

Chemical Analysis Report

CEN-DIST-2023-01-11-01

Florida DEP Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

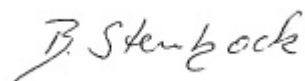
Event Description: **Tiger/Henry/Smart**
Request ID: **RQ-2023-01-02-58**
Customer: **CEN-DIST**
Project ID: **SMP**

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Orlando, FL 32803-3767
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 03-FEB-2023 16:22



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: Tiger Lake near Center

Collection Date/Time: 01/10/2023 13:00

Field ID: G4CE0206

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2379693	DEP SOP: NU-094-1	Color (true)	110		PCU	P424424	
	EPA 180.1 Rev. 2.0	Turbidity	5.1		NTU	P424428	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P424721	
		Sulfate	9.2		mg SO4/L	P424724	
	SM 2320 B-2011	Total Alkalinity	14		mg CaCO3/L	P424904	
	SM 2540 C-2015	TDS	74		mg/L	P424911	
	SM 2540 D-2015	TSS	6	I	mg/L	P424820	
	SM 4500-F- C-2011	Fluoride	0.065	I	mg F/L	P425192	
2379694	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P424699	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P424513	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P424609	
	EPA 365.1 Rev. 2.0	Total-P	0.056		mg P/L	P424506	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P424546	
2379695	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.007	I	mg P/L	P424430	
2379703	EPA 8321B	Aldicarb	0.020	U	ug/L	P424577	
		Aldicarb Sulfone	0.0020	U	ug/L	P424577	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P424577	MS
		Carbaryl	0.0020	U	ug/L	P424577	
		Carbofuran	0.0020	UJ	ug/L	P424577	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P424577	
		Methiocarb	0.0020	U	ug/L	P424577	
		Methomyl	0.0020	U	ug/L	P424577	
		Oxamyl	0.0020	U	ug/L	P424577	
		Propoxur	0.0020	UJ	ug/L	P424577	MS
2379704		2,4-D	0.0020	U	ug/L	P424452	
		Acesulfame K	0.10	U	ug/L	P424336	
		2,4,5-T	0.0040	U	ug/L	P424452	
		AMPA	0.10	U	ug/L	P424336	
		Acetaminophen	0.0080	U	ug/L	P424452	
		Acetamiprid	0.0020	U	ug/L	P424452	
		Endothall	0.25	U	ug/L	P424336	
		Glufosinate	0.10	U	ug/L	P424336	
		Glyphosate	0.10	U	ug/L	P424336	
		Afidopyropen	0.0020	U	ug/L	P424452	
		Bentazon	8.0E-04	U	ug/L	P424452	
		Sucralose	0.032	I	ug/L	P424336	
		Benzovindiflupyr	0.0020	U	ug/L	P424452	
		Carbamazepine	8.0E-04	U	ug/L	P424452	
		Clothianidin	0.0020	U	ug/L	P424452	
		Dinotefuran	0.0020	U	ug/L	P424452	
		Diuron	0.0020	U	ug/L	P424452	
		Fenuron	0.032	U	ug/L	P424452	
		Fluridone	0.0047		ug/L	P424452	

Field ID: G4CE0206

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2379704	EPA 8321B	Imazapyr	0.014	I	ug/L	P424452	
		Hydrocodone	0.0020	U	ug/L	P424452	
		Ibuprofen	0.080	U	ug/L	P424452	
		Imidacloprid	0.016		ug/L	P424452	MS
		Linuron	0.0040	U	ug/L	P424452	
		Mandestrobin	0.0020	U	ug/L	P424452	
		MCP	0.0020	U	ug/L	P424452	
		Naproxen	0.0080	U	ug/L	P424452	
		Primidone	0.0040	U	ug/L	P424452	
		Pyraclostrobin	0.0020	U	ug/L	P424452	
		Silvex	0.0040	U	ug/L	P424452	
		Thiamethoxam	0.0020	U	ug/L	P424452	
		Tolfenpyrad	0.0020	U	ug/L	P424452	
		Triclopyr	0.0040	U	ug/L	P424452	
2379705	EPA 8270E	Aldrin	0.66	U	ng/L	P424460	
		Alpha-BHC	0.10	U	ng/L	P424460	
		Alpha-Chlordane	0.20	U	ng/L	P424460	MS
		PCB-1016	2.0	U	ng/L	P424460	
		Beta-BHC	0.10	U	ng/L	P424460	
		PCB-1221	2.0	U	ng/L	P424460	
		Beta-Cyfluthrin	1.3	U	ng/L	P424460	
		PCB-1232	2.0	U	ng/L	P424460	
		Bifenthrin	0.51	U	ng/L	P424460	
		PCB-1242	2.0	U	ng/L	P424460	
		PCB-1248	2.0	U	ng/L	P424460	
		Chlorothalonil	3.7	U	ng/L	P424460	
		PCB-1254	2.0	U	ng/L	P424460	
		Cis-Nonachlor	0.20	U	ng/L	P424460	
		PCB-1260	2.0	U	ng/L	P424460	MS
		Cypermethrin	1.5	U	ng/L	P424460	
		Dacthal	0.15	U	ng/L	P424460	
		DDD-p,p'	0.26	U	ng/L	P424460	
		DDE-p,p'	0.20	U	ng/L	P424460	
		DDT-p,p'	0.26	U	ng/L	P424460	
		Delta-BHC	0.41	U	ng/L	P424460	
		Deltamethrin	1.3	U	ng/L	P424460	
		Dichlobenil	0.26	U	ng/L	P424460	
		Dicofol	1.3	U	ng/L	P424460	
		Dieldrin	0.41	U	ng/L	P424460	
		Endosulfan I	0.41	U	ng/L	P424460	
		Endosulfan II	0.41	U	ng/L	P424460	
		Endosulfan Sulfate	0.31	U	ng/L	P424460	
		Endrin	0.41	U	ng/L	P424460	MS
		Endrin Aldehyde	0.77	U	ng/L	P424460	
		Endrin Ketone	0.41	U	ng/L	P424460	

Field ID: G4CE0206

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2379705	EPA 8270E	Esfenvalerate	0.77	U	ng/L	P424460	
		Ethalfuralin	0.15	U	ng/L	P424460	
		Fenpropathrin	0.26	U	ng/L	P424460	
		Gamma-BHC	0.13	U	ng/L	P424460	
		Gamma-Chlordane	0.20	U	ng/L	P424460	
		Heptachlor	0.20	U	ng/L	P424460	
		Heptachlor Epoxide	0.26	U	ng/L	P424460	
		Hexachlorobenzene**	1.0	U	ng/L	P424460	
		Kepone	5.1	UJ	ng/L	P424460	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P424460	
		Methoprene	0.77	U	ng/L	P424460	
		Methoxychlor	0.31	U	ng/L	P424460	
		MGK-264	0.20	U	ng/L	P424460	MS
		Mirex	0.36	U	ng/L	P424460	
		Oxychlordane	0.31	U	ng/L	P424460	
		Permethrin	1.6	U	ng/L	P424460	
		Phenothrin	0.92	U	ng/L	P424460	
		Piperonyl Butoxide	0.15	U	ng/L	P424460	
		Prallethrin	2.0	U	ng/L	P424460	MS
		Tau-Fluvalinate	0.26	U	ng/L	P424460	
		Tetramethrin	0.77	U	ng/L	P424460	
		Trans-Nonachlor	0.20	U	ng/L	P424460	
		Triclosan Methyl	0.15	U	ng/L	P424460	
		Trifluralin	0.20	U	ng/L	P424460	
		Chlordane	2.0	U	ng/L	P424460	
		Toxaphene	15	U	ng/L	P424460	MS
2379706	EPA 8276	Oxybenzone**	9.5	U	ng/L	P424368	
	EPA 8270E	Acetochlor	0.24	U	ng/L	P424368	
		Octinoxate**	19	U	ng/L	P424368	
		Alachlor	0.24	U	ng/L	P424368	
		Avobenzone**	95	U	ng/L	P424368	
		Ametryn	0.86	I	ng/L	P424368	
		Atrazine	18		ng/L	P424368	
		PBDE-47**	3.8	U	ng/L	P424368	
		Atrazine Desethyl	3.1	I	ng/L	P424368	
		PBDE-99**	4.7	U	ng/L	P424368	
		Azinphos Methyl	1.9	U	ng/L	P424368	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P424368	
		Azoxystrobin	0.47	U	ng/L	P424368	
		Bromacil	0.80	I	ng/L	P424368	
		2-Ethylhexyl	11	U	ng/L	P424368	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	U	ng/L	P424368	
		Dechlorane Plus**	28	U	ng/L	P424368	
		Caffeine**	7.1	U	ng/L	P424368	

