon	0.29	U	ng/L	P409108	
		Oxyfluorfen**	0.14	U	ng/L	P409108	
		Parathion Ethyl	0.24	U	ng/L	P409108	
		Parathion Methyl	0.53	U	ng/L	P409108	
		Pendimethalin	0.96	U	ng/L	P409108	
		Phenytol**	3.4	U	ng/L	P409108	
		Phorate	0.51	U	ng/L	P409108	
		Prodiamine**	0.17	U	ng/L	P409108	
		Prometon	0.87	U	ng/L	P409108	RPD
		Prometryn	0.19	U	ng/L	P409108	

Field ID: FB_01262022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302076	EPA 8270E	Pronamide**	0.14	U	ng/L	P409108	
		Propanil**	0.12	U	ng/L	P409108	
		Propargite**	1.4	U	ng/L	P409108	
		Propiconazole**	0.48	U	ng/L	P409108	
		Pyraflufen Ethyl**	0.24	U	ng/L	P409108	
		Pyridaben**	0.43	U	ng/L	P409108	
		Pyriproxyfen**	0.12	U	ng/L	P409108	
		Simazine	0.48	U	ng/L	P409108	
		Stirophos**	0.12	U	ng/L	P409108	
		Sulfentrazone**	0.48	U	ng/L	P409108	
		Tebuconazole**	0.48	U	ng/L	P409108	
		Terbufos	0.096	U	ng/L	P409108	
		Terbutylazine	0.41	U	ng/L	P409108	
		Thiobencarb**	0.58	U	ng/L	P409108	
		Triadimefon**	0.24	U	ng/L	P409108	
2302081	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P409205	
		Iron	30	U	ug/L	P409205	
		Magnesium	0.040	U	mg/L	P409205	
		Strontium	2.0	U	ug/L	P409205	
		Tin	3.0	U	ug/L	P409205	
		Vanadium	2.0	U	ug/L	P409205	
		Zinc	5.0	U	ug/L	P409205	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P409205	
		Antimony	0.050	U	ug/L	P409205	
		Arsenic	0.050	U	ug/L	P409205	
		Beryllium	0.010	U	ug/L	P409205	
		Cadmium	0.020	U	ug/L	P409205	
		Chromium	0.40	U	ug/L	P409205	
		Cobalt	0.020	U	ug/L	P409205	
		Copper	0.40	U	ug/L	P409205	
		Lead	0.20	U	ug/L	P409205	
		Manganese	0.10	U	ug/L	P409205	
		Molybdenum	0.15	U	ug/L	P409205	
		Nickel	0.50	U	ug/L	P409205	
		Selenium	0.20	U	ug/L	P409205	
		Silver	0.010	U	ug/L	P409205	

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

EPA 8270E: Sample expired for preparation for some analytes due to need for re-extraction.

EPA 8270E: MS accuracy for Flutolanil 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: Krueger Creek near Commissioner's Park

Collection Date/Time: 01/26/2022 14:00

Field ID: G2SE0069

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302047	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P409103	
	SM 2320 B-2011	Total Alkalinity	138	A	mg CaCO3/L	P409176	
	SM 2540 D-2011	TSS	4	I	mg/L	P409667	
	SM 4500 F-C-2011	Fluoride	0.76		mg F/L	P409178	
2302049	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P409350	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.49		mg N/L	P409238	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.030		mg N/L	P409318	
	EPA 365.1 Rev. 2.0	Total-P	0.076		mg P/L	P409509	
	SM 5310 B-2011	Organic Carbon	6.5	J	mg C/L	P409916	CCV
2302051	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.060		mg P/L	P409089	

Ref. Method and Comment:

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

SM 5310 B-2011: Refer to the Lab Analysis Report for an explanation of QC Codes.

Non-Conformance Report

NCR ID: 9234

<u>Event(s)</u>	<u>Job(s)</u>	<u>Sample(s)</u>	<u>Test(s)</u>
SE-DIST-2022-01-27-01	TLH-2022-01-27-30	2302079	
SE-DIST-2022-01-27-01	TLH-2022-01-27-30	2302080	

NCR Type: SHIPPING/RECEIVING NCR Category: Sample Integrity

Observation: Samples received incorrect field preservation

Resolution: The appropriate supervisor (Chris Bowen) was contacted to determine which analyses can be run.
Unable to log in samples due to incorrect preservation.
The customer (Jordan Skaggs) was notified.

Authorized by/Date: Kyle Klug 1/28/2022

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P409065

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409103

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409205

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
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409246

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: P409205

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409246

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
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 200.8 Rev. 5.4
Batch ID: P409606

Component	Result	Code	Units
Copper	0.40	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409418

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409421

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409349

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409350

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409472

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409190

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409233

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409237

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409238

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409210

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409317

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409318

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409451

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409101

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409102

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409509

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409087

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409089

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

Reference Method: EPA 8270E
Batch ID: P408985

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
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P408985

Component	Result	Code	Units
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	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P408985

Component	Result	Code	Units
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
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
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P409108

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409108

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409108

Component	Result	Code	Units
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P409108

Component	Result	Code	Units
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E
Batch ID: P409681

Component	Result	Code	Units
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8276

Batch ID: P408985

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: P409043

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: P409047

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: P409048

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P409048

Component	Result	Code	Units
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
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: SM 2320 B-2011
Batch ID: P409175

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

Reference Method: SM 2320 B-2011
Batch ID: P409176

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

Reference Method: SM 2540 C-2011
Batch ID: P409661

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P409663

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P409664

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P409667

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P409177

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

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Method Blank Results

Reference Method: SM 4500 F-C-2011
Batch ID: P409178

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P409830

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

Reference Method: SM 5310 B-2011
Batch ID: P409916

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P409065

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.4		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	106		P	85 - 115
Magnesium	106		P	85 - 115
Strontium	100		P	85 - 115
Tin	107		P	85 - 115
Vanadium	105		P	85 - 115
Zinc	104		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409246

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	108		P	85 - 115
Iron	108		P	85 - 115
Magnesium	107		P	85 - 115
Strontium	104		P	85 - 115
Tin	109		P	85 - 115
Titanium	106		P	85 - 115
Vanadium	99.7		P	85 - 115
Zinc	110		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	102		P	85 - 115
Beryllium	98.5		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	103		P	85 - 115
Copper	102		P	85 - 115
Lead	100		P	85 - 115
Manganese	99.8		P	85 - 115
Molybdenum	102		P	85 - 115
Nickel	103		P	85 - 115
Selenium	101		P	85 - 115
Silver	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409246

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	101		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409246

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	103		P	85 - 115
Beryllium	96.0		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	102		P	85 - 115
Lead	99.3		P	85 - 115
Manganese	102		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	102		P	85 - 115
Selenium	101		P	85 - 115
Silver	103		P	85 - 115
Thallium	107		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409606

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409418

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409421

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409349

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409350

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409472

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409190

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409233

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409237

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409238

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409210

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409317

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409318

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409451

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409101

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	106		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409102

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409509

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409087

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409089

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

Reference Method: EPA 8270E
Batch ID: P408985

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	66.0		P	10 - 93.0
Alpha-BHC	96.5		P	75 - 106
Alpha-Chlordane	90.4		P	50 - 109
Beta-BHC	109		P	65 - 135
Beta-Cyfluthrin	112		P	23 - 167
Bifenthrin	92.6		P	11 - 123
Chlorothalonil	113		P	26 - 182
Cis-Nonachlor	90.6		P	40 - 111
Cypermethrin	86.7		P	25 - 155
Dacthal	95.8		P	73 - 112
DDD-p,p'	90.3		P	47 - 108
DDE-p,p'	89.0		P	48 - 107
DDT-p,p'	88.4		P	49 - 111
Delta-BHC	112		P	68 - 143
Deltamethrin	132		P	16 - 176
Dichlobenil	85.9		P	32 - 113
Dicofol	83.4		P	50 - 108
Dieldrin	91.3		P	56 - 110
Endosulfan I	90.6		P	60 - 105
Endosulfan II	88.1		P	50 - 120
Endosulfan Sulfate	91.6		P	55 - 121
Endrin	89.2		P	35 - 117
Endrin Aldehyde	91.3		P	36 - 116
Endrin Ketone	101		P	56 - 130
Esfenvalerate	109		P	10 - 179
Ethalfuralin	87.6		P	49 - 99.0
Fenpropathrin	101		P	35 - 119
Gamma-BHC	87.0		P	72 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P408985

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-Chlordane	85.9		P	45 - 107
Heptachlor	80.1		P	41 - 100
Heptachlor Epoxide	90.7		P	58 - 106
Hexachlorobenzene	86.5		P	39 - 100
Kepone	156		P	10 - 191
Lambda-Cyhalothrin	111		P	10 - 186
Methoprene	76.6		P	10 - 129
Methoxychlor	103		P	61 - 111
MGK-264	86.9		P	20 - 123
Mirex	74.4		P	10 - 182
Oxychlordane	87.6		P	39 - 110
PCB-1016	77.6		P	49 - 111
PCB-1260	89.2		P	42 - 116
Permethrin	112		P	26 - 152
Phenothrin	87.5		P	10 - 109
Piperonyl Butoxide	103		P	27 - 142
Prallethrin	71.1		P	14 - 109
Tau-Fluvalinate	101		P	16 - 134
Tetramethrin	80.3		P	10 - 125
Trans-Nonachlor	85.2		P	45 - 107
Triclosan Methyl	92.0		P	60 - 110
Trifluralin	85.4		P	49 - 98.0

Reference Method: EPA 8270E
Batch ID: P409108

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	114		P	70 - 121
Alachlor	103		P	68 - 119
Ametryn	112		P	64 - 139
Atrazine	106		P	76 - 120
Atrazine Desethyl	86.6		P	44 - 126
Azinphos Methyl	72.2		P	43 - 192
Azoxystrobin	109		P	36 - 224
Bromacil	109		P	52 - 121
Butylate	66.8		P	28 - 91.0
Caffeine	85.8		P	50 - 134
Carbophenothion	111		P	56 - 129
Carfentrazone Ethyl	125		P	60 - 141
Chlorfenapyr	103		P	56 - 115
Chlorpyrifos Ethyl	113		P	60 - 118
Chlorpyrifos Methyl	110		P	68 - 119
Coumaphos	171		P	18 - 250
Cyanazine	133		P	61 - 250
Cyprodinil	140		P	55 - 145
Demeton	96.8		P	30 - 159
Diazinon	106		P	70 - 123
Difenoconazole	108		P	49 - 204
Dimethenamid	91.0		P	64 - 115
Dimethomorph	111		P	12 - 219
Disulfoton	89.0		P	44 - 125
Dithiopyr	104		P	64 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P409108

