Chemical Analysis Report

SW-DIST-2022-11-10-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Run 8**
Request ID: **RQ-2022-11-07-31**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

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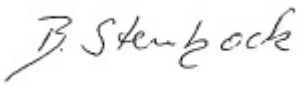
Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 07-DEC-2022 12:07



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: Mobley Ditch at 70 **Collection Date/Time: 11/09/2022 12:25**

Field ID: G3SW0056 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2369169	DEP SOP: NU-094-1	Color (true)	320		PCU	P422216	
	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P422214	
	EPA 300.0 Rev. 2.1	Chloride	100		mg Cl/L	P422829	
		Sulfate	45		mg SO4/L	P422833	
	SM 2320 B-2011	Total Alkalinity	149		mg CaCO3/L	P422794	
	SM 2540 C-2015	TDS	486		mg/L	P422674	
	SM 2540 D-2015	TSS	6	I	mg/L	P422562	RPD
	SM 4500-F- C-2011	Fluoride	0.15		mg F/L	P422643	
2369170	EPA 350.1 Rev. 2.0	Ammonia-N	3.0		mg N/L	P422915	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	6.0		mg N/L	P422450	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10		mg N/L	P422485	
	EPA 365.1 Rev. 2.0	Total-P	4.1		mg P/L	P422387	
	SM 5310 B-2011	Organic Carbon	39		mg C/L	P422755	
2369171	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	3.8		mg P/L	P422230	
2369175	EPA 8321B	Aldicarb	0.020	U	ug/L	P422229	
		Aldicarb Sulfone	0.0020	U	ug/L	P422229	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P422229	
		Carbaryl	0.0020	U	ug/L	P422229	
		Carbofuran	0.0020	U	ug/L	P422229	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P422229	
		Methiocarb	0.0020	U	ug/L	P422229	
		Methomyl	0.0020	U	ug/L	P422229	
		Oxamyl	0.0020	U	ug/L	P422229	
		Propoxur	0.0020	U	ug/L	P422229	
2369176		2,4-D	0.0020	I	ug/L	P422267	
		Acesulfame K	0.10	U	ug/L	P422132	
		2,4,5-T	0.0040	U	ug/L	P422267	
		AMPA	0.24	I	ug/L	P422132	
		Acetaminophen	0.0080	U	ug/L	P422267	
		Acetamiprid	0.0020	U	ug/L	P422267	
		Endothall	0.25	U	ug/L	P422132	MS
		Glufosinate	0.10	U	ug/L	P422132	
		Glyphosate	0.31	I	ug/L	P422132	
		Afidopyropen	0.0020	U	ug/L	P422267	
		Bentazon	8.0E-04	U	ug/L	P422267	
		Sucralose	0.14		ug/L	P422132	
		Benzovindiflupyr	0.0020	U	ug/L	P422267	
		Carbamazepine	8.0E-04	U	ug/L	P422267	
		Clothianidin	0.0020	U	ug/L	P422267	
		Dinotefuran	0.0078	I	ug/L	P422267	
		Diuron	0.0020	U	ug/L	P422267	
		Fenuron	0.032	U	ug/L	P422267	
		Fluridone	8.0E-04	U	ug/L	P422267	

Field ID: G3SW0056 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2369176	EPA 8321B	Imazapyr	0.0040	U	ug/L	P422267	
		Hydrocodone	0.0020	U	ug/L	P422267	
		Ibuprofen	0.20	U	ug/L	P422267	
		Imidacloprid	0.0065	I	ug/L	P422267	MS
		Linuron	0.0040	U	ug/L	P422267	
		Mandestrobin	0.0020	U	ug/L	P422267	
		MCPP	0.0040	U	ug/L	P422267	
		Naproxen	0.0080	U	ug/L	P422267	
		Primidone	0.0040	U	ug/L	P422267	
		Pyraclostrobin	0.0020	U	ug/L	P422267	
		Silvex	0.0040	U	ug/L	P422267	
		Thiamethoxam	0.0020	U	ug/L	P422267	
		Tolfenpyrad	0.0020	U	ug/L	P422267	
		Triclopyr	0.0040	U	ug/L	P422267	
2369177	EPA 8270E	Aldrin	0.71	U	ng/L	P422430	
		Alpha-BHC	0.11	U	ng/L	P422430	
		Alpha-Chlordane	0.22	U	ng/L	P422430	
		PCB-1016	2.2	U	ng/L	P422430	
		Beta-BHC	0.11	U	ng/L	P422430	
		PCB-1221	2.2	U	ng/L	P422430	
		Beta-Cyfluthrin	1.4	U	ng/L	P422430	
		PCB-1232	2.2	U	ng/L	P422430	
		Bifenthrin	0.55	U	ng/L	P422430	
		PCB-1242	2.2	U	ng/L	P422430	
		PCB-1248	2.2	U	ng/L	P422430	
		Chlorothalonil	1.4	U	ng/L	P422430	
		PCB-1254	2.2	U	ng/L	P422430	
		Cis-Nonachlor	0.22	U	ng/L	P422430	
		PCB-1260	2.2	U	ng/L	P422430	
		Cypermethrin	1.6	U	ng/L	P422430	
		Dacthal	0.16	U	ng/L	P422430	
		DDD-p,p'	0.27	U	ng/L	P422430	
		DDE-p,p'	0.22	U	ng/L	P422430	
		DDT-p,p'	0.27	U	ng/L	P422430	
		Delta-BHC	0.44	U	ng/L	P422430	
		Deltamethrin	1.4	U	ng/L	P422430	
		Dichlobenil	0.27	U	ng/L	P422430	
		Dicofol	1.4	U	ng/L	P422430	
		Dieldrin	0.44	U	ng/L	P422430	
		Endosulfan I	0.44	U	ng/L	P422430	
		Endosulfan II	0.44	U	ng/L	P422430	
		Endosulfan Sulfate	0.33	U	ng/L	P422430	
		Endrin	0.44	U	ng/L	P422430	
		Endrin Aldehyde	0.82	U	ng/L	P422430	
		Endrin Ketone	0.44	U	ng/L	P422430	

Field ID: G3SW0056 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2369177	EPA 8270E	Esfenvalerate	0.82	U	ng/L	P422430	
		Ethalfluralin	0.16	U	ng/L	P422430	
		Fenpropathrin	0.27	U	ng/L	P422430	
		Gamma-BHC	0.14	U	ng/L	P422430	
		Gamma-Chlordane	0.22	U	ng/L	P422430	
		Heptachlor	0.22	U	ng/L	P422430	
		Heptachlor Epoxide	0.27	U	ng/L	P422430	
		Hexachlorobenzene**	1.1	U	ng/L	P422430	
		Kepone	5.5	U	ng/L	P422430	
		Lambda-Cyhalothrin	0.82	U	ng/L	P422430	
		Methoprene	0.82	U	ng/L	P422430	
		Methoxychlor	0.33	U	ng/L	P422430	
		MGK-264	0.22	U	ng/L	P422430	
		Mirex	0.38	U	ng/L	P422430	
		Oxychlordane	0.33	U	ng/L	P422430	
		Permethrin	1.8	U	ng/L	P422430	
		Phenothrin	0.99	U	ng/L	P422430	
		Piperonyl Butoxide	0.16	U	ng/L	P422430	
		Prallethrin	2.2	U	ng/L	P422430	
		Tau-Fluvalinate	0.27	U	ng/L	P422430	
		Tetramethrin	0.82	U	ng/L	P422430	
		Trans-Nonachlor	0.22	U	ng/L	P422430	
		Triclosan Methyl	0.16	U	ng/L	P422430	
		Trifluralin	0.22	U	ng/L	P422430	
	EPA 8276	Chlordane	2.2	U	ng/L	P422430	
		Toxaphene	16	U	ng/L	P422430	
2369178	EPA 8270E	Oxybenzone**	9.9	U	ng/L	P422447	
		Acetochlor	0.25	U	ng/L	P422447	
		Octinoxate**	20	UQ	ng/L	P422985	
		Alachlor	0.25	U	ng/L	P422447	
		Avobenzone**	99	U	ng/L	P422447	
		Ametryn	1.3	I	ng/L	P422447	
		Atrazine	1.2		ng/L	P422447	
		PBDE-47**	4.0	U	ng/L	P422447	
		Atrazine Desethyl	1.5	U	ng/L	P422447	
		PBDE-99**	5.0	U	ng/L	P422447	
		Azinphos Methyl	2.0	U	ng/L	P422447	
		Tri-o-cresyl Phosphate**	6.0	U	ng/L	P422447	
		Azoxystrobin	1.1	I	ng/L	P422447	
		Bromacil	0.50	U	ng/L	P422447	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P422447	
		Butylate	0.40	U	ng/L	P422447	
		Dechlorane Plus**	30	U	ng/L	P422447	
		Caffeine**	28	I	ng/L	P422447	