Field ID: G4CE0206

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2379706	EPA 8270E	Carbophenothion	0.19	U	ng/L	P424368	
		Carfentrazone Ethyl	0.095	U	ng/L	P424368	
		Chlorfenapyr	0.17	U	ng/L	P424368	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P424368	
		Chlorpyrifos Methyl	0.047	U	ng/L	P424368	
		Coumaphos	0.47	U	ng/L	P424368	
		Cyanazine	3.1	U	ng/L	P424368	MS
		Cyprodinil	0.095	U	ng/L	P424368	
		Demeton	1.4	U	ng/L	P424368	
		Diazinon	0.12	U	ng/L	P424368	
		Difenoconazole	0.57	U	ng/L	P424368	
		Dimethenamid	0.095	U	ng/L	P424368	
		Dimethomorph	0.17	U	ng/L	P424368	
		Disulfoton	0.47	U	ng/L	P424368	
		Dithiopyr	0.59	U	ng/L	P424368	
		EPTC	1.2	U	ng/L	P424368	
		Ethion	0.14	U	ng/L	P424368	
		Ethoprop	0.095	U	ng/L	P424368	
		Etridiazole	0.14	U	ng/L	P424368	
		Fenamiphos	0.47	U	ng/L	P424368	
		Fenbuconazole	0.12	U	ng/L	P424368	
		Fipronil	0.24	U	ng/L	P424368	
		Fipronil Desulfinyl**	0.12	U	ng/L	P424368	
		Fipronil Sulfide	0.14	U	ng/L	P424368	
		Fipronil Sulfone	0.14	U	ng/L	P424368	
		Fluazifop-P-butyl	0.095	U	ng/L	P424368	
		Fludioxonil	0.12	U	ng/L	P424368	
		Flumioxazin	4.3	U	ng/L	P424368	
		Flutolanil	0.095	U	ng/L	P424368	
		Fluxapyroxad	0.095	U	ng/L	P424368	
		Fonofos	0.19	U	ng/L	P424368	
		Hexazinone	74		ng/L	P424368	
		Imazalil	0.71	U	ng/L	P424368	
		Iprodione	0.57	U	ng/L	P424368	MS
		Loratadine**	0.33	U	ng/L	P424368	
		Malathion	0.33	U	ng/L	P424368	
		Metalaxyl	10		ng/L	P424368	
		Metolachlor	0.33	U	ng/L	P424368	
		Metribuzin	1.4	U	ng/L	P424368	
		Mevinphos	1.0	U	ng/L	P424368	
		Molinate	0.28	U	ng/L	P424368	
		Myclobutanil	0.24	U	ng/L	P424368	
		Naled	1.4	U	ng/L	P424368	
		Napropamide	0.38	U	ng/L	P424368	
		Norflurazon	8.3		ng/L	P424368	

Field ID: G4CE0206

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2379706	EPA 8270E	Oxadiazon	4.2		ng/L	P424368	
		Oxyfluorfen	0.14	U	ng/L	P424368	
		Parathion Ethyl	0.24	U	ng/L	P424368	
		Parathion Methyl	0.52	U	ng/L	P424368	MS
		Pendimethalin	0.95	U	ng/L	P424368	
		Phenytol**	3.3	U	ng/L	P424368	
		Phorate	0.50	UJ	ng/L	P424368	LCS, MS
		Prodiamine	0.17	U	ng/L	P424368	
		Prometon	0.85	U	ng/L	P424368	
		Prometryn	0.19	U	ng/L	P424368	
		Pronamide	0.14	U	ng/L	P424368	
		Propanil	0.12	U	ng/L	P424368	
		Propargite	1.4	U	ng/L	P424368	
		Propiconazole	0.47	U	ng/L	P424368	
		Pyraflufen Ethyl	0.24	U	ng/L	P424368	
		Pyridaben	1.4	I	ng/L	P424368	
		Pyriproxyfen	0.12	U	ng/L	P424368	
		Simazine	28		ng/L	P424368	
		Stirophos	0.12	U	ng/L	P424368	
		Sulfentrazone	0.70	I	ng/L	P424368	
		Tebuconazole	0.47	U	ng/L	P424368	
		Terbufos	0.095	U	ng/L	P424368	MS
		Terbutylazine	0.40	U	ng/L	P424368	
		Thiobencarb	0.57	U	ng/L	P424368	
		Triadimefon	0.24	U	ng/L	P424368	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.

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

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

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

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P424424

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P424428

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424721

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424724

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424699

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P424513

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P424609

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P424506

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P424430

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: P424368

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P424368

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P424368

Component	Result	Code	Units
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P424368

Component	Result	Code	Units
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: P424460

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	3.6	U	ng/L
Chlorothalonil	3.6	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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P424460

Component	Result	Code	Units
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
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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P424460

Component	Result	Code	Units
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
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: P424460

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: P424336

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P424452

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

Reference Method: EPA 8321B

Batch ID: P424577

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: SM 2320 B-2011

Batch ID: P424904

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2015
Batch ID: P424911

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P424820

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P425192

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P424546

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: P424424

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P424428

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424721

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424724

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424699

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P424513

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: P424609

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P424506

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P424430

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P424368

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	105		P	42 - 162
Acetochlor	79.3		P	69 - 123
Alachlor	70.9		P	65 - 118
Ametryn	109		P	58 - 141
Atrazine	88.1		P	73 - 118
Atrazine Desethyl	52.3		P	32 - 125
Avobenzone	134		P	40 - 203
Azinphos Methyl	122		P	36 - 197
Azoxystrobin	98.4		P	58 - 226
Bromacil	79.3		P	48 - 120
Butylate	56.5		P	27 - 85.0
Caffeine	99.7		P	40 - 137
Carbophenothion	98.7		P	54 - 132
Carfentrazone Ethyl	82.7		P	60 - 142
Chlorfenapyr	63.8		P	53 - 117
Chlorpyrifos Ethyl	86.0		P	59 - 116
Chlorpyrifos Methyl	91.5		P	66 - 119
Coumaphos	140		P	11 - 234
Cyanazine	245		P	61 - 248
Cyprodinil	107		P	50 - 147
Dechlorane Plus	121		P	47 - 182
Demeton	102		P	30 - 138
Diazinon	84.2		P	67 - 126
Difenoconazole	138		P	38 - 205
Dimethenamid	95.0		P	57 - 111
Dimethomorph	117		P	16 - 212
Disulfoton	83.5		P	46 - 126
Dithiopyr	70.1		P	62 - 115
EPTC	54.2		P	28 - 80.0
Ethion	68.4		P	24 - 122
Ethoprop	97.4		P	62 - 113
Etridiazole	48.4		P	28 - 92.0
Fenamiphos	90.1		P	57 - 128
Fenbuconazole	136		P	52 - 155
Fipronil	69.0		P	63 - 130
Fipronil Desulfinyl	64.9		P	61 - 130
Fipronil Sulfide	91.1		P	56 - 117
Fipronil Sulfone	116		P	52 - 118
Fluazifop-P-butyl	93.4		P	61 - 128
Fludioxonil	81.2		P	59 - 129
Flumioxazin	72.5		P	30 - 250
Flutolanil	78.7		P	53 - 127
Fluxapyroxad	119		P	42 - 132
Fonofos	87.2		P	61 - 110
Hexazinone	94.0		P	46 - 139
Imazalil	101		P	40 - 139
Iprodione	126		P	40 - 146
Loratadine	95.6		P	10 - 224
Malathion	99.1		P	61 - 135
Metalaxyl	96.0		P	58 - 121
Metolachlor	79.3		P	64 - 118
Metribuzin	88.7		P	45 - 245

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P424368

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mevinphos	95.3		P	49 - 118
Molinate	75.3		P	42 - 92.0
Myclobutanil	84.4		P	55 - 127
Naled	99.5		P	10 - 114
Napropamide	56.8		P	39 - 121
Norflurazon	93.4		P	55 - 129
Octinoxate	98.3		P	26 - 166
Oxadiazon	91.4		P	54 - 115
Oxybenzone	95.6		P	49 - 135
Oxyfluorfen	80.0		P	64 - 139
Parathion Ethyl	95.5		P	70 - 111
Parathion Methyl	131		P	76 - 136
PBDE-47	104		P	41 - 148
PBDE-99	105		P	38 - 147
Pendimethalin	76.1		P	52 - 118
Phenytoin	44.4		P	10 - 162
Phorate	132		F	40 - 122
Prodiamine	75.1		P	26 - 141
Prometon	96.8		P	54 - 122
Prometryn	98.6		P	61 - 128
Pronamide	74.1		P	72 - 121
Propanil	95.4		P	45 - 144
Propargite	82.4		P	10 - 199
Propiconazole	83.4		P	56 - 127
Pyraflufen Ethyl	84.1		P	56 - 140
Pyridaben	101		P	26 - 211
Pyriproxyfen	93.8		P	33 - 194
Simazine	91.6		P	67 - 121
Stirophos	97.2		P	20 - 142
Sulfentrazone	93.1		P	21 - 144
Tebuconazole	86.3		P	10 - 122
Terbufos	97.2		P	60 - 129
Terbuthylazine	88.9		P	69 - 113
Thiobencarb	111		P	51 - 120
Tri-o-cresyl Phosphate	105		P	49 - 150
Triadimefon	68.1		P	56 - 114

Reference Method: EPA 8270E
Batch ID: P424460

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	65.4		P	10 - 92.0
Alpha-BHC	97.9		P	75 - 107
Alpha-Chlordane	88.7		P	50 - 108
Beta-BHC	130		P	36 - 138
Beta-Cyfluthrin	92.0		P	20 - 161
Bifenthrin	63.3		P	10 - 119
Chlorothalonil	114		P	26 - 186
Cis-Nonachlor	75.5		P	42 - 119
Cypermethrin	85.2		P	22 - 150
Dacthal	92.5		P	72 - 119
DDD-p,p'	100		P	45 - 107

