

Chemical Analysis Report

CEN-DIST-2023-04-20-01

Florida DEP Laboratory
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DOH Accreditation E31780

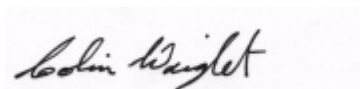
Event Description: **Spruce Creek and Little Haw resample**
Request ID: **RQ-2023-04-17-41**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 17-MAY-2023 08:22



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: LITTLE HAW CREEK AT 25M DS OF SR40

Collection Date/Time: 04/19/2023 12:48

Field ID: G2CE0128

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2401676	DEP SOP: NU-094-1	Color (true)	290		PCU	P428784	
	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P428795	
	EPA 300.0 Rev. 2.1	Chloride	23		mg Cl/L	P429067	
		Sulfate	0.46	I	mg SO4/L	P429071	
	SM 2320 B-2011	Total Alkalinity	1.3	I	mg CaCO3/L	P428869	
	SM 2540 C-2015	TDS	102		mg/L	P429119	
	SM 2540 D-2015	TSS	3	I	mg/L	P429121	
	SM 4500-F- C-2011	Fluoride	0.028	I	mg F/L	P429442	
2401677	EPA 350.1 Rev. 2.0	Ammonia-N	0.079		mg N/L	P429095	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P428926	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P429077	
	EPA 365.1 Rev. 2.0	Total-P	0.038		mg P/L	P428833	
	SM 5310 B-2011	Organic Carbon	32		mg C/L	P429040	

Ref. Method and Comment:

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

Sample Location: SPRUCE CREEK AT AIRPORT RD

Collection Date/Time: 04/19/2023 11:35

Field ID: G5CE0160

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2401674	DEP SOP: NU-094-1	Color (true)	42		PCU	P428784	
	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P428795	
	EPA 300.0 Rev. 2.1	Chloride	3.5E+03		mg Cl/L	P429067	
		Sulfate	490		mg SO4/L	P429071	
	SM 2320 B-2011	Total Alkalinity	163		mg CaCO3/L	P428869	
	SM 2540 C-2015	TDS	6.15E+03		mg/L	P429183	
	SM 2540 D-2015	TSS	4	I	mg/L	P429185	
	SM 4500-F- C-2011	Fluoride	0.31		mg F/L	P429443	
2401675	EPA 350.1 Rev. 2.0	Ammonia-N	0.0084		mg N/L	P429010	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.52		mg N/L	P428925	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.037		mg N/L	P429304	
	EPA 365.1 Rev. 2.0	Total-P	0.085		mg P/L	P428832	
	SM 5310 B-2011	Organic Carbon	9.5		mg C/L	P429040	
2401683	EPA 8321B	Aldicarb	0.020	U	ug/L	P428762	
		Aldicarb Sulfone	0.0020	U	ug/L	P428762	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P428762	MS
		Carbaryl	0.0020	U	ug/L	P428762	
		Carbofuran	0.0020	U	ug/L	P428762	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P428762	
		Methiocarb	0.0020	U	ug/L	P428762	
		Methomyl	0.0020	U	ug/L	P428762	
		Oxamyl	0.0020	U	ug/L	P428762	
		Propoxur	0.0020	U	ug/L	P428762	
2401684		2,4-D	0.11		ug/L	P428689	
		Acesulfame K	0.12	I	ug/L	P428748	
		2,4,5-T	0.0040	U	ug/L	P428689	
		AMPA	0.10	U	ug/L	P428748	
		Acetaminophen	0.0080	U	ug/L	P428689	
		Acetamiprid	0.0028	I	ug/L	P428689	
		Endothall	0.25	U	ug/L	P428748	
		Glufosinate	0.10	U	ug/L	P428748	
		Glyphosate	0.10	U	ug/L	P428748	
		Afidopyropen	0.0020	U	ug/L	P428689	
		Bentazon	1.0		ug/L	P428689	
		Sucralose	4.2		ug/L	P428748	
		Benzovindiflupyr	0.0020	U	ug/L	P428689	
		Carbamazepine	0.0053		ug/L	P428689	
		Clothianidin	0.0060	I	ug/L	P428689	
		Dinotefuran	0.0020	U	ug/L	P428689	
		Diuron	0.0020	U	ug/L	P428689	
		Fenuron	0.032	U	ug/L	P428689	
		Fluridone	0.11		ug/L	P428689	
		Imazapyr	0.65		ug/L	P428689	
		Hydrocodone	0.0020	U	ug/L	P428689	

