

Chemical Analysis Report

SO-DIST-2023-09-22-02

Florida DEP Laboratory
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DOH Accreditation E31780

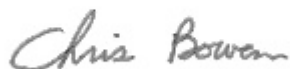
Event Description: **2022 SMP: Hatchett Creek**
Request ID: **RQ-2023-09-18-50**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
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FLDEP South District Office
2295 Victoria Ave. Suite 314
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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 10-OCT-2023 10:43



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: Hatchett Creek Tidal 2

Collection Date/Time: 09/21/2023 09:25

Field ID: G3SD0192

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2439265	DEP SOP: NU-094-1	Color (true)	47		PCU	P435402	
	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P435405	
	EPA 300.0 Rev. 2.1	Chloride	7.7E+03		mg Cl/L	P435833	
		Sulfate	1.1E+03		mg SO4/L	P435836	
	SM 2320 B-2011	Total Alkalinity	163		mg CaCO3/L	P435587	
	SM 2540 C-2015	TDS	1.36E+04		mg/L	P435880	
	SM 2540 D-2015	TSS	3	UA	mg/L	P435852	
2439266	SM 4500-F- C-2011	Fluoride	0.62		mg F/L	P435590	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.052		mg N/L	P435671	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.73		mg N/L	P435936	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.059		mg N/L	P435820	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P435688	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P435643	

Ref. Method and Comment:

SM 2540 C-2015: The reported result is consistent with the conductivity measured in the laboratory, 23200 umhos/cm.

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

Sample Location: Alligator Creek at Inflow

Collection Date/Time: 09/21/2023 10:15

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2439298	EPA 8321B	Aldicarb	0.020	U	ug/L	P435381	MS
		Aldicarb Sulfone	0.0020	U	ug/L	P435381	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P435381	
		Carbaryl	0.0020	U	ug/L	P435381	
		Carbofuran	0.0020	U	ug/L	P435381	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P435381	
		Methiocarb	0.0020	U	ug/L	P435381	
		Methomyl	0.0020	U	ug/L	P435381	
		Oxamyl	0.0020	U	ug/L	P435381	
		Propoxur	0.0020	U	ug/L	P435381	
2439299		2,4-D	0.17		ug/L	P435439	
		Acesulfame K	0.10	U	ug/L	P435314	
		2,4,5-T	0.0040	U	ug/L	P435439	
		AMPA	0.29	I	ug/L	P435314	
		Acetaminophen	0.011	I	ug/L	P435439	
		Acetamiprid	0.0020	U	ug/L	P435439	
		Endothall	0.25	U	ug/L	P435314	
		Glufosinate	0.10	U	ug/L	P435314	
		Glyphosate	2.3		ug/L	P435314	
		Afidopyropen	0.0020	U	ug/L	P435439	
		Bentazon	0.0062		ug/L	P435439	
		Sucralose	0.76		ug/L	P435314	
		Benzovindiflupyr	0.0020	U	ug/L	P435439	
		Carbamazepine	9.8E-04	I	ug/L	P435439	
		Clothianidin	0.0020	U	ug/L	P435439	
		Dinotefuran	0.0020	U	ug/L	P435439	
		Diuron	0.0084		ug/L	P435439	
		Fenuron	0.032	U	ug/L	P435439	
		Fluridone	0.017		ug/L	P435439	
		Imazapyr	0.39		ug/L	P435439	
		Hydrocodone	0.0020	U	ug/L	P435439	
		Ibuprofen	0.080	U	ug/L	P435439	
		Imidacloprid	0.075		ug/L	P435439	
		Linuron	0.0040	U	ug/L	P435439	
		Mandestrobin	0.0020	U	ug/L	P435439	
		MCP	0.037		ug/L	P435439	
		Naproxen	0.0080	U	ug/L	P435439	
		Primidone	0.0046	I	ug/L	P435439	
		Pyraclostrobin	0.0020	U	ug/L	P435439	
		Silvex	0.0040	U	ug/L	P435439	
		Thiamethoxam	0.0020	U	ug/L	P435439	
		Tolfenpyrad	0.0020	U	ug/L	P435439	
		Triclopyr	0.0040	U	ug/L	P435439	
2439302	EPA 8270E	Aldrin	0.68	U	ng/L	P435296	

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2439302	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P435296	
		Alpha-Chlordane	0.21	U	ng/L	P435296	
		PCB-1016	2.1	U	ng/L	P435296	
		Beta-BHC	0.10	U	ng/L	P435296	
		PCB-1221	2.1	U	ng/L	P435296	
		Beta-Cyfluthrin	1.3	U	ng/L	P435296	
		PCB-1232	2.1	U	ng/L	P435296	
		Bifenthrin	0.57	I	ng/L	P435296	
		PCB-1242	2.1	U	ng/L	P435296	
		Carbophenothion	0.94	U	ng/L	P435296	
		PCB-1248	2.1	U	ng/L	P435296	
		Chlorothalonil	3.8	U	ng/L	P435296	
		PCB-1254	2.1	U	ng/L	P435296	
		Cis-Nonachlor	0.21	U	ng/L	P435296	
		PCB-1260	2.1	U	ng/L	P435296	
		Cypermethrin	1.6	U	ng/L	P435296	
		Dacthal	0.16	U	ng/L	P435296	
		DDD-p,p'	0.26	U	ng/L	P435296	
		DDE-p,p'	0.21	U	ng/L	P435296	
		DDT-p,p'	0.83	U	ng/L	P435296	
		Delta-BHC	0.42	U	ng/L	P435296	
		Deltamethrin	1.3	U	ng/L	P435296	
		Dichlobenil	0.26	U	ng/L	P435296	
		Dicofol	1.3	U	ng/L	P435296	
		Dieldrin	0.42	U	ng/L	P435296	
		Endosulfan I	0.42	U	ng/L	P435296	MS
		Endosulfan II	0.94	U	ng/L	P435296	
		Endosulfan Sulfate	0.31	U	ng/L	P435296	
		Endrin	0.94	U	ng/L	P435296	
		Endrin Aldehyde	0.78	U	ng/L	P435296	
		Endrin Ketone	0.42	U	ng/L	P435296	
		Esfenvalerate	0.78	U	ng/L	P435296	
		Ethalfuralin	0.16	U	ng/L	P435296	
		Fenpropathrin	0.26	U	ng/L	P435296	
		Gamma-BHC	0.13	U	ng/L	P435296	
		Gamma-Chlordane	0.27	I	ng/L	P435296	
		Heptachlor	0.21	U	ng/L	P435296	
		Heptachlor Epoxide	0.26	U	ng/L	P435296	
		Hexachlorobenzene**	1.0	U	ng/L	P435296	
		Kepone	14	UJ	ng/L	P435296	CCV
		Lambda-Cyhalothrin	0.78	U	ng/L	P435296	
		Methoprene	0.78	U	ng/L	P435296	
		Methoxychlor	0.31	U	ng/L	P435296	
		MGK-264	0.21	U	ng/L	P435296	MS
		Mirex	0.36	U	ng/L	P435296	

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2439302	EPA 8270E	Oxychlordane	0.31	U	ng/L	P435296	MS
		Permethrin	1.7	U	ng/L	P435296	
		Phenothrin	0.94	U	ng/L	P435296	
		Piperonyl Butoxide	1.9		ng/L	P435296	
		Prallethrin	2.1	U	ng/L	P435296	
		Tau-Fluvalinate	0.26	U	ng/L	P435296	
		Tetramethrin	0.78	U	ng/L	P435296	
		Trans-Nonachlor	0.21	U	ng/L	P435296	MS
		Triclosan Methyl	0.16	U	ng/L	P435296	
		Trifluralin	0.36	I	ng/L	P435296	
	EPA 8276	Chlordane	2.4	I	ng/L	P435296	
		Toxaphene	16	U	ng/L	P435296	
2439303	EPA 8270E	Oxybenzone**	10	U	ng/L	P435385	
		Acetochlor	0.20	U	ng/L	P435385	
		Octinoxate**	150	U	ng/L	P435385	
		Alachlor	0.41	U	ng/L	P435385	
		Avobenzone**	100	U	ng/L	P435385	
		Ametryn	1.1	U	ng/L	P435385	
		Atrazine	14		ng/L	P435385	
		PBDE-47**	4.1	U	ng/L	P435385	
		Atrazine Desethyl	9.3		ng/L	P435385	
		PBDE-99**	5.1	U	ng/L	P435385	
		Azinphos Methyl	3.1	U	ng/L	P435385	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P435385	
		Azoxystrobin	0.41	U	ng/L	P435385	
		Bromacil	2.0	I	ng/L	P435385	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P435385	
		Butylate	0.20	U	ng/L	P435385	
		Dechlorane Plus**	31	U	ng/L	P435385	
		Caffeine**	7.7	U	ng/L	P435385	
		Dechlorane 602**	5.1	U	ng/L	P435385	
		Carbophenothion	0.51	U	ng/L	P435385	
		Dechlorane 603**	4.1	UJ	ng/L	P435385	LCS
		Carfentrazone Ethyl	0.15	U	ng/L	P435385	
		Hexabromobenzene**	6.1	U	ng/L	P435385	
		Chlorfenapyr	0.31	U	ng/L	P435385	
		PBB-153**	8.2	UJ	ng/L	P435385	LCS
		Chlorpyrifos Ethyl	0.31	U	ng/L	P435385	MS
		Pentabromotoluene**	3.1	U	ng/L	P435385	
		Chlorpyrifos Methyl	0.10	U	ng/L	P435385	
		Tris(2-chloroethyl) phosphate (TCEP)**	76	I	ng/L	P435385	
		Coumaphos	1.1	U	ng/L	P435385	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	130		ng/L	P435385	
		Cyanazine	5.1	U	ng/L	P435385	