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P424460

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDE-p,p'	91.3		P	48 - 106
DDT-p,p'	80.5		P	48 - 110
Delta-BHC	122		P	54 - 140
Deltamethrin	95.8		P	22 - 189
Dichlobenil	98.6		P	36 - 117
Dicofol	84.1		P	46 - 155
Dieldrin	95.1		P	54 - 110
Endosulfan I	83.9		P	59 - 105
Endosulfan II	96.6		P	51 - 118
Endosulfan Sulfate	119		P	57 - 121
Endrin	95.7		P	10 - 120
Endrin Aldehyde	89.6		P	34 - 118
Endrin Ketone	102		P	69 - 177
Esfenvalerate	83.5		P	23 - 168
Ethalfuralin	81.8		P	49 - 99.0
Fenpropathrin	84.5		P	34 - 117
Gamma-BHC	99.7		P	72 - 117
Gamma-Chlordane	79.8		P	43 - 106
Heptachlor	73.7		P	41 - 98.0
Heptachlor Epoxide	82.7		P	57 - 106
Hexachlorobenzene	74.4		P	36 - 99.0
Kepone	157		P	16 - 215
Lambda-Cyhalothrin	80.2		P	21 - 177
Methoprene	80.6		P	10 - 119
Methoxychlor	99.8		P	60 - 112
MGK-264	108		P	26 - 122
Mirex	76.1		P	10 - 169
Oxychlordane	81.0		P	43 - 105
PCB-1016	83.9		P	48 - 112
PCB-1260	96.4		P	44 - 118
Permethrin	93.4		P	24 - 148
Phenothrin	87.2		P	10 - 106
Piperonyl Butoxide	122		P	10 - 139
Prallethrin	109		P	17 - 109
Tau-Fluvalinate	79.3		P	13 - 131
Tetramethrin	118		P	10 - 132
Trans-Nonachlor	73.6		P	44 - 106
Triclosan Methyl	80.3		P	59 - 109
Trifluralin	82.2		P	44 - 101

Reference Method: EPA 8276
Batch ID: P424460

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	98.6		P	53 - 126
Toxaphene	113		P	56 - 211

Reference Method: EPA 8321B
Batch ID: P424336

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	103		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P424336

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	107		P	40 - 150
Endothall	123		P	40 - 150
Glufosinate	126		P	40 - 150
Glyphosate	105		P	40 - 150
Sucralose	107		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P424452

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	105		P	40 - 150
2,4,5-T	84.4		P	40 - 150
Acetaminophen	88.7		P	30 - 150
Acetamiprid	98.6		P	40 - 150
Afidopyropen	73.3		P	30 - 150
Bentazon	85.6		P	30 - 150
Benzovindiflupyr	92.3		P	40 - 150
Carbamazepine	83.0		P	40 - 150
Clothianidin	98.6		P	40 - 150
Dinotefuran	98.0		P	40 - 150
Diuron	89.9		P	40 - 150
Fenuron	108		P	40 - 150
Fluridone	98.1		P	40 - 150
Hydrocodone	94.3		P	40 - 150
Ibuprofen	108		P	40 - 150
Imazapyr	93.9		P	40 - 150
Imidacloprid	103		P	40 - 150
Linuron	74.5		P	40 - 150
Mandestrobin	107		P	40 - 150
MCPP	105		P	40 - 150
Naproxen	86.8		P	40 - 150
Primidone	95.2		P	40 - 150
Pyraclostrobin	70.5		P	40 - 150
Silvex	82.8		P	40 - 150
Thiamethoxam	96.9		P	40 - 150
Tolfenpyrad	33.5		P	30 - 150
Triclopyr	84.6		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P424577

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	83.2		P	40 - 150
Aldicarb	66.4		P	30 - 150
Aldicarb Sulfone	94.8		P	40 - 150
Aldicarb Sulfoxide	97.9		P	40 - 150
Carbaryl	70.0		P	40 - 150
Carbofuran	69.0		P	40 - 150
Methiocarb	63.0		P	40 - 150
Methomyl	95.0		P	40 - 150
Oxamyl	97.1		P	40 - 150
Propoxur	67.5		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P424904

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.5		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P424911

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.6		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P424820

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	87.7		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P425192

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.0		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P424546

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424721

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2379684	Chloride	94.6		P	90 - 110
2379693	Chloride	95.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424724

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2379684	Sulfate	94.0		P	90 - 110
2379693	Sulfate	96.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424699

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2379718	Ammonia-N	101	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P424513

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2379720	Kjeldahl Nitrogen	102	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P424609

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2379694	NO2NO3-N	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P424506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2379540	Total-P	104	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P424430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2379963	O-Phosphate-P	98.8	99.0	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P424368

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2379192	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.6	100	P/P	26 - 165
2379192	Acetochlor	71.6	85.5	P/P	67 - 124
2379192	Alachlor	68.3	83.7	P/P	60 - 120
2379192	Atrazine Desethyl	56.6	61.7	P/P	15 - 122
2379192	Avobenzone	113	114	P/P	37 - 178
2379192	Azinphos Methyl	126	123	P/P	40 - 292
2379192	Azoxystrobin	105	111	P/P	35 - 220
2379192	Bromacil	85.0	80.4	P/P	45 - 127

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P424368

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2379192	Butylate	55.8	52.0	P/P	20 - 83.0
2379192	Caffeine	99.3	95.7	P/P	10 - 194
2379192	Carbophenothion	108	108	P/P	57 - 127
2379192	Carfentrazone Ethyl	82.0	81.0	P/P	51 - 141
2379192	Chlorfenapyr	70.9	71.8	P/P	46 - 111
2379192	Chlorpyrifos Ethyl	72.8	79.7	P/P	52 - 120
2379192	Chlorpyrifos Methyl	89.0	108	P/P	63 - 119
2379192	Coumaphos	155	139	P/P	10 - 228
2379192	Cyanazine	260	232	F/P	59 - 241
2379192	Cyprodinil	113	133	P/P	47 - 146
2379192	Dechlorane Plus	79.1	74.8	P/P	50 - 150
2379192	Demeton	129	124	P/P	40 - 136
2379192	Diazinon	84.1	102	P/P	69 - 132
2379192	Difenoconazole	176	142	P/P	57 - 258
2379192	Dimethenamid	96.8	92.6	P/P	54 - 110
2379192	Dimethomorph	116	146	P/P	28 - 210
2379192	Disulfoton	88.5	96.4	P/P	43 - 133
2379192	Dithiopyr	70.4	83.8	P/P	39 - 116
2379192	EPTC	50.0	48.2	P/P	20 - 78.0
2379192	Ethion	71.2	69.3	P/P	17 - 119
2379192	Ethoprop	110	117	P/P	66 - 120
2379192	Etridiazole	49.2	36.0	P/P	28 - 96.0
2379192	Fenamiphos	87.9	97.7	P/P	41 - 126
2379192	Fenbuconazole	148	128	P/P	42 - 169
2379192	Fipronil	79.0	87.4	P/P	61 - 132
2379192	Fipronil Desulfanyl	63.1	88.0	P/P	56 - 132
2379192	Fipronil Sulfide	116	109	P/P	48 - 119
2379192	Fipronil Sulfone	117	108	P/P	42 - 131
2379192	Fluazifop-P-butyl	107	102	P/P	53 - 131
2379192	Fludioxonil	93.0	97.2	P/P	56 - 127
2379192	Flumioxazin	97.5	108	P/P	19 - 300
2379192	Flutolanil	85.2	92.3	P/P	41 - 127
2379192	Fluxapyroxad	137	162	P/P	42 - 172
2379192	Fonofos	89.4	109	P/P	59 - 113
2379192	Imazalil	152	118	P/P	21 - 283
2379192	Iprodione	148	172	P/F	43 - 150
2379192	Loratadine	106	111	P/P	23 - 201
2379192	Malathion	98.8	97.0	P/P	58 - 136
2379192	Metalaxyl	94.7	97.5	P/P	55 - 120
2379192	Metolachlor	81.6	79.6	P/P	57 - 121
2379192	Metribuzin	102	109	P/P	58 - 294
2379192	Mevinphos	112	119	P/P	50 - 126
2379192	Molinate	86.3	75.3	P/P	42 - 93.0
2379192	Myclobutanil	96.2	101	P/P	55 - 125
2379192	Naled	105	126	P/P	18 - 200
2379192	Napropamide	64.3	73.1	P/P	39 - 110
2379192	Norflurazon	114	121	P/P	48 - 128
2379192	Octinoxate	77.7	84.3	P/P	21 - 159
2379192	Oxadiazon	93.5	87.8	P/P	43 - 112
2379192	Oxybenzone	76.8	87.1	P/P	41 - 142
2379192	Oxyfluorfen	94.3	108	P/P	64 - 153
2379192	Parathion Ethyl	100	113	P/P	69 - 114

