

Chemical Analysis Report

TLH-ROC-2022-06-22-01

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

Event Description: **Run 12**
Request ID: **RQ-2022-05-30-51**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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Tallahassee, FL 32399
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Certified by: Colin Wright, Program Administrator

Date Certified: 14-JUL-2022 10:04

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Watson Bayou South

Collection Date/Time: 06/22/2022 10:30

Field ID: G3TLHR0006

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336573	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P415668	
	SM 2320 B-2011	Total Alkalinity	90		mg CaCO3/L	P415769	
	SM 2540 D-2011	TSS	8	I	mg/L	P415898	
	SM 4500-F- C-2011	Fluoride	0.91		mg F/L	P415773	
2336574	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P416090	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.34	I	mg N/L	P415873	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P416205	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P415933	
	SM 5310 B-2011	Organic Carbon	4.6		mg C/L	P415819	

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: Parker Creek @ Park

Collection Date/Time: 06/22/2022 11:10

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336579	DEP SOP: NU-094-1	Color (true)	26	A	PCU	P415684	
	EPA 180.1 Rev. 2.0	Turbidity	2.9		NTU	P415668	
	EPA 300.0 Rev. 2.1	Chloride	8.1		mg Cl/L	P415943	
		Sulfate	15		mg SO4/L	P415948	
	SM 2320 B-2011	Total Alkalinity	27		mg CaCO3/L	P415954	
	SM 2540 C-2011	TDS	72		mg/L	P415904	
	SM 2540 D-2011	TSS	2	U	mg/L	P415893	
	SM 4500-F- C-2011	Fluoride	0.056	I	mg F/L	P415962	
2336580	EPA 350.1 Rev. 2.0	Ammonia-N	0.047		mg N/L	P415884	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30		mg N/L	P415874	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.051		mg N/L	P416272	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P415934	
	SM 5310 B-2011	Organic Carbon	4.6		mg C/L	P415856	
2336600	EPA 8321B	Aldicarb	0.020	U	ug/L	P415664	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P415664	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P415664	
		Carbaryl	0.0020	U	ug/L	P415664	
		Carbofuran	0.0020	U	ug/L	P415664	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P415664	
		Methiocarb	0.0020	U	ug/L	P415664	
		Methomyl	0.0020	U	ug/L	P415664	
		Oxamyl	0.0020	U	ug/L	P415664	
		Propoxur	0.0020	U	ug/L	P415664	
2336601	2,4-D	0.017		ug/L	P415624		
	Acesulfame K	0.10	U	ug/L	P415552		
	2,4,5-T	0.0040	U	ug/L	P415624		
	AMPA	0.10	U	ug/L	P415552		
	Acetaminophen	0.0080	U	ug/L	P415624		
	Acetamiprid	0.0020	U	ug/L	P415624		
	Endothall	0.25	U	ug/L	P415552		
	Glufosinate	0.10	U	ug/L	P415552		
	Glyphosate	0.15	I	ug/L	P415552		
	Afidopyropen	0.0020	U	ug/L	P415624		
	Bentazon	0.014		ug/L	P415624		
	Sucralose	0.17		ug/L	P415552		
	Benzovindiflupyr	0.0020	U	ug/L	P415624		
	Carbamazepine	8.0E-04	U	ug/L	P415624		
	Clothianidin	0.0020	U	ug/L	P415624		
	Dinotefuran	0.0024	I	ug/L	P415624		
	Diuron	0.0020	U	ug/L	P415624		
	Fenuron	0.032	U	ug/L	P415624		
	Fluridone	8.0E-04	U	ug/L	P415624		
	Imazapyr	0.0087	I	ug/L	P415624		
	Hydrocodone	0.0020	U	ug/L	P415624		

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336601	EPA 8321B	Ibuprofen	0.080	U	ug/L	P415624	
		Imidacloprid	0.032		ug/L	P415624	
		Linuron	0.0040	U	ug/L	P415624	
		Mandestrobin	0.0020	U	ug/L	P415624	
		MCP	0.0050	I	ug/L	P415624	
		Naproxen	0.0080	U	ug/L	P415624	
		Primidone	0.0040	U	ug/L	P415624	
		Pyraclostrobin	0.0020	U	ug/L	P415624	
		Silvex	0.0040	U	ug/L	P415624	
		Thiamethoxam	0.0020	U	ug/L	P415624	
		Tolfenpyrad	0.0020	U	ug/L	P415624	
		Triclopyr	0.0040	U	ug/L	P415624	
2336603	EPA 8270E	Aldrin	0.68	U	ng/L	P415743	
		Alpha-BHC	0.10	U	ng/L	P415743	
		Alpha-Chlordane	0.21	U	ng/L	P415743	
		Beta-BHC	0.10	U	ng/L	P415743	
		Beta-Cyfluthrin**	1.3	U	ng/L	P415743	
		Bifenthrin**	0.52	U	ng/L	P415743	
		Carbophenothion	0.94	U	ng/L	P415743	
		Chlorothalonil	1.3	U	ng/L	P415743	
		Cis-Nonachlor**	0.21	U	ng/L	P415743	
		Cypermethrin	1.6	U	ng/L	P415743	
		Dacthal**	0.16	U	ng/L	P415743	
		DDD-p,p'	0.26	U	ng/L	P415743	
		DDE-p,p'	0.21	U	ng/L	P415743	
		DDT-p,p'	0.26	U	ng/L	P415743	
		Delta-BHC	0.42	U	ng/L	P415743	
		Deltamethrin**	1.3	U	ng/L	P415743	
		Dichlobenil**	0.26	U	ng/L	P415743	
		Dicofol	1.3	U	ng/L	P415743	
		Dieldrin	1.5	I	ng/L	P415743	
		Endosulfan I	0.42	U	ng/L	P415743	
		Endosulfan II	0.42	U	ng/L	P415743	
		Endosulfan Sulfate	0.31	U	ng/L	P415743	
		Endrin	0.42	U	ng/L	P415743	
		Endrin Aldehyde	0.78	U	ng/L	P415743	
		Endrin Ketone	0.42	U	ng/L	P415743	
		Esfenvalerate**	0.78	U	ng/L	P415743	
		Ethalfuralin**	0.16	U	ng/L	P415743	
		Fenpropathrin**	0.26	U	ng/L	P415743	
		Gamma-BHC	0.13	U	ng/L	P415743	
		Gamma-Chlordane	0.25	I	ng/L	P415743	
		Heptachlor	0.21	U	ng/L	P415743	
		Heptachlor Epoxide	0.42	I	ng/L	P415743	
		Hexachlorobenzene**	1.0	U	ng/L	P415743	

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336603	EPA 8270E	Kepone**	5.2	UJ	ng/L	P415743	CCV
		Lambda-Cyhalothrin**	0.78	U	ng/L	P415743	
		Methoprene**	0.78	U	ng/L	P415743	
		Methoxychlor	0.31	U	ng/L	P415743	
		MGK-264**	0.21	U	ng/L	P415743	
		Mirex	0.73	U	ng/L	P415743	
		Oxychlordane**	0.31	U	ng/L	P415743	
		Permethrin	1.7	U	ng/L	P415743	
		Phenothrin**	0.94	U	ng/L	P415743	
		Piperonyl Butoxide**	4.2		ng/L	P415743	
		Prallethrin**	2.1	U	ng/L	P415743	
		Tau-Fluvalinate**	0.26	U	ng/L	P415743	
		Tetramethrin**	0.78	U	ng/L	P415743	
		Trans-Nonachlor**	0.21	U	ng/L	P415743	
		Triclosan Methyl**	0.16	U	ng/L	P415743	
		Trifluralin	0.21	U	ng/L	P415743	
		Chlordane	2.6	U	ng/L	P415743	
		Toxaphene	16	U	ng/L	P415743	
		Acetochlor	0.25	U	ng/L	P415527	
		Alachlor	0.25	U	ng/L	P415527	
2336604	EPA 8270E	Ametryn	0.59	U	ng/L	P415527	LCS RPD MS MS
		Atrazine	4.6		ng/L	P415527	
		Atrazine Desethyl	1.5	UJ	ng/L	P415527	
		Azinphos Methyl	2.0	U	ng/L	P415527	
		Azoxystrobin**	0.49	U	ng/L	P415527	
		Bromacil	2.6		ng/L	P415527	
		Butylate	0.39	U	ng/L	P415527	
		Caffeine**	70		ng/L	P415527	
		Carbophenothion	0.20	U	ng/L	P415527	
		Carfentrazone Ethyl**	0.098	U	ng/L	P415527	
		Chlorfenapyr**	0.17	U	ng/L	P415527	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P415527	
		Chlorpyrifos Methyl	0.049	U	ng/L	P415527	
		Coumaphos**	0.49	U	ng/L	P415527	
		Cyanazine	3.2	U	ng/L	P415527	
		Cyprodinil**	0.098	U	ng/L	P415527	
		Demeton	1.5	U	ng/L	P415527	
		Diazinon	0.12	U	ng/L	P415527	
		Difenoconazole**	0.59	U	ng/L	P415527	
		Dimethenamid**	0.23	I	ng/L	P415527	
		Dimethomorph**	0.17	U	ng/L	P415527	
		Disulfoton	0.49	U	ng/L	P415527	
		Dithiopyr**	0.17	U	ng/L	P415527	
		EPTC	1.2	U	ng/L	P415527	
		Ethion	0.15	U	ng/L	P415527	