Field ID: G3SW0056 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2369178	EPA 8270E	Carbophenothion	0.20	U	ng/L	P422447	
		Carfentrazone Ethyl	0.099	U	ng/L	P422447	
		Chlorfenapyr	0.17	U	ng/L	P422447	
		Chlorpyrifos Ethyl	1.6		ng/L	P422447	
		Chlorpyrifos Methyl	0.050	U	ng/L	P422447	
		Coumaphos	0.50	U	ng/L	P422447	
		Cyanazine	3.2	U	ng/L	P422447	
		Cyprodinil	0.099	U	ng/L	P422447	
		Demeton	1.5	U	ng/L	P422447	
		Diazinon	0.12	U	ng/L	P422447	
		Difenoconazole	0.60	U	ng/L	P422447	
		Dimethenamid	0.099	U	ng/L	P422447	
		Dimethomorph	0.17	U	ng/L	P422447	
		Disulfoton	0.50	U	ng/L	P422447	
		Dithiopyr	0.62	U	ng/L	P422447	
		EPTC	1.2	U	ng/L	P422447	
		Ethion	0.15	U	ng/L	P422447	
		Ethoprop	0.099	U	ng/L	P422447	
		Etridiazole	0.15	U	ng/L	P422447	
		Fenamiphos	0.50	U	ng/L	P422447	
		Fenbuconazole	0.12	U	ng/L	P422447	
		Fipronil	0.25	U	ng/L	P422447	
		Fipronil Desulfinyl**	0.12	U	ng/L	P422447	
		Fipronil Sulfide	0.15	U	ng/L	P422447	
		Fipronil Sulfone	0.15	U	ng/L	P422447	
		Fluazifop-P-butyl	0.099	U	ng/L	P422447	
		Fludioxonil	0.12	U	ng/L	P422447	
		Flumioxazin	4.5	U	ng/L	P422447	
		Flutolanil	0.099	U	ng/L	P422447	
		Fluxapyroxad	0.099	U	ng/L	P422447	
		Fonofos	0.20	U	ng/L	P422447	
		Hexazinone	3.1		ng/L	P422447	
		Imazalil	0.74	U	ng/L	P422447	
		Iprodione	0.60	U	ng/L	P422447	
		Loratadine**	0.35	U	ng/L	P422447	
		Malathion	0.35	U	ng/L	P422447	
		Metalaxyl	0.74	U	ng/L	P422447	
		Metolachlor	1.5		ng/L	P422447	
		Metribuzin	1.5	U	ng/L	P422447	
		Mevinphos	1.0	U	ng/L	P422447	
		Molinate	0.30	U	ng/L	P422447	
		Myclobutanil	0.25	U	ng/L	P422447	
		Naled	1.5	U	ng/L	P422447	
		Napropamide	0.40	U	ng/L	P422447	MS
		Norflurazon	0.50	U	ng/L	P422447	

Field ID: G3SW0056 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2369178	EPA 8270E	Oxadiazon	1.0	I	ng/L	P422447	
		Oxyfluorfen	0.15	U	ng/L	P422447	
		Parathion Ethyl	0.25	U	ng/L	P422447	
		Parathion Methyl	0.55	U	ng/L	P422447	
		Pendimethalin	0.99	U	ng/L	P422447	
		Phenytoin**	3.5	U	ng/L	P422447	
		Phorate	0.52	U	ng/L	P422447	
		Prodiamine	0.17	U	ng/L	P422447	
		Prometon	0.89	U	ng/L	P422447	
		Prometryn	0.20	U	ng/L	P422447	
		Pronamide	0.15	U	ng/L	P422447	
		Propanil	0.12	U	ng/L	P422447	
		Propargite	1.5	U	ng/L	P422447	
		Propiconazole	0.50	U	ng/L	P422447	
		Pyraflufen Ethyl	0.25	U	ng/L	P422447	
		Pyridaben	0.45	U	ng/L	P422447	
		Pyriproxyfen	0.12	U	ng/L	P422447	
		Simazine	0.50	U	ng/L	P422447	
		Stirophos	0.12	U	ng/L	P422447	
		Sulfentrazone	0.50	U	ng/L	P422447	
		Tebuconazole	1.3	I	ng/L	P422447	
		Terbufos	0.099	U	ng/L	P422447	
		Terbuthylazine	0.42	U	ng/L	P422447	
		Thiobencarb	0.60	U	ng/L	P422447	
		Triadimefon	0.25	U	ng/L	P422447	

Ref. Method and Comment:
EPA 8270E: Sample expired for preparation for octinoxate due to need for re-extraction. Insufficient sample available to perform duplicate matrix spikes in re-extraction.
EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P422216

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P422214

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422829

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422833

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422915

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422450

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422485

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422387

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P422230

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P422430

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
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
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P422430

Component	Result	Code	Units
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	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P422430

Component	Result	Code	Units
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: P422447

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P422447

Component	Result	Code	Units
Dechlorane Plus	30	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	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P422447

Component	Result	Code	Units
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	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	1.5	U	ng/L
Metribuzin	1.5	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
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P422447

Component	Result	Code	Units
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
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E
Batch ID: P422985

Component	Result	Code	Units
Octinoxate	82		ng/L
Octinoxate	71		ng/L

Reference Method: EPA 8276
Batch ID: P422430

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B
Batch ID: P422132

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P422132

Component	Result	Code	Units
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: P422229

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: P422267

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	0.20	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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P422794

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

Reference Method: SM 2540 C-2015
Batch ID: P422674

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P422562

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P422643

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P422755

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: P422216

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.5		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P422214

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422829

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422833

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422915

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422450

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422485

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422387

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: P422230

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P422430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	62.1		P	10 - 92.0
Alpha-BHC	101		P	75 - 107
Alpha-Chlordane	91.6		P	50 - 108
Beta-BHC	120		P	36 - 138
Beta-Cyfluthrin	74.4		P	20 - 161
Bifenthrin	50.9		P	10 - 119
Chlorothalonil	114		P	26 - 186
Cis-Nonachlor	72.7		P	42 - 119
Cypermethrin	75.9		P	22 - 150
Dacthal	93.4		P	72 - 119
DDD-p,p'	88.3		P	45 - 107
DDE-p,p'	83.4		P	48 - 106
DDT-p,p'	76.5		P	48 - 110
Delta-BHC	117		P	54 - 140
Deltamethrin	74.8		P	22 - 189
Dichlobenil	97.8		P	36 - 117
Dicofol	87.8		P	46 - 155
Dieldrin	85.5		P	54 - 110
Endosulfan I	82.2		P	59 - 105
Endosulfan II	94.1		P	51 - 118
Endosulfan Sulfate	103		P	57 - 121
Endrin	80.7		P	10 - 120
Endrin Aldehyde	81.6		P	34 - 118
Endrin Ketone	101		P	69 - 177
Esfenvalerate	72.2		P	23 - 168
Ethalfluralin	76.3		P	49 - 99.0
Fenpropathrin	81.4		P	34 - 117
Gamma-BHC	94.8		P	72 - 117
Gamma-Chlordane	88.5		P	43 - 106
Heptachlor	70.6		P	41 - 98.0
Heptachlor Epoxide	89.2		P	57 - 106
Hexachlorobenzene	73.9		P	36 - 99.0
Kepone	120		P	16 - 215
Lambda-Cyhalothrin	65.8		P	21 - 177
Methoprene	73.2		P	10 - 119
Methoxychlor	81.4		P	60 - 112
MGK-264	104		P	26 - 122
Mirex	60.8		P	10 - 169
Oxychlordane	80.0		P	43 - 105
PCB-1016	70.5		P	48 - 112
PCB-1260	68.2		P	44 - 118
Permethrin	72.8		P	24 - 148
Phenothrin	59.3		P	10 - 106
Piperonyl Butoxide	78.1		P	10 - 139
Prallethrin	101		P	17 - 109
Tau-Fluvalinate	58.3		P	13 - 131
Tetramethrin	105		P	10 - 132
Trans-Nonachlor	72.9		P	44 - 106
Triclosan Methyl	80.9		P	59 - 109
Trifluralin	78.2		P	44 - 101

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P422447

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	125		P	42 - 162
Acetochlor	110		P	69 - 123
Alachlor	108		P	65 - 118
Ametryn	137		P	58 - 141
Atrazine	115		P	73 - 118
Atrazine Desethyl	96.1		P	32 - 125
Avobenzone	146		P	40 - 203
Azinphos Methyl	146		P	36 - 197
Azoxystrobin	124		P	58 - 226
Bromacil	90.3		P	48 - 120
Butylate	75.9		P	27 - 85.0
Caffeine	73.7		P	40 - 137
Carbophenothion	88.2		P	54 - 132
Carfentrazone Ethyl	140		P	60 - 142
Chlorfenapyr	108		P	53 - 117
Chlorpyrifos Ethyl	83.7		P	59 - 116
Chlorpyrifos Methyl	116		P	66 - 119
Coumaphos	170		P	11 - 234
Cyanazine	164		P	61 - 248
Cyprodinil	114		P	50 - 147
Dechlorane Plus	137		P	47 - 182
Demeton	131		P	30 - 138
Diazinon	122		P	67 - 126
Difenoconazole	175		P	38 - 205
Dimethenamid	87.9		P	57 - 111
Dimethomorph	105		P	16 - 212
Disulfoton	108		P	46 - 126
Dithiopyr	76.5		P	62 - 115
EPTC	74.2		P	28 - 80.0
Ethion	74.8		P	24 - 122
Ethoprop	110		P	62 - 113
Etridiazole	90.6		P	28 - 92.0
Fenamiphos	92.1		P	57 - 128
Fenbuconazole	133		P	52 - 155
Fipronil	80.6		P	63 - 130
Fipronil Desulfinyl	123		P	61 - 130
Fipronil Sulfide	67.8		P	56 - 117
Fipronil Sulfone	78.7		P	52 - 118
Fluazifop-P-butyl	80.6		P	61 - 128
Fludioxonil	128		P	59 - 129
Flumioxazin	178		P	30 - 250
Flutolanil	85.2		P	53 - 127
Fluxapyroxad	112		P	42 - 132
Fonofos	82.2		P	61 - 110
Hexazinone	120		P	46 - 139
Imazalil	100		P	40 - 139
Iprodione	143		P	40 - 146
Loratadine	150		P	10 - 224
Malathion	128		P	61 - 135
Metalaxyl	120		P	58 - 121
Metolachlor	78.4		P	64 - 118
Metribuzin	115		P	45 - 245