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P424368

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2379192	Parathion Methyl	150	154	F/F	79 - 139
2379192	PBDE-47	83.2	88.8	P/P	27 - 144
2379192	PBDE-99	85.0	89.6	P/P	18 - 150
2379192	Pendimethalin	101	118	P/P	50 - 139
2379192	Phenytoin	45.1	43.2	P/P	10 - 146
2379192	Phorate	162	136	F/P	54 - 161
2379192	Prodiamine	91.4	85.1	P/P	30 - 161
2379192	Prometon	109	133	P/P	45 - 134
2379192	Prometryn	110	133	P/P	45 - 137
2379192	Pronamide	81.2	87.4	P/P	65 - 133
2379192	Propanil	98.5	89.1	P/P	49 - 142
2379192	Propargite	79.1	89.8	P/P	10 - 203
2379192	Propiconazole	113	119	P/P	38 - 146
2379192	Pyraflufen Ethyl	78.5	98.3	P/P	34 - 153
2379192	Pyridaben	99.9	107	P/P	12 - 192
2379192	Pyriproxyfen	86.5	100	P/P	33 - 180
2379192	Simazine	112	104	P/P	51 - 157
2379192	Stirophos	98.8	99.7	P/P	10 - 128
2379192	Sulfentrazone	151	112	P/P	53 - 186
2379192	Tebuconazole	86.2	95.0	P/P	10 - 133
2379192	Terbufos	115	142	P/F	65 - 139
2379192	Terbuthylazine	96.5	104	P/P	66 - 117
2379192	Thiobencarb	117	98.4	P/P	51 - 119
2379192	Tri-o-cresyl Phosphate	82.9	90.4	P/P	31 - 144
2379192	Triadimefon	57.7	59.0	P/P	48 - 119

Reference Method: EPA 8270E

Batch ID: P424460

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2380065	Aldrin	66.9	59.5	P/P	20 - 82.0
2380065	Alpha-BHC	96.4	104	P/P	71 - 109
2380065	Alpha-Chlordane	110	103	F/P	42 - 106
2380065	Beta-BHC	133	143	P/P	69 - 180
2380065	Beta-Cyfluthrin	104	90.6	P/P	18 - 175
2380065	Bifenthrin	71.8	67.1	P/P	21 - 128
2380065	Chlorothalonil	137	138	P/P	10 - 300
2380065	Cis-Nonachlor	78.7	76.9	P/P	34 - 106
2380065	Cypermethrin	93.2	83.0	P/P	22 - 158
2380065	Dacthal	103	94.5	P/P	54 - 116
2380065	DDD-p,p'	102	99.9	P/P	34 - 107
2380065	DDE-p,p'	105	97.2	P/P	33 - 110
2380065	DDT-p,p'	77.8	75.9	P/P	50 - 122
2380065	Delta-BHC	135	138	P/P	77 - 193
2380065	Deltamethrin	107	104	P/P	10 - 195
2380065	Dichlobenil	64.3	65.9	P/P	25 - 113
2380065	Dicofol	80.7	87.8	P/P	38 - 247
2380065	Dieldrin	106	103	P/P	45 - 118
2380065	Endosulfan I	94.3	86.0	P/P	51 - 106
2380065	Endosulfan II	97.6	90.3	P/P	37 - 122
2380065	Endosulfan Sulfate	109	118	P/P	43 - 132
2380065	Endrin	106	104	F/F	29 - 101

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P424460

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2380065	Endrin Aldehyde	89.1	83.0	P/P	19 - 110
2380065	Endrin Ketone	97.4	107	P/P	60 - 140
2380065	Esfenvalerate	110	108	P/P	26 - 199
2380065	Ethalfuralin	77.2	76.1	P/P	45 - 99.0
2380065	Fenpropathrin	78.9	77.2	P/P	35 - 120
2380065	Gamma-BHC	93.2	94.4	P/P	63 - 128
2380065	Gamma-Chlordane	97.0	86.7	P/P	40 - 104
2380065	Heptachlor	73.6	73.5	P/P	36 - 97.0
2380065	Heptachlor Epoxide	88.9	82.1	P/P	49 - 184
2380065	Hexachlorobenzene	73.0	71.0	P/P	39 - 96.0
2380065	Kepone	174	175	P/P	10 - 217
2380065	Lambda-Cyhalothrin	86.7	89.4	P/P	21 - 193
2380065	Methoprene	103	102	P/P	20 - 106
2380065	Methoxychlor	98.3	101	P/P	53 - 118
2380065	MGK-264	119	115	F/P	40 - 118
2380065	Mirex	73.8	62.9	P/P	26 - 92.0
2380065	Oxychlordane	90.9	82.5	P/P	44 - 99.0
2380065	Permethrin	101	94.3	P/P	33 - 182
2380065	Phenothrin	89.8	90.0	P/P	10 - 129
2380065	Piperonyl Butoxide	136	140	P/P	10 - 211
2380065	Prallethrin	132	123	F/F	24 - 113
2380065	Tau-Fluvalinate	99.0	93.6	P/P	14 - 149
2380065	Tetramethrin	125	126	P/P	17 - 151
2380065	Trans-Nonachlor	88.1	70.6	P/P	42 - 102
2380065	Triclosan Methyl	98.5	95.6	P/P	48 - 108
2380065	Trifluralin	76.3	78.2	P/P	47 - 96.0
2380515	PCB-1016	86.1	89.4	P/P	46 - 111
2380515	PCB-1260	89.7	121	P/F	45 - 114

Reference Method: EPA 8276

Batch ID: P424460

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2380515	Chlordane	93.5	99.3	P/P	53 - 126
2380515	Toxaphene	292	294	F/F	56 - 211

Reference Method: EPA 8321B

Batch ID: P424336

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2378951	Acesulfame K	96.0	99.2	P/P	40 - 150
2378951	AMPA	106	113	P/P	40 - 150
2378951	Endothall	128	127	P/P	40 - 150
2378951	Glufosinate	108	122	P/P	40 - 150
2378951	Glyphosate	104	105	P/P	40 - 150
2378951	Sucralose	97.8	91.6	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P424452

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2378952	2,4-D	91.6	106	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P424452

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2378952	2,4,5-T	100	99.6	P/P	40 - 150
2378952	Acetaminophen	97.6	94.5	P/P	30 - 150
2378952	Acetamiprid	77.5	88.5	P/P	40 - 150
2378952	Afidopyropen	78.2	95.4	P/P	30 - 150
2378952	Benzovindiflupyr	90.0	92.5	P/P	40 - 150
2378952	Carbamazepine	61.0	63.5	P/P	40 - 150
2378952	Clothianidin	97.3	100	P/P	40 - 150
2378952	Dinotefuran	91.6	93.7	P/P	40 - 150
2378952	Diuron	58.1	58.8	P/P	40 - 150
2378952	Fenuron	72.6	75.5	P/P	40 - 150
2378952	Fluridone	91.7	83.9	P/P	40 - 150
2378952	Hydrocodone	81.4	82.5	P/P	40 - 150
2378952	Ibuprofen	81.5	89.5	P/P	40 - 150
2378952	Imidacloprid	145	154	P/F	40 - 150
2378952	Linuron	62.0	59.6	P/P	40 - 150
2378952	Mandestrobin	94.9	97.3	P/P	40 - 150
2378952	MCPP	117	114	P/P	40 - 150
2378952	Naproxen	82.3	79.4	P/P	40 - 150
2378952	Primidone	99.6	98.4	P/P	40 - 150
2378952	Pyraclostrobin	75.4	79.6	P/P	40 - 150
2378952	Silvex	78.3	84.8	P/P	40 - 150
2378952	Thiamethoxam	96.3	97.3	P/P	40 - 150
2378952	Tolfenpyrad	49.6	49.0	P/P	30 - 150
2378952	Triclopyr	101	109	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P424577

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2379703	3-Hydroxycarbofuran	66.5	54.5	P/P	40 - 150
2379703	Aldicarb	39.4	30.5	P/P	30 - 150
2379703	Aldicarb Sulfone	76.2	64.3	P/P	40 - 150
2379703	Aldicarb Sulfoxide	37.6	31.0	F/F	40 - 150
2379703	Carbaryl	45.5	40.2	P/P	40 - 150
2379703	Carbofuran	41.7	37.4	P/F	40 - 150
2379703	Methiocarb	58.8	54.4	P/P	40 - 150
2379703	Methomyl	64.4	53.5	P/P	40 - 150
2379703	Oxamyl	77.0	67.4	P/P	40 - 150
2379703	Propoxur	39.4	36.4	F/F	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P425192

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2379139	Fluoride	96.8	97.4	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P424546

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2379689	Organic Carbon	100		P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P424424

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379714	Color (true)	2.52	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P424428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379684	Turbidity	7.29	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424721

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379684	Chloride	0.172	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424724

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379684	Sulfate	0.234	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424699

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379718	Ammonia-N	0.700	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P424513

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379720	Kjeldahl Nitrogen	1.42	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P424609

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379694	NO2NO3-N	0.966	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P424506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379540	Total-P	2.68	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P424430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379963	O-Phosphate-P	0.166	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P424368