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336604	EPA 8270E	Ethoprop	0.098	U	ng/L	P415527	
		Etridiazole**	0.15	U	ng/L	P415527	MS
		Fenamiphos	0.49	U	ng/L	P415527	
		Fenbuconazole**	0.12	U	ng/L	P415527	
		Fipronil	0.25	U	ng/L	P415527	
		Fipronil Desulfinyl**	0.25	I	ng/L	P415527	
		Fipronil Sulfide	0.35	I	ng/L	P415527	
		Fipronil Sulfone	1.1		ng/L	P415527	
		Fluazifop-P-butyl**	0.098	U	ng/L	P415527	
		Fludioxonil**	0.12	U	ng/L	P415527	
		Flumioxazin**	1.7	U	ng/L	P415527	
		Flutolanil**	0.098	U	ng/L	P415527	
		Fluxapyroxad**	0.098	U	ng/L	P415527	RPD
		Fonofos	0.20	U	ng/L	P415527	
		Hexazinone	0.49	U	ng/L	P415527	
		Imazalil**	0.74	U	ng/L	P415527	
		Iprodione**	0.59	U	ng/L	P415527	
		Loratadine**	0.098	U	ng/L	P415527	RPD
		Malathion	0.34	U	ng/L	P415527	
		Metalaxyl	0.74	U	ng/L	P415527	
		Metolachlor	1.1	I	ng/L	P415527	
		Metribuzin	2.5	U	ng/L	P415527	
		Mevinphos	1.0	U	ng/L	P415527	
		Molinate	0.29	U	ng/L	P415527	
		Myclobutanil**	0.25	U	ng/L	P415527	
		Naled**	1.5	U	ng/L	P415527	
		Napropamide**	0.39	U	ng/L	P415527	MS
		Norflurazon	0.49	U	ng/L	P415527	
		Oxadiazon	0.64	I	ng/L	P415527	
		Oxyfluorfen**	0.15	U	ng/L	P415527	
		Parathion Ethyl	0.25	U	ng/L	P415527	
		Parathion Methyl	0.54	U	ng/L	P415527	
		Pendimethalin	0.98	U	ng/L	P415527	
		Phenytol**	3.4	U	ng/L	P415527	MS, RPD
		Phorate	0.51	U	ng/L	P415527	
		Prodiamine**	0.17	U	ng/L	P415527	
		Prometon	0.88	U	ng/L	P415527	
		Prometryn	0.20	U	ng/L	P415527	
		Pronamide**	0.15	U	ng/L	P415527	
		Propanil**	0.12	U	ng/L	P415527	
		Propargite**	1.5	U	ng/L	P415527	
		Propiconazole**	0.49	U	ng/L	P415527	
		Pyraflufen Ethyl**	0.25	U	ng/L	P415527	
		Pyridaben**	0.50	I	ng/L	P415527	
		Pyriproxyfen**	0.12	U	ng/L	P415527	

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336604	EPA 8270E	Simazine	0.49	U	ng/L	P415527	
		Stirophos**	0.12	U	ng/L	P415527	MS
		Sulfentrazone**	2.8		ng/L	P415527	
		Tebuconazole**	1.6	I	ng/L	P415527	
		Terbufos	0.098	U	ng/L	P415527	
		Terbuthylazine	0.42	U	ng/L	P415527	
		Thiobencarb**	0.59	U	ng/L	P415527	
		Triadimefon**	0.25	U	ng/L	P415527	

Ref. Method and Comment:

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

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

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

Sample Location: Parker Bayou @ Mouth

Collection Date/Time: 06/22/2022 11:35

Field ID: G3TLHR0043

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336585	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P415668	
	SM 2320 B-2011	Total Alkalinity	73		mg CaCO3/L	P415769	
	SM 2540 D-2011	TSS	8	I	mg/L	P415898	
	SM 4500-F- C-2011	Fluoride	0.76		mg F/L	P415773	
2336586	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P416090	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.36	I	mg N/L	P415873	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P416205	
	EPA 365.1 Rev. 2.0	Total-P	0.017		mg P/L	P415933	
	SM 5310 B-2011	Organic Carbon	6.6		mg C/L	P415819	
2336602	EPA 8321B	Acesulfame K	1.0	U	ug/L	P415552	
		2,4-D	0.0020	U	ug/L	P415624	
		AMPA	1.0	U	ug/L	P415552	
		2,4,5-T	0.0040	U	ug/L	P415624	
		Acetaminophen	0.0080	U	ug/L	P415624	
		Endothall	25	U	ug/L	P415552	
		Acetamiprid	0.0020	U	ug/L	P415624	
		Glufosinate	1.0	U	ug/L	P415552	
		Glyphosate	1.0	U	ug/L	P415552	
		Afidopyropen	0.0020	U	ug/L	P415624	
		Sucralose	0.10	I	ug/L	P415552	
		Bentazon	8.0E-04	U	ug/L	P415624	
		Benzovindiflupyr	0.0020	U	ug/L	P415624	
		Carbamazepine	8.0E-04	U	ug/L	P415624	
		Clothianidin	0.0020	U	ug/L	P415624	
		Dinotefuran	0.0020	U	ug/L	P415624	
		Diuron	0.0020	U	ug/L	P415624	
		Fenuron	0.032	U	ug/L	P415624	
		Fluridone	8.0E-04	U	ug/L	P415624	
		Imazapyr	0.0084	I	ug/L	P415624	
		Hydrocodone	0.0020	U	ug/L	P415624	
		Ibuprofen	0.080	U	ug/L	P415624	
		Imidacloprid	0.0020	U	ug/L	P415624	
		Linuron	0.0040	U	ug/L	P415624	
		Mandestrobin	0.0020	U	ug/L	P415624	
		MCPP	0.0040	U	ug/L	P415624	
		Naproxen	0.0080	U	ug/L	P415624	
		Primidone	0.0040	U	ug/L	P415624	
		Pyraclostrobin	0.0020	U	ug/L	P415624	
		Silvex	0.0040	U	ug/L	P415624	
		Thiamethoxam	0.0020	U	ug/L	P415624	
		Tolfenpyrad	0.0020	U	ug/L	P415624	
		Triclopyr	0.0040	U	ug/L	P415624	

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: MDLs are elevated due to matrix interference.

Sample Location: Parker Bayou Continuous Monitoring

Collection Date/Time: 06/22/2022 11:45

Field ID: G3TLHR0018

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336582	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P415668	
	SM 2320 B-2011	Total Alkalinity	77		mg CaCO3/L	P415769	
	SM 2540 D-2011	TSS	15	J	mg/L	P415896	
	SM 4500-F- C-2011	Fluoride	0.77		mg F/L	P415773	
2336583	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P416090	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.45		mg N/L	P415873	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P416205	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P415933	
	SM 5310 B-2011	Organic Carbon	6.6		mg C/L	P415819	

Ref. Method and Comment:

SM 2540 D-2011: Sample was not analyzed using the protocol for saline matrices. Result may be biased high.

Sample Location: Boggy Creek @ SR22

Collection Date/Time: 06/22/2022 12:00

Field ID: G3TLHR0015

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336576	DEP SOP: NU-094-1	Color (true)	210		PCU	P415686	
	EPA 180.1 Rev. 2.0	Turbidity	23		NTU	P415668	
	EPA 300.0 Rev. 2.1	Chloride	5.4		mg Cl/L	P415943	
		Sulfate	0.39	I	mg SO4/L	P415948	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P415954	
	SM 2540 C-2011	TDS	60		mg/L	P415904	
	SM 2540 D-2011	TSS	28		mg/L	P415893	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P415962	
2336577	EPA 350.1 Rev. 2.0	Ammonia-N	0.054		mg N/L	P415884	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.98		mg N/L	P415874	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P416272	
	EPA 365.1 Rev. 2.0	Total-P	0.030		mg P/L	P415932	
	SM 5310 B-2011	Organic Carbon	25		mg C/L	P415856	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P415684

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P415686

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415668

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415943

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415948

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415884

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P416090

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415873

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415874

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416205

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416272

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415932

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415933

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415934

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

Reference Method: EPA 8270E
Batch ID: P415527

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415527

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415527

Component	Result	Code	Units
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
Metaxyl	0.75	U	ng/L
Metaxyl	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
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415527

Component	Result	Code	Units
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
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	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: P415743

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
Carbophenothion	0.90	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415743

Component	Result	Code	Units
Carbophenothion	0.90	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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415743

Component	Result	Code	Units
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P415743

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: P415552

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P415552

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P415624

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	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P415664

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P415769

Component	Result	Code	Units
Total Alkalinity	1.0	U	mg CaCO ₃ /L

Reference Method: SM 2320 B-2011
Batch ID: P415954

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

Reference Method: SM 2540 C-2011
Batch ID: P415904

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P415893

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P415896

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P415898

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P415773

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P415962

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P415819

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P415856

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: P415684

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P415686

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415668

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415943

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: P415948

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415884

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P416090

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415873

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415874

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416205

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416272

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415932

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415933

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415934

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

Reference Method: EPA 8270E
Batch ID: P415527

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	84.5		P	70 - 121
Alachlor	77.1		P	68 - 119
Ametryn	90.5		P	64 - 139
Atrazine	78.6		P	76 - 120
Atrazine Desethyl	42.0		F	44 - 126
Azinphos Methyl	95.9		P	43 - 192
Azoxystrobin	85.9		P	36 - 224
Bromacil	65.7		P	52 - 121
Butylate	45.1		P	28 - 91.0
Caffeine	83.6		P	50 - 134
Carbophenothion	93.5		P	56 - 129
Carfentrazone Ethyl	108		P	60 - 141
Chlorfenapyr	67.5		P	56 - 115
Chlorpyrifos Ethyl	61.4		P	60 - 118
Chlorpyrifos Methyl	75.7		P	68 - 119
Coumaphos	174		P	18 - 250
Cyanazine	77.6		P	61 - 250
Cyprodinil	72.9		P	55 - 145
Demeton	63.4		P	30 - 159
Diazinon	116		P	70 - 123
Difenoconazole	91.7		P	49 - 204
Dimethenamid	72.4		P	64 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P415527

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dimethomorph	92.3		P	12 - 219
Disulfoton	83.1		P	44 - 125
Dithiopyr	89.5		P	64 - 115
EPTC	47.6		P	28 - 86.0
Ethion	55.2		P	33 - 125
Ethoprop	87.8		P	64 - 116
Etridiazole	49.7		P	34 - 91.0
Fenamiphos	81.4		P	12 - 127
Fenbuconazole	135		P	59 - 151
Fipronil	85.5		P	67 - 129
Fipronil Desulfinyl	93.8		P	65 - 127
Fipronil Sulfide	89.6		P	61 - 116
Fipronil Sulfone	86.1		P	55 - 117
Fluazifop-P-butyl	85.6		P	62 - 127
Fludioxonil	82.4		P	62 - 128
Flumioxazin	214		P	33 - 250
Flutolanil	77.6		P	56 - 127
Fluxapyroxad	66.4		P	45 - 128
Fonofos	74.6		P	62 - 111
Hexazinone	85.6		P	46 - 139
Imazalil	72.6		P	38 - 142
Iprodione	84.0		P	47 - 135
Loratadine	98.0		P	10 - 244
Malathion	96.5		P	61 - 139
Metalaxyl	77.7		P	10 - 119
Metolachlor	89.5		P	65 - 118
Metribuzin	78.1		P	51 - 250
Mevinphos	68.0		P	53 - 121
Molinate	60.3		P	42 - 96.0
Myclobutanil	82.9		P	55 - 128
Naled	69.8		P	10 - 98.0
Napropamide	61.8		P	49 - 121
Norflurazon	114		P	61 - 126
Oxadiazon	85.0		P	59 - 116
Oxyfluorfen	97.9		P	64 - 137
Parathion Ethyl	86.1		P	70 - 112
Parathion Methyl	98.9		P	76 - 133
Pendimethalin	80.0		P	52 - 117
Phenytol	45.9		P	10 - 199
Phorate	81.6		P	48 - 121
Prodiamine	76.6		P	26 - 142
Prometon	69.4		P	43 - 123
Prometryn	80.1		P	66 - 127
Pronamide	102		P	75 - 121
Propanil	65.2		P	45 - 150
Propargite	149		P	42 - 208
Propiconazole	114		P	60 - 125
Pyraflufen Ethyl	111		P	70 - 138
Pyridaben	150		P	35 - 245
Pyriproxyfen	93.6		P	30 - 149
Simazine	74.0		P	72 - 125
Stirophos	71.4		P	29 - 164