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
EPTC	61.1		P	28 - 86.0
Ethion	103		P	33 - 125
Ethoprop	85.4		P	64 - 116
Etridiazole	69.1		P	34 - 91.0
Fenamiphos	126		P	12 - 127
Fenbuconazole	145		P	59 - 151
Fipronil	110		P	67 - 129
Fipronil Desulfinyl	111		P	65 - 127
Fipronil Sulfide	95.7		P	61 - 116
Fipronil Sulfone	105		P	55 - 117
Fluazifop-P-butyl	97.3		P	62 - 127
Fludioxonil	111		P	62 - 128
Flumioxazin	248		P	33 - 250
Flutolanil	104		P	56 - 127
Fluxapyroxad	127		P	45 - 128
Fonofos	85.7		P	62 - 111
Hexazinone	114		P	46 - 139
Imazalil	88.8		P	38 - 142
Iprodione	70.6		P	47 - 135
Loratadine	87.4		P	10 - 244
Malathion	128		P	61 - 139
Metalaxyl	99.7		P	10 - 119
Metolachlor	111		P	65 - 118
Metribuzin	111		P	51 - 250
Mevinphos	89.0		P	53 - 121
Molinate	76.1		P	42 - 96.0
Myclobutanil	109		P	55 - 128
Naled	119		F	10 - 98.0
Napropamide	103		P	49 - 121
Norflurazon	119		P	61 - 126
Oxadiazon	92.9		P	59 - 116
Oxybenzone	94.3		P	50 - 150
Oxyfluorfen	117		P	64 - 137
Parathion Ethyl	106		P	70 - 112
Parathion Methyl	120		P	76 - 133
Pendimethalin	79.5		P	52 - 117
Phenytol	113		P	10 - 199
Phorate	98.5		P	48 - 121
Prodiamine	98.2		P	26 - 142
Prometon	105		P	43 - 123
Prometryn	94.7		P	66 - 127
Pronamide	121		P	75 - 121
Propanil	118		P	45 - 150
Propargite	163		P	42 - 208
Propiconazole	99.8		P	60 - 125
Pyraflufen Ethyl	124		P	70 - 138
Pyridaben	159		P	35 - 245
Pyriproxyfen	61.7		P	30 - 149
Simazine	123		P	72 - 125
Stirophos	84.7		P	29 - 164
Sulfentrazone	136		P	21 - 139
Tebuconazole	78.7		P	10 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P409108

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Terbufos	102		P	60 - 123
Terbutylazine	101		P	72 - 115
Thiobencarb	112		P	31 - 139
Triadimefon	98.3		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P409681

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Avobenzone	95.9		P	50 - 200
Octinoxate	65.4		P	50 - 150

Reference Method: EPA 8276
Batch ID: P408985

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	81.7		P	61 - 118
Toxaphene	76.4		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P409043

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.1		P	40 - 150
AMPA	91.4		P	40 - 150
Endothall	136		P	40 - 150
Glufosinate	97.9		P	40 - 150
Glyphosate	91.2		P	40 - 150
Sucralose	91.7		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P409047

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.7		P	30 - 160
Aldicarb	45.1		P	30 - 160
Aldicarb Sulfone	93.7		P	30 - 160
Aldicarb Sulfoxide	90.8		P	30 - 160
Carbaryl	81.3		P	30 - 160
Carbofuran	86.3		P	30 - 160
Methiocarb	70.4		P	30 - 160
Methomyl	88.6		P	30 - 160
Oxamyl	95.6		P	30 - 160
Propoxur	78.6		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P409048

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	89.2		P	30 - 160
2,4,5-T	75.5		P	30 - 160
Acetaminophen	96.0		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P409048

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetamiprid	98.2		P	30 - 160
Afidopyropen	71.9		P	30 - 160
Bentazon	105		P	30 - 160
Benzovindiflupyr	93.1		P	30 - 160
Carbamazepine	99.5		P	30 - 160
Clothianidin	106		P	30 - 160
Dinotefuran	105		P	30 - 160
Diuron	92.4		P	30 - 160
Fenuron	111		P	30 - 160
Fluridone	97.5		P	30 - 160
Hydrocodone	115		P	30 - 160
Ibuprofen	79.1		P	30 - 160
Imazapyr	149		P	30 - 160
Imidacloprid	91.8		P	30 - 160
Linuron	84.1		P	30 - 160
Mandestrobin	99.1		P	30 - 160
MCPP	108		P	30 - 160
Naproxen	98.5		P	30 - 160
Primidone	99.4		P	30 - 160
Pyraclostrobin	92.4		P	30 - 160
Silvex	69.8		P	30 - 160
Thiamethoxam	96.0		P	30 - 160
Tolfenpyrad	52.0		P	30 - 160
Triclopyr	75.5		P	30 - 160

Reference Method: SM 2320 B-2011

Batch ID: P409175

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.1		P	94 - 106

Reference Method: SM 2320 B-2011

Batch ID: P409176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.0		P	94 - 106

Reference Method: SM 4500 F-C-2011

Batch ID: P409177

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.8		P	93 - 104

Reference Method: SM 4500 F-C-2011

Batch ID: P409178

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.3		P	93 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P409830

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.2		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P409916

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P409205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302002	Calcium	103		P	80 - 120
2302002	Iron	111	106	P/P	80 - 120
2302002	Magnesium	110	104	P/P	80 - 120
2302002	Strontium	103	99.2	P/P	80 - 120
2302002	Tin	108	106	P/P	80 - 120
2302002	Vanadium	106	106	P/P	80 - 120
2302002	Zinc	105	104	P/P	80 - 120
2302107	Calcium	102		P	80 - 120
2302107	Iron	108		P	80 - 120
2302107	Magnesium	106		P	80 - 120
2302107	Strontium	101		P	80 - 120
2302107	Tin	107		P	80 - 120
2302107	Vanadium	106		P	80 - 120
2302107	Zinc	108		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P409246

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302750	Iron	107	103	P/P	70 - 130
2302750	Tin	97.4	107	P/P	70 - 130
2302750	Titanium	104	104	P/P	70 - 130
2302750	Vanadium	107	108	P/P	70 - 130
2302750	Zinc	105	105	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302002	Aluminum	102	99.8	P/P	80 - 120
2302002	Antimony	103	102	P/P	80 - 120
2302002	Arsenic	98.3	97.9	P/P	80 - 120
2302002	Beryllium	93.9	92.5	P/P	80 - 120
2302002	Cadmium	103	101	P/P	80 - 120
2302002	Chromium	103	102	P/P	80 - 120
2302002	Cobalt	99.9	98.8	P/P	80 - 120
2302002	Copper	99.4	98.4	P/P	80 - 120
2302002	Lead	98.0	98.0	P/P	80 - 120
2302002	Manganese	96.3	93.0	P/P	80 - 120
2302002	Molybdenum	100	100	P/P	80 - 120
2302002	Nickel	106	100	P/P	80 - 120
2302002	Selenium	96.3	95.3	P/P	80 - 120
2302002	Silver	103	103	P/P	80 - 120
2302107	Aluminum	101		P	80 - 120
2302107	Antimony	104		P	80 - 120
2302107	Arsenic	100		P	80 - 120
2302107	Beryllium	95.5		P	80 - 120
2302107	Cadmium	102		P	80 - 120
2302107	Chromium	101		P	80 - 120
2302107	Cobalt	102		P	80 - 120
2302107	Copper	101		P	80 - 120
2302107	Lead	102		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302107	Manganese	99.5		P	80 - 120
2302107	Molybdenum	103		P	80 - 120
2302107	Nickel	101		P	80 - 120
2302107	Selenium	99.1		P	80 - 120
2302107	Silver	104		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409246

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302750	Aluminum	113	120	P/P	70 - 130
2302750	Antimony	96.0	100	P/P	70 - 130
2302750	Arsenic	109	114	P/P	70 - 130
2302750	Beryllium	97.6	98.0	P/P	70 - 130
2302750	Cadmium	87.1	92.6	P/P	70 - 130
2302750	Chromium	96.8	103	P/P	70 - 130
2302750	Cobalt	117	123	P/P	70 - 130
2302750	Lead	103	103	P/P	70 - 130
2302750	Manganese	94.8	101	P/P	70 - 130
2302750	Molybdenum	112	121	P/P	70 - 130
2302750	Nickel	114	123	P/P	70 - 130
2302750	Selenium	93.5	97.6	P/P	70 - 130
2302750	Silver	88.7	94.2	P/P	70 - 130
2302750	Thallium	109	110	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303721	Copper	110	110	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P409418

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301865	Chloride	97.1		P	90 - 110
2302092	Chloride	98.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P409421

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301865	Sulfate	94.9		P	90 - 110
2302092	Sulfate	94.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P409349

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301749	Ammonia-N	100	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409350

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302048	Ammonia-N	102	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409472

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301998	Ammonia-N	95.6	95.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409190

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301487	Kjeldahl Nitrogen	95.2	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409233

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301867	Kjeldahl Nitrogen	95.7	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409238

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302350	Kjeldahl Nitrogen	102	96.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409210

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302012	NO2NO3-N	98.4	98.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409317

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301487	NO2NO3-N	98.3	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409318

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302049	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409451

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302605	NO2NO3-N	98.9	97.9	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409101

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302012	Total-P	108	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409102

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301968	Total-P	105	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409509

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303219	Total-P	98.0	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409087

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302030	O-Phosphate-P	98.2	99.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409089

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302051	O-Phosphate-P	99.6	101	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P408985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301521	Aldrin	23.6	40.1	P/P	10 - 89.0
2301521	Alpha-BHC	60.7	81.9	F/P	71 - 105
2301521	Alpha-Chlordane	37.7	56.7	F/P	43 - 107
2301521	Beta-BHC	70.0	95.6	P/P	57 - 152
2301521	Beta-Cyfluthrin	48.5	75.1	P/P	29 - 186
2301521	Bifenthrin	36.7	62.5	P/P	19 - 119
2301521	Chlorothalonil	91.9	169	P/P	10 - 245
2301521	Cis-Nonachlor	44.2	54.7	P/P	36 - 110
2301521	Cypermethrin	47.1	70.5	P/P	24 - 169
2301521	Dacthal	53.6	73.7	F/P	62 - 115
2301521	DDD-p,p'	36.3	54.1	P/P	36 - 109
2301521	DDE-p,p'	32.7	48.2	P/P	30 - 114
2301521	DDT-p,p'	40.2	60.6	F/P	42 - 108
2301521	Delta-BHC	77.8	113	P/P	60 - 164
2301521	Deltamethrin	60.7	87.2	P/P	10 - 210
2301521	Dichlobenil	34.8	52.9	P/P	23 - 108
2301521	Dicofol	45.9	64.1	P/P	44 - 109
2301521	Dieldrin	40.2	58.7	P/P	37 - 119
2301521	Endosulfan I	43.1	62.4	F/P	52 - 105
2301521	Endosulfan II	38.8	54.6	P/P	35 - 127
2301521	Endosulfan Sulfate	52.6	69.3	P/P	39 - 130
2301521	Endrin	38.0	56.4	P/P	30 - 116