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2439303	EPA 8270E	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	9.8		ng/L	P435385	
		Cyprodinil	0.20	U	ng/L	P435385	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P435385	
		Demeton	3.6	U	ng/L	P435385	
		Diazinon	0.13	U	ng/L	P435385	
		Difenoconazole	0.61	U	ng/L	P435385	
		Dimethenamid	0.10	U	ng/L	P435385	
		Dimethomorph	0.31	U	ng/L	P435385	
		Disulfoton	0.61	U	ng/L	P435385	
		Dithiopyr	1.0	U	ng/L	P435385	
		EPTC	0.51	U	ng/L	P435385	
		Ethion	0.31	U	ng/L	P435385	
		Ethoprop	0.13	U	ng/L	P435385	
		Etridiazole	0.10	U	ng/L	P435385	
		Fenamiphos	0.46	U	ng/L	P435385	
		Fenbuconazole	0.51	U	ng/L	P435385	
		Fipronil	0.20	U	ng/L	P435385	
		Fipronil Desulfinyl**	0.37	I	ng/L	P435385	
		Fipronil Sulfide	0.10	U	ng/L	P435385	
		Fipronil Sulfone	0.13	I	ng/L	P435385	
		Fluazifop-P-butyl	0.10	U	ng/L	P435385	
		Fludioxonil	0.10	U	ng/L	P435385	
		Flumioxazin	3.1	U	ng/L	P435385	
		Flutolanil	0.10	U	ng/L	P435385	
		Fluxapyroxad	0.26	UJ	ng/L	P435385	LCS
		Fonofos	0.15	U	ng/L	P435385	
		Hexazinone	0.51	U	ng/L	P435385	
		Imazalil	0.67	U	ng/L	P435385	
		Iprodione	0.51	UJ	ng/L	P435385	LCS
		Loratadine**	0.31	U	ng/L	P435385	
		Malathion	0.36	UJ	ng/L	P435385	LCS, MS
		Metalaxyl	2.9		ng/L	P435385	
		Metolachlor	1.1	I	ng/L	P435385	
		Metribuzin	0.41	U	ng/L	P435385	
		Mevinphos	1.0	U	ng/L	P435385	
		Molinate	0.26	U	ng/L	P435385	
		Myclobutanil	0.36	U	ng/L	P435385	
		Naled	2.6	U	ng/L	P435385	
		Napropamide	0.72	U	ng/L	P435385	
		Norflurazon	5.0	I	ng/L	P435385	
		Oxadiazon	0.36	U	ng/L	P435385	
		Oxyfluorfen	0.20	U	ng/L	P435385	
		Parathion Ethyl	0.15	U	ng/L	P435385	
		Parathion Methyl	0.20	U	ng/L	P435385	

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2439303	EPA 8270E	Pendimethalin	0.77	U	ng/L	P435385	
		Phenytion**	5.4	U	ng/L	P435385	
		Phorate	0.26	U	ng/L	P435385	
		Prodiamine	0.20	U	ng/L	P435385	
		Prometon	3.1	U	ng/L	P435385	
		Prometryn	0.36	U	ng/L	P435385	
		Pronamide	0.10	U	ng/L	P435385	
		Propanil	0.10	U	ng/L	P435385	
		Propargite	0.82	U	ng/L	P435385	
		Propiconazole	1.2	I	ng/L	P435385	
		Pyraflufen Ethyl	0.31	U	ng/L	P435385	
		Pyridaben	1.4	U	ng/L	P435385	
		Pyriproxyfen	0.26	U	ng/L	P435385	
		Simazine	0.26	U	ng/L	P435385	
		Stirophos	0.41	UJ	ng/L	P435385	LCS, MS
		Sulfentrazone	1.4	U	ng/L	P435385	
		Tebuconazole	1.4	U	ng/L	P435385	
		Terbufos	0.20	U	ng/L	P435385	
		Terbuthylazine	0.20	U	ng/L	P435385	
		Thiobencarb	0.51	U	ng/L	P435385	
		Triadimefon	0.15	U	ng/L	P435385	

Ref. Method and Comment:

EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

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

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

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P435402

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435405

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435833

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435836

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435671

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435936

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435820

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435688

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

Reference Method: EPA 8270E
Batch ID: P435296

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435296

Component	Result	Code	Units
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435385

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435385

Component	Result	Code	Units
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8276

Batch ID: P435296

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P435314

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

Reference Method: EPA 8321B
Batch ID: P435381

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: P435439

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P435439

Component	Result	Code	Units
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P435587

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

Reference Method: SM 2540 C-2015
Batch ID: P435880

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P435852

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P435590

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P435643

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: P435402

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435405

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435833

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435836

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435671

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435936

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: P435820

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435688

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

Reference Method: EPA 8270E
Batch ID: P435296

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.4		P	30 - 96.0
Alpha-BHC	77.1		P	70 - 109
Alpha-Chlordane	70.8		P	45 - 107
Beta-BHC	75.6		P	64 - 138

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435296

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	53.6		P	17 - 141
Bifenthrin	40.6		P	10 - 113
Carbophenothion	40.4		P	24 - 91.0
Chlorothalonil	42.8		P	26 - 180
Cis-Nonachlor	53.2		P	37 - 102
Cypermethrin	45.1		P	20 - 133
Dacthal	70.3		P	69 - 114
DDD-p,p'	66.0		P	42 - 105
DDE-p,p'	60.2		P	42 - 106
DDT-p,p'	63.5		P	42 - 107
Delta-BHC	77.3		P	67 - 144
Deltamethrin	63.1		P	15 - 149
Dichlobenil	73.1		P	46 - 117
Dicofol	63.2		P	34 - 114
Dieldrin	64.8		P	50 - 108
Endosulfan I	75.2		P	55 - 104
Endosulfan II	65.7		P	51 - 111
Endosulfan Sulfate	72.4		P	56 - 121
Endrin	66.7		P	10 - 106
Endrin Aldehyde	67.6		P	34 - 114
Endrin Ketone	79.8		P	63 - 177
Esfenvalerate	50.2		P	29 - 143
Ethalfuralin	63.0		P	46 - 96.0
Fenpropathrin	51.3		P	28 - 115
Gamma-BHC	74.7		P	65 - 121
Gamma-Chlordane	72.9		P	39 - 103
Heptachlor	62.4		P	39 - 94.0
Heptachlor Epoxide	70.5		P	54 - 104
Hexachlorobenzene	57.2		P	36 - 100
Kepone	137		P	10 - 225
Lambda-Cyhalothrin	38.2		P	10 - 135
Methoprene	41.3		P	10 - 109
Methoxychlor	71.7		P	52 - 112
MGK-264	84.7		P	44 - 117
Mirex	45.9		P	20 - 90.0
Oxychlordane	69.6		P	44 - 102
PCB-1016	72.9		P	45 - 107
PCB-1260	78.8		P	40 - 118
Permethrin	54.7		P	18 - 135
Phenothrin	37.9		P	10 - 102
Piperonyl Butoxide	82.4		P	28 - 156
Prallethrin	58.1		P	28 - 113
Tau-Fluvalinate	42.2		P	10 - 123
Tetramethrin	77.9		P	18 - 158
Trans-Nonachlor	62.1		P	39 - 104
Triclosan Methyl	70.5		P	54 - 108
Trifluralin	66.5		P	46 - 97.0

Reference Method: EPA 8270E

Batch ID: P435385

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

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	142		P	42 - 162
Acetochlor	85.2		P	69 - 123
Alachlor	80.3		P	65 - 118
Ametryn	111		P	58 - 141
Atrazine	109		P	73 - 118
Atrazine Desethyl	92.3		P	32 - 125
Avobenzone	184		P	40 - 203
Azinphos Methyl	191		P	36 - 197
Azoxystrobin	118		P	58 - 226
Bromacil	94.6		P	48 - 120
Butylate	51.6		P	27 - 85.0
Caffeine	122		P	40 - 137
Carbophenothion	104		P	54 - 132
Carfentrazone Ethyl	122		P	60 - 142
Chlorfenapyr	106		P	53 - 117
Chlorpyrifos Ethyl	74.3		P	59 - 116
Chlorpyrifos Methyl	108		P	66 - 119
Coumaphos	172		P	11 - 234
Cyanazine	141		P	61 - 248
Cyprodinil	80.9		P	50 - 147
Dechlorane 602	96.1		P	50 - 150
Dechlorane 603	159		F	50 - 150
Dechlorane Plus	170		P	47 - 182
Demeton	97.4		P	30 - 138
Diazinon	115		P	67 - 126
Difenoconazole	179		P	38 - 205
Dimethenamid	85.8		P	57 - 111
Dimethomorph	127		P	16 - 212
Disulfoton	92.7		P	46 - 126
Dithiopyr	89.4		P	62 - 115
EPTC	47.0		P	28 - 80.0
Ethion	73.3		P	24 - 122
Ethoprop	110		P	62 - 113
Etridiazole	45.5		P	28 - 92.0
Fenamiphos	105		P	57 - 128
Fenbuconazole	96.2		P	52 - 155
Fipronil	79.6		P	63 - 130
Fipronil Desulfinyl	86.9		P	61 - 130
Fipronil Sulfide	83.2		P	56 - 117
Fipronil Sulfone	77.1		P	52 - 118
Fluazifop-P-butyl	96.6		P	61 - 128
Fludioxonil	77.6		P	59 - 129
Flumioxazin	201		P	30 - 250
Flutolanil	80.4		P	53 - 127
Fluxapyroxad	187		F	42 - 132
Fonofos	104		P	61 - 110
Hexabromobenzene	122		P	50 - 150
Hexazinone	110		P	46 - 139
Imazalil	80.7		P	40 - 139
Iprodione	240		F	40 - 146
Loratadine	169		P	10 - 224
Malathion	155		F	61 - 135