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379192	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	4.60	Spike	P	0 - 37
2379192	Acetochlor	17.7	Spike	P	0 - 28
2379192	Alachlor	20.2	Spike	P	0 - 30
2379192	Ametryn	27.8	Spike	P	0 - 32
2379192	Atrazine	3.14	Spike	P	0 - 41
2379192	Atrazine Desethyl	4.52	Spike	P	0 - 36
2379192	Avobenzone	1.00	Spike	P	0 - 36
2379192	Azinphos Methyl	3.02	Spike	P	0 - 75
2379192	Azoxystrobin	3.90	Spike	P	0 - 39
2379192	Bromacil	4.34	Spike	P	0 - 33
2379192	Butylate	6.94	Spike	P	0 - 44
2379192	Caffeine	3.45	Spike	P	0 - 74
2379192	Carbophenothion	0.330	Spike	P	0 - 25
2379192	Carfentrazone Ethyl	1.31	Spike	P	0 - 27
2379192	Chlorfenapyr	1.23	Spike	P	0 - 24
2379192	Chlorpyrifos Ethyl	9.03	Spike	P	0 - 26
2379192	Chlorpyrifos Methyl	19.4	Spike	P	0 - 26
2379192	Coumaphos	11.4	Spike	P	0 - 28
2379192	Cyanazine	11.5	Spike	P	0 - 48
2379192	Cyprodinil	16.8	Spike	P	0 - 29
2379192	Dechlorane Plus	5.60	Spike	P	0 - 30
2379192	Demeton	3.94	Spike	P	0 - 33
2379192	Diazinon	19.2	Spike	P	0 - 29
2379192	Difenoconazole	21.1	Spike	P	0 - 34
2379192	Dimethenamid	4.14	Spike	P	0 - 39
2379192	Dimethomorph	22.7	Spike	P	0 - 51
2379192	Disulfoton	8.50	Spike	P	0 - 30
2379192	Dithiopyr	17.3	Spike	P	0 - 26
2379192	EPTC	3.66	Spike	P	0 - 43
2379192	Ethion	2.72	Spike	P	0 - 79
2379192	Ethoprop	5.68	Spike	P	0 - 29
2379192	Etridiazole	31.0	Spike	P	0 - 33
2379192	Fenamiphos	10.5	Spike	P	0 - 40
2379192	Fenbuconazole	14.5	Spike	P	0 - 74
2379192	Fipronil	9.32	Spike	P	0 - 29
2379192	Fipronil Desulfinyl	30.9	Spike	P	0 - 32
2379192	Fipronil Sulfide	5.40	Spike	P	0 - 30
2379192	Fipronil Sulfone	6.60	Spike	P	0 - 33
2379192	Fluazifop-P-butyl	4.79	Spike	P	0 - 38
2379192	Fludioxonil	4.36	Spike	P	0 - 29
2379192	Flumioxazin	10.6	Spike	P	0 - 51
2379192	Flutolanil	7.79	Spike	P	0 - 25
2379192	Fluxapyroxad	15.4	Spike	P	0 - 45
2379192	Fonofos	19.7	Spike	P	0 - 27

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P424368

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379192	Hexazinone	2.27	Spike	P	0 - 30
2379192	Imazalil	25.3	Spike	P	0 - 100
2379192	Iprodione	15.0	Spike	P	0 - 33
2379192	Loratadine	4.53	Spike	P	0 - 56
2379192	Malathion	1.87	Spike	P	0 - 37
2379192	Metalaxyl	2.72	Spike	P	0 - 40
2379192	Metolachlor	1.60	Spike	P	0 - 29
2379192	Metribuzin	6.08	Spike	P	0 - 45
2379192	Mevinphos	5.90	Spike	P	0 - 29
2379192	Molinate	13.7	Spike	P	0 - 33
2379192	Myclobutanil	4.81	Spike	P	0 - 26
2379192	Naled	17.7	Spike	P	0 - 37
2379192	Napropamide	12.8	Spike	P	0 - 44
2379192	Norflurazon	5.49	Spike	P	0 - 30
2379192	Octinoxate	8.04	Spike	P	0 - 45
2379192	Oxadiazon	5.56	Spike	P	0 - 28
2379192	Oxybenzone	12.5	Spike	P	0 - 46
2379192	Oxyfluorfen	13.6	Spike	P	0 - 28
2379192	Parathion Ethyl	11.6	Spike	P	0 - 31
2379192	Parathion Methyl	2.59	Spike	P	0 - 29
2379192	PBDE-47	6.56	Spike	P	0 - 36
2379192	PBDE-99	5.22	Spike	P	0 - 40
2379192	Pendimethalin	15.8	Spike	P	0 - 33
2379192	Phenytoin	4.13	Spike	P	0 - 100
2379192	Phorate	17.9	Spike	P	0 - 36
2379192	Prodiamine	7.16	Spike	P	0 - 71
2379192	Prometon	19.8	Spike	P	0 - 36
2379192	Prometryn	19.0	Spike	P	0 - 28
2379192	Pronamide	7.34	Spike	P	0 - 24
2379192	Propanil	10.1	Spike	P	0 - 28
2379192	Propargite	12.7	Spike	P	0 - 43
2379192	Propiconazole	4.72	Spike	P	0 - 33
2379192	Pyraflufen Ethyl	22.4	Spike	P	0 - 29
2379192	Pyridaben	6.02	Spike	P	0 - 30
2379192	Pyriproxyfen	14.7	Spike	P	0 - 79
2379192	Simazine	5.18	Spike	P	0 - 29
2379192	Stirophos	0.902	Spike	P	0 - 61
2379192	Sulfentrazone	18.0	Spike	P	0 - 33
2379192	Tebuconazole	7.15	Spike	P	0 - 69
2379192	Terbufos	20.7	Spike	P	0 - 29
2379192	Terbutylazine	7.47	Spike	P	0 - 32
2379192	Thiobencarb	17.6	Spike	P	0 - 26
2379192	Tri-o-cresyl Phosphate	8.59	Spike	P	0 - 33
2379192	Triadimefon	1.82	Spike	P	0 - 28

Reference Method: EPA 8270E

Batch ID: P424460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2380065	Aldrin	11.6	Spike	P	0 - 41

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P424460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2380065	Alpha-BHC	7.91	Spike	P	0 - 25
2380065	Alpha-Chlordane	6.14	Spike	P	0 - 33
2380065	Beta-BHC	7.09	Spike	P	0 - 36
2380065	Beta-Cyfluthrin	14.0	Spike	P	0 - 42
2380065	Bifenthrin	6.65	Spike	P	0 - 53
2380065	Chlorothalonil	1.02	Spike	P	0 - 71
2380065	Cis-Nonachlor	2.41	Spike	P	0 - 29
2380065	Cypermethrin	11.5	Spike	P	0 - 40
2380065	Dacthal	8.72	Spike	P	0 - 26
2380065	DDD-p,p'	1.71	Spike	P	0 - 39
2380065	DDE-p,p'	7.69	Spike	P	0 - 33
2380065	DDT-p,p'	2.45	Spike	P	0 - 40
2380065	Delta-BHC	2.18	Spike	P	0 - 37
2380065	Deltamethrin	2.54	Spike	P	0 - 100
2380065	Dichlobenil	2.47	Spike	P	0 - 40
2380065	Dicofol	8.39	Spike	P	0 - 31
2380065	Dieldrin	2.64	Spike	P	0 - 27
2380065	Endosulfan I	9.21	Spike	P	0 - 23
2380065	Endosulfan II	7.79	Spike	P	0 - 28
2380065	Endosulfan Sulfate	8.10	Spike	P	0 - 38
2380065	Endrin	2.47	Spike	P	0 - 63
2380065	Endrin Aldehyde	7.12	Spike	P	0 - 60
2380065	Endrin Ketone	8.99	Spike	P	0 - 37
2380065	Esfenvalerate	1.83	Spike	P	0 - 52
2380065	Ethalfuralin	1.46	Spike	P	0 - 23
2380065	Fenpropathrin	2.18	Spike	P	0 - 32
2380065	Gamma-BHC	1.22	Spike	P	0 - 17
2380065	Gamma-Chlordane	11.2	Spike	P	0 - 40
2380065	Heptachlor	0.0170	Spike	P	0 - 29
2380065	Heptachlor Epoxide	7.99	Spike	P	0 - 25
2380065	Hexachlorobenzene	2.80	Spike	P	0 - 36
2380065	Kepone	0.797	Spike	P	0 - 93
2380065	Lambda-Cyhalothrin	3.02	Spike	P	0 - 55
2380065	Methoprene	1.01	Spike	P	0 - 53
2380065	Methoxychlor	2.70	Spike	P	0 - 29
2380065	MGK-264	3.48	Spike	P	0 - 35
2380065	Mirex	15.9	Spike	P	0 - 46
2380065	Oxychlordane	9.60	Spike	P	0 - 29
2380065	Permethrin	7.21	Spike	P	0 - 44
2380065	Phenothrin	0.180	Spike	P	0 - 56
2380065	Piperonyl Butoxide	2.66	Spike	P	0 - 100
2380065	Prallethrin	6.85	Spike	P	0 - 42
2380065	Tau-Fluvalinate	5.66	Spike	P	0 - 54
2380065	Tetramethrin	1.19	Spike	P	0 - 51
2380065	Trans-Nonachlor	22.0	Spike	P	0 - 37
2380065	Triclosan Methyl	2.98	Spike	P	0 - 31
2380065	Trifluralin	2.47	Spike	P	0 - 30
2380515	PCB-1016	3.80	Spike	P	0 - 32
2380515	PCB-1260	29.9	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P424460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2380515	Chlordane	4.57	Spike	P	0 - 25
2380515	Toxaphene	0.553	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P424336

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2378951	Acesulfame K	3.32	Spike	P	0 - 30
2378951	AMPA	6.64	Spike	P	0 - 30
2378951	Endothall	1.07	Spike	P	0 - 30
2378951	Glufosinate	12.0	Spike	P	0 - 30
2378951	Glyphosate	1.09	Spike	P	0 - 30
2378951	Sucralose	6.14	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P424452