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P422447

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mevinphos	105		P	49 - 118
Molinate	86.2		P	42 - 92.0
Myclobutanil	94.3		P	55 - 127
Naled	103		P	10 - 114
Napropamide	119		P	39 - 121
Norflurazon	96.8		P	55 - 129
Oxadiazon	95.4		P	54 - 115
Oxybenzone	92.7		P	49 - 135
Oxyfluorfen	138		P	64 - 139
Parathion Ethyl	108		P	70 - 111
Parathion Methyl	119		P	76 - 136
PBDE-47	109		P	41 - 148
PBDE-99	108		P	38 - 147
Pendimethalin	102		P	52 - 118
Phenytoin	118		P	10 - 162
Phorate	102		P	40 - 122
Prodiamine	116		P	26 - 141
Prometon	121		P	54 - 122
Prometryn	107		P	61 - 128
Pronamide	85.3		P	72 - 121
Propanil	96.4		P	45 - 144
Propargite	173		P	10 - 199
Propiconazole	104		P	56 - 127
Pyraflufen Ethyl	94.0		P	56 - 140
Pyridaben	164		P	26 - 211
Pyriproxyfen	190		P	33 - 194
Simazine	113		P	67 - 121
Stirophos	133		P	20 - 142
Sulfentrazone	136		P	21 - 144
Tebuconazole	106		P	10 - 122
Terbufos	93.0		P	60 - 129
Terbuthylazine	71.0		P	69 - 113
Thiobencarb	119		P	51 - 120
Tri-o-cresyl Phosphate	105		P	49 - 150
Triadimefon	106		P	56 - 114

Reference Method: EPA 8270E
Batch ID: P422985

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Octinoxate	109	96.0	P/P	26 - 166

Reference Method: EPA 8276
Batch ID: P422430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	78.6		P	53 - 126
Toxaphene	87.0		P	56 - 211

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P422132

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	138		P	40 - 150
AMPA	94.7		P	40 - 150
Endothall	113		P	40 - 150
Glufosinate	76.5		P	40 - 150
Glyphosate	82.4		P	40 - 150
Sucralose	101		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P422229

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	92.1		P	40 - 150
Aldicarb	75.3		P	30 - 150
Aldicarb Sulfone	105		P	40 - 150
Aldicarb Sulfoxide	103		P	40 - 150
Carbaryl	71.6		P	40 - 150
Carbofuran	82.5		P	40 - 150
Methiocarb	83.6		P	40 - 150
Methomyl	99.4		P	40 - 150
Oxamyl	97.2		P	40 - 150
Propoxur	78.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P422267

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	107		P	40 - 150
2,4,5-T	85.1		P	40 - 150
Acetaminophen	91.7		P	30 - 150
Acetamiprid	95.7		P	40 - 150
Afidopyropen	74.1		P	30 - 150
Bentazon	97.1		P	30 - 150
Benzovindiflupyr	80.3		P	40 - 150
Carbamazepine	83.0		P	40 - 150
Clothianidin	96.2		P	40 - 150
Dinotefuran	101		P	40 - 150
Diuron	79.8		P	40 - 150
Fenuron	102		P	40 - 150
Fluridone	108		P	40 - 150
Hydrocodone	111		P	40 - 150
Ibuprofen	69.7		P	40 - 150
Imazapyr	119		P	40 - 150
Imidacloprid	104		P	40 - 150
Linuron	88.4		P	40 - 150
Mandestrobin	93.3		P	40 - 150
MCPP	95.3		P	40 - 150
Naproxen	80.3		P	40 - 150
Primidone	105		P	40 - 150
Pyraclostrobin	82.9		P	40 - 150
Silvex	79.7		P	40 - 150
Thiamethoxam	101		P	40 - 150
Tolfenpyrad	52.3		P	30 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P422267

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	86.1		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P422794

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.5		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P422674

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.7		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P422562

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.1		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P422643

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.9		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P422755

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.0		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422829

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369118	Chloride	97.0		P	90 - 110
2369236	Chloride	98.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422833

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369118	Sulfate	94.4		P	90 - 110
2369236	Sulfate	95.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369182	Ammonia-N	94.4	95.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422450

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369086	Kjeldahl Nitrogen	100	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422485

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369182	NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422387

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369156	Total-P	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P422230

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369080	O-Phosphate-P	98.7	97.7	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P422430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369122	Aldrin	69.3	69.1	P/P	20 - 82.0
2369122	Alpha-BHC	95.2	94.4	P/P	71 - 109
2369122	Alpha-Chlordane	86.5	94.0	P/P	42 - 106
2369122	Beta-BHC	115	112	P/P	69 - 180
2369122	Beta-Cyfluthrin	92.7	98.1	P/P	18 - 175
2369122	Bifenthrin	83.3	84.0	P/P	21 - 128
2369122	Chlorothalonil	146	147	P/P	10 - 300
2369122	Cis-Nonachlor	74.5	80.4	P/P	34 - 106

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P422430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369122	Cypermethrin	92.9	100	P/P	22 - 158
2369122	Dacthal	87.3	89.6	P/P	54 - 116
2369122	DDD-p,p'	82.5	88.6	P/P	34 - 107
2369122	DDE-p,p'	78.5	81.6	P/P	33 - 110
2369122	DDT-p,p'	80.0	80.7	P/P	50 - 122
2369122	Delta-BHC	135	133	P/P	77 - 193
2369122	Deltamethrin	95.3	106	P/P	10 - 195
2369122	Dichlobenil	70.5	67.9	P/P	25 - 113
2369122	Dicofol	89.8	84.4	P/P	38 - 247
2369122	Dieldrin	78.3	80.7	P/P	45 - 118
2369122	Endosulfan I	76.6	84.9	P/P	51 - 106
2369122	Endosulfan II	85.0	88.9	P/P	37 - 122
2369122	Endosulfan Sulfate	87.5	93.0	P/P	43 - 132
2369122	Endrin	84.1	85.8	P/P	29 - 101
2369122	Endrin Aldehyde	58.3	62.2	P/P	19 - 110
2369122	Endrin Ketone	83.2	81.3	P/P	60 - 140
2369122	Esfenvalerate	93.3	97.2	P/P	26 - 199
2369122	Ethalfluralin	78.5	69.5	P/P	45 - 99.0
2369122	Fenpropathrin	83.9	81.4	P/P	35 - 120
2369122	Gamma-BHC	88.6	93.1	P/P	63 - 128
2369122	Gamma-Chlordane	89.8	102	P/P	40 - 104
2369122	Heptachlor	75.9	77.3	P/P	36 - 97.0
2369122	Heptachlor Epoxide	79.8	90.1	P/P	49 - 184
2369122	Hexachlorobenzene	81.1	80.5	P/P	39 - 96.0
2369122	Kepone	85.5	96.7	P/P	10 - 217
2369122	Lambda-Cyhalothrin	88.4	93.9	P/P	21 - 193
2369122	Methoprene	86.4	87.9	P/P	20 - 106
2369122	Methoxychlor	78.7	74.8	P/P	53 - 118
2369122	MGK-264	101	100	P/P	40 - 118
2369122	Mirex	74.4	77.9	P/P	26 - 92.0
2369122	Oxychlordane	80.6	85.6	P/P	44 - 99.0
2369122	Permethrin	86.2	92.1	P/P	33 - 182
2369122	Phenothrin	77.3	92.4	P/P	10 - 129
2369122	Piperonyl Butoxide	91.8	89.7	P/P	10 - 211
2369122	Prallethrin	94.0	95.5	P/P	24 - 113
2369122	Tau-Fluvalinate	89.1	92.5	P/P	14 - 149
2369122	Tetramethrin	137	137	P/P	17 - 151
2369122	Trans-Nonachlor	70.9	84.3	P/P	42 - 102
2369122	Triclosan Methyl	73.1	84.2	P/P	48 - 108
2369122	Trifluralin	81.7	77.9	P/P	47 - 96.0
2369177	PCB-1016	72.8	74.8	P/P	46 - 111
2369177	PCB-1260	64.7	67.2	P/P	45 - 114

Reference Method: EPA 8270E
Batch ID: P422447

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369424	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	115	122	P/P	26 - 165
2369424	Acetochlor	84.2	93.3	P/P	67 - 124
2369424	Alachlor	85.3	88.2	P/P	60 - 120
2369424	Ametryn	107	136	P/P	54 - 216
2369424	Atrazine Desethyl	73.2	103	P/P	15 - 122