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metalaxyl	88.3		P	58 - 121
Metolachlor	90.3		P	64 - 118
Metribuzin	106		P	45 - 245
Mevinphos	94.3		P	49 - 118
Molinate	71.0		P	42 - 92.0
Myclobutanil	79.1		P	55 - 127
Naled	38.7		P	10 - 114
Napropamide	79.1		P	39 - 121
Norflurazon	86.4		P	55 - 129
Octinoxate	135		P	26 - 166
Oxadiazon	77.5		P	54 - 115
Oxybenzone	134		P	49 - 135
Oxyfluorfen	119		P	64 - 139
Parathion Ethyl	107		P	70 - 111
Parathion Methyl	127		P	76 - 136
PBB-153	152		F	50 - 150
PBDE-47	109		P	41 - 148
PBDE-99	111		P	38 - 147
Pendimethalin	93.2		P	52 - 118
Pentabromotoluene	118		P	50 - 150
Phenytol	76.0		P	10 - 162
Phorate	69.3		P	40 - 122
Prodiamine	39.0		P	26 - 141
Prometon	104		P	54 - 122
Prometryn	80.7		P	61 - 128
Pronamide	106		P	72 - 121
Propanil	87.6		P	45 - 144
Propargite	104		P	10 - 199
Propiconazole	87.5		P	56 - 127
Pyraflufen Ethyl	98.2		P	56 - 140
Pyridaben	129		P	26 - 211
Pyriproxyfen	104		P	33 - 194
Simazine	99.7		P	67 - 121
Stirophos	166		F	20 - 142
Sulfentrazone	83.8		P	21 - 144
Tebuconazole	70.1		P	10 - 122
Terbufos	127		P	60 - 129
Terbuthylazine	97.3		P	69 - 113
Tetradecachloro-m-terphenyl	147		P	70 - 200
Thiobencarb	89.2		P	51 - 120
Tri-o-cresyl Phosphate	145		P	49 - 150
Triadimefon	92.3		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	139		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	130		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	138		P	70 - 180

Reference Method: EPA 8276

Batch ID: P435296

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	72.9		P	52 - 117
Toxaphene	82.9		P	44 - 125

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P435314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	118		P	40 - 150
AMPA	92.1		P	40 - 150
Endothall	106		P	40 - 150
Glufosinate	114		P	40 - 150
Glyphosate	90.4		P	40 - 150
Sucralose	88.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435381

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	82.1		P	40 - 150
Aldicarb	42.4		P	30 - 150
Aldicarb Sulfone	100		P	40 - 150
Aldicarb Sulfoxide	131		P	40 - 150
Carbaryl	79.5		P	40 - 150
Carbofuran	85.6		P	40 - 150
Methiocarb	64.8		P	40 - 150
Methomyl	89.5		P	40 - 150
Oxamyl	100		P	40 - 150
Propoxur	90.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435439

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	90.0		P	40 - 150
2,4,5-T	108		P	40 - 150
Acetaminophen	88.7		P	30 - 150
Acetamiprid	89.8		P	40 - 150
Afidopyropen	66.8		P	30 - 150
Bentazon	91.2		P	30 - 150
Benzovindiflupyr	86.6		P	40 - 150
Carbamazepine	86.7		P	40 - 150
Clothianidin	92.4		P	40 - 150
Dinotefuran	96.6		P	40 - 150
Diuron	79.0		P	40 - 150
Fenuron	90.6		P	40 - 150
Fluridone	93.9		P	40 - 150
Hydrocodone	94.6		P	40 - 150
Ibuprofen	63.6		P	40 - 150
Imazapyr	76.1		P	40 - 150
Imidacloprid	87.8		P	40 - 150
Linuron	67.3		P	40 - 150
Mandestrobin	91.4		P	40 - 150
MCPP	120		P	40 - 150
Naproxen	63.5		P	40 - 150
Primidone	77.6		P	40 - 150
Pyraclostrobin	85.7		P	40 - 150
Silvex	96.7		P	40 - 150
Thiamethoxam	95.5		P	40 - 150
Tolfenpyrad	55.4		P	30 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P435439

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	109		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P435587

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.8		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P435880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	91.8		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P435852

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

Reference Method: SM 4500-F- C-2011
Batch ID: P435590

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.7		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435643

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435833

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439768	Chloride	101		P	90 - 110
2439794	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435836

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439768	Sulfate	103		P	90 - 110
2439794	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435671

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438469	Ammonia-N	100	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435936

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439266	Kjeldahl Nitrogen	96.6	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435820

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439002	NO2NO3-N	98.7	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435688

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440243	Total-P	104	105	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P435296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438896	Aldrin	46.4	44.7	P/P	24 - 81.0
2438896	Alpha-BHC	88.9	92.7	P/P	65 - 110
2438896	Alpha-Chlordane	89.9	99.1	P/P	43 - 119
2438896	Beta-BHC	76.3	84.9	P/P	54 - 165
2438896	Beta-Cyfluthrin	60.9	57.1	P/P	27 - 165
2438896	Bifenthrin	43.3	56.2	P/P	17 - 117
2438896	Carbophenothion	45.8	49.6	P/P	21 - 108
2438896	Chlorothalonil	128	95.0	P/P	10 - 255
2438896	Cis-Nonachlor	59.6	56.2	P/P	34 - 98.0
2438896	Cypermethrin	52.9	50.6	P/P	25 - 143
2438896	Dacthal	81.4	84.0	P/P	55 - 139
2438896	DDD-p,p'	54.6	60.5	P/P	30 - 109
2438896	DDE-p,p'	55.0	53.8	P/P	35 - 106
2438896	DDT-p,p'	58.3	59.4	P/P	41 - 101

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438896	Delta-BHC	104	90.0	P/P	58 - 165
2438896	Deltamethrin	52.8	53.9	P/P	10 - 194
2438896	Dichlobenil	79.6	78.7	P/P	22 - 114
2438896	Dicofol	64.2	64.7	P/P	17 - 133
2438896	Dieldrin	53.2	56.7	P/P	45 - 129
2438896	Endosulfan I	99.2	112	P/F	49 - 104
2438896	Endosulfan II	70.3	63.6	P/P	37 - 117
2438896	Endosulfan Sulfate	62.5	76.4	P/P	38 - 128
2438896	Endrin	57.6	59.3	P/P	35 - 116
2438896	Endrin Aldehyde	53.2	64.8	P/P	19 - 108
2438896	Endrin Ketone	73.0	71.3	P/P	44 - 134
2438896	Esfenvalerate	57.7	57.2	P/P	27 - 176
2438896	Ethalfuralin	59.1	60.2	P/P	49 - 100
2438896	Fenpropathrin	45.3	51.5	P/P	34 - 117
2438896	Gamma-BHC	106	111	P/P	59 - 129
2438896	Gamma-Chlordane	86.4	106	P/P	33 - 107
2438896	Heptachlor	76.1	76.1	P/P	37 - 94.0
2438896	Heptachlor Epoxide	102	116	P/P	38 - 118
2438896	Hexachlorobenzene	59.7	68.3	P/P	35 - 97.0
2438896	Lambda-Cyhalothrin	54.8	50.9	P/P	23 - 190
2438896	Methoprene	41.2	48.4	P/P	21 - 109
2438896	Methoxychlor	66.0	65.9	P/P	46 - 118
2438896	MGK-264	107	149	P/F	39 - 122
2438896	Mirex	50.6	46.8	P/P	25 - 90.0
2438896	Oxychlordane	86.4	102	P/F	42 - 100
2438896	Permethrin	57.4	49.9	P/P	33 - 181
2438896	Phenothrin	50.0	45.5	P/P	12 - 125
2438896	Piperonyl Butoxide	82.2	85.7	P/P	10 - 178
2438896	Prallethrin	72.4	61.9	P/P	24 - 122
2438896	Tau-Fluvalinate	51.2	53.1	P/P	13 - 151
2438896	Tetramethrin	68.4	80.2	P/P	16 - 172
2438896	Trans-Nonachlor	87.7	105	P/F	39 - 100
2438896	Triclosan Methyl	58.6	60.7	P/P	43 - 110
2438896	Trifluralin	60.7	61.9	P/P	45 - 94.0
2438918	PCB-1016	73.5	69.1	P/P	45 - 107
2438918	PCB-1260	82.9	71.6	P/P	40 - 112

Reference Method: EPA 8270E

Batch ID: P435385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438596	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	131	120	P/P	26 - 165
2438596	Acetochlor	93.9	83.0	P/P	67 - 124
2438596	Alachlor	75.9	70.9	P/P	60 - 120
2438596	Ametryn	116	134	P/P	54 - 216
2438596	Atrazine	106	104	P/P	66 - 128
2438596	Atrazine Desethyl	97.3	100	P/P	15 - 122
2438596	Avobenzone	156	170	P/P	37 - 178
2438596	Azinphos Methyl	220	200	P/P	40 - 292
2438596	Azoxystrobin	151	120	P/P	35 - 220
2438596	Butylate	54.5	65.3	P/P	20 - 83.0
2438596	Caffeine	139	136	P/P	10 - 194