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P415527

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfentrazone	118		P	21 - 139
Tebuconazole	110		P	10 - 115
Terbufos	84.8		P	60 - 123
Terbutylazine	90.2		P	72 - 115
Thiobencarb	75.2		P	31 - 139
Triadimefon	66.5		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P415743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.2		P	10 - 93.0
Alpha-BHC	92.1		P	75 - 106
Alpha-Chlordane	88.4		P	50 - 109
Beta-BHC	104		P	36 - 138
Beta-Cyfluthrin	96.6		P	23 - 167
Bifenthrin	72.2		P	11 - 123
Carbophenothion	63.6		P	18 - 96.0
Chlorothalonil	82.1		P	27 - 190
Cis-Nonachlor	70.6		P	40 - 111
Cypermethrin	84.9		P	25 - 155
Dacthal	93.4		P	72 - 119
DDD-p,p'	74.3		P	47 - 108
DDE-p,p'	87.5		P	48 - 107
DDT-p,p'	74.5		P	49 - 111
Delta-BHC	123		P	54 - 138
Deltamethrin	88.8		P	22 - 189
Dichlobenil	101		P	32 - 113
Dicofol	69.6		P	50 - 108
Dieldrin	87.7		P	56 - 110
Endosulfan I	94.5		P	60 - 105
Endosulfan II	79.9		P	50 - 120
Endosulfan Sulfate	89.8		P	55 - 121
Endrin	76.7		P	31 - 119
Endrin Aldehyde	83.8		P	36 - 116
Endrin Ketone	88.6		P	69 - 177
Esfenvalerate	87.8		P	10 - 179
Ethalfuralin	75.3		P	49 - 99.0
Fenpropathrin	77.1		P	35 - 119
Gamma-BHC	99.9		P	69 - 120
Gamma-Chlordane	82.8		P	45 - 107
Heptachlor	65.7		P	41 - 100
Heptachlor Epoxide	88.2		P	58 - 106
Hexachlorobenzene	77.2		P	39 - 100
Kepone	50.7		P	10 - 191
Lambda-Cyhalothrin	91.5		P	21 - 206
Methoprene	80.3		P	10 - 129
Methoxychlor	77.3		P	61 - 111
MGK-264	89.3		P	20 - 123
Mirex	63.0		P	10 - 182
Oxychlordane	81.8		P	39 - 110
Permethrin	99.4		P	26 - 152

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P415743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phenothrin	73.5		P	10 - 109
Piperonyl Butoxide	94.6		P	19 - 147
Prallethrin	84.2		P	14 - 109
Tau-Fluvalinate	77.7		P	16 - 134
Tetramethrin	97.0		P	10 - 125
Trans-Nonachlor	87.6		P	45 - 107
Triclosan Methyl	88.3		P	60 - 110
Trifluralin	76.5		P	44 - 101

Reference Method: EPA 8276

Batch ID: P415743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	98.5		P	61 - 118
Toxaphene	111		P	51 - 122

Reference Method: EPA 8321B

Batch ID: P415552

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	81.1		P	40 - 150
AMPA	95.8		P	40 - 150
Endothall	78.1		P	40 - 150
Glufosinate	96.9		P	40 - 150
Glyphosate	96.7		P	40 - 150
Sucralose	99.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415624

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	77.2		P	40 - 150
2,4,5-T	45.4		P	40 - 150
Acetaminophen	88.8		P	30 - 150
Acetamiprid	85.3		P	40 - 150
Afidopyropen	68.6		P	30 - 150
Bentazon	80.6		P	30 - 150
Benzovindiflupyr	87.1		P	40 - 150
Carbamazepine	92.2		P	40 - 150
Clothianidin	92.6		P	40 - 150
Dinotefuran	93.4		P	40 - 150
Diuron	99.4		P	40 - 150
Fenuron	89.8		P	40 - 150
Fluridone	86.5		P	40 - 150
Hydrocodone	86.7		P	40 - 150
Ibuprofen	80.1		P	40 - 150
Imazapyr	98.8		P	40 - 150
Imidacloprid	97.1		P	40 - 150
Linuron	81.7		P	40 - 150
Mandestrobin	82.8		P	40 - 150
MCPP	72.3		P	40 - 150
Naproxen	53.6		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P415624

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Primidone	84.4		P	40 - 150
Pyraclostrobin	71.6		P	40 - 150
Silvex	48.8		P	40 - 150
Thiamethoxam	88.1		P	40 - 150
Tolfenpyrad	40.0		P	30 - 150
Triclopyr	50.0		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415664

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	71.9		P	40 - 150
Aldicarb	60.4		P	30 - 150
Aldicarb Sulfone	85.5		P	40 - 150
Aldicarb Sulfoxide	83.8		P	40 - 150
Carbaryl	75.0		P	40 - 150
Carbofuran	82.1		P	40 - 150
Methiocarb	72.1		P	40 - 150
Methomyl	74.3		P	40 - 150
Oxamyl	81.7		P	40 - 150
Propoxur	68.6		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P415769

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

Reference Method: SM 2320 B-2011

Batch ID: P415954

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

Reference Method: SM 4500-F- C-2011

Batch ID: P415773

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	96 - 104

Reference Method: SM 4500-F- C-2011

Batch ID: P415962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	96 - 104

Reference Method: SM 5310 B-2011

Batch ID: P415819

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.7		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P415856

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336204	Chloride	98.7		P	90 - 110
2336486	Chloride	97.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336204	Sulfate	96.2		P	90 - 110
2336486	Sulfate	94.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415884

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336489	Ammonia-N	98.4	95.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P416090

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336276	Ammonia-N	103	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415873

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336574	Kjeldahl Nitrogen	99.1	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415874

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336580	Kjeldahl Nitrogen	98.0	99.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336457	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416272

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336577	NO2NO3-N	98.4	98.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415932

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336487	Total-P	101	100	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P415933

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336586	Total-P	95.5	96.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P415934

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336768	Total-P	102	104	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P415527

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2335685	Acetochlor	76.6	87.2	P/P	65 - 124
2335685	Alachlor	65.9	80.8	P/P	61 - 121
2335685	Ametryn	88.5	62.8	P/P	52 - 216
2335685	Atrazine Desethyl	42.0	40.0	P/P	15 - 160
2335685	Azinphos Methyl	59.4	137	P/P	40 - 292
2335685	Azoxystrobin	83.2	97.0	P/P	12 - 242
2335685	Bromacil	51.6	50.7	F/F	54 - 167
2335685	Butylate	40.3	36.2	P/P	14 - 94.0
2335685	Caffeine	88.7	83.3	P/P	10 - 226
2335685	Carbophenothion	99.4	97.4	P/P	49 - 122
2335685	Carfentrazone Ethyl	102	110	P/P	53 - 138
2335685	Chlorfenapyr	62.8	55.4	P/P	50 - 150
2335685	Chlorpyrifos Ethyl	52.4	56.8	P/P	52 - 122
2335685	Chlorpyrifos Methyl	65.2	67.1	F/P	66 - 117
2335685	Coumaphos	159	145	P/P	50 - 220
2335685	Cyanazine	65.3	71.6	P/P	43 - 245
2335685	Cyprodinil	64.1	69.7	P/P	50 - 150
2335685	Demeton	64.4	57.2	P/P	43 - 188
2335685	Diazinon	114	100	P/P	69 - 131
2335685	Difenoconazole	193	203	P/P	34 - 231
2335685	Dimethenamid	66.6	71.0	P/P	55 - 118
2335685	Dimethomorph	102	82.0	P/P	50 - 150
2335685	Disulfoton	73.2	69.5	P/P	38 - 141
2335685	Dithiopyr	84.6	81.0	P/P	42 - 116
2335685	EPTC	37.9	33.8	P/P	18 - 85.0
2335685	Ethion	44.4	53.2	P/P	10 - 131
2335685	Ethoprop	74.2	76.4	P/P	65 - 129
2335685	Etridiazole	57.2	46.7	P/F	50 - 150
2335685	Fenamiphos	81.8	70.5	P/P	31 - 137
2335685	Fenbuconazole	127	127	P/P	57 - 160
2335685	Fipronil	75.1	84.9	P/P	62 - 132
2335685	Fipronil Desulfinyl	99.3	85.5	P/P	57 - 131
2335685	Fluazifop-P-butyl	75.5	72.6	P/P	54 - 133
2335685	Fludioxonil	71.5	78.0	P/P	58 - 127
2335685	Flumioxazin	128	157	P/P	33 - 300
2335685	Flutolanil	65.0	74.7	P/P	42 - 130
2335685	Fluxapyroxad	43.3	65.2	P/P	23 - 141
2335685	Fonofos	72.3	59.8	P/P	58 - 119
2335685	Hexazinone	68.1	76.6	P/P	68 - 172
2335685	Imazalil	66.8	59.3	P/P	48 - 283