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P422447

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369424	Avobenzone	144	151	P/P	37 - 178
2369424	Azinphos Methyl	147	157	P/P	40 - 292
2369424	Azoxystrobin	98.2	114	P/P	35 - 220
2369424	Bromacil	76.0	78.1	P/P	45 - 127
2369424	Butylate	71.0	80.6	P/P	20 - 83.0
2369424	Caffeine	78.7	85.2	P/P	10 - 194
2369424	Carbophenothion	87.9	85.8	P/P	57 - 127
2369424	Carfentrazone Ethyl	115	103	P/P	51 - 141
2369424	Chlorfenapyr	105	104	P/P	46 - 111
2369424	Chlorpyrifos Ethyl	78.3	86.4	P/P	52 - 120
2369424	Chlorpyrifos Methyl	85.6	98.6	P/P	63 - 119
2369424	Coumaphos	136	137	P/P	10 - 228
2369424	Cyanazine	163	179	P/P	59 - 241
2369424	Cyprodinil	125	134	P/P	47 - 146
2369424	Dechlorane Plus	114	102	P/P	50 - 150
2369424	Demeton	128	132	P/P	40 - 136
2369424	Diazinon	104	107	P/P	69 - 132
2369424	Difenoconazole	137	142	P/P	57 - 258
2369424	Dimethenamid	69.4	75.9	P/P	54 - 110
2369424	Dimethomorph	103	120	P/P	28 - 210
2369424	Disulfoton	97.9	112	P/P	43 - 133
2369424	Dithiopyr	72.6	77.4	P/P	39 - 116
2369424	EPTC	62.8	65.3	P/P	20 - 78.0
2369424	Ethion	64.3	66.7	P/P	17 - 119
2369424	Ethoprop	115	118	P/P	66 - 120
2369424	Etridiazole	91.3	78.6	P/P	28 - 96.0
2369424	Fenamiphos	86.2	91.3	P/P	41 - 126
2369424	Fenbuconazole	104	106	P/P	42 - 169
2369424	Fipronil	85.3	93.2	P/P	61 - 132
2369424	Fipronil Desulfinyl	121	126	P/P	56 - 132
2369424	Fipronil Sulfide	72.1	84.3	P/P	48 - 119
2369424	Fipronil Sulfone	81.7	92.3	P/P	42 - 131
2369424	Fluazifop-P-butyl	68.6	78.3	P/P	53 - 131
2369424	Fludioxonil	92.2	100	P/P	56 - 127
2369424	Flumioxazin	150	145	P/P	19 - 300
2369424	Flutolanil	74.1	84.2	P/P	41 - 127
2369424	Fluxapyroxad	108	105	P/P	42 - 172
2369424	Fonofos	91.9	101	P/P	59 - 113
2369424	Imazalil	103	118	P/P	21 - 283
2369424	Iprodione	142	148	P/P	43 - 150
2369424	Loratadine	120	120	P/P	23 - 201
2369424	Malathion	95.3	97.9	P/P	58 - 136
2369424	Metalaxyl	97.4	107	P/P	55 - 120
2369424	Metribuzin	120	122	P/P	58 - 294
2369424	Mevinphos	111	116	P/P	50 - 126
2369424	Molinate	83.0	92.0	P/P	42 - 93.0
2369424	Myclobutanil	92.1	102	P/P	55 - 125
2369424	Naled	85.2	112	P/P	18 - 200
2369424	Napropamide	96.0	114	P/F	39 - 110
2369424	Norflurazon	60.8	57.6	P/P	48 - 128
2369424	Oxybenzone	80.5	82.4	P/P	41 - 142
2369424	Oxyfluorfen	127	144	P/P	64 - 153

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P422447

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369424	Parathion Ethyl	96.6	104	P/P	69 - 114
2369424	Parathion Methyl	119	120	P/P	79 - 139
2369424	PBDE-47	105	110	P/P	27 - 144
2369424	PBDE-99	95.4	101	P/P	18 - 150
2369424	Pendimethalin	86.3	85.8	P/P	50 - 139
2369424	Phenytoin	103	99.5	P/P	10 - 146
2369424	Phorate	95.8	109	P/P	54 - 161
2369424	Prodiamine	108	110	P/P	30 - 161
2369424	Prometon	110	125	P/P	45 - 134
2369424	Prometryn	103	114	P/P	45 - 137
2369424	Pronamide	82.7	84.5	P/P	65 - 133
2369424	Propanil	102	102	P/P	49 - 142
2369424	Propargite	155	173	P/P	10 - 203
2369424	Propiconazole	103	97.7	P/P	38 - 146
2369424	Pyraflufen Ethyl	90.6	88.2	P/P	34 - 153
2369424	Pyridaben	177	182	P/P	12 - 192
2369424	Pyriproxyfen	175	168	P/P	33 - 180
2369424	Simazine	113	119	P/P	51 - 157
2369424	Stirophos	113	113	P/P	10 - 128
2369424	Tebuconazole	102	103	P/P	10 - 133
2369424	Terbufos	120	130	P/P	65 - 139
2369424	Terbuthylazine	71.0	79.7	P/P	66 - 117
2369424	Thiobencarb	107	103	P/P	51 - 119
2369424	Tri-o-cresyl Phosphate	95.2	102	P/P	31 - 144
2369424	Triadimefon	108	104	P/P	48 - 119

Reference Method: EPA 8270E
Batch ID: P422985

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369387	Octinoxate	88.7		P	21 - 159

Reference Method: EPA 8276
Batch ID: P422430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2369177	Chlordane	72.4	69.4	P/P	53 - 126
2369177	Toxaphene	80.4	70.9	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P422132

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368761	Acesulfame K	78.7	67.9	P/P	40 - 150
2368761	AMPA	75.8	80.1	P/P	40 - 150
2368761	Endothall	203	207	F/F	40 - 150
2368761	Glufosinate	84.2	84.3	P/P	40 - 150
2368761	Glyphosate	103	99.3	P/P	40 - 150
2368761	Sucralose	109	104	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P422229

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368922	3-Hydroxycarbofuran	78.9	88.3	P/P	40 - 150
2368922	Aldicarb	38.4	40.5	P/P	30 - 150
2368922	Aldicarb Sulfone	95.2	112	P/P	40 - 150
2368922	Aldicarb Sulfoxide	43.5	50.1	P/P	40 - 150
2368922	Carbaryl	44.8	45.8	P/P	40 - 150
2368922	Carbofuran	47.8	51.1	P/P	40 - 150
2368922	Methiocarb	57.0	61.7	P/P	40 - 150
2368922	Methomyl	73.1	87.1	P/P	40 - 150
2368922	Oxamyl	74.9	88.7	P/P	40 - 150
2368922	Propoxur	44.5	48.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P422267

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368560	2,4-D	115	114	P/P	40 - 150
2368560	2,4,5-T	82.9	82.1	P/P	40 - 150
2368560	Acetaminophen	115	94.5	P/P	30 - 150
2368560	Acetamiprid	90.3	92.7	P/P	40 - 150
2368560	Afidopyropen	69.5	75.7	P/P	30 - 150
2368560	Bentazon	83.6	81.4	P/P	30 - 150
2368560	Benzovindiflupyr	80.4	83.6	P/P	40 - 150
2368560	Carbamazepine	84.4	82.4	P/P	40 - 150
2368560	Clothianidin	106	101	P/P	40 - 150
2368560	Dinotefuran	128	110	P/P	40 - 150
2368560	Diuron	72.6	73.4	P/P	40 - 150
2368560	Fenuron	99.5	96.8	P/P	40 - 150
2368560	Fluridone	103	100	P/P	40 - 150
2368560	Hydrocodone	121	111	P/P	40 - 150
2368560	Ibuprofen	75.3	84.0	P/P	40 - 150
2368560	Imazapyr	122	103	P/P	40 - 150
2368560	Imidacloprid	155	145	F/P	40 - 150
2368560	Linuron	86.7	75.5	P/P	40 - 150
2368560	Mandestrobin	90.8	91.1	P/P	40 - 150
2368560	MCPP	92.8	89.0	P/P	40 - 150
2368560	Naproxen	76.9	81.0	P/P	40 - 150
2368560	Primidone	97.8	93.8	P/P	40 - 150
2368560	Pyraclostrobin	88.5	85.6	P/P	40 - 150
2368560	Silvex	84.5	80.6	P/P	40 - 150
2368560	Thiamethoxam	128	124	P/P	40 - 150
2368560	Tolfenpyrad	58.2	55.9	P/P	30 - 150
2368560	Triclopyr	84.7	80.3	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P422643

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368966	Fluoride	102	100	P/P	94 - 104

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P422755

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368941	Organic Carbon	96.4	96.7	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P422216

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369118	Color (true)	9.27	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P422214

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369118	Turbidity	6.32	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369118	Chloride	0.152	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422833

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369118	Sulfate	0.0331	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369182	Ammonia-N	0.670	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422450

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369086	Kjeldahl Nitrogen	1.50	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422485

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369182	NO2NO3-N	0.454	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422387

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369156	Total-P	0.761	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P422230