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438596	Carbophenothion	122	95.5	P/P	57 - 127
2438596	Carfentrazone Ethyl	140	112	P/P	51 - 141
2438596	Chlorfenapyr	106	91.0	P/P	46 - 111
2438596	Chlorpyrifos Ethyl	123	110	F/P	52 - 120
2438596	Chlorpyrifos Methyl	118	96.8	P/P	63 - 119
2438596	Coumaphos	178	202	P/P	10 - 228
2438596	Cyanazine	159	126	P/P	59 - 241
2438596	Cyprodinil	114	73.3	P/P	47 - 146
2438596	Dechlorane 602	75.0	63.1	P/P	50 - 150
2438596	Dechlorane 603	149	139	P/P	50 - 150
2438596	Dechlorane Plus	146	148	P/P	50 - 150
2438596	Demeton	84.0	91.6	P/P	40 - 136
2438596	Diazinon	108	110	P/P	69 - 132
2438596	Difenoconazole	170	171	P/P	57 - 258
2438596	Dimethenamid	94.8	82.3	P/P	54 - 110
2438596	Dimethomorph	189	146	P/P	28 - 210
2438596	Disulfoton	102	77.7	P/P	43 - 133
2438596	Dithiopyr	96.7	90.6	P/P	39 - 116
2438596	EPTC	50.3	65.0	P/P	20 - 78.0
2438596	Ethion	55.8	62.0	P/P	17 - 119
2438596	Ethoprop	116	119	P/P	66 - 120
2438596	Etridiazole	62.8	55.0	P/P	28 - 96.0
2438596	Fenamiphos	85.4	87.0	P/P	41 - 126
2438596	Fenbuconazole	96.1	80.8	P/P	42 - 169
2438596	Fipronil	100	81.3	P/P	61 - 132
2438596	Fipronil Desulfinyl	124	73.0	P/P	56 - 132
2438596	Fipronil Sulfide	110	65.6	P/P	48 - 119
2438596	Fipronil Sulfone	120	62.6	P/P	42 - 131
2438596	Fluazifop-P-butyl	106	88.3	P/P	53 - 131
2438596	Fludioxonil	118	93.5	P/P	56 - 127
2438596	Flumioxazin	199	174	P/P	19 - 300
2438596	Flutolanil	65.7	60.3	P/P	41 - 127
2438596	Fluxapyroxad	155	148	P/P	42 - 172
2438596	Fonofos	106	96.8	P/P	59 - 113
2438596	Hexabromobenzene	122	118	P/P	50 - 150
2438596	Hexazinone	106	109	P/P	66 - 122
2438596	Imazalil	78.7	74.7	P/P	21 - 283
2438596	Iprodione	92.2	90.1	P/P	43 - 150
2438596	Loratadine	193	183	P/P	23 - 201
2438596	Malathion	167	144	F/F	58 - 136
2438596	Metalaxyl	93.6	80.4	P/P	55 - 120
2438596	Metolachlor	99.8	90.0	P/P	57 - 121
2438596	Metribuzin	111	101	P/P	58 - 294
2438596	Mevinphos	118	100	P/P	50 - 126
2438596	Molinate	61.9	70.6	P/P	42 - 93.0
2438596	Myclobutanil	95.0	73.8	P/P	55 - 125
2438596	Naled	53.3	51.4	P/P	18 - 200
2438596	Napropamide	81.3	76.6	P/P	39 - 110
2438596	Norflurazon	105	77.6	P/P	48 - 128
2438596	Octinoxate	129	127	P/P	21 - 159
2438596	Oxadiazon	90.5	79.1	P/P	43 - 112
2438596	Oxybenzone	133	126	P/P	41 - 142

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438596	Oxyfluorfen	134	101	P/P	64 - 153
2438596	Parathion Ethyl	106	102	P/P	69 - 114
2438596	Parathion Methyl	137	119	P/P	79 - 139
2438596	PBB-153	143	125	P/P	50 - 150
2438596	PBDE-47	95.1	89.2	P/P	27 - 144
2438596	PBDE-99	95.2	84.1	P/P	18 - 150
2438596	Pendimethalin	109	95.9	P/P	50 - 139
2438596	Pentabromotoluene	111	114	P/P	50 - 150
2438596	Phenytoin	56.6	65.2	P/P	10 - 146
2438596	Phorate	70.4	75.6	P/P	54 - 161
2438596	Prodiamine	55.0	58.7	P/P	30 - 161
2438596	Prometon	74.1	93.3	P/P	45 - 134
2438596	Prometryn	90.2	84.2	P/P	45 - 137
2438596	Pronamide	108	102	P/P	65 - 133
2438596	Propanil	107	81.3	P/P	49 - 142
2438596	Propargite	82.5	78.4	P/P	10 - 203
2438596	Propiconazole	93.3	73.7	P/P	38 - 146
2438596	Pyraflufen Ethyl	117	98.5	P/P	34 - 153
2438596	Pyridaben	159	129	P/P	12 - 192
2438596	Pyriproxyfen	99.4	85.9	P/P	33 - 180
2438596	Simazine	102	101	P/P	51 - 157
2438596	Stiropfos	147	140	F/F	10 - 128
2438596	Sulfentrazone	55.6	92.4	P/P	53 - 186
2438596	Tebuconazole	54.1	55.4	P/P	10 - 133
2438596	Terbufos	129	115	P/P	65 - 139
2438596	Terbutylazine	91.8	91.3	P/P	66 - 117
2438596	Tetradecachloro-m-terphenyl	121	154	P/P	70 - 200
2438596	Thiobencarb	94.3	88.6	P/P	51 - 119
2438596	Tri-o-cresyl Phosphate	139	129	P/P	31 - 144
2438596	Triadimefon	87.5	76.5	P/P	48 - 119
2438596	Tris(1-chloro-2-propyl) phosphate (TCPP)	139	134	P/P	50 - 150
2438596	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	125	123	P/P	50 - 150
2438596	Tris(2-chloroethyl) phosphate (TCEP)	127	121	P/P	70 - 180

Reference Method: EPA 8276

Batch ID: P435296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438918	Chlordane	88.8	83.1	P/P	43 - 123
2438918	Toxaphene	99.7	95.8	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P435314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438929	Acesulfame K	131	133	P/P	40 - 150
2438929	AMPA	82.0	80.3	P/P	40 - 150
2438929	Endothall	121	124	P/P	40 - 150
2438929	Glufosinate	95.1	96.2	P/P	40 - 150
2438929	Glyphosate	73.9	78.4	P/P	40 - 150
2438929	Sucralose	92.8	97.2	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P435381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438839	3-Hydroxycarbofuran	57.3	53.6	P/P	40 - 150
2438839	Aldicarb	35.7	33.6	P/P	30 - 150
2438839	Aldicarb Sulfone	55.7	54.4	P/P	40 - 150
2438839	Aldicarb Sulfoxide	27.5	26.1	F/F	40 - 150
2438839	Carbaryl	57.8	54.7	P/P	40 - 150
2438839	Carbofuran	50.6	46.7	P/P	40 - 150
2438839	Methiocarb	56.3	52.7	P/P	40 - 150
2438839	Methomyl	50.9	48.9	P/P	40 - 150
2438839	Oxamyl	52.0	50.6	P/P	40 - 150
2438839	Propoxur	47.3	45.7	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435439

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438930	2,4,5-T	114	104	P/P	40 - 150
2438930	Acetaminophen	58.5	58.6	P/P	30 - 150
2438930	Acetamiprid	66.0	62.2	P/P	40 - 150
2438930	Afidopyropen	91.8	79.4	P/P	30 - 150
2438930	Bentazon	33.3	31.8	P/P	30 - 150
2438930	Benzovindiflupyr	90.2	95.9	P/P	40 - 150
2438930	Carbamazepine	63.8	64.1	P/P	40 - 150
2438930	Clothianidin	58.7	57.7	P/P	40 - 150
2438930	Dinotefuran	47.8	48.2	P/P	40 - 150
2438930	Diuron	57.7	57.4	P/P	40 - 150
2438930	Fenuron	41.6	41.4	P/P	40 - 150
2438930	Fluridone	79.3	75.7	P/P	40 - 150
2438930	Hydrocodone	49.2	48.3	P/P	40 - 150
2438930	Ibuprofen	66.5	65.4	P/P	40 - 150
2438930	Imazapyr	93.7	84.7	P/P	40 - 150
2438930	Imidacloprid	95.4	93.6	P/P	40 - 150
2438930	Linuron	64.8	69.3	P/P	40 - 150
2438930	Mandestrobin	89.1	90.1	P/P	40 - 150
2438930	MCCP	108	110	P/P	40 - 150
2438930	Naproxen	70.0	76.1	P/P	40 - 150
2438930	Primidone	58.3	63.7	P/P	40 - 150
2438930	Pyraclostrobin	93.7	93.5	P/P	40 - 150
2438930	Silvex	89.1	90.4	P/P	40 - 150
2438930	Thiamethoxam	57.0	54.0	P/P	40 - 150
2438930	Tolfenpyrad	59.8	63.0	P/P	30 - 150
2438930	Triclopyr	111	109	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P435590

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438194	Fluoride	97.2	98.0	P/P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P435643

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P435643

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438828	Organic Carbon	90.0	94.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435402

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439177	Color (true)	12.7	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435405

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439148	Turbidity	1.50	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435833

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439768	Chloride	0.484	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435836

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439768	Sulfate	0.773	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435671

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438469	Ammonia-N	2.27	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439266	Kjeldahl Nitrogen	7.69	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435820

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439002	NO2NO3-N	0.493	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435688

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440243	Total-P	1.52	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P435296