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P415527

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2335685	Iprodione	133	134	P/P	38 - 140
2335685	Loratadine	127	78.3	P/P	50 - 150
2335685	Malathion	79.6	86.5	P/P	40 - 137
2335685	Metalaxyl	68.4	67.4	P/P	21 - 129
2335685	Metolachlor	77.6	80.9	P/P	55 - 122
2335685	Metribuzin	68.3	76.6	P/P	38 - 187
2335685	Mevinphos	54.9	59.0	P/P	54 - 134
2335685	Molinate	54.2	48.1	P/P	41 - 97.0
2335685	Myclobutanil	71.1	81.3	P/P	56 - 125
2335685	Naled	60.5	74.0	P/P	10 - 108
2335685	Napropamide	45.2	58.8	F/P	50 - 150
2335685	Norflurazon	104	99.3	P/P	32 - 122
2335685	Oxadiazon	74.4	65.5	P/P	40 - 119
2335685	Oxyfluorfen	95.3	98.2	P/P	61 - 153
2335685	Parathion Ethyl	70.6	73.0	P/P	59 - 130
2335685	Parathion Methyl	95.4	94.1	P/P	65 - 155
2335685	Pendimethalin	74.8	77.3	P/P	49 - 138
2335685	Phenytoin	17.3	54.9	F/P	50 - 200
2335685	Phorate	65.6	57.6	P/P	54 - 161
2335685	Prodiamine	80.6	85.1	P/P	33 - 161
2335685	Prometon	70.5	75.3	P/P	48 - 140
2335685	Prometryn	72.5	67.4	P/P	55 - 134
2335685	Pronamide	95.6	96.3	P/P	66 - 137
2335685	Propanil	54.2	66.3	P/P	50 - 150
2335685	Propargite	132	164	P/P	50 - 200
2335685	Propiconazole	106	92.1	P/P	36 - 150
2335685	Pyraflufen Ethyl	119	120	P/P	50 - 150
2335685	Pyridaben	155	160	P/P	50 - 200
2335685	Pyriproxyfen	70.0	62.8	P/P	10 - 165
2335685	Simazine	59.2	58.7	P/P	57 - 145
2335685	Stiropfos	49.9	56.3	F/P	50 - 150
2335685	Sulfentrazone	114	118	P/P	34 - 140
2335685	Tebuconazole	93.4	108	P/P	10 - 127
2335685	Terbufos	90.3	79.3	P/P	59 - 138
2335685	Terbuthylazine	80.6	81.1	P/P	68 - 119
2335685	Thiobencarb	63.6	73.6	P/P	50 - 150
2335685	Triadimefon	64.6	65.4	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P415743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336507	Aldrin	50.7	55.2	P/P	10 - 89.0
2336507	Alpha-BHC	92.2	94.3	P/P	71 - 105
2336507	Alpha-Chlordane	65.2	64.1	P/P	43 - 107
2336507	Beta-BHC	114	117	P/P	57 - 152
2336507	Beta-Cyfluthrin	79.8	94.0	P/P	29 - 186
2336507	Bifenthrin	73.7	72.7	P/P	19 - 119
2336507	Carbophenothion	69.9	77.7	P/P	19 - 107
2336507	Chlorothalonil	30.2	35.1	P/P	10 - 245
2336507	Cis-Nonachlor	61.6	60.6	P/P	36 - 110
2336507	Cypermethrin	73.1	86.9	P/P	24 - 169

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P415743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336507	Dacthal	84.5	88.9	P/P	62 - 115
2336507	DDD-p,p'	60.0	66.3	P/P	36 - 109
2336507	DDE-p,p'	68.7	68.1	P/P	30 - 114
2336507	DDT-p,p'	62.1	63.4	P/P	42 - 108
2336507	Delta-BHC	140	138	P/P	60 - 164
2336507	Deltamethrin	77.3	92.2	P/P	10 - 210
2336507	Dichlobenil	67.5	66.9	P/P	23 - 108
2336507	Dicofol	60.1	60.2	P/P	44 - 109
2336507	Dieldrin	63.0	65.8	P/P	37 - 119
2336507	Endosulfan I	78.0	83.7	P/P	52 - 105
2336507	Endosulfan II	62.5	69.0	P/P	35 - 127
2336507	Endosulfan Sulfate	75.0	83.8	P/P	39 - 130
2336507	Endrin	64.5	68.7	P/P	30 - 116
2336507	Endrin Aldehyde	54.7	59.4	P/P	20 - 110
2336507	Endrin Ketone	80.0	80.3	P/P	48 - 134
2336507	Esfenvalerate	81.1	92.8	P/P	10 - 199
2336507	Ethalfuralin	66.1	71.6	P/P	48 - 95.0
2336507	Fenpropathrin	75.3	70.1	P/P	37 - 121
2336507	Gamma-BHC	104	104	P/P	61 - 126
2336507	Gamma-Chlordane	61.2	63.8	P/P	39 - 105
2336507	Heptachlor	51.2	57.8	P/P	38 - 96.0
2336507	Heptachlor Epoxide	76.5	77.0	P/P	42 - 114
2336507	Hexachlorobenzene	59.4	64.8	P/P	39 - 93.0
2336507	Kepone	33.1	38.4	P/P	10 - 215
2336507	Lambda-Cyhalothrin	88.5	93.4	P/P	10 - 204
2336507	Methoprene	62.6	64.1	P/P	17 - 108
2336507	Methoxychlor	67.4	66.0	P/P	56 - 115
2336507	MGK-264	74.7	87.4	P/P	35 - 120
2336507	Mirex	56.7	54.7	P/P	10 - 178
2336507	Oxychlordane	64.7	68.4	P/P	47 - 91.0
2336507	Permethrin	83.0	103	P/P	27 - 170
2336507	Phenothrin	78.8	83.8	P/P	10 - 133
2336507	Piperonyl Butoxide	83.7	96.5	P/P	23 - 150
2336507	Prallethrin	72.1	81.8	P/P	21 - 113
2336507	Tau-Fluvalinate	75.1	82.4	P/P	16 - 158
2336507	Tetramethrin	98.1	119	P/P	22 - 132
2336507	Trans-Nonachlor	63.6	67.0	P/P	43 - 102
2336507	Triclosan Methyl	70.0	67.8	P/P	49 - 109
2336507	Trifluralin	71.0	69.9	P/P	48 - 93.0

Reference Method: EPA 8276
Batch ID: P415743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336762	Chlordane	103	96.3	P/P	55 - 128
2336762	Toxaphene	107	107	P/P	57 - 211

Reference Method: EPA 8321B
Batch ID: P415552

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336418	Acesulfame K	74.2	75.3	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P415552

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336418	AMPA	77.0	75.1	P/P	40 - 150
2336418	Endothall	80.5	80.7	P/P	40 - 150
2336418	Glufosinate	81.6	79.4	P/P	40 - 150
2336418	Glyphosate	70.1	66.3	P/P	40 - 150
2336418	Sucralose	90.9	95.3	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415624

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336373	2,4-D	82.8	79.4	P/P	40 - 150
2336373	2,4,5-T	52.7	51.3	P/P	40 - 150
2336373	Acetaminophen	107	105	P/P	30 - 150
2336373	Acetamiprid	96.5	100	P/P	40 - 150
2336373	Afidopyropen	80.2	75.0	P/P	30 - 150
2336373	Bentazon	78.6	70.9	P/P	30 - 150
2336373	Benzovindiflupyr	86.8	80.4	P/P	40 - 150
2336373	Carbamazepine	93.4	95.1	P/P	40 - 150
2336373	Clothianidin	81.4	87.0	P/P	40 - 150
2336373	Dinotefuran	107	109	P/P	40 - 150
2336373	Diuron	98.9	85.0	P/P	40 - 150
2336373	Fenuron	85.0	86.8	P/P	40 - 150
2336373	Fluridone	88.1	85.9	P/P	40 - 150
2336373	Hydrocodone	92.8	92.7	P/P	40 - 150
2336373	Ibuprofen	68.7	73.5	P/P	40 - 150
2336373	Imazapyr	78.7	92.9	P/P	40 - 150
2336373	Imidacloprid	109	115	P/P	40 - 150
2336373	Linuron	76.2	79.5	P/P	40 - 150
2336373	Mandestrobin	84.9	82.8	P/P	40 - 150
2336373	MCP	73.7	73.0	P/P	40 - 150
2336373	Naproxen	69.5	70.8	P/P	40 - 150
2336373	Primidone	102	92.4	P/P	40 - 150
2336373	Pyraclostrobin	77.4	77.8	P/P	40 - 150
2336373	Silvex	60.0	61.7	P/P	40 - 150
2336373	Thiamethoxam	100	97.1	P/P	40 - 150
2336373	Tolfenpyrad	41.9	43.5	P/P	30 - 150
2336373	Triclopyr	58.0	53.3	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415664

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336088	3-Hydroxycarbofuran	85.1	89.0	P/P	40 - 150
2336088	Aldicarb	53.1	73.7	P/P	30 - 150
2336088	Aldicarb Sulfone	95.1	98.2	P/P	40 - 150
2336088	Aldicarb Sulfoxide	49.6	53.5	P/P	40 - 150
2336088	Carbaryl	73.0	80.5	P/P	40 - 150
2336088	Carbofuran	78.1	82.0	P/P	40 - 150
2336088	Methiocarb	75.0	78.4	P/P	40 - 150
2336088	Methomyl	77.8	84.0	P/P	40 - 150
2336088	Oxamyl	86.1	88.0	P/P	40 - 150
2336088	Propoxur	72.2	66.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P415773

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333620	Fluoride	99.0	99.0	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P415962

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336989	Fluoride	101	101	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P415819

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336586	Organic Carbon	92.6	90.0	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P415856

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336489	Organic Carbon	96.5	98.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P415684

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336579	Color (true)	1.17	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P415686

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336816	Color (true)	3.17	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336611	Turbidity	1.96	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336204	Chloride	0.252	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336204	Sulfate	0.160	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415884

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336489	Ammonia-N	2.96	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P416090

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336276	Ammonia-N	0.624	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415873

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336574	Kjeldahl Nitrogen	5.76	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415874

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336580	Kjeldahl Nitrogen	1.49	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336457	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416272

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336577	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415932

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336487	Total-P	0.360	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415933

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336586	Total-P	0.713	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415934

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336768	Total-P	1.91	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P415527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2335685	Acetochlor	12.9	Spike	P	0 - 27
2335685	Alachlor	20.4	Spike	P	0 - 27
2335685	Ametryn	27.2	Spike	P	0 - 34
2335685	Atrazine	3.59	Spike	P	0 - 41
2335685	Atrazine Desethyl	4.88	Spike	P	0 - 38
2335685	Azinphos Methyl	79.3	Spike	F	0 - 62
2335685	Azoxystrobin	15.4	Spike	P	0 - 32
2335685	Bromacil	1.81	Spike	P	0 - 30
2335685	Butylate	10.9	Spike	P	0 - 59