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369080	O-Phosphate-P	0.974	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P422430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369122	Aldrin	0.260	Spike	P	0 - 41
2369122	Alpha-BHC	0.874	Spike	P	0 - 25
2369122	Alpha-Chlordane	8.34	Spike	P	0 - 33
2369122	Beta-BHC	2.90	Spike	P	0 - 36
2369122	Beta-Cyfluthrin	5.72	Spike	P	0 - 42
2369122	Bifenthrin	0.874	Spike	P	0 - 53
2369122	Chlorothalonil	0.569	Spike	P	0 - 71
2369122	Cis-Nonachlor	7.61	Spike	P	0 - 29
2369122	Cypermethrin	7.40	Spike	P	0 - 40
2369122	Dacthal	2.55	Spike	P	0 - 26
2369122	DDD-p,p'	7.07	Spike	P	0 - 39
2369122	DDE-p,p'	3.88	Spike	P	0 - 33
2369122	DDT-p,p'	0.904	Spike	P	0 - 40
2369122	Delta-BHC	1.10	Spike	P	0 - 37
2369122	Deltamethrin	10.2	Spike	P	0 - 100
2369122	Dichlobenil	3.68	Spike	P	0 - 40
2369122	Dicofol	6.14	Spike	P	0 - 31
2369122	Dieldrin	2.80	Spike	P	0 - 27
2369122	Endosulfan I	10.3	Spike	P	0 - 23
2369122	Endosulfan II	4.51	Spike	P	0 - 28
2369122	Endosulfan Sulfate	6.06	Spike	P	0 - 38
2369122	Endrin	2.04	Spike	P	0 - 63
2369122	Endrin Aldehyde	6.45	Spike	P	0 - 60
2369122	Endrin Ketone	2.34	Spike	P	0 - 37
2369122	Esfenvalerate	4.06	Spike	P	0 - 52
2369122	Ethalfluralin	12.2	Spike	P	0 - 23
2369122	Fenpropathrin	3.08	Spike	P	0 - 32
2369122	Gamma-BHC	4.93	Spike	P	0 - 17
2369122	Gamma-Chlordane	12.7	Spike	P	0 - 40
2369122	Heptachlor	1.74	Spike	P	0 - 29
2369122	Heptachlor Epoxide	10.0	Spike	P	0 - 25
2369122	Hexachlorobenzene	0.797	Spike	P	0 - 36
2369122	Kepone	12.2	Spike	P	0 - 93
2369122	Lambda-Cyhalothrin	5.99	Spike	P	0 - 55
2369122	Methoprene	1.78	Spike	P	0 - 53
2369122	Methoxychlor	5.01	Spike	P	0 - 29
2369122	MGK-264	0.701	Spike	P	0 - 35
2369122	Mirex	4.68	Spike	P	0 - 46
2369122	Oxychlordane	6.08	Spike	P	0 - 29
2369122	Permethrin	6.59	Spike	P	0 - 44
2369122	Phenothrin	17.8	Spike	P	0 - 56
2369122	Piperonyl Butoxide	2.31	Spike	P	0 - 100
2369122	Prallethrin	1.58	Spike	P	0 - 42
2369122	Tau-Fluvalinate	3.71	Spike	P	0 - 54

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P422430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369122	Tetramethrin	0.653	Spike	P	0 - 51
2369122	Trans-Nonachlor	17.2	Spike	P	0 - 37
2369122	Triclosan Methyl	14.1	Spike	P	0 - 31
2369122	Trifluralin	4.78	Spike	P	0 - 30
2369177	PCB-1016	2.68	Spike	P	0 - 32
2369177	PCB-1260	3.83	Spike	P	0 - 31

Reference Method: EPA 8270E
Batch ID: P422447

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369424	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	5.10	Spike	P	0 - 37
2369424	Acetochlor	10.3	Spike	P	0 - 28
2369424	Alachlor	3.26	Spike	P	0 - 30
2369424	Ametryn	18.6	Spike	P	0 - 32
2369424	Atrazine	6.33	Spike	P	0 - 41
2369424	Atrazine Desethyl	16.5	Spike	P	0 - 36
2369424	Avobenzone	5.01	Spike	P	0 - 36
2369424	Azinphos Methyl	6.77	Spike	P	0 - 75
2369424	Azoxystrobin	11.2	Spike	P	0 - 39
2369424	Bromacil	2.44	Spike	P	0 - 33
2369424	Butylate	12.7	Spike	P	0 - 44
2369424	Caffeine	7.21	Spike	P	0 - 74
2369424	Carbophenothion	2.44	Spike	P	0 - 25
2369424	Carfentrazone Ethyl	11.1	Spike	P	0 - 27
2369424	Chlorfenapyr	1.49	Spike	P	0 - 24
2369424	Chlorpyrifos Ethyl	9.83	Spike	P	0 - 26
2369424	Chlorpyrifos Methyl	14.1	Spike	P	0 - 26
2369424	Coumaphos	0.853	Spike	P	0 - 28
2369424	Cyanazine	9.31	Spike	P	0 - 48
2369424	Cyprodinil	6.27	Spike	P	0 - 29
2369424	Dechlorane Plus	11.7	Spike	P	0 - 30
2369424	Demeton	3.47	Spike	P	0 - 33
2369424	Diazinon	2.89	Spike	P	0 - 29
2369424	Difenoconazole	3.66	Spike	P	0 - 34
2369424	Dimethenamid	8.87	Spike	P	0 - 39
2369424	Dimethomorph	15.4	Spike	P	0 - 51
2369424	Disulfoton	13.1	Spike	P	0 - 30
2369424	Dithiopyr	6.43	Spike	P	0 - 26
2369424	EPTC	3.89	Spike	P	0 - 43
2369424	Ethion	3.67	Spike	P	0 - 79
2369424	Ethoprop	2.58	Spike	P	0 - 29
2369424	Etridiazole	14.9	Spike	P	0 - 33
2369424	Fenamiphos	5.72	Spike	P	0 - 40
2369424	Fenbuconazole	1.49	Spike	P	0 - 74
2369424	Fipronil	8.21	Spike	P	0 - 29
2369424	Fipronil Desulfinyl	4.14	Spike	P	0 - 32
2369424	Fipronil Sulfide	13.3	Spike	P	0 - 30
2369424	Fipronil Sulfone	8.61	Spike	P	0 - 33
2369424	Fluazifop-P-butyl	13.3	Spike	P	0 - 38

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P422447

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369424	Fludioxonil	8.11	Spike	P	0 - 29
2369424	Flumioxazin	3.61	Spike	P	0 - 51
2369424	Flutolanil	11.3	Spike	P	0 - 25
2369424	Fluxapyroxad	2.27	Spike	P	0 - 45
2369424	Fonofos	9.61	Spike	P	0 - 27
2369424	Hexazinone	1.34	Spike	P	0 - 30
2369424	Imazalil	12.8	Spike	P	0 - 100
2369424	Iprodione	4.06	Spike	P	0 - 33
2369424	Loratadine	0.452	Spike	P	0 - 56
2369424	Malathion	2.67	Spike	P	0 - 37
2369424	Metalaxyl	8.69	Spike	P	0 - 40
2369424	Metolachlor	2.36	Spike	P	0 - 29
2369424	Metribuzin	1.80	Spike	P	0 - 45
2369424	Mevinphos	4.40	Spike	P	0 - 29
2369424	Molinate	10.3	Spike	P	0 - 33
2369424	Myclobutanil	9.76	Spike	P	0 - 26
2369424	Naled	27.3	Spike	P	0 - 37
2369424	Napropamide	17.5	Spike	P	0 - 44
2369424	Norflurazon	2.06	Spike	P	0 - 30
2369424	Oxadiazon	15.2	Spike	P	0 - 28
2369424	Oxybenzone	2.38	Spike	P	0 - 46
2369424	Oxyfluorfen	12.6	Spike	P	0 - 28
2369424	Parathion Ethyl	7.87	Spike	P	0 - 31
2369424	Parathion Methyl	1.12	Spike	P	0 - 29
2369424	PBDE-47	4.97	Spike	P	0 - 36
2369424	PBDE-99	5.25	Spike	P	0 - 40
2369424	Pendimethalin	0.476	Spike	P	0 - 33
2369424	Phenytoin	3.21	Spike	P	0 - 100
2369424	Phorate	12.7	Spike	P	0 - 36
2369424	Prodiamine	2.23	Spike	P	0 - 71
2369424	Prometon	12.6	Spike	P	0 - 36
2369424	Prometryn	9.96	Spike	P	0 - 28
2369424	Pronamide	2.15	Spike	P	0 - 24
2369424	Propanil	0.164	Spike	P	0 - 28
2369424	Propargite	10.7	Spike	P	0 - 43
2369424	Propiconazole	2.60	Spike	P	0 - 33
2369424	Pyraflufen Ethyl	2.67	Spike	P	0 - 29
2369424	Pyridaben	2.35	Spike	P	0 - 30
2369424	Pyriproxyfen	3.97	Spike	P	0 - 79
2369424	Simazine	4.98	Spike	P	0 - 29
2369424	Stirophos	0.633	Spike	P	0 - 61
2369424	Sulfentrazone	2.92	Spike	P	0 - 33
2369424	Tebuconazole	0.640	Spike	P	0 - 69
2369424	Terbufos	7.87	Spike	P	0 - 29
2369424	Terbuthylazine	11.5	Spike	P	0 - 32
2369424	Thiobencarb	3.77	Spike	P	0 - 26
2369424	Tri-o-cresyl Phosphate	6.79	Spike	P	0 - 33
2369424	Triadimefon	3.86	Spike	P	0 - 28

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P422985

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

Reference Method: EPA 8276
Batch ID: P422430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2369177	Chlordane	4.20	Spike	P	0 - 25
2369177	Toxaphene	12.5	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P422132