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P408985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301521	Endrin Aldehyde	32.2	50.5	P/P	20 - 110
2301521	Endrin Ketone	52.9	75.7	P/P	48 - 134
2301521	Esfenvalerate	53.3	77.5	P/P	10 - 199
2301521	Ethalfuralin	38.3	57.3	F/P	48 - 95.0
2301521	Fenpropathrin	39.6	54.6	P/P	37 - 121
2301521	Gamma-BHC	72.7	96.3	P/P	61 - 126
2301521	Gamma-Chlordane	36.8	55.4	F/P	39 - 105
2301521	Heptachlor	31.3	50.7	F/P	38 - 96.0
2301521	Heptachlor Epoxide	46.1	64.1	P/P	42 - 114
2301521	Hexachlorobenzene	33.2	54.5	F/P	39 - 93.0
2301521	Kepone	81.8	103	P/P	10 - 215
2301521	Lambda-Cyhalothrin	53.5	90.1	P/P	10 - 204
2301521	Methoprene	29.0	51.3	P/P	17 - 108
2301521	Methoxychlor	58.6	78.4	P/P	56 - 115
2301521	MGK-264	48.4	69.3	P/P	35 - 120
2301521	Mirex	25.8	41.0	P/P	10 - 178
2301521	Oxychlordane	52.4	86.7	P/P	47 - 91.0
2301521	Permethrin	53.0	79.0	P/P	27 - 170
2301521	Phenothrin	38.7	68.7	P/P	10 - 133
2301521	Piperonyl Butoxide	57.4	87.3	P/P	23 - 150
2301521	Prallethrin	36.8	60.2	P/P	21 - 113
2301521	Tau-Fluvalinate	41.1	69.0	P/P	16 - 158
2301521	Tetramethrin	42.1	70.6	P/P	22 - 132
2301521	Trans-Nonachlor	37.0	54.6	F/P	43 - 102
2301521	Triclosan Methyl	37.8	51.5	F/P	49 - 109
2301521	Trifluralin	39.8	56.9	F/P	48 - 93.0
2302073	PCB-1016	58.2	57.0	P/P	46 - 110
2302073	PCB-1260	61.8	63.2	P/P	42 - 111

Reference Method: EPA 8270E

Batch ID: P409108

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301326	Acetochlor	106	107	P/P	65 - 124
2301326	Alachlor	96.4	98.2	P/P	61 - 121
2301326	Ametryn	152	138	P/P	52 - 216
2301326	Atrazine	102	99.3	P/P	68 - 133
2301326	Atrazine Desethyl	58.1	62.5	P/P	15 - 160
2301326	Azinphos Methyl	72.1	78.8	P/P	40 - 292
2301326	Azoxystrobin	98.6	105	P/P	12 - 242
2301326	Bromacil	101	99.7	P/P	54 - 167
2301326	Butylate	39.5	47.7	P/P	14 - 94.0
2301326	Caffeine	115	126	P/P	10 - 226
2301326	Carbophenothion	101	106	P/P	49 - 122
2301326	Carfentrazone Ethyl	121	118	P/P	53 - 138
2301326	Chlorfenapyr	85.7	91.5	P/P	50 - 150
2301326	Chlorpyrifos Ethyl	105	109	P/P	52 - 122
2301326	Chlorpyrifos Methyl	106	109	P/P	66 - 117
2301326	Coumaphos	185	200	P/P	50 - 220
2301326	Cyanazine	120	128	P/P	43 - 245
2301326	Cyprodinil	121	128	P/P	50 - 150
2301326	Demeton	86.5	97.8	P/P	43 - 188

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P409108

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301326	Diazinon	104	103	P/P	69 - 131
2301326	Difenoconazole	84.6	86.6	P/P	34 - 231
2301326	Dimethenamid	99.1	98.2	P/P	55 - 118
2301326	Dimethomorph	102	102	P/P	50 - 150
2301326	Disulfoton	93.8	104	P/P	38 - 141
2301326	Dithiopyr	101	96.5	P/P	42 - 116
2301326	EPTC	31.3	37.2	P/P	18 - 85.0
2301326	Ethion	93.8	85.9	P/P	10 - 131
2301326	Ethoprop	100	104	P/P	65 - 129
2301326	Etridiazole	52.0	56.1	P/P	50 - 150
2301326	Fenamiphos	89.1	80.6	P/P	31 - 137
2301326	Fenbuconazole	147	144	P/P	57 - 160
2301326	Fipronil	109	109	P/P	62 - 132
2301326	Fipronil Desulfiny	106	101	P/P	57 - 131
2301326	Fipronil Sulfide	98.3	96.3	P/P	15 - 138
2301326	Fipronil Sulfone	101	100	P/P	21 - 134
2301326	Fluazifop-P-butyl	97.6	96.4	P/P	54 - 133
2301326	Fludioxonil	93.0	95.1	P/P	58 - 127
2301326	Flumioxazin	269	295	P/P	33 - 300
2301326	Fluxapyroxad	99.3	70.5	P/P	23 - 141
2301326	Fonofos	87.1	95.9	P/P	58 - 119
2301326	Hexazinone	106	106	P/P	68 - 172
2301326	Imazalil	104	89.3	P/P	48 - 283
2301326	Iprodione	61.7	60.6	P/P	38 - 140
2301326	Loratadine	75.7	76.6	P/P	50 - 150
2301326	Malathion	115	116	P/P	40 - 137
2301326	Metalaxyl	97.8	90.6	P/P	21 - 129
2301326	Metolachlor	102	98.6	P/P	55 - 122
2301326	Metribuzin	113	107	P/P	38 - 187
2301326	Mevinphos	99.9	108	P/P	54 - 134
2301326	Molinate	69.9	79.7	P/P	41 - 97.0
2301326	Myclobutanil	103	102	P/P	56 - 125
2301326	Naled	105	110	P/F	10 - 108
2301326	Napropamide	95.0	93.1	P/P	50 - 150
2301326	Norflurazon	122	116	P/P	32 - 122
2301326	Oxadiazon	83.8	80.1	P/P	40 - 119
2301326	Oxybenzone	92.0	72.9	P/P	50 - 150
2301326	Oxyfluorfen	126	121	P/P	61 - 153
2301326	Parathion Ethyl	92.2	97.1	P/P	59 - 130
2301326	Parathion Methyl	109	118	P/P	65 - 155
2301326	Pendimethalin	86.2	87.3	P/P	49 - 138
2301326	Phenytoin	114	108	P/P	50 - 200
2301326	Phorate	116	107	P/P	54 - 161
2301326	Prodiamine	129	126	P/P	33 - 161
2301326	Prometon	104	72.1	P/P	48 - 140
2301326	Prometryn	93.8	85.0	P/P	55 - 134
2301326	Pronamide	116	110	P/P	66 - 137
2301326	Propanil	112	115	P/P	50 - 150
2301326	Propargite	151	144	P/P	50 - 200
2301326	Propiconazole	131	128	P/P	36 - 150
2301326	Pyraflufen Ethyl	132	118	P/P	50 - 150
2301326	Pyridaben	174	194	P/P	50 - 200

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P409108

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301326	Pyriproxyfen	55.1	47.2	P/P	10 - 165
2301326	Simazine	105	111	P/P	57 - 145
2301326	Stirophos	98.3	98.9	P/P	50 - 150
2301326	Sulfentrazone	103	89.4	P/P	34 - 140
2301326	Tebuconazole	75.1	46.2	P/P	10 - 127
2301326	Terbufos	118	121	P/P	59 - 138
2301326	Terbuthylazine	99.0	94.1	P/P	68 - 119
2301326	Thiobencarb	102	105	P/P	50 - 150
2301326	Triadimefon	80.7	78.1	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P409681

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305257	Avobenzone	124	142	P/P	50 - 200
2305257	Octinoxate	92.7	99.4	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P408985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302073	Chlordane	64.4	56.9	P/P	55 - 128
2302073	Toxaphene	83.5	69.7	P/P	57 - 211

Reference Method: EPA 8321B
Batch ID: P409043

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301661	Acesulfame K	100	84.0	P/P	40 - 150
2301661	AMPA	94.5	88.6	P/P	40 - 150
2301661	Endothall	159	164	F/F	40 - 150
2301661	Glufosinate	99.0	82.7	P/P	40 - 150
2301661	Glyphosate	90.4	80.7	P/P	40 - 150
2301661	Sucralose	91.2	96.4	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P409047

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301321	3-Hydroxycarbofuran	106	86.7	P/P	30 - 160
2301321	Aldicarb	82.8	80.8	P/P	30 - 160
2301321	Aldicarb Sulfone	116	119	P/P	30 - 160
2301321	Aldicarb Sulfoxide	46.1	60.2	P/P	30 - 160
2301321	Carbaryl	73.7	76.8	P/P	30 - 160
2301321	Carbofuran	81.2	87.0	P/P	30 - 160
2301321	Methiocarb	68.6	72.8	P/P	30 - 160
2301321	Methomyl	86.6	90.7	P/P	30 - 160
2301321	Oxamyl	94.1	108	P/P	30 - 160
2301321	Propoxur	81.9	91.9	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P409048

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301732	2,4-D	148	149	P/P	30 - 160
2301732	2,4,5-T	102	114	P/P	30 - 160
2301732	Acetaminophen	125	134	P/P	30 - 160
2301732	Acetamiprid	106	90.2	P/P	30 - 160
2301732	Afidopyropen	58.6	51.0	P/P	30 - 160
2301732	Benzovindiflupyr	92.0	94.0	P/P	30 - 160
2301732	Clothianidin	150	150	P/P	30 - 160
2301732	Dinotefuran	146	146	P/P	30 - 160
2301732	Diuron	88.9	84.5	P/P	30 - 160
2301732	Fenuron	89.8	92.5	P/P	30 - 160
2301732	Fluridone	106	102	P/P	30 - 160
2301732	Hydrocodone	120	120	P/P	30 - 160
2301732	Ibuprofen	71.8	77.6	P/P	30 - 160
2301732	Linuron	76.3	78.5	P/P	30 - 160
2301732	Mandestrobin	97.2	98.3	P/P	30 - 160
2301732	MCPP	138	142	P/P	30 - 160
2301732	Naproxen	89.4	106	P/P	30 - 160
2301732	Primidone	133	121	P/P	30 - 160
2301732	Pyraclostrobin	94.0	97.3	P/P	30 - 160
2301732	Silvex	102	111	P/P	30 - 160
2301732	Thiamethoxam	159	159	P/P	30 - 160
2301732	Tolfenpyrad	54.7	58.9	P/P	30 - 160
2301732	Triclopyr	110	120	P/P	30 - 160

Reference Method: SM 4500 F-C-2011

Batch ID: P409177

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301997	Fluoride	98.4	97.8	P/P	92 - 107

Reference Method: SM 4500 F-C-2011

Batch ID: P409178

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302047	Fluoride	98.4	98.4	P/P	92 - 107

Reference Method: SM 5310 B-2011

Batch ID: P409830

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302038	Organic Carbon	97.1	97.8	P/P	85 - 115

Reference Method: SM 5310 B-2011

Batch ID: P409916

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302142	Organic Carbon	89.8	90.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P409065

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302128	Color (true)	1.73	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409103

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302040	Turbidity	5.26	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302002	Calcium	3.68	Spike	P	0 - 20
2302002	Iron	3.92	Spike	P	0 - 20
2302002	Magnesium	3.98	Spike	P	0 - 20
2302002	Strontium	3.81	Spike	P	0 - 20
2302002	Tin	1.12	Spike	P	0 - 20
2302002	Vanadium	0.592	Spike	P	0 - 20
2302002	Zinc	1.05	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409246