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P415527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2335685	Caffeine	6.08	Spike	P	0 - 60
2335685	Carbophenothion	1.95	Spike	P	0 - 25
2335685	Carfentrazone Ethyl	6.99	Spike	P	0 - 26
2335685	Chlorfenapyr	12.5	Spike	P	0 - 30
2335685	Chlorpyrifos Ethyl	8.08	Spike	P	0 - 27
2335685	Chlorpyrifos Methyl	2.87	Spike	P	0 - 26
2335685	Coumaphos	9.59	Spike	P	0 - 30
2335685	Cyanazine	9.18	Spike	P	0 - 58
2335685	Cyprodinil	8.36	Spike	P	0 - 30
2335685	Demeton	11.9	Spike	P	0 - 25
2335685	Diazinon	12.4	Spike	P	0 - 29
2335685	Difenoconazole	4.70	Spike	P	0 - 25
2335685	Dimethenamid	6.31	Spike	P	0 - 30
2335685	Dimethomorph	21.4	Spike	P	0 - 30
2335685	Disulfoton	5.13	Spike	P	0 - 33
2335685	Dithiopyr	4.33	Spike	P	0 - 22
2335685	EPTC	11.4	Spike	P	0 - 38
2335685	Ethion	18.1	Spike	P	0 - 79
2335685	Ethoprop	3.01	Spike	P	0 - 23
2335685	Etridiazole	20.1	Spike	P	0 - 30
2335685	Fenamiphos	14.8	Spike	P	0 - 58
2335685	Fenbuconazole	0.0177	Spike	P	0 - 37
2335685	Fipronil	10.2	Spike	P	0 - 33
2335685	Fipronil Desulfinyl	9.62	Spike	P	0 - 26
2335685	Fipronil Sulfide	12.6	Spike	P	0 - 37
2335685	Fipronil Sulfone	2.00	Spike	P	0 - 50
2335685	Fluazifop-P-butyl	3.83	Spike	P	0 - 24
2335685	Fludioxonil	8.74	Spike	P	0 - 26
2335685	Flumioxazin	17.3	Spike	P	0 - 37
2335685	Flutolanil	13.9	Spike	P	0 - 26
2335685	Fluxapyroxad	40.4	Spike	F	0 - 34
2335685	Fonofos	19.0	Spike	P	0 - 27
2335685	Hexazinone	10.8	Spike	P	0 - 36
2335685	Imazalil	11.9	Spike	P	0 - 65
2335685	Iprodione	0.832	Spike	P	0 - 33
2335685	Loratadine	47.7	Spike	F	0 - 30
2335685	Malathion	8.24	Spike	P	0 - 44
2335685	Metalaxyl	1.42	Spike	P	0 - 38
2335685	Metolachlor	4.08	Spike	P	0 - 36
2335685	Metribuzin	11.5	Spike	P	0 - 63
2335685	Mevinphos	7.12	Spike	P	0 - 26
2335685	Molinate	11.8	Spike	P	0 - 40
2335685	Myclobutanil	12.4	Spike	P	0 - 21
2335685	Naled	20.1	Spike	P	0 - 26
2335685	Napropamide	26.1	Spike	P	0 - 30
2335685	Norflurazon	4.93	Spike	P	0 - 24
2335685	Oxadiazon	8.32	Spike	P	0 - 27
2335685	Oxyfluorfen	3.01	Spike	P	0 - 24
2335685	Parathion Ethyl	3.40	Spike	P	0 - 28
2335685	Parathion Methyl	1.43	Spike	P	0 - 27
2335685	Pendimethalin	3.29	Spike	P	0 - 31

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P415527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2335685	Phenytoin	104	Spike	F	0 - 30
2335685	Phorate	13.1	Spike	P	0 - 27
2335685	Prodiamine	5.34	Spike	P	0 - 52
2335685	Prometon	6.56	Spike	P	0 - 31
2335685	Prometryn	7.35	Spike	P	0 - 28
2335685	Pronamide	0.709	Spike	P	0 - 26
2335685	Propanil	20.1	Spike	P	0 - 30
2335685	Propargite	21.6	Spike	P	0 - 30
2335685	Propiconazole	8.18	Spike	P	0 - 31
2335685	Pyraflufen Ethyl	0.376	Spike	P	0 - 30
2335685	Pyridaben	2.89	Spike	P	0 - 30
2335685	Pyriproxyfen	10.7	Spike	P	0 - 50
2335685	Simazine	0.874	Spike	P	0 - 29
2335685	Stirophos	12.0	Spike	P	0 - 30
2335685	Sulfentrazone	2.59	Spike	P	0 - 33
2335685	Tebuconazole	11.9	Spike	P	0 - 44
2335685	Terbufos	13.0	Spike	P	0 - 29
2335685	Terbuthylazine	0.639	Spike	P	0 - 27
2335685	Thiobencarb	14.6	Spike	P	0 - 30
2335685	Triadimefon	1.23	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P415743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336507	Aldrin	8.52	Spike	P	0 - 37
2336507	Alpha-BHC	2.27	Spike	P	0 - 16
2336507	Alpha-Chlordane	1.80	Spike	P	0 - 28
2336507	Beta-BHC	2.40	Spike	P	0 - 32
2336507	Beta-Cyfluthrin	16.3	Spike	P	0 - 41
2336507	Bifenthrin	1.36	Spike	P	0 - 36
2336507	Carbophenothion	10.5	Spike	P	0 - 30
2336507	Chlorothalonil	14.9	Spike	P	0 - 54
2336507	Cis-Nonachlor	1.70	Spike	P	0 - 33
2336507	Cypermethrin	17.3	Spike	P	0 - 38
2336507	Dacthal	5.01	Spike	P	0 - 23
2336507	DDD-p,p'	9.97	Spike	P	0 - 35
2336507	DDE-p,p'	0.840	Spike	P	0 - 27
2336507	DDT-p,p'	2.08	Spike	P	0 - 31
2336507	Delta-BHC	1.70	Spike	P	0 - 30
2336507	Deltamethrin	17.6	Spike	P	0 - 76
2336507	Dichlobenil	0.942	Spike	P	0 - 33
2336507	Dicofol	0.155	Spike	P	0 - 24
2336507	Dieldrin	4.04	Spike	P	0 - 35
2336507	Endosulfan I	7.01	Spike	P	0 - 25
2336507	Endosulfan II	9.85	Spike	P	0 - 31
2336507	Endosulfan Sulfate	11.1	Spike	P	0 - 38
2336507	Endrin	6.38	Spike	P	0 - 53
2336507	Endrin Aldehyde	8.33	Spike	P	0 - 81
2336507	Endrin Ketone	0.401	Spike	P	0 - 33

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P415743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336507	Esfenvalerate	13.5	Spike	P	0 - 46
2336507	Ethalfuralin	7.93	Spike	P	0 - 22
2336507	Fenpropathrin	7.19	Spike	P	0 - 29
2336507	Gamma-BHC	0.316	Spike	P	0 - 17
2336507	Gamma-Chlordane	4.10	Spike	P	0 - 28
2336507	Heptachlor	12.1	Spike	P	0 - 28
2336507	Heptachlor Epoxide	0.643	Spike	P	0 - 23
2336507	Hexachlorobenzene	8.71	Spike	P	0 - 22
2336507	Kepone	14.7	Spike	P	0 - 61
2336507	Lambda-Cyhalothrin	5.33	Spike	P	0 - 52
2336507	Methoprene	2.47	Spike	P	0 - 38
2336507	Methoxychlor	2.08	Spike	P	0 - 29
2336507	MGK-264	15.7	Spike	P	0 - 41
2336507	Mirex	3.65	Spike	P	0 - 39
2336507	Oxychlordane	5.45	Spike	P	0 - 33
2336507	Permethrin	22.0	Spike	P	0 - 39
2336507	Phenothrin	6.13	Spike	P	0 - 52
2336507	Piperonyl Butoxide	14.1	Spike	P	0 - 91
2336507	Prallethrin	12.6	Spike	P	0 - 34
2336507	Tau-Fluvalinate	9.27	Spike	P	0 - 41
2336507	Tetramethrin	19.2	Spike	P	0 - 43
2336507	Trans-Nonachlor	5.25	Spike	P	0 - 31
2336507	Triclosan Methyl	3.11	Spike	P	0 - 24
2336507	Trifluralin	1.51	Spike	P	0 - 23

Reference Method: EPA 8276

Batch ID: P415743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336762	Chlordane	6.52	Spike	P	0 - 25
2336762	Toxaphene	0.00717	Spike	P	0 - 24

Reference Method: EPA 8321B

Batch ID: P415552

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336418	Acesulfame K	1.51	Spike	P	0 - 30
2336418	AMPA	2.10	Spike	P	0 - 30
2336418	Endothall	0.328	Spike	P	0 - 30
2336418	Glufosinate	2.77	Spike	P	0 - 30
2336418	Glyphosate	4.43	Spike	P	0 - 30
2336418	Sucralose	2.69	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P415624

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336373	2,4-D	4.24	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P415624

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336373	2,4,5-T	2.72	Spike	P	0 - 30
2336373	Acetaminophen	1.77	Spike	P	0 - 30
2336373	Acetamiprid	4.00	Spike	P	0 - 30
2336373	Afidopyropen	6.71	Spike	P	0 - 30
2336373	Bentazon	10.4	Spike	P	0 - 30
2336373	Benzovindiflupyr	7.67	Spike	P	0 - 30
2336373	Carbamazepine	1.82	Spike	P	0 - 30
2336373	Clothianidin	6.67	Spike	P	0 - 30
2336373	Dinotefuran	1.36	Spike	P	0 - 30
2336373	Diuron	15.1	Spike	P	0 - 30
2336373	Fenuron	2.13	Spike	P	0 - 30
2336373	Fluridone	2.46	Spike	P	0 - 30
2336373	Hydrocodone	0.155	Spike	P	0 - 30
2336373	Ibuprofen	6.86	Spike	P	0 - 30
2336373	Imazapyr	15.4	Spike	P	0 - 30
2336373	Imidacloprid	5.26	Spike	P	0 - 30
2336373	Linuron	4.27	Spike	P	0 - 30
2336373	Mandestrobin	2.53	Spike	P	0 - 30
2336373	MCPP	0.891	Spike	P	0 - 30
2336373	Naproxen	1.78	Spike	P	0 - 30
2336373	Primidone	10.3	Spike	P	0 - 30
2336373	Pyraclostrobin	0.595	Spike	P	0 - 30
2336373	Silvex	2.83	Spike	P	0 - 30
2336373	Thiamethoxam	3.14	Spike	P	0 - 30
2336373	Tolfenpyrad	3.71	Spike	P	0 - 30
2336373	Triclopyr	8.43	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P415664

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336088	3-Hydroxycarbofuran	4.49	Spike	P	0 - 30
2336088	Aldicarb	32.5	Spike	F	0 - 30
2336088	Aldicarb Sulfone	3.21	Spike	P	0 - 30
2336088	Aldicarb Sulfoxide	7.56	Spike	P	0 - 30
2336088	Carbaryl	9.70	Spike	P	0 - 30
2336088	Carbofuran	4.77	Spike	P	0 - 30
2336088	Methiocarb	4.43	Spike	P	0 - 30
2336088	Methomyl	7.61	Spike	P	0 - 30
2336088	Oxamyl	2.17	Spike	P	0 - 30
2336088	Propoxur	7.52	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P415769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2335322	Total Alkalinity	0.391	Sample	P	0 - 3.8

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P415954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336989	Total Alkalinity	0.202	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P415904

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336312	TDS	3.25	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P415896

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336184	TSS	7.59	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P415773

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333620	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P415962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336989	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P415819