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368761	Acesulfame K	14.7	Spike	P	0 - 30
2368761	AMPA	4.66	Spike	P	0 - 30
2368761	Endothall	1.64	Spike	P	0 - 30
2368761	Glufosinate	0.132	Spike	P	0 - 30
2368761	Glyphosate	3.62	Spike	P	0 - 30
2368761	Sucralose	4.51	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P422229

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368922	3-Hydroxycarbofuran	11.2	Spike	P	0 - 30
2368922	Aldicarb	5.33	Spike	P	0 - 30
2368922	Aldicarb Sulfone	16.3	Spike	P	0 - 30
2368922	Aldicarb Sulfoxide	14.1	Spike	P	0 - 30
2368922	Carbaryl	2.39	Spike	P	0 - 30
2368922	Carbofuran	6.63	Spike	P	0 - 30
2368922	Methiocarb	7.93	Spike	P	0 - 30
2368922	Methomyl	17.5	Spike	P	0 - 30
2368922	Oxamyl	16.9	Spike	P	0 - 30
2368922	Propoxur	8.57	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P422267

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368560	2,4-D	1.33	Spike	P	0 - 30
2368560	2,4,5-T	0.966	Spike	P	0 - 30
2368560	Acetaminophen	20.0	Spike	P	0 - 30
2368560	Acetamiprid	2.67	Spike	P	0 - 30
2368560	Afidopyropen	8.56	Spike	P	0 - 30
2368560	Bentazon	2.02	Spike	P	0 - 30
2368560	Benzovindiflupyr	3.85	Spike	P	0 - 30
2368560	Carbamazepine	2.36	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P422267

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368560	Clothianidin	4.44	Spike	P	0 - 30
2368560	Dinotefuran	13.5	Spike	P	0 - 30
2368560	Diuron	1.12	Spike	P	0 - 30
2368560	Fenuron	2.77	Spike	P	0 - 30
2368560	Fluridone	2.43	Spike	P	0 - 30
2368560	Hydrocodone	8.20	Spike	P	0 - 30
2368560	Ibuprofen	10.9	Spike	P	0 - 30
2368560	Imazapyr	15.3	Spike	P	0 - 30
2368560	Imidacloprid	6.73	Spike	P	0 - 30
2368560	Linuron	13.8	Spike	P	0 - 30
2368560	Mandestrobin	0.277	Spike	P	0 - 30
2368560	MCPP	4.15	Spike	P	0 - 30
2368560	Naproxen	5.11	Spike	P	0 - 30
2368560	Primidone	4.18	Spike	P	0 - 30
2368560	Pyraclostrobin	3.41	Spike	P	0 - 30
2368560	Silvex	4.72	Spike	P	0 - 30
2368560	Thiamethoxam	3.23	Spike	P	0 - 30
2368560	Tolfenpyrad	4.05	Spike	P	0 - 30
2368560	Triclopyr	5.26	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P422794

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368966	Total Alkalinity	0.733	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P422674

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368619	TDS	5.91	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P422562

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368619	TSS	10.9	Sample	F	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P422643

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368966	Fluoride	0.972	Spike	P	0 - 1.6

Quality Assurance Report
Precision

Reference Method: SM 5310 B-2011
Batch ID: P422755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368941	Organic Carbon	0.167	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2369175
Field Sample ID: G3SW0056

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	45.1	P	30 - 160

Lab Sample ID: 2369176
Field Sample ID: G3SW0056

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	82.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	43.6	P	30 - 160
EPA 8321B	Diuron-d6	38.9	P	30 - 160
EPA 8321B	Endothall-d6	160	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	140	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.7	P	30 - 160
EPA 8321B	Primidone-d5	73.3	P	30 - 160
EPA 8321B	Sucralose-d6	124	P	30 - 160

Lab Sample ID: 2369177
Field Sample ID: G3SW0056

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	72.7	P	29 - 130
EPA 8270E	Decachlorobiphenyl	64.0	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	49.9	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	53.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	42.1	P	30 - 101
EPA 8276	PCNB	84.3	P	48 - 121

Lab Sample ID: 2369178
Field Sample ID: G3SW0056

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	100	P	20 - 200
EPA 8270E	Simazine-d10	111	P	62 - 142
EPA 8270E	Terbufos-d10	108	P	58 - 132
EPA 8270E	Terphenyl-d14	127	P	52 - 137
EPA 8270E	Terphenyl-d14	119	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A115860
Included Lab Sample IDs: 2369169

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

Reference Method: DEP SOP: NU-094-1
Run ID: A115862
Included Lab Sample IDs: 2369169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.2	96.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A115875
Included Lab Sample IDs: 2369171

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

Reference Method: EPA 8321B
Run ID: A115877
Included Lab Sample IDs: 2369176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	91.3	86.7	P/P	60 - 160
Endothall	113	116	P/P	60 - 160
Glufosinate	78.3	86.9	P/P	60 - 160
Glyphosate	90.0	97.3	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A115905
Included Lab Sample IDs: 2369175

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	102	105	P/P	60 - 150
Aldicarb	102	107	P/P	60 - 150
Aldicarb Sulfone	104	106	P/P	50 - 150
Aldicarb Sulfoxide	105	99.0	P/P	50 - 150
Carbaryl	102	109	P/P	60 - 150
Carbofuran	97.2	110	P/P	50 - 150
Methiocarb	121	111	P/P	50 - 150
Methomyl	104	108	P/P	50 - 150
Oxamyl	106	107	P/P	50 - 150
Propoxur	112	106	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A115927
Included Lab Sample IDs: 2369176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	114	121	P/P	60 - 160
Sucralose	106	104	P/P	60 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A115956
Included Lab Sample IDs: 2369170

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

Reference Method: EPA 8321B
Run ID: A115989
Included Lab Sample IDs: 2369176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	102	95.8	P/P	50 - 150
2,4,5-T	103	106	P/P	50 - 150
Acetaminophen	94.0	95.0	P/P	60 - 160
Acetamiprid	104	109	P/P	50 - 150
Afidopyropen	111	107	P/P	50 - 150
Bentazon	107	107	P/P	50 - 160
Benzovindiflupyr	115	110	P/P	50 - 150
Carbamazepine	104	111	P/P	60 - 150
Clothianidin	102	102	P/P	60 - 150
Dinotefuran	109	102	P/P	50 - 150
Diuron	106	106	P/P	60 - 160
Fenuron	101	104	P/P	60 - 150
Fluridone	110	109	P/P	60 - 160
Hydrocodone	102	106	P/P	60 - 150
Ibuprofen	90.9	93.7	P/P	50 - 160
Imazapyr	98.6	108	P/P	50 - 150
Imidacloprid	100	101	P/P	60 - 150
Linuron	101	115	P/P	60 - 150
Mandestrobin	108	105	P/P	50 - 150
MCPP	107	105	P/P	50 - 150
Naproxen	88.8	100	P/P	50 - 160
Primidone	103	94.2	P/P	60 - 150
Pyraclostrobin	108	110	P/P	60 - 150
Silvex	98.5	89.0	P/P	50 - 150
Thiamethoxam	106	105	P/P	50 - 150
Tolfenpyrad	104	102	P/P	60 - 150
Triclopyr	104	105	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A116012
Included Lab Sample IDs: 2369177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.4		P	80 - 120
PCB-1260	98.6		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A116016
Included Lab Sample IDs: 2369170

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A116041
Included Lab Sample IDs: 2369178

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	106		P	80 - 120
Alachlor	108		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	96.9		P	80 - 120
Azinphos Methyl	104		P	80 - 120
Azoxystrobin	100		P	80 - 120
Bromacil	104		P	80 - 120
Butylate	103		P	80 - 120
Caffeine	86.2		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	93.2		P	80 - 120
Chlorfenapyr	102		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	105		P	80 - 120
Cyanazine	114		P	80 - 120
Cyprodinil	118		P	80 - 120
Demeton	109		P	80 - 120
Diazinon	110		P	80 - 120
Difenoconazole	105		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	106		P	80 - 120
Disulfoton	104		P	80 - 120
Dithiopyr	104		P	80 - 120
EPTC	99.0		P	80 - 120
Ethion	113		P	80 - 120
Ethoprop	103		P	80 - 120
Etridiazole	97.8		P	80 - 120
Fenamiphos	101		P	80 - 120
Fenbuconazole	101		P	80 - 120
Fipronil	118		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	117		P	80 - 120
Fipronil Sulfone	111		P	80 - 120
Fluazifop-P-butyl	105		P	80 - 120
Fludioxonil	106		P	80 - 120
Flumioxazin	109		P	80 - 120
Flutolanil	104		P	80 - 120
Fluxapyroxad	98.6		P	80 - 120
Fonofos	118		P	80 - 120
Hexazinone	98.9		P	80 - 120
Imazalil	94.6		P	80 - 120
Iprodione	92.4		P	80 - 120
Loratadine	107		P	80 - 120
Malathion	91.6		P	80 - 120
Metalaxyl	104		P	80 - 120
Metolachlor	110		P	80 - 120
Metribuzin	95.2		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	98.7		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A116041
Included Lab Sample IDs: 2369178