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302750	Calcium	0.411	Spike	P	0 - 20
2302750	Iron	3.08	Spike	P	0 - 20
2302750	Magnesium	1.01	Spike	P	0 - 20
2302750	Strontium	0.187	Spike	P	0 - 20
2302750	Tin	9.16	Spike	P	0 - 20
2302750	Titanium	0.424	Spike	P	0 - 20
2302750	Vanadium	0.662	Spike	P	0 - 20
2302750	Zinc	0.750	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302002	Aluminum	1.73	Spike	P	0 - 20
2302002	Antimony	1.20	Spike	P	0 - 20
2302002	Arsenic	0.374	Spike	P	0 - 20
2302002	Beryllium	1.33	Spike	P	0 - 20
2302002	Cadmium	2.02	Spike	P	0 - 20
2302002	Chromium	1.01	Spike	P	0 - 20
2302002	Cobalt	1.06	Spike	P	0 - 20
2302002	Copper	1.01	Spike	P	0 - 20
2302002	Lead	0.0354	Spike	P	0 - 20
2302002	Manganese	1.42	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409205

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302002	Molybdenum	0.0554	Spike	P	0 - 20
2302002	Nickel	5.52	Spike	P	0 - 20
2302002	Selenium	1.08	Spike	P	0 - 20
2302002	Silver	0.236	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409246

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302750	Aluminum	6.04	Spike	P	0 - 20
2302750	Antimony	4.52	Spike	P	0 - 20
2302750	Arsenic	4.43	Spike	P	0 - 20
2302750	Beryllium	0.420	Spike	P	0 - 20
2302750	Cadmium	6.17	Spike	P	0 - 20
2302750	Chromium	6.60	Spike	P	0 - 20
2302750	Cobalt	5.32	Spike	P	0 - 20
2302750	Lead	0.142	Spike	P	0 - 20
2302750	Manganese	6.30	Spike	P	0 - 20
2302750	Molybdenum	5.29	Spike	P	0 - 20
2302750	Nickel	7.06	Spike	P	0 - 20
2302750	Selenium	4.25	Spike	P	0 - 20
2302750	Silver	6.07	Spike	P	0 - 20
2302750	Thallium	0.775	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409606

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303721	Copper	0.355	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P409418

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301865	Chloride	0.229	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P409421

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301865	Sulfate	0.698	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P409349

Replicated

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409349

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301749	Ammonia-N	0.729	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409350

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302048	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409472

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301998	Ammonia-N	0.189	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409190

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301487	Kjeldahl Nitrogen	3.99	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409233

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301867	Kjeldahl Nitrogen	5.89	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409237

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302132	Kjeldahl Nitrogen	2.37	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409238

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302350	Kjeldahl Nitrogen	4.02	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409210

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302012	NO2NO3-N	0.454	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301487	NO2NO3-N	0.494	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409318

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302049	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409451

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302605	NO2NO3-N	0.885	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409101

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302012	Total-P	1.03	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409102

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301968	Total-P	0.456	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409509

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303219	Total-P	2.05	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409087

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302030	O-Phosphate-P	1.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409089

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302051	O-Phosphate-P	0.874	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P408985

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301521	Aldrin	51.7	Spike	F	0 - 37
2301521	Alpha-BHC	29.7	Spike	F	0 - 16
2301521	Alpha-Chlordane	40.3	Spike	F	0 - 28
2301521	Beta-BHC	30.9	Spike	P	0 - 32
2301521	Beta-Cyfluthrin	43.1	Spike	F	0 - 41
2301521	Bifenthrin	51.9	Spike	F	0 - 36
2301521	Chlorothalonil	59.2	Spike	F	0 - 54
2301521	Cis-Nonachlor	21.2	Spike	P	0 - 33
2301521	Cypermethrin	39.7	Spike	F	0 - 38
2301521	Dacthal	31.5	Spike	F	0 - 23
2301521	DDD-p,p'	39.3	Spike	F	0 - 35
2301521	DDE-p,p'	38.3	Spike	F	0 - 27
2301521	DDT-p,p'	40.4	Spike	F	0 - 31
2301521	Delta-BHC	37.1	Spike	F	0 - 30
2301521	Deltamethrin	35.9	Spike	P	0 - 76
2301521	Dichlobenil	41.1	Spike	F	0 - 33
2301521	Dicofol	33.0	Spike	F	0 - 24
2301521	Dieldrin	37.2	Spike	F	0 - 35
2301521	Endosulfan I	36.4	Spike	F	0 - 25
2301521	Endosulfan II	33.8	Spike	F	0 - 31
2301521	Endosulfan Sulfate	27.4	Spike	P	0 - 38
2301521	Endrin	39.0	Spike	P	0 - 53
2301521	Endrin Aldehyde	44.4	Spike	P	0 - 81
2301521	Endrin Ketone	35.4	Spike	F	0 - 33
2301521	Esfenvalerate	36.9	Spike	P	0 - 46
2301521	Ethalfuralin	39.8	Spike	F	0 - 22
2301521	Fenpropathrin	31.8	Spike	F	0 - 29
2301521	Gamma-BHC	27.9	Spike	F	0 - 17
2301521	Gamma-Chlordane	40.3	Spike	F	0 - 28
2301521	Heptachlor	47.3	Spike	F	0 - 28
2301521	Heptachlor Epoxide	32.7	Spike	F	0 - 23
2301521	Hexachlorobenzene	48.7	Spike	F	0 - 22
2301521	Kepone	23.3	Spike	P	0 - 61
2301521	Lambda-Cyhalothrin	51.0	Spike	P	0 - 52
2301521	Methoprene	55.6	Spike	F	0 - 38
2301521	Methoxychlor	28.9	Spike	P	0 - 29
2301521	MGK-264	35.4	Spike	P	0 - 41
2301521	Mirex	45.7	Spike	F	0 - 39
2301521	Oxychlordane	49.3	Spike	F	0 - 33
2301521	Permethrin	39.4	Spike	F	0 - 39
2301521	Phenothrin	55.8	Spike	F	0 - 52
2301521	Piperonyl Butoxide	41.3	Spike	P	0 - 91
2301521	Prallethrin	48.2	Spike	F	0 - 34
2301521	Tau-Fluvalinate	50.7	Spike	F	0 - 41
2301521	Tetramethrin	50.7	Spike	F	0 - 43
2301521	Trans-Nonachlor	38.6	Spike	F	0 - 31
2301521	Triclosan Methyl	30.8	Spike	F	0 - 24
2301521	Trifluralin	35.4	Spike	F	0 - 23
2302073	PCB-1016	2.18	Spike	P	0 - 22
2302073	PCB-1260	2.18	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P409108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301326	Acetochlor	0.610	Spike	P	0 - 27
2301326	Alachlor	1.81	Spike	P	0 - 27
2301326	Ametryn	9.74	Spike	P	0 - 34
2301326	Atrazine	2.28	Spike	P	0 - 41
2301326	Atrazine Desethyl	7.37	Spike	P	0 - 38
2301326	Azinphos Methyl	8.81	Spike	P	0 - 62
2301326	Azoxystrobin	4.63	Spike	P	0 - 32
2301326	Bromacil	0.941	Spike	P	0 - 30
2301326	Butylate	18.8	Spike	P	0 - 59
2301326	Caffeine	9.40	Spike	P	0 - 60
2301326	Carbophenothion	5.19	Spike	P	0 - 25
2301326	Carfentrazone Ethyl	1.99	Spike	P	0 - 26
2301326	Chlorfenapyr	6.61	Spike	P	0 - 30
2301326	Chlorpyrifos Ethyl	3.36	Spike	P	0 - 27
2301326	Chlorpyrifos Methyl	2.68	Spike	P	0 - 26
2301326	Coumaphos	7.69	Spike	P	0 - 30
2301326	Cyanazine	6.37	Spike	P	0 - 58
2301326	Cyprodinil	4.93	Spike	P	0 - 30
2301326	Demeton	12.3	Spike	P	0 - 25
2301326	Diazinon	1.30	Spike	P	0 - 29
2301326	Difenoconazole	2.37	Spike	P	0 - 25
2301326	Dimethenamid	0.933	Spike	P	0 - 30
2301326	Dimethomorph	0.377	Spike	P	0 - 30
2301326	Disulfoton	10.2	Spike	P	0 - 33
2301326	Dithiopyr	4.75	Spike	P	0 - 22
2301326	EPTC	17.4	Spike	P	0 - 38
2301326	Ethion	8.77	Spike	P	0 - 79
2301326	Ethoprop	3.96	Spike	P	0 - 23
2301326	Etridiazole	7.49	Spike	P	0 - 30
2301326	Fenamiphos	10.0	Spike	P	0 - 58
2301326	Fenbuconazole	1.92	Spike	P	0 - 37
2301326	Fipronil	0.0491	Spike	P	0 - 33
2301326	Fipronil Desulfinyl	5.02	Spike	P	0 - 26
2301326	Fipronil Sulfide	2.00	Spike	P	0 - 37
2301326	Fipronil Sulfone	0.798	Spike	P	0 - 50
2301326	Fluazifop-P-butyl	1.19	Spike	P	0 - 24
2301326	Fludioxonil	2.29	Spike	P	0 - 26
2301326	Flumioxazin	9.19	Spike	P	0 - 37
2301326	Flutolanil	1.33	Spike	P	0 - 26
2301326	Fluxapyroxad	22.8	Spike	P	0 - 34
2301326	Fonofos	9.70	Spike	P	0 - 27
2301326	Hexazinone	0.171	Spike	P	0 - 36
2301326	Imazalil	15.4	Spike	P	0 - 65
2301326	Iprodione	1.75	Spike	P	0 - 33
2301326	Loratadine	1.15	Spike	P	0 - 30
2301326	Malathion	0.886	Spike	P	0 - 44
2301326	Metalaxyl	7.66	Spike	P	0 - 38
2301326	Metolachlor	2.58	Spike	P	0 - 36
2301326	Metribuzin	5.90	Spike	P	0 - 63
2301326	Mevinphos	8.21	Spike	P	0 - 26
2301326	Molinate	13.1	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P409108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301326	Myclobutanil	1.01	Spike	P	0 - 21
2301326	Naled	4.89	Spike	P	0 - 26
2301326	Napropamide	1.98	Spike	P	0 - 30
2301326	Norflurazon	4.46	Spike	P	0 - 24
2301326	Oxadiazon	4.62	Spike	P	0 - 27
2301326	Oxybenzone	23.1	Spike	P	0 - 30
2301326	Oxyfluorfen	4.15	Spike	P	0 - 24
2301326	Parathion Ethyl	5.16	Spike	P	0 - 28
2301326	Parathion Methyl	7.69	Spike	P	0 - 27
2301326	Pendimethalin	1.21	Spike	P	0 - 31
2301326	Phenytoin	5.16	Spike	P	0 - 30
2301326	Phorate	7.64	Spike	P	0 - 27
2301326	Prodiamine	2.78	Spike	P	0 - 52
2301326	Prometon	35.9	Spike	F	0 - 31
2301326	Prometryn	9.79	Spike	P	0 - 28
2301326	Pronamide	4.89	Spike	P	0 - 26
2301326	Propanil	2.58	Spike	P	0 - 30
2301326	Propargite	5.18	Spike	P	0 - 30
2301326	Propiconazole	2.40	Spike	P	0 - 31
2301326	Pyraflufen Ethyl	11.7	Spike	P	0 - 30
2301326	Pyridaben	11.3	Spike	P	0 - 30
2301326	Pyriproxyfen	14.5	Spike	P	0 - 50
2301326	Simazine	5.21	Spike	P	0 - 29
2301326	Stiropfos	0.613	Spike	P	0 - 30
2301326	Sulfentrazone	14.5	Spike	P	0 - 33
2301326	Tebuconazole	33.5	Spike	P	0 - 44
2301326	Terbufos	2.59	Spike	P	0 - 29
2301326	Terbuthylazine	5.05	Spike	P	0 - 27
2301326	Thiobencarb	3.56	Spike	P	0 - 30
2301326	Triadimefon	3.26	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P409681