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336586	Organic Carbon	2.61	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P415856

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336489	Organic Carbon	1.08	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2336600
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	69.9	P	30 - 160

Lab Sample ID: 2336601
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	65.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	106	P	30 - 160
EPA 8321B	Diuron-d6	82.9	P	30 - 160
EPA 8321B	Endothall-d6	63.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	70.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.7	P	30 - 160
EPA 8321B	Primidone-d5	93.9	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	30 - 160

Lab Sample ID: 2336602
Field Sample ID: G3TLHR0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	64.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	95.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	100	P	30 - 160
EPA 8321B	Diuron-d6	88.0	P	30 - 160
EPA 8321B	Endothall-d6	70.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	38.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.3	P	30 - 160
EPA 8321B	Primidone-d5	78.7	P	30 - 160
EPA 8321B	Sucralose-d6	75.1	P	30 - 160

Lab Sample ID: 2336603
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	73.9	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	55.9	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	62.0	P	30 - 97.0
EPA 8276	PCNB	92.2	P	45 - 119

Lab Sample ID: 2336604
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	32.6	P	20 - 200
EPA 8270E	Simazine-d10	72.6	P	71 - 140
EPA 8270E	Terbufos-d10	83.3	P	62 - 131

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A113019

Included Lab Sample IDs: 2336573, 2336576, 2336579, 2336582, 2336585

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	101	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A113022

Included Lab Sample IDs: 2336576, 2336579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	101	P/P	85 - 115
Color (true)	99.7	101	P/P	85 - 115

Reference Method: EPA 8321B

Run ID: A113044

Included Lab Sample IDs: 2336601, 2336602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	73.9	73.0	P/P	60 - 160
Acesulfame K	76.8	73.9	P/P	60 - 160
Sucralose	95.2	95.4	P/P	60 - 160
Sucralose	95.4	91.6	P/P	60 - 160

Reference Method: SM 2320 B-2011

Run ID: A113067

Included Lab Sample IDs: 2336573, 2336582, 2336585

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	97.9	P/P	90 - 110
Total Alkalinity	97.9	101	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A113067

Included Lab Sample IDs: 2336573, 2336582, 2336585

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

Reference Method: EPA 8321B

Run ID: A113093

Included Lab Sample IDs: 2336601, 2336602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	87.1	90.1	P/P	60 - 160
AMPA	92.5	94.4	P/P	60 - 160
Glufosinate	66.7	72.5	P/P	60 - 160
Glufosinate	67.5	74.7	P/P	60 - 160
Glyphosate	86.5	92.2	P/P	60 - 160
Glyphosate	89.2	94.2	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A113094

Included Lab Sample IDs: 2336601, 2336602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endothall	60.7	62.0	P/P	60 - 160
Endothall	62.0	61.1	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A113098

Included Lab Sample IDs: 2336574, 2336583, 2336586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	96.0	P/P	90 - 110
Organic Carbon	96.0	101	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A113129

Included Lab Sample IDs: 2336577, 2336580

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.0	99.8	P/P	90 - 110
Organic Carbon	99.8	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113131

Included Lab Sample IDs: 2336604

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.9		P	80 - 120
Alachlor	97.4		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine Desethyl	98.3		P	80 - 120
Azinphos Methyl	90.9		P	80 - 120
Azoxystrobin	94.7		P	80 - 120
Bromacil	97.9		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	97.8		P	80 - 120
Carbophenothion	88.5		P	80 - 120
Carfentrazone Ethyl	89.1		P	80 - 120
Chlorfenapyr	96.7		P	80 - 120
Chlorpyrifos Ethyl	81.2		P	80 - 120
Chlorpyrifos Methyl	88.8		P	80 - 120
Coumaphos	98.2		P	80 - 120
Cyanazine	91.0		P	80 - 120
Cyprodinil	92.5		P	80 - 120
Demeton	95.5		P	80 - 120
Diazinon	102		P	80 - 120
Difenoconazole	87.9		P	80 - 120
Dimethenamid	98.1		P	80 - 120
Dimethomorph	97.4		P	80 - 120
Disulfoton	87.8		P	80 - 120
Dithiopyr	98.8		P	80 - 120
EPTC	99.7		P	80 - 120
Ethion	80.7		P	80 - 120
Ethoprop	88.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113131
Included Lab Sample IDs: 2336604

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Etridiazole	99.0		P	80 - 120
Fenamiphos	86.3		P	80 - 120
Fenbuconazole	87.7		P	80 - 120
Fipronil	98.2		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	100		P	80 - 120
Fludioxonil	96.6		P	80 - 120
Flumioxazin	85.2		P	80 - 120
Flutolanil	91.0		P	80 - 120
Fluxapyroxad	92.0		P	80 - 120
Fonofos	104		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	92.1		P	80 - 120
Iprodione	92.9		P	80 - 120
Loratadine	107		P	80 - 120
Malathion	96.0		P	80 - 120
Metalaxyl	95.1		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	99.1		P	80 - 120
Mevinphos	94.1		P	80 - 120
Molinate	104		P	80 - 120
Myclobutanil	99.5		P	80 - 120
Naled	97.9		P	80 - 120
Napropamide	95.0		P	80 - 120
Norflurazon	93.7		P	80 - 120
Oxadiazon	107		P	80 - 120
Oxyfluorfen	94.3		P	80 - 120
Parathion Ethyl	94.1		P	80 - 120
Parathion Methyl	96.6		P	80 - 120
Pendimethalin	95.8		P	80 - 120
Phenytoin	87.7		P	80 - 120
Phorate	93.6		P	80 - 120
Prodiamine	103		P	80 - 120
Prometon	95.2		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	91.8		P	80 - 120
Propargite	94.1		P	80 - 120
Propiconazole	91.4		P	80 - 120
Pyraflufen Ethyl	97.2		P	80 - 120
Pyridaben	88.5		P	80 - 120
Pyriproxyfen	93.2		P	80 - 120
Simazine	98.1		P	80 - 120
Stirophos	94.7		P	80 - 120
Sulfentrazone	98.5		P	80 - 120
Tebuconazole	87.7		P	80 - 120
Terbufos	93.1		P	80 - 120
Terbuthylazine	93.3		P	80 - 120
Thiobencarb	86.7		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
 Run ID: A113131
 Included Lab Sample IDs: 2336604

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

Reference Method: EPA 350.1 Rev. 2.0
 Run ID: A113138
 Included Lab Sample IDs: 2336577, 2336580

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	99.2	P/P	90 - 110

Reference Method: EPA 8321B
 Run ID: A113154
 Included Lab Sample IDs: 2336601, 2336602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	103	95.4	P/P	50 - 150
2,4-D	95.4	105	P/P	50 - 150
2,4,5-T	101	97.7	P/P	50 - 150
2,4,5-T	97.7	88.4	P/P	50 - 150
3-Hydroxycarbofuran	98.6	96.1	P/P	60 - 150
Acetaminophen	104	107	P/P	60 - 160
Acetaminophen	98.6	104	P/P	60 - 160
Acetamiprid	102	104	P/P	50 - 150
Acetamiprid	98.9	102	P/P	50 - 150
Afidopyropen	104	82.4	P/P	50 - 150
Afidopyropen	87.3	104	P/P	50 - 150
Aldicarb	93.8	94.5	P/P	60 - 150
Aldicarb Sulfone	105	107	P/P	50 - 150
Aldicarb Sulfoxide	103	105	P/P	50 - 150
Bentazon	108	99.1	P/P	50 - 160
Bentazon	99.1	99.6	P/P	50 - 160
Benzovindiflupyr	104	106	P/P	50 - 150
Benzovindiflupyr	106	103	P/P	50 - 150
Carbamazepine	103	104	P/P	60 - 150
Carbamazepine	104	109	P/P	60 - 150
Carbaryl	113	101	P/P	60 - 150
Carbofuran	109	101	P/P	50 - 150
Clothianidin	92.4	96.7	P/P	60 - 150
Clothianidin	96.7	93.3	P/P	60 - 150
Dinotefuran	104	103	P/P	50 - 150
Dinotefuran	98.8	104	P/P	50 - 150
Diuron	100	118	P/P	60 - 160
Diuron	118	101	P/P	60 - 160
Fenuron	96.0	94.4	P/P	60 - 150
Fenuron	97.5	96.0	P/P	60 - 150
Fluridone	104	106	P/P	60 - 160
Fluridone	106	107	P/P	60 - 160
Hydrocodone	101	104	P/P	60 - 150
Hydrocodone	104	100	P/P	60 - 150
Ibuprofen	70.1	72.6	P/P	50 - 160
Ibuprofen	72.6	116	P/P	50 - 160
Imazapyr	87.7	89.4	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A113154

Included Lab Sample IDs: 2336601, 2336602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imazapyr	88.1	87.7	P/P	50 - 150
Imidacloprid	110	103	P/P	60 - 150
Imidacloprid	91.2	110	P/P	60 - 150
Linuron	89.4	104	P/P	60 - 150
Linuron	98.8	89.4	P/P	60 - 150
Mandestrobin	99.5	99.8	P/P	50 - 150
Mandestrobin	99.8	100	P/P	50 - 150
MCPP	106	98.6	P/P	50 - 150
MCPP	98.6	91.5	P/P	50 - 150
Methiocarb	111	107	P/P	50 - 150
Methomyl	100	97.7	P/P	50 - 150
Naproxen	106	115	P/P	50 - 160
Naproxen	115	120	P/P	50 - 160
Oxamyl	101	101	P/P	50 - 150
Primidone	107	107	P/P	60 - 150
Primidone	99.0	107	P/P	60 - 150
Propoxur	101	97.2	P/P	50 - 150
Pyraclostrobin	101	99.9	P/P	60 - 150
Pyraclostrobin	100	101	P/P	60 - 150
Silvex	91.3	90.4	P/P	50 - 150
Silvex	95.1	91.3	P/P	50 - 150
Thiamethoxam	101	95.8	P/P	50 - 150
Thiamethoxam	95.8	99.0	P/P	50 - 150
Tolfenpyrad	95.2	95.1	P/P	60 - 150
Tolfenpyrad	99.0	95.2	P/P	60 - 150
Triclopyr	106	97.2	P/P	50 - 150
Triclopyr	97.2	106	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A113156

Included Lab Sample IDs: 2336576, 2336579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	99.2	P/P	90 - 110
Sulfate	100	99.3	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A113157

Included Lab Sample IDs: 2336576, 2336579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.9	101	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A113157

Included Lab Sample IDs: 2336576, 2336579

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113221

Included Lab Sample IDs: 2336574, 2336577, 2336580, 2336583, 2336586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	105	P/P	90 - 110
Kjeldahl Nitrogen	104	96.9	P/P	90 - 110
Kjeldahl Nitrogen	105	104	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113249