Field ID: G5CE0160

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2401684	EPA 8321B	Ibuprofen	0.080	U	ug/L	P428689	
		Imidacloprid	0.0064	I	ug/L	P428689	
		Linuron	0.0040	U	ug/L	P428689	
		Mandestrobin	0.0020	U	ug/L	P428689	
		MCP	0.0041	I	ug/L	P428689	
		Naproxen	0.0080	UJ	ug/L	P428689	CCV
		Primidone	0.016	I	ug/L	P428689	
		Pyraclostrobin	0.0020	U	ug/L	P428689	
		Silvex	0.0040	U	ug/L	P428689	
		Thiamethoxam	0.0020	U	ug/L	P428689	
		Tolfenpyrad	0.0020	U	ug/L	P428689	
		Triclopyr	0.0040	U	ug/L	P428689	
2401685	EPA 8270E	Aldrin	0.66	UQ	ng/L	P429576	
		Alpha-BHC	0.10	UQ	ng/L	P429576	
		Alpha-Chlordane	0.20	UQ	ng/L	P429576	
		PCB-1016	2.1	U	ng/L	P428950	
		Beta-BHC	0.10	UQ	ng/L	P429576	
		PCB-1221	2.1	U	ng/L	P428950	
		Beta-Cyfluthrin	1.3	UQ	ng/L	P429576	
		PCB-1232	2.1	U	ng/L	P428950	
		Bifenthrin	0.51	UQ	ng/L	P429576	
		PCB-1242	2.1	U	ng/L	P428950	
		PCB-1248	2.1	U	ng/L	P428950	
		Chlorothalonil	3.6	UQ	ng/L	P429576	MS
		PCB-1254	2.1	U	ng/L	P428950	
		Cis-Nonachlor	0.20	UQ	ng/L	P429576	
		PCB-1260	2.1	U	ng/L	P428950	
		Cypermethrin	1.5	UQ	ng/L	P429576	
		Dacthal	0.15	UQ	ng/L	P429576	
		DDD-p,p'	0.25	UQ	ng/L	P429576	
		DDE-p,p'	0.20	UQ	ng/L	P429576	
		DDT-p,p'	0.62	IVQ	ng/L	P429576	
		Delta-BHC	0.40	UQ	ng/L	P429576	
		Deltamethrin	1.3	UQ	ng/L	P429576	
		Dichlobenil	0.25	UQ	ng/L	P429576	
		Dicofol	1.3	UQ	ng/L	P429576	
		Diieldrin	0.40	UQ	ng/L	P429576	
		Endosulfan I	0.40	UQ	ng/L	P429576	
		Endosulfan II	0.40	UQ	ng/L	P429576	
		Endosulfan Sulfate	0.30	UQ	ng/L	P429576	
		Endrin	0.40	UQ	ng/L	P429576	
		Endrin Aldehyde	0.76	UQ	ng/L	P429576	
		Endrin Ketone	0.40	UQJ	ng/L	P429576	CCV
		Esfenvalerate	0.76	UQ	ng/L	P429576	
		Ethalfuralin	0.15	UQ	ng/L	P429576	

Field ID: G5CE0160

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2401685	EPA 8270E	Fenpropathrin	0.25	UQ	ng/L	P429576	CCV
		Gamma-BHC	0.13	UQ	ng/L	P429576	
		Gamma-Chlordane	0.20	UQ	ng/L	P429576	
		Heptachlor	0.20	UQ	ng/L	P429576	
		Heptachlor Epoxide	0.25	UQ	ng/L	P429576	
		Hexachlorobenzene**	1.0	UQ	ng/L	P429576	
		Kepone	5.1	UQJ	ng/L	P429576	
		Lambda-Cyhalothrin	0.76	UQ	ng/L	P429576	
		Methoprene	0.76	UQ	ng/L	P429576	
		Methoxychlor	0.30	UQ	ng/L	P429576	
		MGK-264	0.20	UQ	ng/L	P429576	
		Mirex	0.35	UQ	ng/L	P429576	
		Oxychlordane	0.30	UQ	ng/L	P429576	
		Permethrin	1.6	UQ	ng/L	P429576	
		Phenothrin	0.91	UQ	ng/L	P429576	
		Piperonyl Butoxide	0.15	UQ	ng/L	P429576	
		Prallethrin	2.0	UQ	ng/L	P429576	
		Tau-Fluvalinate	0.25	UQ	ng/L	P429576	
		Tetramethrin	0.76	UQ	ng/L	P429576	
		Trans-Nonachlor	0.20	UQ	ng/L	P429576	
		Triclosan Methyl	0.15	UQ	ng/L	P429576	
		Trifluralin	0.20	UQ	ng/L	P429576	
		Chlordane	2.0	UQ	ng/L	P429576	
		Toxaphene	15	UQ	ng/L	P429576	
2401686	EPA 8276	Oxybenzone**	10	U	ng/L	P428829	
	EPA 8270E	Acetochlor	0.20	U	ng/L	P428829	
		Octinoxate**	20	U	ng/L	P428829	
		Alachlor	0.41	U	ng/L	P428829	
		Avobenzone**	100	U	ng/L	P428829	
		Ametryn	1.1	U	ng/L	P428829	
		Atrazine	49		ng/L	P428829	
		PBDE-47**	4.1	U	ng/L	P428829	
		Atrazine Desethyl	12		ng/L	P428829	
		PBDE-99**	5.1	U	ng/L	P428829	
		Azinphos Methyl	3.1	U	ng/L	P428829	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P428829	
		Azoxystrobin	0.41	U	ng/L	P428829	
		Bromacil	0.61	U	ng/L	P428829	
		2-Ethylhexyl	12	U	ng/L	P428829	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.20	U	ng/L	P428829	
		Dechlorane Plus**	31	U	ng/L	P428829	
		Caffeine**	12	I	ng/L	P428829	
		Dechlorane 602**	5.1	U	ng/L	P428829	
		Carbophenothion	0.51	U	ng/L	P428829	