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305257	Avobenzone	13.0	Spike	P	0 - 30
2305257	Octinoxate	6.97	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P408985

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302073	Chlordane	12.3	Spike	P	0 - 25
2302073	Toxaphene	18.0	Spike	P	0 - 24

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P409043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301661	Acesulfame K	17.0	Spike	P	0 - 30
2301661	AMPA	6.47	Spike	P	0 - 30
2301661	Endothall	3.00	Spike	P	0 - 30
2301661	Glufosinate	17.9	Spike	P	0 - 30
2301661	Glyphosate	11.2	Spike	P	0 - 30
2301661	Sucralose	5.18	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P409047

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301321	3-Hydroxycarbofuran	20.0	Spike	P	0 - 30
2301321	Aldicarb	2.42	Spike	P	0 - 30
2301321	Aldicarb Sulfone	2.04	Spike	P	0 - 30
2301321	Aldicarb Sulfoxide	26.5	Spike	P	0 - 30
2301321	Carbaryl	4.15	Spike	P	0 - 30
2301321	Carbofuran	6.98	Spike	P	0 - 30
2301321	Methiocarb	5.84	Spike	P	0 - 30
2301321	Methomyl	4.63	Spike	P	0 - 30
2301321	Oxamyl	13.4	Spike	P	0 - 30
2301321	Propoxur	11.5	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P409048

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301732	2,4-D	0.393	Spike	P	0 - 30
2301732	2,4,5-T	11.7	Spike	P	0 - 30
2301732	Acetaminophen	7.07	Spike	P	0 - 30
2301732	Acetamiprid	15.9	Spike	P	0 - 30
2301732	Afidopyropen	14.0	Spike	P	0 - 30
2301732	Bentazon	1.54	Spike	P	0 - 30
2301732	Benzovindiflupyr	2.22	Spike	P	0 - 30
2301732	Carbamazepine	1.98	Spike	P	0 - 30
2301732	Clothianidin	0.548	Spike	P	0 - 30
2301732	Dinotefuran	0.243	Spike	P	0 - 30
2301732	Diuron	5.16	Spike	P	0 - 30
2301732	Fenuron	2.99	Spike	P	0 - 30
2301732	Fluridone	2.46	Spike	P	0 - 30
2301732	Hydrocodone	0.721	Spike	P	0 - 30
2301732	Ibuprofen	7.74	Spike	P	0 - 30
2301732	Imazapyr	5.54	Spike	P	0 - 30
2301732	Imidacloprid	1.01	Spike	P	0 - 30
2301732	Linuron	2.84	Spike	P	0 - 30
2301732	Mandestrobin	1.10	Spike	P	0 - 30
2301732	MCPP	2.78	Spike	P	0 - 30
2301732	Naproxen	16.5	Spike	P	0 - 30
2301732	Primidone	5.78	Spike	P	0 - 30
2301732	Pyraclostrobin	3.49	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P409048

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301732	Silvex	8.67	Spike	P	0 - 30
2301732	Thiamethoxam	0.436	Spike	P	0 - 30
2301732	Tolfenpyrad	7.51	Spike	P	0 - 30
2301732	Triclopyr	8.70	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P409175

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301997	Total Alkalinity	2.01	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P409176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302047	Total Alkalinity	0.0112	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P409661

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302028	TDS	5.36	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P409177

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301997	Fluoride	0.480	Spike	P	0 - 2.1

Reference Method: SM 4500 F-C-2011
Batch ID: P409178

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302047	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P409830

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302038	Organic Carbon	0.442	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P409916

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302142	Organic Carbon	0.953	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2302068
Field Sample ID: G2SE0018

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	112	P	30 - 160
EPA 8321B	Acetaminophen-d4	115	P	30 - 160
EPA 8321B	Carbamazepine-d10	107	P	30 - 160
EPA 8321B	Diuron-d6	74.2	P	30 - 160
EPA 8321B	Endothall-d6	140	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	82.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.2	P	30 - 160
EPA 8321B	Primidone-d5	116	P	30 - 160
EPA 8321B	Sucralose-d6	131	P	30 - 160

Lab Sample ID: 2302069
Field Sample ID: G2SE0034

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	82.7	P	30 - 160

Lab Sample ID: 2302070
Field Sample ID: G2SE0034

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	116	P	30 - 160
EPA 8321B	Carbamazepine-d10	108	P	30 - 160
EPA 8321B	Diuron-d6	91.7	P	30 - 160
EPA 8321B	Endothall-d6	112	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.8	P	30 - 160
EPA 8321B	Primidone-d5	110	P	30 - 160
EPA 8321B	Sucralose-d6	88.4	P	30 - 160

Lab Sample ID: 2302071
Field Sample ID: FB_01262022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	86.8	P	30 - 160

Lab Sample ID: 2302072
Field Sample ID: FB_01262022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	63.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	92.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	93.7	P	30 - 160
EPA 8321B	Diuron-d6	92.0	P	30 - 160
EPA 8321B	Endothall-d6	118	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.8	P	30 - 160
EPA 8321B	Primidone-d5	88.6	P	30 - 160
EPA 8321B	Sucralose-d6	113	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2302073
Field Sample ID: G2SE0034

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	54.6	P	38 - 115
EPA 8270E	Decachlorobiphenyl	48.1	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	50.2	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	55.1	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	65.0	P	30 - 97.0
EPA 8276	PCNB	78.0	P	45 - 119

Lab Sample ID: 2302074
Field Sample ID: G2SE0034

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	80.7	P	20 - 200
EPA 8270E	Simazine-d10	130	P	71 - 140
EPA 8270E	Terbufos-d10	113	P	62 - 131
EPA 8270E	Terphenyl-d14	86.7	P	55 - 108
EPA 8270E	Terphenyl-d14	91.5	P	55 - 108

Lab Sample ID: 2302075
Field Sample ID: FB_01262022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.1	P	38 - 115
EPA 8270E	Decachlorobiphenyl	78.3	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	74.6	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	75.6	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	74.6	P	30 - 97.0
EPA 8276	PCNB	75.4	P	45 - 119

Lab Sample ID: 2302076
Field Sample ID: FB_01262022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	76.7	P	20 - 200
EPA 8270E	Simazine-d10	120	P	71 - 140
EPA 8270E	Terbufos-d10	102	P	62 - 131
EPA 8270E	Terphenyl-d14	89.4	P	55 - 108
EPA 8270E	Terphenyl-d14	92.9	P	55 - 108

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A110070

Included Lab Sample IDs: 2302040

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.7	99.9	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110080

Included Lab Sample IDs: 2302039, 2302042, 2302045, 2302050, 2302051, 2302054

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	100	P/P	90 - 110
O-Phosphate-P	100	100	P/P	90 - 110
O-Phosphate-P	99.6	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110086

Included Lab Sample IDs: 2302037, 2302040, 2302043, 2302046, 2302047, 2302052

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

Reference Method: SM 2320 B-2011

Run ID: A110117

Included Lab Sample IDs: 2302037, 2302040, 2302043, 2302046, 2302047, 2302052

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.4	97.7	P/P	90 - 110
Total Alkalinity	97.7	98.0	P/P	90 - 110
Total Alkalinity	98.0	96.6	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110117

Included Lab Sample IDs: 2302037, 2302040, 2302043, 2302046, 2302047, 2302052

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110125

Included Lab Sample IDs: 2302041

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

Reference Method: EPA 8270E

Run ID: A110135

Included Lab Sample IDs: 2302073, 2302075

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.8		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	98.4		P	80 - 120
Beta-BHC	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110135

Included Lab Sample IDs: 2302073, 2302075

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-Cyfluthrin	96.4		P	80 - 120
Bifenthrin	98.0		P	80 - 120
Chlorothalonil	102		P	80 - 120
Cis-Nonachlor	98.8		P	80 - 120
Cypermethrin	94.5		P	80 - 120
Dacthal	98.6		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	99.6		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	100		P	80 - 120
Deltamethrin	90.6		P	80 - 120
Dichlobenil	98.5		P	80 - 120
Dicofol	99.0		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	97.2		P	80 - 120
Endosulfan II	97.2		P	80 - 120
Endosulfan Sulfate	90.3		P	80 - 120
Endrin	98.8		P	80 - 120
Endrin Aldehyde	95.9		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	94.1		P	80 - 120
Ethalfuralin	102		P	80 - 120
Fenpropathrin	96.8		P	80 - 120
Gamma-BHC	107		P	80 - 120
Gamma-Chlordane	98.4		P	80 - 120
Heptachlor	97.8		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Kepone	83.1		P	80 - 120
Lambda-Cyhalothrin	95.4		P	80 - 120
Methoprene	95.5		P	80 - 120
Methoxychlor	103		P	80 - 120
MGK-264	93.2		P	80 - 120
Mirex	95.4		P	80 - 120
Oxychlordane	96.2		P	80 - 120
Permethrin	98.4		P	80 - 120
Phenothrin	96.4		P	80 - 120
Piperonyl Butoxide	85.4		P	80 - 120
Prallethrin	94.0		P	80 - 120
Tau-Fluvalinate	95.9		P	80 - 120
Tetramethrin	86.9		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Triclosan Methyl	97.0		P	80 - 120
Trifluralin	98.3		P	80 - 120

Reference Method: EPA 8276

Run ID: A110147

Included Lab Sample IDs: 2302073, 2302075

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	90.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A110147

Included Lab Sample IDs: 2302073, 2302075

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.1		P	80 - 120
Toxaphene	101		P	80 - 120
Toxaphene	104		P	80 - 120

Reference Method: EPA 8321B

Run ID: A110148

Included Lab Sample IDs: 2302068, 2302070, 2302072

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	83.4	77.0	P/P	50 - 150
2,4,5-T	83.0	72.4	P/P	50 - 150
3-Hydroxycarbofuran	107	109	P/P	60 - 150
Acetaminophen	122	118	P/P	60 - 160
Acetamiprid	110	107	P/P	50 - 150
Afidopyropen	96.6	99.1	P/P	50 - 150
Aldicarb	67.1	134	P/P	60 - 150
Aldicarb Sulfone	100	109	P/P	50 - 150
Aldicarb Sulfoxide	107	106	P/P	50 - 150
Bentazon	97.4	79.2	P/P	50 - 160
Benzovindiflupyr	108	108	P/P	50 - 160
Carbamazepine	104	107	P/P	60 - 150
Carbaryl	108	103	P/P	60 - 150
Carbofuran	104	105	P/P	50 - 150
Clothianidin	111	119	P/P	60 - 150
Dinotefuran	118	121	P/P	50 - 150
Diuron	121	117	P/P	60 - 160
Fenuron	115	118	P/P	60 - 150
Fluridone	116	108	P/P	60 - 160
Hydrocodone	112	109	P/P	60 - 150
Ibuprofen	69.4	75.6	P/P	50 - 160
Imazapyr	136	137	P/P	50 - 160
Imazapyr	138	136	P/P	50 - 160
Imidacloprid	103	101	P/P	60 - 150
Linuron	114	113	P/P	60 - 150
Mandestrobin	116	114	P/P	50 - 150
MCPP	84.0	84.2	P/P	50 - 150
Methiocarb	107	113	P/P	50 - 150
Methomyl	111	110	P/P	50 - 150
Naproxen	65.4	97.7	P/P	50 - 160
Oxamyl	99.7	103	P/P	50 - 150
Primidone	104	86.3	P/P	60 - 150
Propoxur	100	103	P/P	50 - 150
Pyraclostrobin	112	111	P/P	60 - 150
Silvex	70.9	68.1	P/P	50 - 150
Thiamethoxam	112	108	P/P	50 - 150
Tolfenpyrad	98.4	99.3	P/P	60 - 150
Triclopyr	73.7	82.5	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A110153