Included Lab Sample IDs: 2336603

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	103		P	80 - 120
Alpha-BHC	99.9		P	80 - 120
Alpha-Chlordane	106		P	80 - 120
Beta-BHC	99.9		P	80 - 120
Beta-Cyfluthrin	107		P	80 - 120
Bifenthrin	99.8		P	80 - 120
Carbophenothion	102		P	80 - 120
Chlorothalonil	92.2		P	80 - 120
Cis-Nonachlor	101		P	80 - 120
Cypermethrin	95.8		P	80 - 120
Dacthal	106		P	80 - 120
DDD-p,p'	104		P	80 - 120
DDE-p,p'	108		P	80 - 120
DDT-p,p'	99.4		P	80 - 120
Delta-BHC	95.4		P	80 - 120
Deltamethrin	95.9		P	80 - 120
Dichlobenil	98.3		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	105		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	103		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	97.1		P	80 - 120
Endrin Ketone	105		P	80 - 120
Esfenvalerate	98.8		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	106		P	80 - 120
Gamma-BHC	99.9		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	99.6		P	80 - 120
Heptachlor Epoxide	104		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	56.7*		F	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoprene	99.0		P	80 - 120
Methoxychlor	93.8		P	80 - 120
MGK-264	98.7		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	98.7		P	80 - 120
Permethrin	104		P	80 - 120
Phenothrin	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113249
Included Lab Sample IDs: 2336603

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Piperonyl Butoxide	89.5		P	80 - 120
Prallethrin	96.2		P	80 - 120
Tau-Fluvalinate	100		P	80 - 120
Tetramethrin	94.2		P	80 - 120
Trans-Nonachlor	108		P	80 - 120
Triclosan Methyl	105		P	80 - 120
Trifluralin	96.8		P	80 - 120

Reference Method: EPA 8270E
Run ID: A113265
Included Lab Sample IDs: 2336604

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	99.8		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A113275
Included Lab Sample IDs: 2336574, 2336583, 2336586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.4	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A113279
Included Lab Sample IDs: 2336574, 2336577, 2336580, 2336583, 2336586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	98.8	P/P	90 - 110
Total-P	99.5	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A113299
Included Lab Sample IDs: 2336574, 2336583, 2336586

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

Reference Method: EPA 8276
Run ID: A113306
Included Lab Sample IDs: 2336603

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.4		P	80 - 120
Toxaphene	88.4		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A113334
Included Lab Sample IDs: 2336577, 2336580

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

Quality Assurance Report

Calibration Verification

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	99.2				1.17	
	Color (true)	99.2				3.17	
EPA 180.1 Rev. 2.0	Turbidity	97.1				1.96	
EPA 300.0 Rev. 2.1	Chloride	98.9	98.7	97.4		0.252	
	Sulfate	98.9	96.2	94.9		0.160	
EPA 350.1 Rev. 2.0	Ammonia-N	98.6	98.4	95.2			2.96
	Ammonia-N	97.8	103	104			0.624
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	99.1	106			5.76
	Kjeldahl Nitrogen	99.5	98.0	99.8			1.49
EPA 353.2 Rev. 2.0	NO2NO3-N	104	106	106			0.0
	NO2NO3-N	100	98.4	98.4			0.0
EPA 365.1 Rev. 2.0	Total-P	101	101	100			0.360
	Total-P	102	95.5	96.2			0.713
	Total-P	102	102	104			1.91
EPA 8270E	Acetochlor	84.5	76.6	87.2			12.9
	Alachlor	77.1	65.9	80.8			20.4
	Aldrin	57.2	50.7	55.2			8.52
	Alpha-BHC	92.1	92.2	94.3			2.27
	Alpha-Chlordane	88.4	65.2	64.1			1.80
	Ametryn	90.5	88.5	62.8			27.2
	Atrazine	78.6					3.59
	Atrazine Desethyl	42.0	42.0	40.0			4.88
	Azinphos Methyl	95.9	59.4	137			79.3
	Azoxystrobin	85.9	83.2	97.0			15.4
	Beta-BHC	104	114	117			2.40
	Beta-Cyfluthrin	96.6	79.8	94.0			16.3
	Bifenthrin	72.2	73.7	72.7			1.36
	Bromacil	65.7	51.6	50.7			1.81
	Butylate	45.1	40.3	36.2			10.9
	Caffeine	83.6	88.7	83.3			6.08
	Carbophenothion	93.5	99.4	97.4			1.95
	Carbophenothion	63.6	69.9	77.7			10.5
	Carfentrazone Ethyl	108	102	110			6.99
	Chlorfenapyr	67.5	62.8	55.4			12.5
	Chlorothalonil	82.1	30.2	35.1			14.9
	Chlorpyrifos Ethyl	61.4	52.4	56.8			8.08
	Chlorpyrifos Methyl	75.7	65.2	67.1			2.87
	Cis-Nonachlor	70.6	61.6	60.6			1.70
	Coumaphos	174	159	145			9.59
	Cyanazine	77.6	65.3	71.6			9.18
	Cypermethrin	84.9	73.1	86.9			17.3
	Cyprodinil	72.9	64.1	69.7			8.36
	Dacthal	93.4	84.5	88.9			5.01
	DDD-p,p'	74.3	60.0	66.3			9.97
	DDE-p,p'	87.5	68.7	68.1			0.840
	DDT-p,p'	74.5	62.1	63.4			2.08
	Delta-BHC	123	140	138			1.70
	Deltamethrin	88.8	77.3	92.2			17.6
	Demeton	63.4	64.4	57.2			11.9
	Diazinon	116	100	114			12.4
	Dichlobenil	101	67.5	66.9			0.942
	Dicofol	69.6	60.1	60.2			0.155
	Dieldrin	87.7	63.0	65.8			4.04
	Difenoconazole	91.7	193	203			4.70

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Dimethenamid	72.4	66.6	71.0			6.31
	Dimethomorph	92.3	102	82.0			21.4
	Disulfoton	83.1	73.2	69.5			5.13
	Dithiopyr	89.5	84.6	81.0			4.33
	Endosulfan I	94.5	78.0	83.7			7.01
	Endosulfan II	79.9	62.5	69.0			9.85
	Endosulfan Sulfate	89.8	75.0	83.8			11.1
	Endrin	76.7	64.5	68.7			6.38
	Endrin Aldehyde	83.8	54.7	59.4			8.33
	Endrin Ketone	88.6	80.0	80.3			0.401
	EPTC	47.6	37.9	33.8			11.4
	Esfenvalerate	87.8	81.1	92.8			13.5
	Ethalfuralin	75.3	66.1	71.6			7.93
	Ethion	55.2	44.4	53.2			18.1
	Ethoprop	87.8	74.2	76.4			3.01
	Etridiazole	49.7	57.2	46.7			20.1
	Fenamiphos	81.4	81.8	70.5			14.8
	Fenbuconazole	135	127	127			0.0177
	Fenpropathrin	77.1	75.3	70.1			7.19
	Fipronil	85.5	75.1	84.9			10.2
	Fipronil Desulfinyl	93.8	99.3	85.5			9.62
	Fipronil Sulfide	89.6					12.6
	Fipronil Sulfone	86.1					2.00
	Fluazifop-P-butyl	85.6	75.5	72.6			3.83
	Fludioxonil	82.4	71.5	78.0			8.74
	Flumioxazin	214	128	157			17.3
	Flutolanil	77.6	65.0	74.7			13.9
	Fluxapyroxad	66.4	43.3	65.2			40.4
	Fonofos	74.6	72.3	59.8			19.0
	Gamma-BHC	99.9	104	104			0.316
	Gamma-Chlordane	82.8	61.2	63.8			4.10
	Heptachlor	65.7	51.2	57.8			12.1
	Heptachlor Epoxide	88.2	76.5	77.0			0.643
	Hexachlorobenzene	77.2	59.4	64.8			8.71
	Hexazinone	85.6	68.1	76.6			10.8
	Imazalil	72.6	66.8	59.3			11.9
	Iprodione	84.0	133	134			0.832
	Kepone	50.7	33.1	38.4			14.7
	Lambda-Cyhalothrin	91.5	88.5	93.4			5.33
	Loratadine	98.0	127	78.3			47.7
	Malathion	96.5	79.6	86.5			8.24
	Metalaxyl	77.7	68.4	67.4			1.42
	Methoprene	80.3	62.6	64.1			2.47
	Methoxychlor	77.3	67.4	66.0			2.08
	Metolachlor	89.5	77.6	80.9			4.08
	Metribuzin	78.1	68.3	76.6			11.5
	Mevinphos	68.0	54.9	59.0			7.12
	MGK-264	89.3	74.7	87.4			15.7
	Mirex	63.0	56.7	54.7			3.65
	Molinate	60.3	54.2	48.1			11.8
	Myclobutanil	82.9	71.1	81.3			12.4
	Naled	69.8	60.5	74.0			20.1
	Napropamide	61.8	45.2	58.8			26.1
	Norflurazon	114	104	99.3			4.93

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Oxadiazon	85.0	74.4	65.5		8.32
	Oxychlordane	81.8	64.7	68.4		5.45
	Oxyfluorfen	97.9	95.3	98.2		3.01
	Parathion Ethyl	86.1	70.6	73.0		3.40
	Parathion Methyl	98.9	95.4	94.1		1.43
	Pendimethalin	80.0	74.8	77.3		3.29
	Permethrin	99.4	103	83.0		22.0
	Phenothrin	73.5	83.8	78.8		6.13
	Phenytol	45.9	17.3	54.9		104
	Phorate	81.6	65.6	57.6		13.1
	Piperonyl Butoxide	94.6	96.5	83.7		14.1
	Prallethrin	84.2	81.8	72.1		12.6
	Prodiamine	76.6	80.6	85.1		5.34
	Prometon	69.4	70.5	75.3		6.56
	Prometryn	80.1	72.5	67.4		7.35
	Pronamide	102	95.6	96.3		0.709
	Propanil	65.2	54.2	66.3		20.1
	Propargite	149	132	164		21.6
	Propiconazole	114	106	92.1		8.18
	Pyraflufen Ethyl	111	119	120		0.376
	Pyridaben	150	155	160		2.89
	Pyriproxyfen	93.6	70.0	62.8		10.7
	Simazine	74.0	59.2	58.7		0.874
	Stirophos	71.4	49.9	56.3		12.0
	Sulfentrazone	118	114	118		2.59
	Tau-Fluvalinate	77.7	82.4	75.1		9.27
	Tebuconazole	110	93.4	108		11.9
	Terbufos	84.8	90.3	79.3		13.0
	Terbutylazine	90.2	80.6	81.1		0.639
	Tetramethrin	97.0	119	98.1		19.2
	Thiobencarb	75.2	63.6	73.6		14.6
	Trans-Nonachlor	87.6	67.0	63.6		5.25
	Triadimefon	66.5	64.6	65.4		1.23
	Triclosan Methyl	88.3	67.8	70.0		3.11
	Trifluralin	76.5	69.9	71.0		1.51
EPA 8276	Chlordane	98.5	103	96.3		6.52
	Toxaphene	111	107	107		0.0071
EPA 8321B	2,4-D	77.2	82.8	79.4		4.24
	2,4,5-T	45.4	52.7	51.3		2.72
	3-Hydroxycarbofuran	71.9	85.1	89.0		4.49
	Acesulfame K	81.1	74.2	75.3		1.51
	Acetaminophen	88.8	107	105		1.77
	Acetamiprid	85.3	96.5	100		4.00
	Afidopyropen	68.6	80.2	75.0		6.71
	Aldicarb	60.4	53.1	73.7		32.5
	Aldicarb Sulfone	85.5	95.1	98.2		3.21
	Aldicarb Sulfoxide	83.8	49.6	53.5		7.56
	AMPA	95.8	77.0	75.1		2.10
	Bentazon	80.6	78.6	70.9		10.4
	Benzovindiflupyr	87.1	86.8	80.4		7.67
	Carbamazepine	92.2	93.4	95.1		1.82
	Carbaryl	75.0	73.0	80.5		9.70
	Carbofuran	82.1	78.1	82.0		4.77
	Clothianidin	92.6	81.4	87.0		6.67