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438896	Aldrin	3.82	Spike	P	0 - 41
2438896	Alpha-BHC	4.22	Spike	P	0 - 25
2438896	Alpha-Chlordane	9.65	Spike	P	0 - 32
2438896	Beta-BHC	10.7	Spike	P	0 - 33
2438896	Beta-Cyfluthrin	6.50	Spike	P	0 - 43
2438896	Bifenthrin	25.9	Spike	P	0 - 52
2438896	Carbophenothion	8.07	Spike	P	0 - 30
2438896	Chlorothalonil	29.4	Spike	P	0 - 82
2438896	Cis-Nonachlor	5.82	Spike	P	0 - 33
2438896	Cypermethrin	4.54	Spike	P	0 - 51
2438896	Dacthal	3.19	Spike	P	0 - 27
2438896	DDD-p,p'	10.4	Spike	P	0 - 39
2438896	DDE-p,p'	2.28	Spike	P	0 - 31
2438896	DDT-p,p'	1.90	Spike	P	0 - 29
2438896	Delta-BHC	14.2	Spike	P	0 - 35
2438896	Deltamethrin	2.01	Spike	P	0 - 100
2438896	Dichlobenil	1.07	Spike	P	0 - 40
2438896	Dicofol	0.815	Spike	P	0 - 37
2438896	Dieldrin	5.70	Spike	P	0 - 27
2438896	Endosulfan I	12.3	Spike	P	0 - 23
2438896	Endosulfan II	10.0	Spike	P	0 - 34
2438896	Endosulfan Sulfate	20.0	Spike	P	0 - 36
2438896	Endrin	2.84	Spike	P	0 - 45
2438896	Endrin Aldehyde	19.6	Spike	P	0 - 76
2438896	Endrin Ketone	2.34	Spike	P	0 - 43
2438896	Esfenvalerate	0.935	Spike	P	0 - 51
2438896	Ethalfuralin	1.87	Spike	P	0 - 22
2438896	Fenpropathrin	12.8	Spike	P	0 - 49
2438896	Gamma-BHC	4.25	Spike	P	0 - 28
2438896	Gamma-Chlordane	20.4	Spike	P	0 - 40
2438896	Heptachlor	0.0842	Spike	P	0 - 29
2438896	Heptachlor Epoxide	10.7	Spike	P	0 - 33
2438896	Hexachlorobenzene	13.4	Spike	P	0 - 36
2438896	Kepone	12.8	Spike	P	0 - 85
2438896	Lambda-Cyhalothrin	7.31	Spike	P	0 - 55
2438896	Methoprene	16.1	Spike	P	0 - 53
2438896	Methoxychlor	0.197	Spike	P	0 - 50
2438896	MGK-264	32.7	Spike	P	0 - 43
2438896	Mirex	7.79	Spike	P	0 - 40
2438896	Oxychlordane	16.9	Spike	P	0 - 31
2438896	Permethrin	14.0	Spike	P	0 - 50
2438896	Phenothrin	9.43	Spike	P	0 - 58
2438896	Piperonyl Butoxide	4.17	Spike	P	0 - 100
2438896	Prallethrin	15.6	Spike	P	0 - 39
2438896	Tau-Fluvalinate	3.67	Spike	P	0 - 54
2438896	Tetramethrin	15.8	Spike	P	0 - 51
2438896	Trans-Nonachlor	17.7	Spike	P	0 - 39
2438896	Triclosan Methyl	3.63	Spike	P	0 - 31
2438896	Trifluralin	1.99	Spike	P	0 - 22
2438918	PCB-1016	6.19	Spike	P	0 - 25
2438918	PCB-1260	14.7	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P435385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438596	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	8.81	Spike	P	0 - 37
2438596	Acetochlor	12.4	Spike	P	0 - 28
2438596	Alachlor	6.82	Spike	P	0 - 30
2438596	Ametryn	14.6	Spike	P	0 - 32
2438596	Atrazine	1.42	Spike	P	0 - 41
2438596	Atrazine Desethyl	3.12	Spike	P	0 - 36
2438596	Avobenzone	8.03	Spike	P	0 - 36
2438596	Azinphos Methyl	9.16	Spike	P	0 - 75
2438596	Azoxystrobin	16.2	Spike	P	0 - 39
2438596	Bromacil	32.5	Spike	P	0 - 33
2438596	Butylate	18.0	Spike	P	0 - 44
2438596	Caffeine	2.00	Spike	P	0 - 74
2438596	Carbophenothion	24.0	Spike	P	0 - 25
2438596	Carfentrazone Ethyl	22.5	Spike	P	0 - 27
2438596	Chlorfenapyr	15.0	Spike	P	0 - 24
2438596	Chlorpyrifos Ethyl	10.9	Spike	P	0 - 26
2438596	Chlorpyrifos Methyl	20.0	Spike	P	0 - 26
2438596	Coumaphos	12.8	Spike	P	0 - 28
2438596	Cyanazine	23.4	Spike	P	0 - 48
2438596	Cyprodinil	23.8	Spike	P	0 - 29
2438596	Dechlorane 602	17.2	Spike	P	0 - 30
2438596	Dechlorane 603	7.17	Spike	P	0 - 30
2438596	Dechlorane Plus	1.88	Spike	P	0 - 30
2438596	Demeton	8.66	Spike	P	0 - 33
2438596	Diazinon	1.46	Spike	P	0 - 29
2438596	Difenoconazole	0.756	Spike	P	0 - 34
2438596	Dimethenamid	14.0	Spike	P	0 - 39
2438596	Dimethomorph	25.6	Spike	P	0 - 51
2438596	Disulfoton	26.8	Spike	P	0 - 30
2438596	Dithiopyr	6.50	Spike	P	0 - 26
2438596	EPTC	25.6	Spike	P	0 - 43
2438596	Ethion	10.6	Spike	P	0 - 79
2438596	Ethoprop	2.51	Spike	P	0 - 29
2438596	Etridiazole	13.2	Spike	P	0 - 33
2438596	Fenamiphos	1.86	Spike	P	0 - 40
2438596	Fenbuconazole	17.4	Spike	P	0 - 74
2438596	Fipronil	20.0	Spike	P	0 - 29
2438596	Fipronil Desulfinyl	28.3	Spike	P	0 - 32
2438596	Fipronil Sulfide	21.9	Spike	P	0 - 30
2438596	Fipronil Sulfone	26.5	Spike	P	0 - 33
2438596	Fluazifop-P-butyl	18.5	Spike	P	0 - 38
2438596	Fludioxonil	6.70	Spike	P	0 - 29
2438596	Flumioxazin	13.7	Spike	P	0 - 51
2438596	Flutolanil	7.50	Spike	P	0 - 25
2438596	Fluxapyroxad	1.54	Spike	P	0 - 45
2438596	Fonofos	9.27	Spike	P	0 - 27
2438596	Hexabromobenzene	2.91	Spike	P	0 - 30
2438596	Hexazinone	3.12	Spike	P	0 - 30
2438596	Imazalil	5.20	Spike	P	0 - 100
2438596	Iprodione	2.34	Spike	P	0 - 33
2438596	Loratadine	5.50	Spike	P	0 - 56

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P435385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438596	Malathion	14.5	Spike	P	0 - 37
2438596	Metalaxyl	11.9	Spike	P	0 - 40
2438596	Metolachlor	10.3	Spike	P	0 - 29
2438596	Metribuzin	9.06	Spike	P	0 - 45
2438596	Mevinphos	16.2	Spike	P	0 - 29
2438596	Molinate	13.0	Spike	P	0 - 33
2438596	Myclobutanil	9.96	Spike	P	0 - 26
2438596	Naled	3.64	Spike	P	0 - 37
2438596	Napropamide	6.01	Spike	P	0 - 44
2438596	Norflurazon	24.5	Spike	P	0 - 30
2438596	Octinoxate	1.94	Spike	P	0 - 45
2438596	Oxadiazon	13.3	Spike	P	0 - 28
2438596	Oxybenzone	5.72	Spike	P	0 - 46
2438596	Oxyfluorfen	19.7	Spike	P	0 - 28
2438596	Parathion Ethyl	4.09	Spike	P	0 - 31
2438596	Parathion Methyl	13.6	Spike	P	0 - 29
2438596	PBB-153	13.4	Spike	P	0 - 30
2438596	PBDE-47	6.45	Spike	P	0 - 36
2438596	PBDE-99	12.3	Spike	P	0 - 40
2438596	Pendimethalin	13.2	Spike	P	0 - 33
2438596	Pentabromotoluene	2.28	Spike	P	0 - 30
2438596	Phenytol	14.2	Spike	P	0 - 100
2438596	Phorate	7.16	Spike	P	0 - 36
2438596	Prodiamine	4.67	Spike	P	0 - 71
2438596	Prometon	22.9	Spike	P	0 - 36
2438596	Prometryn	6.84	Spike	P	0 - 28
2438596	Pronamide	6.41	Spike	P	0 - 24
2438596	Propanil	27.6	Spike	P	0 - 28
2438596	Propargite	5.21	Spike	P	0 - 43
2438596	Propiconazole	18.1	Spike	P	0 - 33
2438596	Pyraflufen Ethyl	16.9	Spike	P	0 - 29
2438596	Pyridaben	20.6	Spike	P	0 - 30
2438596	Pyriproxyfen	14.6	Spike	P	0 - 79
2438596	Simazine	1.48	Spike	P	0 - 29
2438596	Stirophos	4.61	Spike	P	0 - 61
2438596	Sulfentrazone	28.2	Spike	P	0 - 33
2438596	Tebuconazole	2.28	Spike	P	0 - 69
2438596	Terbufos	11.1	Spike	P	0 - 29
2438596	Terbuthylazine	0.556	Spike	P	0 - 32
2438596	Tetradecachloro-m-terphenyl	24.2	Spike	P	0 - 30
2438596	Thiobencarb	6.22	Spike	P	0 - 26
2438596	Tri-o-cresyl Phosphate	7.61	Spike	P	0 - 33
2438596	Triadimefon	13.4	Spike	P	0 - 28
2438596	Tris(1-chloro-2-propyl) phosphate (TCPP)	3.90	Spike	P	0 - 30
2438596	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.12	Spike	P	0 - 30
2438596	Tris(2-chloroethyl) phosphate (TCEP)	4.23	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P435296

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438918	Chlordane	6.67	Spike	P	0 - 28
2438918	Toxaphene	3.96	Spike	P	0 - 27