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Myclobutanil	115		P	80 - 120
Naled	115		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	106		P	80 - 120
Oxadiazon	96.6		P	80 - 120
Oxyfluorfen	102		P	80 - 120
Parathion Ethyl	106		P	80 - 120
Parathion Methyl	107		P	80 - 120
Pendimethalin	110		P	80 - 120
Phenytoin	101		P	80 - 120
Phorate	110		P	80 - 120
Prodiamine	110		P	80 - 120
Prometon	96.1		P	80 - 120
Prometryn	114		P	80 - 120
Pronamide	110		P	80 - 120
Propanil	97.6		P	80 - 120
Propargite	91.5		P	80 - 120
Propiconazole	103		P	80 - 120
Pyraflufen Ethyl	101		P	80 - 120
Pyridaben	96.7		P	80 - 120
Pyriproxyfen	101		P	80 - 120
Simazine	95.8		P	80 - 120
Stirophos	108		P	80 - 120
Sulfentrazone	97.0		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	107		P	80 - 120
Terbuthylazine	113		P	80 - 120
Thiobencarb	96.0		P	80 - 120
Triadimefon	106		P	80 - 120

Reference Method: EPA 8270E
Run ID: A116050
Included Lab Sample IDs: 2369178

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.2		P	80 - 120
Avobenzone	100		P	80 - 120
Dechlorane Plus	105		P	80 - 120
Oxybenzone	92.2		P	80 - 120
PBDE-47	94.0		P	80 - 120
PBDE-99	94.7		P	80 - 120
Tri-o-cresyl Phosphate	95.6		P	80 - 120

Reference Method: SM 4500-F- C-2011
Run ID: A116057
Included Lab Sample IDs: 2369169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	102	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8276
Run ID: A116074
Included Lab Sample IDs: 2369177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	102		P	80 - 120
Toxaphene	110		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A116108
Included Lab Sample IDs: 2369169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	99.2	P/P	90 - 110
Sulfate	101	98.8	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A116120
Included Lab Sample IDs: 2369177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.0		P	80 - 120
Alpha-BHC	104		P	80 - 120
Alpha-Chlordane	94.4		P	80 - 120
Beta-BHC	112		P	80 - 120
Beta-Cyfluthrin	82.2		P	80 - 120
Bifenthrin	102		P	80 - 120
Chlorothalonil	106		P	80 - 120
Cis-Nonachlor	95.1		P	80 - 120
Cypermethrin	82.0		P	80 - 120
Dacthal	94.8		P	80 - 120
DDD-p,p'	98.8		P	80 - 120
DDE-p,p'	96.6		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	105		P	80 - 120
Deltamethrin	86.6		P	80 - 120
Dichlobenil	113		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	97.0		P	80 - 120
Endosulfan I	89.0		P	80 - 120
Endosulfan II	95.8		P	80 - 120
Endosulfan Sulfate	89.9		P	80 - 120
Endrin	97.2		P	80 - 120
Endrin Aldehyde	115		P	80 - 120
Esfenvalerate	88.7		P	80 - 120
Ethalfluralin	93.7		P	80 - 120
Fenpropathrin	88.5		P	80 - 120
Gamma-BHC	97.7		P	80 - 120
Gamma-Chlordane	104		P	80 - 120
Heptachlor	95.8		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	92.1		P	80 - 120
Lambda-Cyhalothrin	87.3		P	80 - 120
Methoprene	93.5		P	80 - 120
Methoxychlor	96.8		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A116120
Included Lab Sample IDs: 2369177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
MGK-264	88.1		P	80 - 120
Mirex	106		P	80 - 120
Oxychlordane	97.2		P	80 - 120
Permethrin	82.7		P	80 - 120
Phenothrin	86.2		P	80 - 120
Prallethrin	88.0		P	80 - 120
Tau-Fluvalinate	87.1		P	80 - 120
Tetramethrin	86.6		P	80 - 120
Trans-Nonachlor	97.9		P	80 - 120
Triclosan Methyl	90.0		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A116121
Included Lab Sample IDs: 2369177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin Ketone	98.7		P	80 - 120
Piperonyl Butoxide	104		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A116128
Included Lab Sample IDs: 2369170

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

Reference Method: SM 2320 B-2011
Run ID: A116145
Included Lab Sample IDs: 2369169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.3	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A116176
Included Lab Sample IDs: 2369170

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.5	97.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A116189
Included Lab Sample IDs: 2369170

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A116219
Included Lab Sample IDs: 2369178

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Octinoxate	96.9		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		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	97.5				9.27	
EPA 180.1 Rev. 2.0	Turbidity	101				6.32	
EPA 300.0 Rev. 2.1	Chloride	99.5	97.0	98.4		0.152	
	Sulfate	98.7	94.4	95.8		0.0331	
EPA 350.1 Rev. 2.0	Ammonia-N	98.6	94.4	95.2			0.670
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	100	103			1.50
EPA 353.2 Rev. 2.0	NO2NO3-N	104	103	103			0.454
EPA 365.1 Rev. 2.0	Total-P	103	102	103			0.761
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.8	98.7	97.7			0.974
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	125	115	122			5.10
	Acetochlor	110	84.2	93.3			10.3
	Alachlor	108	85.3	88.2			3.26
	Aldrin	62.1	69.3	69.1			0.260
	Alpha-BHC	101	95.2	94.4			0.874
	Alpha-Chlordane	91.6	86.5	94.0			8.34
	Ametryn	137	107	136			18.6
	Atrazine	115					6.33
	Atrazine Desethyl	96.1	73.2	103			16.5
	Avobenzone	146	144	151			5.01
	Azinphos Methyl	146	147	157			6.77
	Azoxystrobin	124	98.2	114			11.2
	Beta-BHC	120	115	112			2.90
	Beta-Cyfluthrin	74.4	92.7	98.1			5.72
	Bifenthrin	50.9	83.3	84.0			0.874
	Bromacil	90.3	76.0	78.1			2.44
	Butylate	75.9	71.0	80.6			12.7
	Caffeine	73.7	78.7	85.2			7.21
	Carbophenothion	88.2	87.9	85.8			2.44
	Carfentrazone Ethyl	140	115	103			11.1
	Chlorfenapyr	108	105	104			1.49
	Chlorothalonil	114	146	147			0.569
	Chlorpyrifos Ethyl	83.7	78.3	86.4			9.83
	Chlorpyrifos Methyl	116	85.6	98.6			14.1
	Cis-Nonachlor	72.7	74.5	80.4			7.61
	Coumaphos	170	136	137			0.853
	Cyanazine	164	163	179			9.31
	Cypermethrin	75.9	92.9	100			7.40
	Cyprodinil	114	125	134			6.27
	Dacthal	93.4	87.3	89.6			2.55
	DDD-p,p'	88.3	82.5	88.6			7.07
	DDE-p,p'	83.4	78.5	81.6			3.88
	DDT-p,p'	76.5	80.0	80.7			0.904
	Dechlorane Plus	137	114	102			11.7
	Delta-BHC	117	135	133			1.10
	Deltamethrin	74.8	95.3	106			10.2
	Demeton	131	128	132			3.47
	Diazinon	122	104	107			2.89
	Dichlobenil	97.8	70.5	67.9			3.68
	Dicofol	87.8	89.8	84.4			6.14
	Dieldrin	85.5	78.3	80.7			2.80
	Difenoconazole	175	137	142			3.66
	Dimethenamid	87.9	69.4	75.9			8.87

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Dimethomorph	105	103	120			15.4
	Disulfoton	108	97.9	112			13.1
	Dithiopyr	76.5	72.6	77.4			6.43
	Endosulfan I	82.2	76.6	84.9			10.3
	Endosulfan II	94.1	85.0	88.9			4.51
	Endosulfan Sulfate	103	87.5	93.0			6.06
	Endrin	80.7	84.1	85.8			2.04
	Endrin Aldehyde	81.6	58.3	62.2			6.45
	Endrin Ketone	101	83.2	81.3			2.34
	EPTC	74.2	62.8	65.3			3.89
	Esfenvalerate	72.2	93.3	97.2			4.06
	Ethalfluralin	76.3	78.5	69.5			12.2
	Ethion	74.8	64.3	66.7			3.67
	Ethoprop	110	115	118			2.58
	Etridiazole	90.6	91.3	78.6			14.9
	Fenamiphos	92.1	86.2	91.3			5.72
	Fenbuconazole	133	104	106			1.49
	Fenpropathrin	81.4	83.9	81.4			3.08
	Fipronil	80.6	85.3	93.2			8.21
	Fipronil Desulfinyl	123	121	126			4.14
	Fipronil Sulfide	67.8	72.1	84.3			13.3
	Fipronil Sulfone	78.7	81.7	92.3			8.61
	Fluazifop-P-butyl	80.6	68.6	78.3			13.3
	Fludioxonil	128	92.2	100			8.11
	Flumioxazin	178	150	145			3.61
	Flutolanil	85.2	74.1	84.2			11.3
	Fluxapyroxad	112	108	105			2.27
	Fonofos	82.2	91.9	101			9.61
	Gamma-BHC	94.8	88.6	93.1			4.93
	Gamma-Chlordane	88.5	89.8	102			12.7
	Heptachlor	70.6	75.9	77.3			1.74
	Heptachlor Epoxide	89.2	79.8	90.1			10.0
	Hexachlorobenzene	73.9	81.1	80.5			0.797
	Hexazinone	120					1.34
	Imazalil	100	103	118			12.8
	Iprodione	143	142	148			4.06
	Kepone	120	85.5	96.7			12.2
	Lambda-Cyhalothrin	65.8	88.4	93.9			5.99
	Loratadine	150	120	120			0.452
	Malathion	128	95.3	97.9			2.67
	Metalaxyl	120	97.4	107			8.69
	Methoprene	73.2	86.4	87.9			1.78
	Methoxychlor	81.4	78.7	74.8			5.01
	Metolachlor	78.4					2.36
	Metribuzin	115	120	122			1.80
	Mevinphos	105	111	116			4.40
	MGK-264	104	101	100			0.701
	Mirex	60.8	74.4	77.9			4.68
	Molinate	86.2	83.0	92.0			10.3
	Myclobutanil	94.3	92.1	102			9.76
	Naled	103	85.2	112			27.3
	Napropamide	119	96.0	114			17.5
	Norflurazon	96.8	60.8	57.6			2.06
	Octinoxate	109 96.0	88.7		13.0		