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2378952	2,4-D	12.9	Spike	P	0 - 30
2378952	2,4,5-T	0.720	Spike	P	0 - 30
2378952	Acetaminophen	3.23	Spike	P	0 - 30
2378952	Acetamiprid	13.2	Spike	P	0 - 30
2378952	Afidopyropen	19.8	Spike	P	0 - 30
2378952	Bentazon	12.3	Spike	P	0 - 30
2378952	Benzovindiflupyr	2.71	Spike	P	0 - 30
2378952	Carbamazepine	3.99	Spike	P	0 - 30
2378952	Clothianidin	2.87	Spike	P	0 - 30
2378952	Dinotefuran	2.29	Spike	P	0 - 30
2378952	Diuron	1.12	Spike	P	0 - 30
2378952	Fenuron	4.03	Spike	P	0 - 30
2378952	Fluridone	5.90	Spike	P	0 - 30
2378952	Hydrocodone	1.27	Spike	P	0 - 30
2378952	Ibuprofen	9.38	Spike	P	0 - 30
2378952	Imazapyr	0.581	Spike	P	0 - 30
2378952	Imidacloprid	4.99	Spike	P	0 - 30
2378952	Linuron	3.99	Spike	P	0 - 30
2378952	Mandestrobin	2.50	Spike	P	0 - 30
2378952	MCPP	3.17	Spike	P	0 - 30
2378952	Naproxen	3.55	Spike	P	0 - 30
2378952	Primidone	1.13	Spike	P	0 - 30
2378952	Pyraclostrobin	5.42	Spike	P	0 - 30
2378952	Silvex	7.89	Spike	P	0 - 30
2378952	Thiamethoxam	0.952	Spike	P	0 - 30
2378952	Tolfenpyrad	1.33	Spike	P	0 - 30
2378952	Triclopyr	7.52	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
 Batch ID: P424577

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379703	3-Hydroxycarbofuran	19.8	Spike	P	0 - 30
2379703	Aldicarb	25.6	Spike	P	0 - 30
2379703	Aldicarb Sulfone	17.0	Spike	P	0 - 30
2379703	Aldicarb Sulfoxide	19.3	Spike	P	0 - 30
2379703	Carbaryl	12.6	Spike	P	0 - 30
2379703	Carbofuran	10.9	Spike	P	0 - 30
2379703	Methiocarb	7.72	Spike	P	0 - 30
2379703	Methomyl	18.5	Spike	P	0 - 30
2379703	Oxamyl	13.2	Spike	P	0 - 30
2379703	Propoxur	8.09	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
 Batch ID: P424904

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2380253	Total Alkalinity	0.181	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
 Batch ID: P424911

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2380039	TDS	6.36	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
 Batch ID: P425192

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379139	Fluoride	0.479	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
 Batch ID: P424546

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2379689	Organic Carbon	0.385	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2379703
Field Sample ID: G4CE0206

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	42.5	P	30 - 160

Lab Sample ID: 2379704
Field Sample ID: G4CE0206

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	100	P	30 - 160
EPA 8321B	Acetaminophen-d4	88.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.1	P	30 - 160
EPA 8321B	Diuron-d6	52.1	P	30 - 160
EPA 8321B	Endothall-d6	111	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	98.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	83.3	P	30 - 160
EPA 8321B	Primidone-d5	92.2	P	30 - 160
EPA 8321B	Sucralose-d6	49.8	P	30 - 160

Lab Sample ID: 2379705
Field Sample ID: G4CE0206

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	91.5	P	29 - 130
EPA 8270E	Decachlorobiphenyl	72.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	59.8	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	65.5	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	64.4	P	30 - 101
EPA 8276	PCNB	83.3	P	48 - 121

Lab Sample ID: 2379706
Field Sample ID: G4CE0206

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	74.6	P	20 - 200
EPA 8270E	Simazine-d10	97.1	P	62 - 142
EPA 8270E	Terbufos-d10	82.9	P	58 - 132
EPA 8270E	Terphenyl-d14	78.1	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A116847

Included Lab Sample IDs: 2379693

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A116849

Included Lab Sample IDs: 2379693

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A116850

Included Lab Sample IDs: 2379695

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

Reference Method: SM 5310 B-2011

Run ID: A116895

Included Lab Sample IDs: 2379694

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

Reference Method: EPA 8321B

Run ID: A116897

Included Lab Sample IDs: 2379704

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	108	108	P/P	60 - 160
Endothall	104	107	P/P	60 - 160
Glufosinate	93.8	100	P/P	60 - 160
Glyphosate	86.2	99.0	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A116915

Included Lab Sample IDs: 2379694

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

Reference Method: EPA 8321B

Run ID: A116918

Included Lab Sample IDs: 2379704

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	103	103	P/P	50 - 150
2,4,5-T	124	106	P/P	50 - 150
Acetaminophen	115	113	P/P	60 - 160
Acetamiprid	139	141	P/P	50 - 150
Afidopyropen	138	140	P/P	50 - 150
Bentazon	111	112	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A116918
Included Lab Sample IDs: 2379704

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Benzovindiflupyr	123	129	P/P	50 - 150
Carbamazepine	115	126	P/P	60 - 150
Clothianidin	120	117	P/P	60 - 150
Dinotefuran	114	123	P/P	50 - 150
Diuron	144	142	P/P	60 - 160
Fenuron	115	115	P/P	60 - 150
Fluridone	123	122	P/P	60 - 160
Hydrocodone	119	121	P/P	60 - 150
Ibuprofen	123	119	P/P	50 - 160
Imazapyr	108	110	P/P	50 - 150
Imidacloprid	122	120	P/P	60 - 150
Linuron	108	112	P/P	60 - 150
Mandestrobin	136	132	P/P	50 - 150
MCPP	113	116	P/P	50 - 150
Naproxen	146	87.9	P/P	50 - 160
Primidone	107	109	P/P	60 - 150
Pyraclostrobin	115	118	P/P	60 - 150
Silvex	117	118	P/P	50 - 150
Thiamethoxam	128	121	P/P	50 - 150
Tolfenpyrad	109	110	P/P	60 - 150
Triclopyr	102	113	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A116920
Included Lab Sample IDs: 2379694

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	106	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A116932
Included Lab Sample IDs: 2379706

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	100		P	80 - 120
Avobenzene	100		P	80 - 120
Dechlorane Plus	99.7		P	80 - 120
Octinoxate	99.3		P	80 - 120
Oxybenzone	101		P	80 - 120
PBDE-47	98.3		P	80 - 120
PBDE-99	102		P	80 - 120
Tri-o-cresyl Phosphate	99.3		P	80 - 120

Reference Method: EPA 8321B
Run ID: A116935
Included Lab Sample IDs: 2379703

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	111	111	P/P	60 - 150
Aldicarb	103	113	P/P	60 - 150
Aldicarb Sulfone	116	118	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A116935
Included Lab Sample IDs: 2379703

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldicarb Sulfoxide	115	112	P/P	50 - 150
Carbaryl	111	107	P/P	60 - 150
Carbofuran	106	113	P/P	50 - 150
Methiocarb	105	103	P/P	50 - 150
Methomyl	115	115	P/P	50 - 150
Oxamyl	109	113	P/P	50 - 150
Propoxur	112	121	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A116936
Included Lab Sample IDs: 2379693

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.5	100	P/P	90 - 110
Sulfate	98.8	100	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A116950
Included Lab Sample IDs: 2379704

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	84.8	87.6	P/P	60 - 160
Sucralose	89.9	66.9	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A116961
Included Lab Sample IDs: 2379694

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	98.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A116975
Included Lab Sample IDs: 2379694

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.1	104	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A116983
Included Lab Sample IDs: 2379705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	101		P	80 - 120
PCB-1260	104		P	80 - 120

Reference Method: EPA 8276
Run ID: A117031
Included Lab Sample IDs: 2379705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 8276
 Run ID: A117031
 Included Lab Sample IDs: 2379705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.9		P	80 - 120
Toxaphene	88.8		P	80 - 120

Reference Method: EPA 8270E
 Run ID: A117034
 Included Lab Sample IDs: 2379706

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.1		P	80 - 120
Alachlor	88.7		P	80 - 120
Ametryn	120		P	80 - 120
Atrazine	98.5		P	80 - 120
Atrazine Desethyl	80.9		P	80 - 120
Azinphos Methyl	81.8		P	80 - 120
Azoxystrobin	96.8		P	80 - 120
Bromacil	114		P	80 - 120
Butylate	83.6		P	80 - 120
Caffeine	99.9		P	80 - 120
Carbophenothion	90.5		P	80 - 120
Carfentrazone Ethyl	85.4		P	80 - 120
Chlorfenapyr	87.7		P	80 - 120
Chlorpyrifos Ethyl	116		P	80 - 120
Chlorpyrifos Methyl	120		P	80 - 120
Coumaphos	95.1		P	80 - 120
Cyanazine	99.7		P	80 - 120
Cyprodinil	91.9		P	80 - 120
Demeton	112		P	80 - 120
Diazinon	102		P	80 - 120
Difenoconazole	90.5		P	80 - 120
Dimethenamid	112		P	80 - 120
Dimethomorph	107		P	80 - 120
Disulfoton	84.0		P	80 - 120
Dithiopyr	94.1		P	80 - 120
EPTC	95.9		P	80 - 120
Ethion	85.7		P	80 - 120
Ethoprop	118		P	80 - 120
Etridiazole	95.6		P	80 - 120
Fenamiphos	120		P	80 - 120
Fenbuconazole	103		P	80 - 120
Fipronil	87.3		P	80 - 120
Fipronil Desulfinyl	92.7		P	80 - 120
Fipronil Sulfide	99.1		P	80 - 120
Fipronil Sulfone	88.9		P	80 - 120
Fluazifop-P-butyl	91.3		P	80 - 120
Fludioxonil	95.9		P	80 - 120
Flumioxazin	90.3		P	80 - 120
Flutolanil	120		P	80 - 120
Fluxapyroxad	87.0		P	80 - 120
Fonofos	95.9		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	98.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117034
Included Lab Sample IDs: 2379706