Reference Method: EPA 8321B

Batch ID: P435314

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438929	Acesulfame K	1.10	Spike	P	0 - 30
2438929	AMPA	2.11	Spike	P	0 - 30
2438929	Endothall	2.62	Spike	P	0 - 30
2438929	Glufosinate	1.16	Spike	P	0 - 30
2438929	Glyphosate	6.03	Spike	P	0 - 30
2438929	Sucralose	3.66	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P435381

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438839	3-Hydroxycarbofuran	6.67	Spike	P	0 - 30
2438839	Aldicarb	6.27	Spike	P	0 - 30
2438839	Aldicarb Sulfone	2.40	Spike	P	0 - 30
2438839	Aldicarb Sulfoxide	5.21	Spike	P	0 - 30
2438839	Carbaryl	5.60	Spike	P	0 - 30
2438839	Carbofuran	7.84	Spike	P	0 - 30
2438839	Methiocarb	6.64	Spike	P	0 - 30
2438839	Methomyl	4.00	Spike	P	0 - 30
2438839	Oxamyl	2.59	Spike	P	0 - 30
2438839	Propoxur	3.36	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P435439

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438930	2,4-D	1.44	Spike	P	0 - 30
2438930	2,4,5-T	8.93	Spike	P	0 - 30
2438930	Acetaminophen	0.161	Spike	P	0 - 30
2438930	Acetamiprid	5.93	Spike	P	0 - 30
2438930	Afidopyropen	14.4	Spike	P	0 - 30
2438930	Bentazon	4.44	Spike	P	0 - 30
2438930	Benzovindiflupyr	6.11	Spike	P	0 - 30
2438930	Carbamazepine	0.388	Spike	P	0 - 30
2438930	Clothianidin	1.69	Spike	P	0 - 30
2438930	Dinotefuran	0.822	Spike	P	0 - 30
2438930	Diuron	0.486	Spike	P	0 - 30
2438930	Fenuron	0.486	Spike	P	0 - 30
2438930	Fluridone	4.68	Spike	P	0 - 30
2438930	Hydrocodone	1.91	Spike	P	0 - 30
2438930	Ibuprofen	1.73	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P435439

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438930	Imazapyr	6.63	Spike	P	0 - 30
2438930	Imidacloprid	1.88	Spike	P	0 - 30
2438930	Linuron	6.77	Spike	P	0 - 30
2438930	Mandestrobin	1.16	Spike	P	0 - 30
2438930	MCPP	2.17	Spike	P	0 - 30
2438930	Naproxen	8.41	Spike	P	0 - 30
2438930	Primidone	8.77	Spike	P	0 - 30
2438930	Pyraclostrobin	0.193	Spike	P	0 - 30
2438930	Silvex	1.46	Spike	P	0 - 30
2438930	Thiamethoxam	5.33	Spike	P	0 - 30
2438930	Tolfenpyrad	5.29	Spike	P	0 - 30
2438930	Triclopyr	2.14	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P435587

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438194	Total Alkalinity	1.62	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P435880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439024	TDS	8.12	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P435590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438194	Fluoride	0.480	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P435643

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438828	Organic Carbon	3.16	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2439298
Field Sample ID: G2SD0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	40.5	P	30 - 160

Lab Sample ID: 2439299
Field Sample ID: G2SD0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	68.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	66.0	P	30 - 160
EPA 8321B	Diuron-d6	38.4	P	30 - 160
EPA 8321B	Endothall-d6	133	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.5	P	30 - 160
EPA 8321B	Primidone-d5	53.6	P	30 - 160
EPA 8321B	Sucralose-d6	87.6	P	30 - 160

Lab Sample ID: 2439302
Field Sample ID: G2SD0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	87.8	P	37 - 129
EPA 8270E	Decachlorobiphenyl	67.9	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	50.0	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	60.8	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	72.7	P	28 - 102
EPA 8276	PCNB	76.1	P	49 - 115

Lab Sample ID: 2439303
Field Sample ID: G2SD0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	75.2	P	20 - 200
EPA 8270E	Simazine-d10	82.6	P	62 - 142
EPA 8270E	Terbufos-d10	95.3	P	58 - 132
EPA 8270E	Terphenyl-d14	86.2	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A121726

Included Lab Sample IDs: 2439265

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.9	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121728

Included Lab Sample IDs: 2439265

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

Reference Method: EPA 8321B

Run ID: A121765

Included Lab Sample IDs: 2439299

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	114	121	P/P	60 - 160
Endothall	101	110	P/P	60 - 160
Glufosinate	115	113	P/P	60 - 160
Glyphosate	104	94.6	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A121768

Included Lab Sample IDs: 2439299

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	132	135	P/P	60 - 160
Sucralose	90.7	97.0	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121771

Included Lab Sample IDs: 2439265

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.5	98.1	P/P	90 - 110
Sulfate	99.7	99.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121784

Included Lab Sample IDs: 2439299

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	94.2	93.5	P/P	50 - 150
2,4,5-T	87.8	81.2	P/P	50 - 150
Acetaminophen	121	118	P/P	60 - 160
Acetamiprid	112	114	P/P	50 - 150
Afidopyropen	110	108	P/P	50 - 150
Bentazon	139	114	P/P	50 - 160
Benzovindiflupyr	108	109	P/P	50 - 150
Carbamazepine	105	106	P/P	60 - 150
Clothianidin	109	109	P/P	60 - 150
Dinotefuran	115	111	P/P	50 - 150
Diuron	115	110	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121784
Included Lab Sample IDs: 2439299

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenuron	110	110	P/P	60 - 150
Fluridone	127	118	P/P	60 - 160
Hydrocodone	119	116	P/P	60 - 150
Ibuprofen	76.7	87.6	P/P	50 - 160
Imazapyr	95.6	91.9	P/P	50 - 150
Imidacloprid	99.5	99.7	P/P	60 - 150
Linuron	116	107	P/P	60 - 150
Mandestrobin	114	115	P/P	50 - 150
MCPP	82.2	93.2	P/P	50 - 150
Naproxen	86.2	147	P/P	50 - 160
Primidone	98.6	97.2	P/P	60 - 150
Pyraclostrobin	114	118	P/P	60 - 150
Silvex	104	91.2	P/P	50 - 150
Thiamethoxam	120	119	P/P	50 - 150
Tolfenpyrad	107	107	P/P	60 - 150
Triclopyr	96.0	81.7	P/P	50 - 150

Reference Method: SM 2320 B-2011
Run ID: A121790
Included Lab Sample IDs: 2439265

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.2	95.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A121790
Included Lab Sample IDs: 2439265

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

Reference Method: EPA 8270E
Run ID: A121808
Included Lab Sample IDs: 2439303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.1		P	80 - 120
Avobenzene	96.4		P	80 - 120
Dechlorane 602	98.4		P	80 - 120
Dechlorane 603	102		P	80 - 120
Dechlorane Plus	103		P	80 - 120
Hexabromobenzene	90.4		P	80 - 120
Octinoxate	92.4		P	80 - 120
Oxybenzone	96.1		P	80 - 120
PBB-153	92.8		P	80 - 120
PBDE-47	91.9		P	80 - 120
PBDE-99	86.0		P	80 - 120
Pentabromotoluene	102		P	80 - 120
Tetradecachloro-m-terphenyl	97.3		P	80 - 120
Tri-o-cresyl Phosphate	95.0		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	98.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121808
Included Lab Sample IDs: 2439303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	100		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	104		P	80 - 120

Reference Method: EPA 8270E
Run ID: A121810
Included Lab Sample IDs: 2439303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	88.3		P	80 - 120
Alachlor	89.3		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine	91.2		P	80 - 120
Atrazine Desethyl	103		P	80 - 120
Azinphos Methyl	104		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	93.6		P	80 - 120
Butylate	108		P	80 - 120
Caffeine	93.1		P	80 - 120
Carbophenothion	89.2		P	80 - 120
Carfentrazone Ethyl	98.2		P	80 - 120
Chlorfenapyr	92.3		P	80 - 120
Chlorpyrifos Ethyl	90.9		P	80 - 120
Chlorpyrifos Methyl	109		P	80 - 120
Coumaphos	95.2		P	80 - 120
Cyanazine	96.6		P	80 - 120
Cyprodinil	112		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	94.0		P	80 - 120
Difenoconazole	97.0		P	80 - 120
Dimethenamid	105		P	80 - 120
Dimethomorph	95.9		P	80 - 120
Disulfoton	94.3		P	80 - 120
Dithiopyr	99.1		P	80 - 120
EPTC	102		P	80 - 120
Ethion	84.8		P	80 - 120
Ethoprop	87.6		P	80 - 120
Etridiazole	98.5		P	80 - 120
Fenamiphos	84.7		P	80 - 120
Fenbuconazole	83.0		P	80 - 120
Fipronil	85.5		P	80 - 120
Fipronil Desulfinyl	98.0		P	80 - 120
Fipronil Sulfide	96.3		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	106		P	80 - 120
Fludioxonil	108		P	80 - 120
Flumioxazin	91.6		P	80 - 120
Flutolanil	104		P	80 - 120
Fluxapyroxad	106		P	80 - 120
Fonofos	96.6		P	80 - 120
Hexazinone	99.4		P	80 - 120
Imazalil	96.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121810
Included Lab Sample IDs: 2439303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iprodione	95.7		P	80 - 120
Loratadine	85.2		P	80 - 120
Malathion	105		P	80 - 120
Metalaxyl	87.1		P	80 - 120
Metolachlor	96.6		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	80.4		P	80 - 120
Molinate	92.6		P	80 - 120
Myclobutanil	92.2		P	80 - 120
Naled	114		P	80 - 120
Napropamide	97.1		P	80 - 120
Norflurazon	93.4		P	80 - 120
Oxadiazon	93.7		P	80 - 120
Oxyfluorfen	94.7		P	80 - 120
Parathion Ethyl	97.1		P	80 - 120
Parathion Methyl	95.1		P	80 - 120
Pendimethalin	108		P	80 - 120
Phenytoin	106		P	80 - 120
Phorate	87.2		P	80 - 120
Prodiamine	100		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	110		P	80 - 120
Pronamide	97.6		P	80 - 120
Propanil	86.6		P	80 - 120
Propargite	98.2		P	80 - 120
Propiconazole	83.9		P	80 - 120
Pyraflufen Ethyl	92.7		P	80 - 120
Pyridaben	91.4		P	80 - 120
Pyriproxyfen	92.9		P	80 - 120
Simazine	98.0		P	80 - 120
Stirophos	103		P	80 - 120
Sulfentrazone	112		P	80 - 120
Tebuconazole	98.6		P	80 - 120
Terbufos	97.3		P	80 - 120
Terbuthylazine	89.2		P	80 - 120
Thiobencarb	95.2		P	80 - 120
Triadimefon	102		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A121814
Included Lab Sample IDs: 2439266