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Dinotefuran	93.4	107	109		1.36
	Diuron	99.4	98.9	85.0		15.1
	Endothall	78.1	80.5	80.7		0.328
	Fenuron	89.8	85.0	86.8		2.13
	Fluridone	86.5	88.1	85.9		2.46
	Glufosinate	96.9	81.6	79.4		2.77
	Glyphosate	96.7	70.1	66.3		4.43
	Hydrocodone	86.7	92.8	92.7		0.155
	Ibuprofen	80.1	68.7	73.5		6.86
	Imazapyr	98.8	78.7	92.9		15.4
	Imidacloprid	97.1	109	115		5.26
	Linuron	81.7	76.2	79.5		4.27
	Mandestrobin	82.8	84.9	82.8		2.53
	MCPP	72.3	73.7	73.0		0.891
	Methiocarb	72.1	75.0	78.4		4.43
	Methomyl	74.3	77.8	84.0		7.61
	Naproxen	53.6	69.5	70.8		1.78
	Oxamyl	81.7	86.1	88.0		2.17
	Primidone	84.4	102	92.4		10.3
	Propoxur	68.6	72.2	66.9		7.52
	Pyraclostrobin	71.6	77.4	77.8		0.595
	Silvex	48.8	60.0	61.7		2.83
	Sucralose	99.6	90.9	95.3		2.69
	Thiamethoxam	88.1	100	97.1		3.14
	Tolfenpyrad	40.0	41.9	43.5		3.71
	Triclopyr	50.0	58.0	53.3		8.43
SM 2320 B-2011	Total Alkalinity	102				0.391
	Total Alkalinity	101				0.202
SM 2540 C-2011	TDS					3.25
SM 2540 D-2011	TSS					7.59
SM 4500-F- C-2011	Fluoride	98.9	99.0	99.0		0.0
	Fluoride	99.8	101	101		0.0
SM 5310 B-2011	Organic Carbon	97.7	92.6	90.0		2.61
	Organic Carbon	96.6	96.5	98.0		1.08

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2336576, 2336579
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2336573, 2336576, 2336579, 2336582, 2336585
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2336576, 2336579
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2336576, 2336579
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2336574, 2336577, 2336580, 2336583, 2336586
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2336574, 2336577, 2336580, 2336583, 2336586
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2336574, 2336577, 2336580, 2336583, 2336586
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2336574, 2336577, 2336580, 2336583, 2336586
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2336603
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2336604

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2336603
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2336600
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2336601, 2336602
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2336573, 2336576, 2336579, 2336582, 2336585
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2336576, 2336579
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2336573, 2336576, 2336579, 2336582, 2336585
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2336573, 2336576, 2336579, 2336582, 2336585
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2336574, 2336577, 2336580, 2336583, 2336586

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	06/22/2022			06/23/2022 16:02	Anna M. Plaviak	2336579
	06/22/2022			06/23/2022 16:27	Anna M. Plaviak	2336576
EPA 180.1 Rev. 2.0	06/22/2022			06/23/2022 09:53	Khloe J Berg	2336573
	06/22/2022			06/23/2022 09:54	Khloe J Berg	2336576
	06/22/2022			06/23/2022 09:55	Khloe J Berg	2336579
	06/22/2022			06/23/2022 09:56	Khloe J Berg	2336582
	06/22/2022			06/23/2022 09:58	Khloe J Berg	2336585
EPA 300.0 Rev. 2.1	06/22/2022			06/28/2022 22:26	Anna M. Plaviak	2336576
	06/22/2022			06/28/2022 22:38	Anna M. Plaviak	2336579
EPA 350.1 Rev. 2.0	06/22/2022			06/28/2022 12:02	Ping Hua	2336577
	06/22/2022			06/28/2022 12:04	Ping Hua	2336580
	06/22/2022			07/01/2022 10:33	Judith K. Clark	2336574
	06/22/2022			07/01/2022 10:34	Judith K. Clark	2336583
EPA 351.2 Rev. 2.0	06/22/2022			07/01/2022 10:36	Judith K. Clark	2336586
	06/22/2022	06/29/2022 14:45	Samantha L Bates	06/30/2022 14:21	Alexandra J Mattheus	2336574
	06/22/2022	06/29/2022 14:45	Samantha L Bates	06/30/2022 14:26	Alexandra J Mattheus	2336583
	06/22/2022	06/29/2022 14:45	Samantha L Bates	06/30/2022 14:28	Alexandra J Mattheus	2336586
	06/22/2022	06/29/2022 14:45	Samantha L Bates	06/30/2022 14:47	Alexandra J Mattheus	2336577
EPA 353.2 Rev. 2.0	06/22/2022	06/29/2022 14:45	Samantha L Bates	06/30/2022 14:52	Alexandra J Mattheus	2336580
	06/22/2022			07/05/2022 16:18	Touraj Touran	2336574
	06/22/2022			07/05/2022 16:19	Touraj Touran	2336583
	06/22/2022			07/05/2022 16:20	Touraj Touran	2336586
	06/22/2022			07/07/2022 12:04	Judith K. Clark	2336577
EPA 365.1 Rev. 2.0	06/22/2022			07/07/2022 12:10	Judith K. Clark	2336580
	06/22/2022	06/30/2022 14:54	Adam P Silver	07/05/2022 12:59	Simonne.V. Calhoun	2336577
	06/22/2022	06/30/2022 14:54	Adam P Silver	07/05/2022 13:01	Simonne.V. Calhoun	2336586
	06/22/2022	06/30/2022 14:54	Adam P Silver	07/05/2022 13:10	Simonne.V. Calhoun	2336574
	06/22/2022	06/30/2022 14:54	Adam P Silver	07/05/2022 13:11	Simonne.V. Calhoun	2336583
EPA 8270E	06/22/2022	06/30/2022 14:54	Adam P Silver	07/05/2022 13:18	Simonne.V. Calhoun	2336580
	06/22/2022	06/23/2022 10:00	Fe-Val Siddell	06/27/2022 01:07	Michael Poppell	2336604
	06/22/2022	06/23/2022 10:00	Fe-Val Siddell	07/02/2022 00:25	Michael Poppell	2336604
EPA 8276	06/22/2022	06/27/2022 09:00	Fe-Val Siddell	06/30/2022 20:05	Michael Poppell	2336603
	06/22/2022	06/27/2022 09:00	Fe-Val Siddell	07/04/2022 16:14	Julie Wi	2336603
EPA 8321B	06/22/2022	06/23/2022 10:30	Umesh Chiluwal	06/23/2022 14:06	Umesh Chiluwal	2336601
	06/22/2022	06/23/2022 10:30	Umesh Chiluwal	06/23/2022 16:46	Umesh Chiluwal	2336602
	06/22/2022	06/23/2022 10:30	Umesh Chiluwal	06/24/2022 01:16	Umesh Chiluwal	2336601
	06/22/2022	06/23/2022 10:30	Umesh Chiluwal	06/24/2022 05:23	Umesh Chiluwal	2336602
	06/22/2022	06/23/2022 10:30	Umesh Chiluwal	06/24/2022 19:03	Umesh Chiluwal	2336601
	06/22/2022	06/23/2022 10:30	Umesh Chiluwal	06/24/2022 22:05	Umesh Chiluwal	2336602
	06/22/2022	06/24/2022 10:00	June Rhew	06/24/2022 21:47	Juyoung Kim	2336601

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	06/22/2022	06/24/2022 10:00	June Rhew	06/24/2022 22:29	Juyoung Kim	2336602
	06/22/2022	06/27/2022 09:00	June Rhew	06/27/2022 19:56	Juyoung Kim	2336600
SM 2320 B-2011	06/22/2022			06/25/2022 20:32	Dale L. Simmons	2336573
	06/22/2022			06/25/2022 21:30	Dale L. Simmons	2336582
	06/22/2022			06/25/2022 21:43	Dale L. Simmons	2336585
	06/22/2022			06/28/2022 22:09	Dale L. Simmons	2336576
	06/22/2022			06/28/2022 22:22	Dale L. Simmons	2336579
SM 2540 C-2011	06/22/2022			06/24/2022 15:21	Yijie Li	2336576, 2336579
SM 2540 D-2011	06/22/2022			06/24/2022 15:21	Yijie Li	2336573, 2336576, 2336579, 2336582, 2336585
SM 4500-F- C-2011	06/22/2022			06/25/2022 17:43	Dale L. Simmons	2336573
	06/22/2022			06/25/2022 17:48	Dale L. Simmons	2336582
	06/22/2022			06/25/2022 17:53	Dale L. Simmons	2336585
	06/22/2022			06/28/2022 22:09	Dale L. Simmons	2336576
	06/22/2022			06/28/2022 22:22	Dale L. Simmons	2336579
SM 5310 B-2011	06/22/2022			06/24/2022 22:11	Khloe J Berg	2336586
	06/22/2022			06/25/2022 03:14	Khloe J Berg	2336574
	06/22/2022			06/25/2022 03:33	Khloe J Berg	2336583
	06/22/2022			06/27/2022 17:28	Khloe J Berg	2336577
	06/22/2022			06/27/2022 18:14	Khloe J Berg	2336580