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iprodione	100		P	80 - 120
Loratadine	90.7		P	80 - 120
Malathion	114		P	80 - 120
Metalaxyl	93.5		P	80 - 120
Metolachlor	117		P	80 - 120
Metribuzin	88.3		P	80 - 120
Mevinphos	91.5		P	80 - 120
Molinate	105		P	80 - 120
Myclobutanil	92.9		P	80 - 120
Naled	103		P	80 - 120
Napropamide	113		P	80 - 120
Norflurazon	85.5		P	80 - 120
Oxadiazon	105		P	80 - 120
Oxyfluorfen	87.5		P	80 - 120
Parathion Ethyl	113		P	80 - 120
Parathion Methyl	82.6		P	80 - 120
Pendimethalin	89.1		P	80 - 120
Phenytoin	89.1		P	80 - 120
Phorate	107		P	80 - 120
Prodiamine	108		P	80 - 120
Prometon	120		P	80 - 120
Prometryn	96.0		P	80 - 120
Pronamide	91.3		P	80 - 120
Propanil	106		P	80 - 120
Propargite	82.4		P	80 - 120
Propiconazole	95.0		P	80 - 120
Pyraflufen Ethyl	86.9		P	80 - 120
Pyridaben	98.3		P	80 - 120
Pyriproxyfen	95.3		P	80 - 120
Simazine	102		P	80 - 120
Stirophos	93.9		P	80 - 120
Sulfentrazone	98.8		P	80 - 120
Tebuconazole	88.0		P	80 - 120
Terbufos	96.6		P	80 - 120
Terbuthylazine	101		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	95.6		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117057
Included Lab Sample IDs: 2379705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	90.8		P	80 - 120
Alpha-BHC	108		P	80 - 120
Alpha-Chlordane	112		P	80 - 120
Beta-BHC	120		P	80 - 120
Beta-Cyfluthrin	110		P	80 - 120
Bifenthrin	103		P	80 - 120
Chlorothalonil	111		P	80 - 120
Cis-Nonachlor	94.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117057
Included Lab Sample IDs: 2379705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cypermethrin	90.5		P	80 - 120
Dacthal	92.3		P	80 - 120
DDD-p,p'	114		P	80 - 120
DDE-p,p'	108		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	119		P	80 - 120
Deltamethrin	110		P	80 - 120
Dichlobenil	107		P	80 - 120
Dicofol	95.0		P	80 - 120
Dieldrin	107		P	80 - 120
Endosulfan I	88.6		P	80 - 120
Endosulfan II	89.8		P	80 - 120
Endosulfan Sulfate	105		P	80 - 120
Endrin	107		P	80 - 120
Endrin Aldehyde	91.2		P	80 - 120
Endrin Ketone	97.7		P	80 - 120
Esfenvalerate	99.2		P	80 - 120
Ethalfuralin	99.5		P	80 - 120
Fenpropathrin	104		P	80 - 120
Gamma-BHC	93.8		P	80 - 120
Gamma-Chlordane	92.2		P	80 - 120
Heptachlor	93.3		P	80 - 120
Heptachlor Epoxide	91.0		P	80 - 120
Hexachlorobenzene	111		P	80 - 120
Kepone	65.4*		F	80 - 120
Lambda-Cyhalothrin	94.8		P	80 - 120
Methoprene	109		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	94.8		P	80 - 120
Mirex	93.9		P	80 - 120
Oxychlordane	97.9		P	80 - 120
Permethrin	114		P	80 - 120
Phenothrin	116		P	80 - 120
Piperonyl Butoxide	92.2		P	80 - 120
Prallethrin	104		P	80 - 120
Tau-Fluvalinate	105		P	80 - 120
Tetramethrin	109		P	80 - 120
Trans-Nonachlor	88.2		P	80 - 120
Triclosan Methyl	94.3		P	80 - 120
Trifluralin	99.7		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A117062
Included Lab Sample IDs: 2379693

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.5	96.0	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A117172

Included Lab Sample IDs: 2379693

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.1	100	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	101				2.52	
EPA 180.1 Rev. 2.0	Turbidity	102				7.29	
EPA 300.0 Rev. 2.1	Chloride	98.5	94.6	95.2		0.172	
	Sulfate	99.3	94.0	96.2		0.234	
EPA 350.1 Rev. 2.0	Ammonia-N	98.8	101	103			0.700
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	102	100			1.42
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	106	103	104			0.966
EPA 365.1 Rev. 2.0	Total-P	105	104	107			2.68
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	98.8	99.0			0.166
EPA 8270E	2-Ethylhexyl	105	95.6	100			4.60
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	79.3	71.6	85.5			17.7
	Alachlor	70.9	68.3	83.7			20.2
	Aldrin	65.4	66.9	59.5			11.6
	Alpha-BHC	97.9	96.4	104			7.91
	Alpha-Chlordane	88.7	110	103			6.14
	Ametryn	109					27.8
	Atrazine	88.1					3.14
	Atrazine Desethyl	52.3	56.6	61.7			4.52
	Avobenzone	134	113	114			1.00
	Azinphos Methyl	122	126	123			3.02
	Azoxystrobin	98.4	105	111			3.90
	Beta-BHC	130	133	143			7.09
	Beta-Cyfluthrin	92.0	104	90.6			14.0
	Bifenthrin	63.3	71.8	67.1			6.65
	Bromacil	79.3	85.0	80.4			4.34
	Butylate	56.5	55.8	52.0			6.94
	Caffeine	99.7	99.3	95.7			3.45
	Carbophenothion	98.7	108	108			0.330
	Carfentrazone Ethyl	82.7	82.0	81.0			1.31
	Chlorfenapyr	63.8	70.9	71.8			1.23
	Chlorothalonil	114	137	138			1.02
	Chlorpyrifos Ethyl	86.0	72.8	79.7			9.03
	Chlorpyrifos Methyl	91.5	89.0	108			19.4
	Cis-Nonachlor	75.5	78.7	76.9			2.41
	Coumaphos	140	155	139			11.4
	Cyanazine	245	260	232			11.5
	Cypermethrin	85.2	93.2	83.0			11.5
	Cyprodinil	107	113	133			16.8
	Dacthal	92.5	103	94.5			8.72
	DDD-p,p'	100	102	99.9			1.71
	DDE-p,p'	91.3	105	97.2			7.69
	DDT-p,p'	80.5	77.8	75.9			2.45
	Dechlorane Plus	121	79.1	74.8			5.60
	Delta-BHC	122	135	138			2.18
	Deltamethrin	95.8	107	104			2.54
	Demeton	102	129	124			3.94
	Diazinon	84.2	84.1	102			19.2
	Dichlobenil	98.6	64.3	65.9			2.47
	Dicofol	84.1	80.7	87.8			8.39
	Dieldrin	95.1	106	103			2.64
	Difenoconazole	138	176	142			21.1
	Dimethenamid	95.0	96.8	92.6			4.14

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS	MS		
EPA 8270E	Dimethomorph	117	116	146		22.7
	Disulfoton	83.5	88.5	96.4		8.50
	Dithiopyr	70.1	70.4	83.8		17.3
	Endosulfan I	83.9	94.3	86.0		9.21
	Endosulfan II	96.6	97.6	90.3		7.79
	Endosulfan Sulfate	119	109	118		8.10
	Endrin	95.7	106	104		2.47
	Endrin Aldehyde	89.6	89.1	83.0		7.12
	Endrin Ketone	102	97.4	107		8.99
	EPTC	54.2	50.0	48.2		3.66
	Esfenvalerate	83.5	110	108		1.83
	Ethalfuralin	81.8	77.2	76.1		1.46
	Ethion	68.4	71.2	69.3		2.72
	Ethoprop	97.4	110	117		5.68
	Etridiazole	48.4	49.2	36.0		31.0
	Fenamiphos	90.1	87.9	97.7		10.5
	Fenbuconazole	136	148	128		14.5
	Fenpropathrin	84.5	78.9	77.2		2.18
	Fipronil	69.0	79.0	87.4		9.32
	Fipronil Desulfinyl	64.9	63.1	88.0		30.9
	Fipronil Sulfide	91.1	116	109		5.40
	Fipronil Sulfone	116	117	108		6.60
	Fluazifop-P-butyl	93.4	107	102		4.79
	Fludioxonil	81.2	93.0	97.2		4.36
	Flumioxazin	72.5	97.5	108		10.6
	Flutolanil	78.7	85.2	92.3		7.79
	Fluxapyroxad	119	137	162		15.4
	Fonofos	87.2	89.4	109		19.7
	Gamma-BHC	99.7	93.2	94.4		1.22
	Gamma-Chlordane	79.8	97.0	86.7		11.2
	Heptachlor	73.7	73.6	73.5		0.0170
	Heptachlor Epoxide	82.7	88.9	82.1		7.99
	Hexachlorobenzene	74.4	73.0	71.0		2.80
	Hexazinone	94.0				2.27
	Imazalil	101	152	118		25.3
	Iprodione	126	148	172		15.0
	Kepone	157	174	175		0.797
	Lambda-Cyhalothrin	80.2	86.7	89.4		3.02
	Loratadine	95.6	106	111		4.53
	Malathion	99.1	98.8	97.0		1.87
	Metalaxyl	96.0	94.7	97.5		2.72
	Methoprene	80.6	103	102		1.01
	Methoxychlor	99.8	98.3	101		2.70
	Metolachlor	79.3	81.6	79.6		1.60
	Metribuzin	88.7	102	109		6.08
	Mevinphos	95.3	112	119		5.90
	MGK-264	108	119	115		3.48
	Mirex	76.1	73.8	62.9		15.9
	Molinate	75.3	86.3	75.3		13.7
	Myclobutanil	84.4	96.2	101		4.81
	Naled	99.5	105	126		17.7
	Napropamide	56.8	64.3	73.1		12.8
	Norflurazon	93.4	114	121		5.49
	Octinoxate	98.3	77.7	84.3		8.04