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.5	91.4	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A121816
Included Lab Sample IDs: 2439302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121816
Included Lab Sample IDs: 2439302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1260	97.6		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A121825
Included Lab Sample IDs: 2439266

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.0	98.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A121845
Included Lab Sample IDs: 2439266

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

Reference Method: EPA 8321B
Run ID: A121846
Included Lab Sample IDs: 2439298

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	109	110	P/P	60 - 150
Aldicarb	98.6	103	P/P	60 - 150
Aldicarb Sulfone	114	116	P/P	50 - 150
Aldicarb Sulfoxide	111	112	P/P	50 - 150
Carbaryl	117	109	P/P	60 - 150
Carbofuran	113	116	P/P	50 - 150
Methiocarb	117	107	P/P	50 - 150
Methomyl	104	110	P/P	50 - 150
Oxamyl	111	117	P/P	50 - 150
Propoxur	114	120	P/P	50 - 150

Reference Method: EPA 8276
Run ID: A121861
Included Lab Sample IDs: 2439302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.7		P	80 - 120
Toxaphene	98.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A121877
Included Lab Sample IDs: 2439302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	93.6		P	80 - 120
Alpha-BHC	94.7		P	80 - 120
Alpha-Chlordane	91.2		P	80 - 120
Beta-BHC	82.7		P	80 - 120
Beta-Cyfluthrin	88.7		P	80 - 120
Bifenthrin	83.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121877
Included Lab Sample IDs: 2439302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbophenothion	103		P	80 - 120
Chlorothalonil	88.3		P	80 - 120
Cis-Nonachlor	105		P	80 - 120
Cypermethrin	88.1		P	80 - 120
Dacthal	96.3		P	80 - 120
DDD-p,p'	116		P	80 - 120
DDE-p,p'	90.1		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	92.2		P	80 - 120
Deltamethrin	108		P	80 - 120
Dichlobenil	92.1		P	80 - 120
Dicofol	105		P	80 - 120
Dieldrin	114		P	80 - 120
Endosulfan I	85.1		P	80 - 120
Endosulfan II	95.0		P	80 - 120
Endosulfan Sulfate	103		P	80 - 120
Endrin	88.2		P	80 - 120
Endrin Aldehyde	99.6		P	80 - 120
Endrin Ketone	81.1		P	80 - 120
Esfenvalerate	86.8		P	80 - 120
Ethalfuralin	87.9		P	80 - 120
Fenpropathrin	81.2		P	80 - 120
Gamma-BHC	106		P	80 - 120
Gamma-Chlordane	92.3		P	80 - 120
Heptachlor	111		P	80 - 120
Heptachlor Epoxide	89.2		P	80 - 120
Hexachlorobenzene	104		P	80 - 120
Kepone	59.5*		F	80 - 120
Lambda-Cyhalothrin	95.9		P	80 - 120
Methoprene	80.5		P	80 - 120
Methoxychlor	85.2		P	80 - 120
MGK-264	85.1		P	80 - 120
Mirex	101		P	80 - 120
Oxychlordane	86.2		P	80 - 120
Permethrin	94.8		P	80 - 120
Phenothrin	94.8		P	80 - 120
Piperonyl Butoxide	80.6		P	80 - 120
Prallethrin	80.3		P	80 - 120
Tau-Fluvalinate	91.5		P	80 - 120
Tetramethrin	116		P	80 - 120
Trans-Nonachlor	89.3		P	80 - 120
Triclosan Methyl	106		P	80 - 120
Trifluralin	104		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A121888
Included Lab Sample IDs: 2439266

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	102	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A121976

Included Lab Sample IDs: 2439266

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.3	99.2	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)	98.7				12.7	
EPA 180.1 Rev. 2.0	Turbidity	105				1.50	
EPA 300.0 Rev. 2.1	Chloride	101	101	101		0.484	
	Sulfate	103	103	101		0.773	
EPA 350.1 Rev. 2.0	Ammonia-N	101	100	103			2.27
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	96.6	106			7.69
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	98.7	99.2			0.493
EPA 365.1 Rev. 2.0	Total-P	103	104	105			1.52
EPA 8270E	2-Ethylhexyl	142	131	120			8.81
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	85.2	93.9	83.0			12.4
	Alachlor	80.3	75.9	70.9			6.82
	Aldrin	49.4	46.4	44.7			3.82
	Alpha-BHC	77.1	88.9	92.7			4.22
	Alpha-Chlordane	70.8	89.9	99.1			9.65
	Ametryn	111	116	134			14.6
	Atrazine	109	106	104			1.42
	Atrazine Desethyl	92.3	97.3	100			3.12
	Avobenzone	184	156	170			8.03
	Azinphos Methyl	191	220	200			9.16
	Azoxystrobin	118	151	120			16.2
	Beta-BHC	75.6	76.3	84.9			10.7
	Beta-Cyfluthrin	53.6	60.9	57.1			6.50
	Bifenthrin	40.6	43.3	56.2			25.9
	Bromacil	94.6					32.5
	Butylate	51.6	54.5	65.3			18.0
	Caffeine	122	139	136			2.00
	Carbophenothion	40.4	45.8	49.6			8.07
	Carbophenothion	104	122	95.5			24.0
	Carfentrazone Ethyl	122	140	112			22.5
	Chlorfenapyr	106	106	91.0			15.0
	Chlorothalonil	42.8	128	95.0			29.4
	Chlorpyrifos Ethyl	74.3	123	110			10.9
	Chlorpyrifos Methyl	108	118	96.8			20.0
	Cis-Nonachlor	53.2	59.6	56.2			5.82
	Coumaphos	172	178	202			12.8
	Cyanazine	141	159	126			23.4
	Cypermethrin	45.1	52.9	50.6			4.54
	Cyprodinil	80.9	114	73.3			23.8
	Dacthal	70.3	81.4	84.0			3.19
	DDD-p,p'	66.0	54.6	60.5			10.4
	DDE-p,p'	60.2	55.0	53.8			2.28
	DDT-p,p'	63.5	58.3	59.4			1.90
	Dechlorane 602	96.1	75.0	63.1			17.2
	Dechlorane 603	159	149	139			7.17
	Dechlorane Plus	170	146	148			1.88
	Delta-BHC	77.3	104	90.0			14.2
	Deltamethrin	63.1	52.8	53.9			2.01
	Demeton	97.4	84.0	91.6			8.66
	Diazinon	115	108	110			1.46
	Dichlobenil	73.1	79.6	78.7			1.07
	Dicofol	63.2	64.2	64.7			0.815
	Dieldrin	64.8	53.2	56.7			5.70

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Difenoconazole	179	170	171			0.756
	Dimethenamid	85.8	94.8	82.3			14.0
	Dimethomorph	127	189	146			25.6
	Disulfoton	92.7	102	77.7			26.8
	Dithiopyr	89.4	96.7	90.6			6.50
	Endosulfan I	75.2	99.2	112			12.3
	Endosulfan II	65.7	70.3	63.6			10.0
	Endosulfan Sulfate	72.4	62.5	76.4			20.0
	Endrin	66.7	57.6	59.3			2.84
	Endrin Aldehyde	67.6	53.2	64.8			19.6
	Endrin Ketone	79.8	73.0	71.3			2.34
	EPTC	47.0	50.3	65.0			25.6
	Esfenvalerate	50.2	57.7	57.2			0.935
	Ethalfuralin	63.0	59.1	60.2			1.87
	Ethion	73.3	55.8	62.0			10.6
	Ethoprop	110	116	119			2.51
	Etridiazole	45.5	62.8	55.0			13.2
	Fenamiphos	105	85.4	87.0			1.86
	Fenbuconazole	96.2	96.1	80.8			17.4
	Fenpropathrin	51.3	45.3	51.5			12.8
	Fipronil	79.6	100	81.3			20.0
	Fipronil Desulfinyl	86.9	124	73.0			28.3
	Fipronil Sulfide	83.2	110	65.6			21.9
	Fipronil Sulfone	77.1	120	62.6			26.5
	Fluazifop-P-butyl	96.6	106	88.3			18.5
	Fludioxonil	77.6	118	93.5			6.70
	Flumioxazin	201	199	174			13.7
	Flutolanil	80.4	65.7	60.3			7.50
	Fluxapyroxad	187	155	148			1.54
	Fonofos	104	106	96.8			9.27
	Gamma-BHC	74.7	106	111			4.25
	Gamma-Chlordane	72.9	86.4	106			20.4
	Heptachlor	62.4	76.1	76.1			0.0842
	Heptachlor Epoxide	70.5	102	116			10.7
	Hexabromobenzene	122	122	118			2.91
	Hexachlorobenzene	57.2	59.7	68.3			13.4
	Hexazinone	110	106	109			3.12
	Imazalil	80.7	78.7	74.7			5.20
	Iprodione	240	92.2	90.1			2.34
	Kepone	137					12.8
	Lambda-Cyhalothrin	38.2	54.8	50.9			7.31
	Loratadine	169	193	183			5.50
	Malathion	155	167	144			14.5
	Metalaxyl	88.3	93.6	80.4			11.9
	Methoprene	41.3	41.2	48.4			16.1
	Methoxychlor	71.7	66.0	65.9			0.197
	Metolachlor	90.3	99.8	90.0			10.3
	Metribuzin	106	111	101			9.06
	Mevinphos	94.3	118	100			16.2
	MGK-264	84.7	107	149			32.7
	Mirex	45.9	50.6	46.8			7.79
	Molinate	71.0	61.9	70.6			13.0
	Myclobutanil	79.1	95.0	73.8			9.96
	Naled	38.7	53.3	51.4			3.64