Included Lab Sample IDs: 2302068, 2302070, 2302072

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	92.5	90.4	P/P	60 - 160
AMPA	97.0	92.5	P/P	60 - 160
Glufosinate	100	92.8	P/P	60 - 160
Glufosinate	102	100	P/P	60 - 160
Glyphosate	89.9	94.0	P/P	60 - 160
Glyphosate	93.6	89.9	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110154

Included Lab Sample IDs: 2302040

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.8	101	P/P	90 - 110
Sulfate	99.6	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110160

Included Lab Sample IDs: 2302077, 2302081

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	103	102	P/P	90 - 110
Antimony	103	104	P/P	90 - 110
Antimony	104	104	P/P	90 - 110
Arsenic	101	100	P/P	90 - 110
Arsenic	102	101	P/P	90 - 110
Beryllium	95.4	96.7	P/P	90 - 110
Beryllium	96.7	94.4	P/P	90 - 110
Cadmium	102	103	P/P	90 - 110
Cadmium	102	102	P/P	90 - 110
Chromium	99.6	100	P/P	90 - 110
Chromium	99.9	99.6	P/P	90 - 110
Cobalt	98.2	99.2	P/P	90 - 110
Cobalt	99.9	98.2	P/P	90 - 110
Copper	98.3	99.4	P/P	90 - 110
Copper	99.9	98.3	P/P	90 - 110
Lead	97.5	97.5	P/P	90 - 110
Lead	98.2	97.5	P/P	90 - 110
Manganese	99.2	99.3	P/P	90 - 110
Manganese	99.3	100	P/P	90 - 110
Molybdenum	100	100	P/P	90 - 110
Molybdenum	102	100	P/P	90 - 110
Nickel	100	98.5	P/P	90 - 110
Nickel	98.5	99.9	P/P	90 - 110
Selenium	101	100	P/P	90 - 110
Selenium	102	101	P/P	90 - 110
Silver	104	105	P/P	90 - 110
Silver	105	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110171

Included Lab Sample IDs: 2302038, 2302044, 2302048, 2302049

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110182

Included Lab Sample IDs: 2302038, 2302044, 2302048, 2302049, 2302053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.5	99.6	P/P	90 - 110
Ammonia-N	99.7	99.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A110183

Included Lab Sample IDs: 2302068, 2302070, 2302072

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	80.9	P/P	60 - 160
Acesulfame K	80.9	78.5	P/P	60 - 160
Endothall	125	119	P/P	60 - 160
Endothall	139	125	P/P	60 - 160
Sucralose	104	102	P/P	60 - 160
Sucralose	97.7	104	P/P	60 - 160

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110187

Included Lab Sample IDs: 2302077, 2302078, 2302081

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	99.5	P/P	90 - 110
Calcium	102	101	P/P	95 - 105
Calcium	103	104	P/P	90 - 110
Iron	102	99.8	P/P	90 - 110
Iron	103	102	P/P	95 - 105
Iron	103	104	P/P	90 - 110
Magnesium	101	99.1	P/P	90 - 110
Magnesium	102	101	P/P	95 - 105
Magnesium	103	104	P/P	90 - 110
Strontium	101	99.3	P/P	90 - 110
Strontium	103	105	P/P	90 - 110
Strontium	103	101	P/P	95 - 105
Tin	102	102	P/P	95 - 105
Tin	102	105	P/P	90 - 110
Tin	106	106	P/P	90 - 110
Titanium	103	105	P/P	90 - 110
Vanadium	101	103	P/P	90 - 110
Vanadium	101	101	P/P	95 - 105
Vanadium	104	105	P/P	90 - 110
Zinc	100	101	P/P	95 - 105
Zinc	101	106	P/P	90 - 110
Zinc	108	108	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110196

Included Lab Sample IDs: 2302073, 2302075

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	109		P	80 - 120
PCB-1260	110		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110201

Included Lab Sample IDs: 2302038, 2302041, 2302044, 2302048, 2302053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	103	P/P	90 - 110
Total-P	102	102	P/P	90 - 110
Total-P	103	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110217

Included Lab Sample IDs: 2302077, 2302078

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	102	P/P	90 - 110
Antimony	92.3	95.2	P/P	90 - 110
Arsenic	99.4	100	P/P	90 - 110
Beryllium	96.5	99.5	P/P	90 - 110
Cadmium	96.6	97.5	P/P	90 - 110
Chromium	95.8	97.1	P/P	90 - 110
Cobalt	100	101	P/P	90 - 110
Lead	94.3	93.3	P/P	90 - 110
Manganese	95.6	98.4	P/P	90 - 110
Molybdenum	97.0	97.6	P/P	90 - 110
Nickel	102	103	P/P	90 - 110
Selenium	97.7	100	P/P	90 - 110
Thallium	102	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110218

Included Lab Sample IDs: 2302041

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.1	97.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110228

Included Lab Sample IDs: 2302038, 2302044, 2302048

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.4	98.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110239

Included Lab Sample IDs: 2302049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.3	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110249

Included Lab Sample IDs: 2302078

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	96.7	95.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110252

Included Lab Sample IDs: 2302041

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	94.8	94.7	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110253

Included Lab Sample IDs: 2302074, 2302076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	97.9		P	80 - 120
Atrazine	98.6		P	80 - 120
Atrazine Desethyl	111		P	80 - 120
Azinphos Methyl	108		P	80 - 120
Azoxystrobin	104		P	80 - 120
Bromacil	99.7		P	80 - 120
Butylate	107		P	80 - 120
Caffeine	90.6		P	80 - 120
Carbophenothion	81.1		P	80 - 120
Carfentrazone Ethyl	93.5		P	80 - 120
Chlorfenapyr	106		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	94.9		P	80 - 120
Cyanazine	107		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	104		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	105		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	102		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	100		P	80 - 120
Etridiazole	99.6		P	80 - 120
Fenamiphos	100		P	80 - 120
Fenbuconazole	94.1		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	97.4		P	80 - 120
Fipronil Sulfide	105		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	102		P	80 - 120
Fludioxonil	90.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110253

Included Lab Sample IDs: 2302074, 2302076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Flumioxazin	98.7		P	80 - 120
Flutolanil	98.5		P	80 - 120
Fluxapyroxad	95.7		P	80 - 120
Fonofos	101		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	95.3		P	80 - 120
Iprodione	101		P	80 - 120
Loratadine	113		P	80 - 120
Malathion	88.5		P	80 - 120
Metalaxyl	104		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	105		P	80 - 120
Molinate	102		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	106		P	80 - 120
Napropamide	103		P	80 - 120
Norflurazon	95.1		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	103		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	100		P	80 - 120
Pendimethalin	105		P	80 - 120
Phenytoin	96.6		P	80 - 120
Phorate	106		P	80 - 120
Prodiamine	106		P	80 - 120
Prometon	106		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	98.6		P	80 - 120
Propargite	99.5		P	80 - 120
Propiconazole	97.4		P	80 - 120
Pyraflufen Ethyl	96.9		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	114		P	80 - 120
Simazine	104		P	80 - 120
Stiropfos	89.0		P	80 - 120
Sulfentrazone	96.1		P	80 - 120
Tebuconazole	99.0		P	80 - 120
Terbufos	97.4		P	80 - 120
Terbutylazine	103		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	102		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110278

Included Lab Sample IDs: 2302053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	99.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110298
Included Lab Sample IDs: 2302074

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ametryn	97.3		P	80 - 120
Propiconazole	95.4		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A110324
Included Lab Sample IDs: 2302049

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A110345
Included Lab Sample IDs: 2302078

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	105	107	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A110410
Included Lab Sample IDs: 2302038, 2302041, 2302053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.3	97.9	P/P	90 - 110
Organic Carbon	97.9	97.9	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A110436
Included Lab Sample IDs: 2302044, 2302048, 2302049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	89.4*	89.8*	F/F	90 - 110
Organic Carbon	89.8*	91.6	F/P	90 - 110

Reference Method: EPA 8270E
Run ID: A110535
Included Lab Sample IDs: 2302074, 2302076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	101		P	80 - 120
Octinoxate	91.5		P	80 - 120
Oxybenzone	95.8		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	98.4					1.73	
EPA 180.1 Rev. 2.0	Turbidity						5.26	
EPA 200.7 Rev. 4.4	Calcium	104	103	102				3.68
	Calcium	108						0.411
	Iron	106	111	106	108			3.92
	Iron	108	107	103				3.08
	Magnesium	106	110	104	106			3.98
	Magnesium	107						1.01
	Strontium	100	103	99.2	101			3.81
	Strontium	104						0.187
	Tin	107	108	106	107			1.12
	Tin	109	97.4	107				9.16
	Titanium	106	104	104				0.424
	Vanadium	105	106	106	106			0.592
	Vanadium	99.7	107	108				0.662
	Zinc	104	105	104	108			1.05
	Zinc	110	105	105				0.750
EPA 200.8 Rev. 5.4	Aluminum	103	102	99.8	101			1.73
	Aluminum	103	113	120				6.04
	Antimony	103	103	102	104			1.20
	Antimony	101	96.0	100				4.52
	Arsenic	102	98.3	97.9	100			0.374
	Arsenic	103	109	114				4.43
	Beryllium	98.5	93.9	92.5	95.5			1.33
	Beryllium	96.0	97.6	98.0				0.420
	Cadmium	101	103	101	102			2.02
	Cadmium	102	87.1	92.6				6.17
	Chromium	101	103	102	101			1.01
	Chromium	101	96.8	103				6.60
	Cobalt	103	99.9	98.8	102			1.06
	Cobalt	102	117	123				5.32
	Copper	102	99.4	98.4	101			1.01
	Copper	100	110	110				0.355
	Lead	100	98.0	98.0	102			0.0354
	Lead	99.3	103	103				0.142
	Manganese	99.8	96.3	93.0	99.5			1.42
	Manganese	102	94.8	101				6.30
	Molybdenum	102	100	100	103			0.0554
	Molybdenum	101	112	121				5.29
	Nickel	103	106	100	101			5.52
	Nickel	102	114	123				7.06
	Selenium	101	96.3	95.3	99.1			1.08
	Selenium	101	93.5	97.6				4.25
	Silver	105	103	103	104			0.236
	Silver	103	88.7	94.2				6.07
	Thallium	107	109	110				0.775
EPA 300.0 Rev. 2.1	Chloride	98.9	97.1	98.2			0.229	
	Sulfate	97.8	94.9	94.8			0.698	
EPA 350.1 Rev. 2.0	Ammonia-N	98.4	100	101				0.729
	Ammonia-N	99.4	102	102				0.0
	Ammonia-N	100	95.6	95.8				0.189
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	95.2	100				3.99
	Kjeldahl Nitrogen	99.6	95.7	103				5.89
	Kjeldahl Nitrogen	97.6						2.37