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Oxadiazon	91.4	93.5	87.8		5.56
	Oxybenzone	95.6	76.8	87.1		12.5
	Oxychlordane	81.0	90.9	82.5		9.60
	Oxyfluorfen	80.0	94.3	108		13.6
	Parathion Ethyl	95.5	100	113		11.6
	Parathion Methyl	131	150	154		2.59
	PBDE-47	104	83.2	88.8		6.56
	PBDE-99	105	85.0	89.6		5.22
	PCB-1016	83.9	86.1	89.4		3.80
	PCB-1260	96.4	121	89.7		29.9
	Pendimethalin	76.1	101	118		15.8
	Permethrin	93.4	101	94.3		7.21
	Phenothrin	87.2	89.8	90.0		0.180
	Phenytol	44.4	45.1	43.2		4.13
	Phorate	132	162	136		17.9
	Piperonyl Butoxide	122	136	140		2.66
	Prallethrin	109	132	123		6.85
	Prodiamine	75.1	91.4	85.1		7.16
	Prometon	96.8	109	133		19.8
	Prometryn	98.6	110	133		19.0
	Pronamide	74.1	81.2	87.4		7.34
	Propanil	95.4	98.5	89.1		10.1
	Propargite	82.4	79.1	89.8		12.7
	Propiconazole	83.4	113	119		4.72
	Pyraflufen Ethyl	84.1	78.5	98.3		22.4
	Pyridaben	101	99.9	107		6.02
	Pyriproxyfen	93.8	86.5	100		14.7
	Simazine	91.6	112	104		5.18
	Stirophos	97.2	98.8	99.7		0.902
	Sulfentrazone	93.1	151	112		18.0
	Tau-Fluvalinate	79.3	99.0	93.6		5.66
	Tebuconazole	86.3	86.2	95.0		7.15
	Terbufos	97.2	115	142		20.7
	Terbutylazine	88.9	96.5	104		7.47
	Tetramethrin	118	125	126		1.19
	Thiobencarb	111	117	98.4		17.6
	Trans-Nonachlor	73.6	88.1	70.6		22.0
	Tri-o-cresyl Phosphate	105	82.9	90.4		8.59
	Triadimefon	68.1	57.7	59.0		1.82
	Triclosan Methyl	80.3	98.5	95.6		2.98
	Trifluralin	82.2	76.3	78.2		2.47
EPA 8276	Chlordane	98.6	93.5	99.3		4.57
	Toxaphene	113	292	294		0.553
EPA 8321B	2,4-D	105	91.6	106		12.9
	2,4,5-T	84.4	100	99.6		0.720
	3-Hydroxycarbofuran	83.2	66.5	54.5		19.8
	Acesulfame K	103	96.0	99.2		3.32
	Acetaminophen	88.7	97.6	94.5		3.23
	Acetamiprid	98.6	77.5	88.5		13.2
	Afidopyropen	73.3	78.2	95.4		19.8
	Aldicarb	66.4	39.4	30.5		25.6
	Aldicarb Sulfone	94.8	76.2	64.3		17.0
	Aldicarb Sulfoxide	97.9	37.6	31.0		19.3
	AMPA	107	106	113		6.64

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Bentazon	85.6				12.3
	Benzovindiflupyr	92.3	90.0	92.5		2.71
	Carbamazepine	83.0	61.0	63.5		3.99
	Carbaryl	70.0	45.5	40.2		12.6
	Carbofuran	69.0	41.7	37.4		10.9
	Clothianidin	98.6	97.3	100		2.87
	Dinotefuran	98.0	91.6	93.7		2.29
	Diuron	89.9	58.1	58.8		1.12
	Endothall	123	128	127		1.07
	Fenuron	108	72.6	75.5		4.03
	Fluridone	98.1	91.7	83.9		5.90
	Glufosinate	126	108	122		12.0
	Glyphosate	105	104	105		1.09
	Hydrocodone	94.3	81.4	82.5		1.27
	Ibuprofen	108	81.5	89.5		9.38
	Imazapyr	93.9				0.581
	Imidacloprid	103	145	154		4.99
	Linuron	74.5	62.0	59.6		3.99
	Mandestrobin	107	94.9	97.3		2.50
	MCPP	105	117	114		3.17
	Methiocarb	63.0	58.8	54.4		7.72
	Methomyl	95.0	64.4	53.5		18.5
	Naproxen	86.8	82.3	79.4		3.55
	Oxamyl	97.1	77.0	67.4		13.2
	Primidone	95.2	99.6	98.4		1.13
	Propoxur	67.5	39.4	36.4		8.09
	Pyraclostrobin	70.5	75.4	79.6		5.42
	Silvex	82.8	78.3	84.8		7.89
	Sucralose	107	97.8	91.6		6.14
	Thiamethoxam	96.9	96.3	97.3		0.952
	Tolfenpyrad	33.5	49.6	49.0		1.33
	Triclopyr	84.6	101	109		7.52
SM 2320 B-2011	Total Alkalinity	97.5				0.181
SM 2540 C-2015	TDS	96.6				6.36
SM 2540 D-2015	TSS	87.7				
SM 4500-F- C-2011	Fluoride	97.0	96.8	97.4		0.479
SM 5310 B-2011	Organic Carbon	97.8	100			0.385

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2379693
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2379693
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2379693
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2379693
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2379694
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2379694
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2379694
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2379694
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2379695
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2379706
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2379705

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2379706
EPA 8270E	PCBs in water matrices by GC/MS/MS	2379705
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2379705
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2379703
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2379704
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2379693
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2379693
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2379693
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2379693
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2379694

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	01/11/2023			01/11/2023 14:24	Chandler E Cox	2379693
EPA 180.1 Rev. 2.0	01/11/2023			01/11/2023 13:29	Khloe J Berg	2379693
EPA 300.0 Rev. 2.1	01/11/2023			01/18/2023 13:18	Anna M. Plaviak	2379693
EPA 350.1 Rev. 2.0	01/11/2023			01/18/2023 12:55	Ping Hua	2379694
EPA 351.2 Rev. 2.0	01/11/2023	01/13/2023 09:42	Simonne.V. Calhoun	01/19/2023 10:14	Samantha L Bates	2379694
EPA 353.2 Rev. 2.0	01/11/2023			01/17/2023 11:45	Beverly Y. Sanders	2379694
EPA 365.1 Rev. 2.0	01/11/2023	01/13/2023 15:29	Adam P Silver	01/17/2023 10:56	James L Waggeberby	2379694
EPA 365.1 Rev. 2.0 dissolved	01/11/2023			01/11/2023 15:09	Elise M. Gillis	2379695
EPA 8270E	01/11/2023	01/13/2023 08:00	Fe-Val Siddell	01/18/2023 19:31	Vandana T. Nagar	2379705
	01/11/2023	01/13/2023 08:00	Fe-Val Siddell	01/18/2023 21:22	Julie Wi	2379705
	01/11/2023	01/14/2023 08:00	Fe-Val Siddell	01/18/2023 01:43	Arthur Maknenko	2379706
	01/11/2023	01/14/2023 08:00	Fe-Val Siddell	01/18/2023 18:25	Michael Poppell	2379706
EPA 8276	01/11/2023	01/13/2023 08:00	Fe-Val Siddell	01/19/2023 07:54	Lipi Saha	2379705
EPA 8321B	01/11/2023	01/12/2023 09:30	June Rhew	01/12/2023 15:49	Manjita Shrestha	2379704
	01/11/2023	01/12/2023 09:30	June Rhew	01/13/2023 04:06	Manjita Shrestha	2379704
	01/11/2023	01/13/2023 09:00	June Rhew	01/13/2023 20:39	Juyoung Kim	2379704
	01/11/2023	01/17/2023 09:30	June Rhew	01/17/2023 22:33	Juyoung Kim	2379703
SM 2320 B-2011	01/11/2023			01/23/2023 16:59	Dale L. Simmons	2379693
SM 2540 C-2015	01/11/2023			01/13/2023 16:42	Yijie Li	2379693
SM 2540 D-2015	01/11/2023			01/13/2023 16:42	Yijie Li	2379693
SM 4500-F- C-2011	01/11/2023			01/31/2023 05:04	Dale L. Simmons	2379693
SM 5310 B-2011	01/11/2023			01/13/2023 05:08	Khloe J Berg	2379694