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Napropamide	79.1	81.3	76.6		6.01
	Norflurazon	86.4	105	77.6		24.5
	Octinoxate	135	129	127		1.94
	Oxadiazon	77.5	90.5	79.1		13.3
	Oxybenzone	134	133	126		5.72
	Oxychlordane	69.6	86.4	102		16.9
	Oxyfluorfen	119	134	101		19.7
	Parathion Ethyl	107	106	102		4.09
	Parathion Methyl	127	137	119		13.6
	PBB-153	152	143	125		13.4
	PBDE-47	109	95.1	89.2		6.45
	PBDE-99	111	95.2	84.1		12.3
	PCB-1016	72.9	73.5	69.1		6.19
	PCB-1260	78.8	82.9	71.6		14.7
	Pendimethalin	93.2	109	95.9		13.2
	Pentabromotoluene	118	111	114		2.28
	Permethrin	54.7	57.4	49.9		14.0
	Phenothrin	37.9	50.0	45.5		9.43
	Phenytoin	76.0	56.6	65.2		14.2
	Phorate	69.3	70.4	75.6		7.16
	Piperonyl Butoxide	82.4	82.2	85.7		4.17
	Prallethrin	58.1	72.4	61.9		15.6
	Prodiamine	39.0	55.0	58.7		4.67
	Prometon	104	74.1	93.3		22.9
	Prometryn	80.7	90.2	84.2		6.84
	Pronamide	106	108	102		6.41
	Propanil	87.6	107	81.3		27.6
	Propargite	104	82.5	78.4		5.21
	Propiconazole	87.5	93.3	73.7		18.1
	Pyraflufen Ethyl	98.2	117	98.5		16.9
	Pyridaben	129	159	129		20.6
	Pyriproxyfen	104	99.4	85.9		14.6
	Simazine	99.7	102	101		1.48
	Stirophos	166	147	140		4.61
	Sulfentrazone	83.8	55.6	92.4		28.2
	Tau-Fluvalinate	42.2	51.2	53.1		3.67
	Tebuconazole	70.1	54.1	55.4		2.28
	Terbufos	127	129	115		11.1
	Terbutylazine	97.3	91.8	91.3		0.556
	Tetradecachloro-m-terphenyl	147	121	154		24.2
	Tetramethrin	77.9	68.4	80.2		15.8
	Thiobencarb	89.2	94.3	88.6		6.22
	Trans-Nonachlor	62.1	87.7	105		17.7
	Tri-o-cresyl Phosphate	145	139	129		7.61
	Triadimefon	92.3	87.5	76.5		13.4
	Triclosan Methyl	70.5	58.6	60.7		3.63
	Trifluralin	66.5	60.7	61.9		1.99
	Tris(1-chloro-2-propyl) phosphate (TCPP)	139	139	134		3.90
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	130	125	123		2.12
	Tris(2-chloroethyl) phosphate (TCEP)	138	127	121		4.23
EPA 8276	Chlordane	72.9	88.8	83.1		6.67

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8276	Toxaphene	82.9	99.7	95.8			3.96
EPA 8321B	2,4-D	90.0					1.44
	2,4,5-T	108	104	114			8.93
	3-Hydroxycarbofuran	82.1	57.3	53.6			6.67
	Acesulfame K	118	131	133			1.10
	Acetaminophen	88.7	58.5	58.6			0.161
	Acetamiprid	89.8	66.0	62.2			5.93
	Afidopyropen	66.8	91.8	79.4			14.4
	Aldicarb	42.4	35.7	33.6			6.27
	Aldicarb Sulfone	100	55.7	54.4			2.40
	Aldicarb Sulfoxide	131	27.5	26.1			5.21
	AMPA	92.1	82.0	80.3			2.11
	Bentazon	91.2	33.3	31.8			4.44
	Benzovindiflupyr	86.6	90.2	95.9			6.11
	Carbamazepine	86.7	63.8	64.1			0.388
	Carbaryl	79.5	57.8	54.7			5.60
	Carbofuran	85.6	50.6	46.7			7.84
	Clothianidin	92.4	58.7	57.7			1.69
	Dinotefuran	96.6	47.8	48.2			0.822
	Diuron	79.0	57.7	57.4			0.486
	Endothall	106	121	124			2.62
	Fenuron	90.6	41.6	41.4			0.486
	Fluridone	93.9	79.3	75.7			4.68
	Glufosinate	114	95.1	96.2			1.16
	Glyphosate	90.4	73.9	78.4			6.03
	Hydrocodone	94.6	49.2	48.3			1.91
	Ibuprofen	63.6	65.4	66.5			1.73
	Imazapyr	76.1	93.7	84.7			6.63
	Imidacloprid	87.8	95.4	93.6			1.88
	Linuron	67.3	64.8	69.3			6.77
	Mandestrobin	91.4	89.1	90.1			1.16
	MCPP	120	110	108			2.17
	Methiocarb	64.8	56.3	52.7			6.64
	Methomyl	89.5	50.9	48.9			4.00
	Naproxen	63.5	76.1	70.0			8.41
	Oxamyl	100	52.0	50.6			2.59
	Primidone	77.6	58.3	63.7			8.77
	Propoxur	90.0	47.3	45.7			3.36
	Pyraclostrobin	85.7	93.7	93.5			0.193
	Silvex	96.7	90.4	89.1			1.46
	Sucralose	88.9	92.8	97.2			3.66
	Thiamethoxam	95.5	57.0	54.0			5.33
	Tolfenpyrad	55.4	59.8	63.0			5.29
	Triclopyr	109	111	109			2.14
SM 2320 B-2011	Total Alkalinity	96.8				1.62	
SM 2540 C-2015	TDS	91.8				8.12	
SM 2540 D-2015	TSS	93.1					
SM 4500-F- C-2011	Fluoride	99.7	97.2	98.0			0.480
SM 5310 B-2011	Organic Carbon	98.4	90.0	94.0			3.16

Reference Method Descriptions

Method	Description	Associated Samples
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Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2439265
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2439265
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2439265
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2439265
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2439266
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2439266
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2439266
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2439266
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2439303
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2439302
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2439303
EPA 8270E	PCBs in water matrices by GC/MS/MS	2439302
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2439302
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2439298
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2439299
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2439265
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2439265
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2439265
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2439265
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2439266

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	09/22/2023			09/22/2023 14:15	Alexis Price	2439265
EPA 180.1 Rev. 2.0	09/22/2023			09/22/2023 13:34	Alexis Price	2439265
EPA 300.0 Rev. 2.1	09/22/2023			09/28/2023 05:15	James L Waggeberby	2439265
EPA 350.1 Rev. 2.0	09/22/2023			09/28/2023 11:59	Ping Hua	2439266
EPA 351.2 Rev. 2.0	09/22/2023	10/04/2023 13:44	Simonne.V. Calhoun	10/05/2023 11:56	Samantha L Bates	2439266
EPA 353.2 Rev. 2.0	09/22/2023			10/02/2023 14:36	Anna M. Plaviak	2439266
EPA 365.1 Rev. 2.0	09/22/2023	09/28/2023 13:36	Alexis Price	09/29/2023 10:35	Chandler E Cox	2439266
EPA 8270E	09/22/2023	09/25/2023 08:00	Fe-Val Siddell	09/28/2023 06:38	Julie Wi	2439302
	09/22/2023	09/25/2023 08:00	Fe-Val Siddell	09/28/2023 07:40	Julie Wi	2439302
	09/22/2023	09/25/2023 08:30	Rasheda Ghaffari	09/26/2023 20:55	Arthur Maknenko	2439303
	09/22/2023	09/25/2023 08:30	Rasheda Ghaffari	09/27/2023 19:24	Vandana T. Nagar	2439303
EPA 8276	09/22/2023	09/25/2023 08:00	Fe-Val Siddell	09/29/2023 14:23	Arthur Maknenko	2439302
EPA 8321B	09/22/2023	09/25/2023 11:00	Hana Lee	09/25/2023 18:37	Hana Lee	2439299
	09/22/2023	09/25/2023 11:00	Hana Lee	09/26/2023 05:51	Tae K Lee	2439299
	09/22/2023	09/26/2023 13:00	Hoor Shaik	09/26/2023 23:04	Juyoung Kim	2439299
	09/22/2023	09/27/2023 09:00	Hoor Shaik	09/28/2023 23:06	Juyoung Kim	2439298
SM 2320 B-2011	09/22/2023			09/27/2023 12:03	Adam P Silver	2439265
SM 2540 C-2015	09/22/2023			09/25/2023 15:40	Yijie Li	2439265
SM 2540 D-2015	09/22/2023			09/25/2023 15:40	Yijie Li	2439265
SM 4500-F- C-2011	09/22/2023			09/27/2023 09:07	Adam P Silver	2439265
SM 5310 B-2011	09/22/2023			09/28/2023 03:28	Khloe J Berg	2439266