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.5	102	96.7		4.02
EPA 353.2 Rev. 2.0	NO2NO3-N	100	98.4	98.9		0.454
	NO2NO3-N	100	98.3	98.8		0.494
	NO2NO3-N	100	100	100		0.0
	NO2NO3-N	99.5	98.9	97.9		0.885
EPA 365.1 Rev. 2.0	Total-P	106	108	106		1.03
	Total-P	105	105	105		0.456
	Total-P	103	98.0	100		2.05
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.2	98.2	99.7		1.01
	O-Phosphate-P	101	99.6	101		0.874
EPA 8270E	Acetochlor	114	106	107		0.610
	Alachlor	103	96.4	98.2		1.81
	Aldrin	66.0	23.6	40.1		51.7
	Alpha-BHC	96.5	60.7	81.9		29.7
	Alpha-Chlordane	90.4	37.7	56.7		40.3
	Ametryn	112	152	138		9.74
	Atrazine	106	102	99.3		2.28
	Atrazine Desethyl	86.6	58.1	62.5		7.37
	Avobenzone	95.9	124	142		13.0
	Azinphos Methyl	72.2	72.1	78.8		8.81
	Azoxystrobin	109	98.6	105		4.63
	Beta-BHC	109	70.0	95.6		30.9
	Beta-Cyfluthrin	112	48.5	75.1		43.1
	Bifenthrin	92.6	36.7	62.5		51.9
	Bromacil	109	101	99.7		0.941
	Butylate	66.8	39.5	47.7		18.8
	Caffeine	85.8	115	126		9.40
	Carbophenothion	111	101	106		5.19
	Carfentrazone Ethyl	125	121	118		1.99
	Chlorfenapyr	103	85.7	91.5		6.61
	Chlorothalonil	113	91.9	169		59.2
	Chlorpyrifos Ethyl	113	105	109		3.36
	Chlorpyrifos Methyl	110	106	109		2.68
	Cis-Nonachlor	90.6	44.2	54.7		21.2
	Coumaphos	171	185	200		7.69
	Cyanazine	133	120	128		6.37
	Cypermethrin	86.7	47.1	70.5		39.7
	Cyprodinil	140	121	128		4.93
	Dacthal	95.8	53.6	73.7		31.5
	DDD-p,p'	90.3	36.3	54.1		39.3
	DDE-p,p'	89.0	32.7	48.2		38.3
	DDT-p,p'	88.4	40.2	60.6		40.4
	Delta-BHC	112	77.8	113		37.1
	Deltamethrin	132	60.7	87.2		35.9
	Demeton	96.8	86.5	97.8		12.3
	Diazinon	106	104	103		1.30
	Dichlobenil	85.9	34.8	52.9		41.1
	Dicofol	83.4	45.9	64.1		33.0
	Dieldrin	91.3	40.2	58.7		37.2
	Difenoconazole	108	84.6	86.6		2.37
	Dimethenamid	91.0	99.1	98.2		0.933
	Dimethomorph	111	102	102		0.377
	Disulfoton	89.0	93.8	104		10.2
	Dithiopyr	104	101	96.5		4.75

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Endosulfan I	90.6	43.1	62.4		36.4
	Endosulfan II	88.1	38.8	54.6		33.8
	Endosulfan Sulfate	91.6	52.6	69.3		27.4
	Endrin	89.2	38.0	56.4		39.0
	Endrin Aldehyde	91.3	32.2	50.5		44.4
	Endrin Ketone	101	52.9	75.7		35.4
	EPTC	61.1	31.3	37.2		17.4
	Esfenvalerate	109	53.3	77.5		36.9
	Ethalfuralin	87.6	38.3	57.3		39.8
	Ethion	103	93.8	85.9		8.77
	Ethoprop	85.4	100	104		3.96
	Etridiazole	69.1	52.0	56.1		7.49
	Fenamiphos	126	89.1	80.6		10.0
	Fenbuconazole	145	147	144		1.92
	Fenpropathrin	101	39.6	54.6		31.8
	Fipronil	110	109	109		0.0491
	Fipronil Desulfinyl	111	106	101		5.02
	Fipronil Sulfide	95.7	98.3	96.3		2.00
	Fipronil Sulfone	105	101	100		0.798
	Fluazifop-P-butyl	97.3	97.6	96.4		1.19
	Fludioxonil	111	93.0	95.1		2.29
	Flumioxazin	248	269	295		9.19
	Flutolanil	104				1.33
	Fluxapyroxad	127	99.3	70.5		22.8
	Fonofos	85.7	87.1	95.9		9.70
	Gamma-BHC	87.0	72.7	96.3		27.9
	Gamma-Chlordane	85.9	36.8	55.4		40.3
	Heptachlor	80.1	31.3	50.7		47.3
	Heptachlor Epoxide	90.7	46.1	64.1		32.7
	Hexachlorobenzene	86.5	33.2	54.5		48.7
	Hexazinone	114	106	106		0.171
	Imazalil	88.8	104	89.3		15.4
	Iprodione	70.6	61.7	60.6		1.75
	Kepone	156	81.8	103		23.3
	Lambda-Cyhalothrin	111	53.5	90.1		51.0
	Loratadine	87.4	75.7	76.6		1.15
	Malathion	128	115	116		0.886
	Metalaxyl	99.7	97.8	90.6		7.66
	Methoprene	76.6	29.0	51.3		55.6
	Methoxychlor	103	58.6	78.4		28.9
	Metolachlor	111	102	98.6		2.58
	Metribuzin	111	113	107		5.90
	Mevinphos	89.0	99.9	108		8.21
	MGK-264	86.9	48.4	69.3		35.4
	Mirex	74.4	25.8	41.0		45.7
	Molinate	76.1	69.9	79.7		13.1
	Myclobutanil	109	103	102		1.01
	Naled	119	105	110		4.89
	Napropamide	103	95.0	93.1		1.98
	Norflurazon	119	122	116		4.46
	Octinoxate	65.4	92.7	99.4		6.97
	Oxadiazon	92.9	83.8	80.1		4.62
	Oxybenzone	94.3	92.0	72.9		23.1
	Oxychlordane	87.6	52.4	86.7		49.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Oxyfluorfen	117	126	121			4.15
	Parathion Ethyl	106	92.2	97.1			5.16
	Parathion Methyl	120	109	118			7.69
	PCB-1016	77.6	58.2	57.0			2.18
	PCB-1260	89.2	61.8	63.2			2.18
	Pendimethalin	79.5	86.2	87.3			1.21
	Permethrin	112	53.0	79.0			39.4
	Phenothrin	87.5	38.7	68.7			55.8
	Phenytol	113	114	108			5.16
	Phorate	98.5	116	107			7.64
	Piperonyl Butoxide	103	57.4	87.3			41.3
	Prallethrin	71.1	36.8	60.2			48.2
	Prodiamine	98.2	129	126			2.78
	Prometon	105	104	72.1			35.9
	Prometryn	94.7	93.8	85.0			9.79
	Pronamide	121	116	110			4.89
	Propanil	118	112	115			2.58
	Propargite	163	151	144			5.18
	Propiconazole	99.8	131	128			2.40
	Pyraflufen Ethyl	124	132	118			11.7
	Pyridaben	159	174	194			11.3
	Pyriproxyfen	61.7	55.1	47.2			14.5
	Simazine	123	105	111			5.21
	Stirophos	84.7	98.3	98.9			0.613
	Sulfentrazone	136	103	89.4			14.5
	Tau-Fluvalinate	101	41.1	69.0			50.7
	Tebuconazole	78.7	75.1	46.2			33.5
	Terbufos	102	118	121			2.59
	Terbutylazine	101	99.0	94.1			5.05
	Tetramethrin	80.3	42.1	70.6			50.7
	Thiobencarb	112	102	105			3.56
	Trans-Nonachlor	85.2	37.0	54.6			38.6
	Triadimefon	98.3	80.7	78.1			3.26
	Triclosan Methyl	92.0	37.8	51.5			30.8
	Trifluralin	85.4	39.8	56.9			35.4
EPA 8276	Chlordane	81.7	64.4	56.9			12.3
	Toxaphene	76.4	83.5	69.7			18.0
EPA 8321B	2,4-D	89.2	148	149			0.393
	2,4,5-T	75.5	102	114			11.7
	3-Hydroxycarbofuran	79.7	106	86.7			20.0
	Acesulfame K	99.1	100	84.0			17.0
	Acetaminophen	96.0	125	134			7.07
	Acetamiprid	98.2	106	90.2			15.9
	Afidopyropen	71.9	58.6	51.0			14.0
	Aldicarb	45.1	82.8	80.8			2.42
	Aldicarb Sulfone	93.7	116	119			2.04
	Aldicarb Sulfoxide	90.8	46.1	60.2			26.5
	AMPA	91.4	94.5	88.6			6.47
	Bentazon	105					1.54
	Benzovindiflupyr	93.1	92.0	94.0			2.22
	Carbamazepine	99.5					1.98
	Carbaryl	81.3	73.7	76.8			4.15
	Carbofuran	86.3	81.2	87.0			6.98
	Clothianidin	106	150	150			0.548

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Dinotefuran	105	146	146			0.243
	Diuron	92.4	88.9	84.5			5.16
	Endothall	136	159	164			3.00
	Fenuron	111	89.8	92.5			2.99
	Fluridone	97.5	106	102			2.46
	Glufosinate	97.9	99.0	82.7			17.9
	Glyphosate	91.2	90.4	80.7			11.2
	Hydrocodone	115	120	120			0.721
	Ibuprofen	79.1	71.8	77.6			7.74
	Imazapyr	149					5.54
	Imidacloprid	91.8					1.01
	Linuron	84.1	76.3	78.5			2.84
	Mandestrobin	99.1	97.2	98.3			1.10
	MCPP	108	138	142			2.78
	Methiocarb	70.4	68.6	72.8			5.84
	Methomyl	88.6	86.6	90.7			4.63
	Naproxen	98.5	89.4	106			16.5
	Oxamyl	95.6	94.1	108			13.4
	Primidone	99.4	133	121			5.78
	Propoxur	78.6	81.9	91.9			11.5
	Pyraclostrobin	92.4	94.0	97.3			3.49
	Silvex	69.8	102	111			8.67
	Sucralose	91.7	91.2	96.4			5.18
	Thiamethoxam	96.0	159	159			0.436
	Tolfenpyrad	52.0	54.7	58.9			7.51
	Triclopyr	75.5	110	120			8.70
SM 2320 B-2011	Total Alkalinity	97.1				2.01	
	Total Alkalinity	97.0				0.0112	
SM 2540 C-2011	TDS					5.36	
SM 4500 F-C-2011	Fluoride	97.8	98.4	97.8			0.480
	Fluoride	97.3	98.4	98.4			0.0
SM 5310 B-2011	Organic Carbon	94.2	97.1	97.8			0.442
	Organic Carbon	95.1	89.8	90.8			0.953