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Oxadiazon	95.4					15.2
	Oxybenzone	92.7	80.5	82.4			2.38
	Oxychlordane	80.0	80.6	85.6			6.08
	Oxyfluorfen	138	127	144			12.6
	Parathion Ethyl	108	96.6	104			7.87
	Parathion Methyl	119	119	120			1.12
	PBDE-47	109	105	110			4.97
	PBDE-99	108	95.4	101			5.25
	PCB-1016	70.5	72.8	74.8			2.68
	PCB-1260	68.2	64.7	67.2			3.83
	Pendimethalin	102	86.3	85.8			0.476
	Permethrin	72.8	86.2	92.1			6.59
	Phenothrin	59.3	77.3	92.4			17.8
	Phenytoin	118	103	99.5			3.21
	Phorate	102	95.8	109			12.7
	Piperonyl Butoxide	78.1	91.8	89.7			2.31
	Prallethrin	101	94.0	95.5			1.58
	Prodiamine	116	108	110			2.23
	Prometon	121	110	125			12.6
	Prometryn	107	103	114			9.96
	Pronamide	85.3	82.7	84.5			2.15
	Propanil	96.4	102	102			0.164
	Propargite	173	155	173			10.7
	Propiconazole	104	103	97.7			2.60
	Pyraflufen Ethyl	94.0	90.6	88.2			2.67
	Pyridaben	164	177	182			2.35
	Pyriproxyfen	190	175	168			3.97
	Simazine	113	113	119			4.98
	Stirophos	133	113	113			0.633
	Sulfentrazone	136					2.92
	Tau-Fluvalinate	58.3	89.1	92.5			3.71
	Tebuconazole	106	102	103			0.640
	Terbufos	93.0	120	130			7.87
	Terbuthylazine	71.0	71.0	79.7			11.5
	Tetramethrin	105	137	137			0.653
	Thiobencarb	119	107	103			3.77
	Trans-Nonachlor	72.9	70.9	84.3			17.2
	Tri-o-cresyl Phosphate	105	95.2	102			6.79
	Triadimefon	106	108	104			3.86
	Triclosan Methyl	80.9	73.1	84.2			14.1
	Trifluralin	78.2	81.7	77.9			4.78
EPA 8276	Chlordane	78.6	72.4	69.4			4.20
	Toxaphene	87.0	80.4	70.9			12.5
EPA 8321B	2,4-D	107	115	114			1.33
	2,4,5-T	85.1	82.9	82.1			0.966
	3-Hydroxycarbofuran	92.1	78.9	88.3			11.2
	Acesulfame K	138	78.7	67.9			14.7
	Acetaminophen	91.7	115	94.5			20.0
	Acetamiprid	95.7	90.3	92.7			2.67
	Afidopyropen	74.1	69.5	75.7			8.56
	Aldicarb	75.3	38.4	40.5			5.33
	Aldicarb Sulfone	105	95.2	112			16.3
	Aldicarb Sulfoxide	103	43.5	50.1			14.1
	AMPA	94.7	75.8	80.1			4.66

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Bentazon	97.1	83.6	81.4			2.02
	Benzovindiflupyr	80.3	80.4	83.6			3.85
	Carbamazepine	83.0	84.4	82.4			2.36
	Carbaryl	71.6	44.8	45.8			2.39
	Carbofuran	82.5	47.8	51.1			6.63
	Clothianidin	96.2	106	101			4.44
	Dinotefuran	101	128	110			13.5
	Diuron	79.8	72.6	73.4			1.12
	Endothall	113	203	207			1.64
	Fenuron	102	99.5	96.8			2.77
	Fluridone	108	103	100			2.43
	Glufosinate	76.5	84.2	84.3			0.132
	Glyphosate	82.4	103	99.3			3.62
	Hydrocodone	111	121	111			8.20
	Ibuprofen	69.7	75.3	84.0			10.9
	Imazapyr	119	122	103			15.3
	Imidacloprid	104	155	145			6.73
	Linuron	88.4	86.7	75.5			13.8
	Mandestrobin	93.3	90.8	91.1			0.277
	MCPP	95.3	92.8	89.0			4.15
	Methiocarb	83.6	57.0	61.7			7.93
	Methomyl	99.4	73.1	87.1			17.5
	Naproxen	80.3	76.9	81.0			5.11
	Oxamyl	97.2	74.9	88.7			16.9
	Primidone	105	97.8	93.8			4.18
	Propoxur	78.4	44.5	48.5			8.57
	Pyraclostrobin	82.9	88.5	85.6			3.41
	Silvex	79.7	84.5	80.6			4.72
	Sucralose	101	109	104			4.51
	Thiamethoxam	101	128	124			3.23
	Tolfenpyrad	52.3	58.2	55.9			4.05
	Triclopyr	86.1	84.7	80.3			5.26
SM 2320 B-2011	Total Alkalinity	95.5				0.733	
SM 2540 C-2015	TDS	97.7				5.91	
SM 2540 D-2015	TSS	93.1				10.9	
SM 4500-F- C-2011	Fluoride	99.9	102	100			0.972
SM 5310 B-2011	Organic Carbon	97.0	96.4	96.7			0.167

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2369169
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2369169
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2369169
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2369169
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2369170
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2369170
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2369170
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2369170
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2369171
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2369178
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2369177

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2369178
EPA 8270E	PCBs in water matrices by GC/MS/MS	2369177
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2369177
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2369175
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2369176
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2369169
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2369169
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2369169
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2369169
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2369170

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	11/10/2022			11/10/2022 12:07	Chandler E Cox	2369169
EPA 180.1 Rev. 2.0	11/10/2022			11/10/2022 11:56	Anna M. Plaviak	2369169
EPA 300.0 Rev. 2.1	11/10/2022			11/23/2022 00:12	James L Waggerby	2369169
EPA 350.1 Rev. 2.0	11/10/2022			11/29/2022 13:09	Ping Hua	2369170
EPA 351.2 Rev. 2.0	11/10/2022	11/17/2022 10:34	Samantha L Bates	11/29/2022 15:08	Judith K. Clark	2369170
EPA 353.2 Rev. 2.0	11/10/2022			11/16/2022 11:52	Beverly Y. Sanders	2369170
EPA 365.1 Rev. 2.0	11/10/2022	11/16/2022 13:00	Simonne.V. Calhoun	11/17/2022 16:18	James L Waggerby	2369170
EPA 365.1 Rev. 2.0 dissolved	11/10/2022			11/10/2022 12:28	Elise M. Gillis	2369171
EPA 8270E	11/10/2022	11/15/2022 08:30	Rasheda Ghaffari	11/17/2022 19:45	Vandana T. Nagar	2369177
	11/10/2022	11/15/2022 08:30	Rasheda Ghaffari	11/21/2022 20:54	Michael Poppell	2369177
	11/10/2022	11/15/2022 08:30	Rasheda Ghaffari	11/25/2022 23:32	Michael Poppell	2369177
	11/10/2022	11/16/2022 08:30	Rasheda Ghaffari	11/17/2022 18:19	Michael Poppell	2369178
	11/10/2022	11/16/2022 08:30	Rasheda Ghaffari	11/18/2022 19:49	Arthur Maknenko	2369178
	11/10/2022	11/30/2022 10:30	Rasheda Ghaffari	12/01/2022 20:27	Arthur Maknenko	2369178
EPA 8276	11/10/2022	11/15/2022 08:30	Rasheda Ghaffari	11/19/2022 05:24	Lipi Saha	2369177
EPA 8321B	11/10/2022	11/10/2022 11:30	Manjita Shrestha	11/10/2022 18:37	Manjita Shrestha	2369176
	11/10/2022	11/10/2022 11:30	Manjita Shrestha	11/14/2022 15:39	Manjita Shrestha	2369176
	11/10/2022	11/14/2022 09:00	June Rhew	11/14/2022 19:33	Juyoung Kim	2369175
	11/10/2022	11/15/2022 09:30	June Rhew	11/15/2022 20:20	Juyoung Kim	2369176
SM 2320 B-2011	11/10/2022			11/21/2022 23:18	Dale L. Simmons	2369169
SM 2540 C-2015	11/10/2022			11/14/2022 15:59	Yijie Li	2369169
SM 2540 D-2015	11/10/2022			11/14/2022 15:59	Yijie Li	2369169
SM 4500-F- C-2011	11/10/2022			11/19/2022 14:31	Dale L. Simmons	2369169
SM 5310 B-2011	11/10/2022			11/22/2022 07:48	Khloe J Berg	2369170