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2302040
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2302037, 2302040, 2302043, 2302046, 2302047, 2302052
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2302077, 2302078, 2302081
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2302077, 2302078, 2302081
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2302040
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2302040
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2302038, 2302041, 2302044, 2302048, 2302049, 2302053
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2302038, 2302041, 2302044, 2302048, 2302049, 2302053
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2302038, 2302041, 2302044, 2302048, 2302049, 2302053
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2302038, 2302041, 2302044, 2302048, 2302049, 2302053

Reference Method Descriptions

Method	Description	Associated Samples
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2302039, 2302042, 2302045, 2302050, 2302051, 2302054
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2302074, 2302076
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2302073, 2302075
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2302074, 2302076
EPA 8270E	PCBs in water matrices by GC/MS/MS	2302073, 2302075
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2302073, 2302075
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2302069, 2302071
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2302068, 2302070, 2302072
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2302037, 2302040, 2302043, 2302046, 2302047, 2302052
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2302040
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2302037, 2302040, 2302043, 2302046, 2302047, 2302052
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2302037, 2302040, 2302043, 2302046, 2302047, 2302052
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2302038, 2302041, 2302044, 2302048, 2302049, 2302053

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	01/27/2022			01/27/2022 11:32	Samantha L Bates	2302040
EPA 180.1 Rev. 2.0	01/27/2022			01/27/2022 15:28	Khloe J Berg	2302037, 2302040, 2302043, 2302046, 2302047, 2302052
EPA 200.7 Rev. 4.4	01/27/2022	02/01/2022 10:00	Vijayalakshmi Reddy	02/02/2022 11:20	Josef B Mick	2302081
	01/27/2022	02/01/2022 10:00	Vijayalakshmi Reddy	02/02/2022 13:27	Josef B Mick	2302077
	01/27/2022	02/02/2022 10:30	Vijayalakshmi Reddy	02/02/2022 17:23	Josef B Mick	2302078
	01/27/2022	02/02/2022 10:30	Vijayalakshmi Reddy	02/02/2022 17:31	Josef B Mick	2302078
EPA 200.8 Rev. 5.4	01/27/2022	02/01/2022 10:00	Vijayalakshmi Reddy	02/01/2022 15:08	Alexander Thompson	2302081
	01/27/2022	02/01/2022 10:00	Vijayalakshmi Reddy	02/01/2022 17:22	Alexander Thompson	2302077
	01/27/2022	02/01/2022 10:00	Vijayalakshmi Reddy	02/03/2022 16:29	Alexander Thompson	2302077
	01/27/2022	02/02/2022 10:30	Vijayalakshmi Reddy	02/03/2022 16:39	Alexander Thompson	2302078
	01/27/2022	02/02/2022 10:30	Vijayalakshmi Reddy	02/04/2022 12:40	Alexander Thompson	2302078
	01/27/2022	02/09/2022 10:35	Vijayalakshmi Reddy	02/11/2022 01:00	Alexander Thompson	2302078
EPA 300.0 Rev. 2.1	01/27/2022			02/03/2022 22:56	James L Waggeberby	2302040
EPA 350.1 Rev. 2.0	01/27/2022			02/02/2022 13:57	Ping Hua	2302053
	01/27/2022			02/02/2022 14:09	Ping Hua	2302048
	01/27/2022			02/02/2022 14:13	Ping Hua	2302038
	01/27/2022			02/02/2022 14:14	Ping Hua	2302044
	01/27/2022			02/02/2022 14:16	Ping Hua	2302049
	01/27/2022			02/04/2022 14:56	Ping Hua	2302041
EPA 351.2 Rev. 2.0	01/27/2022	02/01/2022 09:14	Samantha L Bates	02/03/2022 10:57	Alexandra J Mattheus	2302038
	01/27/2022	02/01/2022 09:14	Samantha L Bates	02/03/2022 10:59	Alexandra J Mattheus	2302044
	01/27/2022	02/01/2022 09:14	Samantha L Bates	02/03/2022 11:01	Alexandra J Mattheus	2302048
	01/27/2022	02/02/2022 09:46	Samantha L Bates	02/03/2022 15:25	Alexandra J Mattheus	2302041
	01/27/2022	02/02/2022 10:16	Alexandra J Mattheus	02/04/2022 09:53	Alexandra J Mattheus	2302049
	01/27/2022	02/02/2022 10:16	Alexandra J Mattheus	02/08/2022 09:10	Alexandra J Mattheus	2302053
EPA 353.2 Rev. 2.0	01/27/2022			01/31/2022 10:58	Beverly Y. Sanders	2302041
	01/27/2022			02/02/2022 10:00	Beverly Y. Sanders	2302038
	01/27/2022			02/02/2022 10:01	Beverly Y. Sanders	2302044
	01/27/2022			02/02/2022 10:02	Beverly Y. Sanders	2302048
	01/27/2022			02/02/2022 10:09	Beverly Y. Sanders	2302049
	01/27/2022			02/04/2022 09:46	Beverly Y. Sanders	2302053
EPA 365.1 Rev. 2.0	01/27/2022	01/28/2022 14:50	Simonne.V. Calhoun	02/02/2022 17:05	Sarah A Nixon	2302053
	01/27/2022	01/28/2022 14:50	Simonne.V. Calhoun	02/02/2022 17:17	Sarah A Nixon	2302041
	01/27/2022	01/28/2022 14:50	Simonne.V. Calhoun	02/02/2022 17:23	Sarah A Nixon	2302038
	01/27/2022	01/28/2022 14:50	Simonne.V. Calhoun	02/02/2022 17:31	Sarah A Nixon	2302044
	01/27/2022	01/28/2022 14:50	Simonne.V. Calhoun	02/02/2022 17:32	Sarah A Nixon	2302048
	01/27/2022	02/08/2022 14:30	Simonne.V. Calhoun	02/09/2022 14:22	Shengyu Ding	2302049
EPA 365.1 Rev. 2.0 dissolved	01/27/2022			01/27/2022 14:14	James L Waggeberby	2302042
	01/27/2022			01/27/2022 14:15	James L Waggeberby	2302054

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 365.1 Rev. 2.0 dissolved	01/27/2022			01/27/2022 14:39	James L Waggeberby	2302051
	01/27/2022			01/27/2022 14:42	James L Waggeberby	2302039
	01/27/2022			01/27/2022 14:47	James L Waggeberby	2302045
	01/27/2022			01/27/2022 14:48	James L Waggeberby	2302050
EPA 8270E	01/27/2022	01/28/2022 08:00	Fe-Val Siddell	01/31/2022 21:10	Vandana T. Nagar	2302073
	01/27/2022	01/28/2022 08:00	Fe-Val Siddell	01/31/2022 21:39	Vandana T. Nagar	2302075
	01/27/2022	01/28/2022 08:00	Fe-Val Siddell	02/02/2022 22:00	Vandana T. Nagar	2302073
	01/27/2022	01/28/2022 08:00	Fe-Val Siddell	02/02/2022 23:00	Vandana T. Nagar	2302075
	01/27/2022	01/31/2022 08:00	Rasheda Ghaffari	02/02/2022 22:17	Michael Poppell	2302074
	01/27/2022	01/31/2022 08:00	Rasheda Ghaffari	02/02/2022 22:42	Michael Poppell	2302076
	01/27/2022	01/31/2022 08:00	Rasheda Ghaffari	02/07/2022 18:58	Michael Poppell	2302074
	01/27/2022	01/31/2022 08:00	Rasheda Ghaffari	02/18/2022 22:14	Lipi Saha	2302074
	01/27/2022	01/31/2022 08:00	Rasheda Ghaffari	02/18/2022 22:38	Lipi Saha	2302076
	01/27/2022	02/14/2022 08:00	Fe-Val Siddell	02/18/2022 22:14	Lipi Saha	2302074
EPA 8276	01/27/2022	02/14/2022 08:00	Fe-Val Siddell	02/18/2022 22:38	Lipi Saha	2302076
	01/27/2022	01/28/2022 08:00	Fe-Val Siddell	02/01/2022 04:22	Arthur Maknenko	2302073
EPA 8321B	01/27/2022	01/28/2022 08:00	Fe-Val Siddell	02/01/2022 12:40	Arthur Maknenko	2302075
	01/27/2022	01/28/2022 12:00	June Rhew	01/29/2022 10:17	Juyoung Kim	2302069
	01/27/2022	01/28/2022 12:00	June Rhew	01/29/2022 10:52	Juyoung Kim	2302071
	01/27/2022	01/28/2022 14:00	Hoor Shaik	01/31/2022 19:32	Juyoung Kim	2302068
	01/27/2022	01/28/2022 14:00	Hoor Shaik	01/31/2022 20:07	Juyoung Kim	2302070
	01/27/2022	01/28/2022 14:00	Hoor Shaik	01/31/2022 20:41	Juyoung Kim	2302072
	01/27/2022	01/28/2022 14:00	Hoor Shaik	02/01/2022 14:27	Juyoung Kim	2302068
	01/27/2022	01/31/2022 09:00	Manjita Shrestha	01/31/2022 16:37	Manjita Shrestha	2302068
	01/27/2022	01/31/2022 09:00	Manjita Shrestha	01/31/2022 17:09	Manjita Shrestha	2302070
	01/27/2022	01/31/2022 09:00	Manjita Shrestha	01/31/2022 17:20	Manjita Shrestha	2302072
	01/27/2022	01/31/2022 09:00	Manjita Shrestha	02/01/2022 00:53	Manjita Shrestha	2302068
	01/27/2022	01/31/2022 09:00	Manjita Shrestha	02/01/2022 01:22	Manjita Shrestha	2302070
	01/27/2022	01/31/2022 09:00	Manjita Shrestha	02/01/2022 01:37	Manjita Shrestha	2302072
SM 2320 B-2011	01/27/2022			01/28/2022 19:17	Dale L. Simmons	2302040
	01/27/2022			01/28/2022 19:25	Dale L. Simmons	2302052
	01/27/2022			01/28/2022 21:36	Dale L. Simmons	2302037
	01/27/2022			01/28/2022 23:52	Dale L. Simmons	2302047
	01/27/2022			01/29/2022 00:06	Dale L. Simmons	2302043
	01/27/2022			01/29/2022 00:19	Dale L. Simmons	2302046
SM 2540 C-2011	01/27/2022			02/01/2022 14:37	Yijie Li	2302040
SM 2540 D-2011	01/27/2022			02/01/2022 14:37	Yijie Li	2302037, 2302040, 2302043, 2302046, 2302047, 2302052
SM 4500 F-C-2011	01/27/2022			01/28/2022 19:17	Dale L. Simmons	2302040
	01/27/2022			01/28/2022 19:25	Dale L. Simmons	2302052

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500 F-C-2011	01/27/2022			01/28/2022 21:36	Dale L. Simmons	2302037
	01/27/2022			01/28/2022 22:20	Dale L. Simmons	2302047
	01/27/2022			01/28/2022 22:34	Dale L. Simmons	2302043
	01/27/2022			01/28/2022 22:39	Dale L. Simmons	2302046
SM 5310 B-2011	01/27/2022			02/14/2022 16:52	Khloe J Berg	2302038
	01/27/2022			02/14/2022 20:04	Khloe J Berg	2302041
	01/27/2022			02/14/2022 20:18	Khloe J Berg	2302053
	01/27/2022			02/15/2022 13:47	Khloe J Berg	2302044
	01/27/2022			02/15/2022 14:34	Khloe J Berg	2302048
	01/27/2022			02/15/2022 16:28	Khloe J Berg	2302049