Field ID: G5CE0160

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2401686	EPA 8270E	Dechlorane 603**	4.1	U	ng/L	P428829	LCS, MS
		Carfentrazone Ethyl	0.15	U	ng/L	P428829	
		Hexabromobenzene**	6.1	U	ng/L	P428829	
		Chlorfenapyr	0.31	U	ng/L	P428829	
		PBB-153**	8.2	U	ng/L	P428829	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P428829	
		Pentabromotoluene**	3.1	U	ng/L	P428829	
		Chlorpyrifos Methyl	0.10	U	ng/L	P428829	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P428829	
		Coumaphos	1.1	U	ng/L	P428829	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	49		ng/L	P428829	
		Cyanazine	5.1	U	ng/L	P428829	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	5.0	I	ng/L	P428829	
		Cyprodinil	0.20	U	ng/L	P428829	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P428829	
		Demeton	3.6	U	ng/L	P428829	
		Diazinon	0.13	U	ng/L	P428829	
		Difenoconazole	0.61	U	ng/L	P428829	
		Dimethenamid	0.10	UJ	ng/L	P428829	
		Dimethomorph	0.31	U	ng/L	P428829	
		Disulfoton	0.61	U	ng/L	P428829	
		Dithiopyr	1.8	IV	ng/L	P428829	
		EPTC	0.51	U	ng/L	P428829	
		Ethion	0.31	U	ng/L	P428829	
		Ethoprop	0.13	U	ng/L	P428829	
		Etridiazole	0.10	U	ng/L	P428829	
		Fenamiphos	0.46	U	ng/L	P428829	
		Fenbuconazole	0.51	U	ng/L	P428829	
		Fipronil	0.44	I	ng/L	P428829	
		Fipronil Desulfinyl**	1.4		ng/L	P428829	
		Fipronil Sulfide	0.59		ng/L	P428829	
		Fipronil Sulfone	2.0		ng/L	P428829	
		Fluazifop-P-butyl	0.10	U	ng/L	P428829	
		Fludioxonil	0.10	U	ng/L	P428829	
		Flumioxazin	3.1	U	ng/L	P428829	
		Flutolanil	0.10	U	ng/L	P428829	
		Fluxapyroxad	0.61	I	ng/L	P428829	
		Fonofos	0.15	U	ng/L	P428829	
		Hexazinone	0.51	U	ng/L	P428829	
		Imazalil	0.66	U	ng/L	P428829	
		Iprodione	0.51	U	ng/L	P428829	
		Loratadine**	0.31	U	ng/L	P428829	
		Malathion	0.36	U	ng/L	P428829	
		Metalaxyl	0.51	U	ng/L	P428829	

Field ID: G5CE0160

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2401686	EPA 8270E	Metolachlor	0.77	UJ	ng/L	P428829	MS
		Metribuzin	0.65	I	ng/L	P428829	
		Mevinphos	1.0	U	ng/L	P428829	
		Molinate	0.26	U	ng/L	P428829	
		Myclobutanil	0.36	U	ng/L	P428829	
		Naled	2.6	U	ng/L	P428829	
		Napropamide	0.72	U	ng/L	P428829	
		Norflurazon	1.0	U	ng/L	P428829	
		Oxadiazon	0.66	I J	ng/L	P428829	RPD
		Oxyfluorfen	0.20	U	ng/L	P428829	
		Parathion Ethyl	0.15	U	ng/L	P428829	
		Parathion Methyl	0.20	U	ng/L	P428829	
		Pendimethalin	1.9	I J	ng/L	P428829	MS
		Phenytion**	5.4	U	ng/L	P428829	
		Phorate	0.26	U	ng/L	P428829	
		Prodiamine	0.20	U	ng/L	P428829	
		Prometon	3.1	U	ng/L	P428829	
		Prometryn	0.36	UJ	ng/L	P428829	LCS
		Pronamide	0.10	UJ	ng/L	P428829	LCS, MS
		Propanil	0.10	U	ng/L	P428829	
		Propargite	0.82	U	ng/L	P428829	
		Propiconazole	0.61	U	ng/L	P428829	
		Pyraflufen Ethyl	0.31	U	ng/L	P428829	
		Pyridaben	1.4	U	ng/L	P428829	
		Pyriproxyfen	0.26	U	ng/L	P428829	
		Simazine	13		ng/L	P428829	
		Stirophos	0.41	U	ng/L	P428829	
		Sulfentrazone	15		ng/L	P428829	
		Tebuconazole	1.4	U	ng/L	P428829	
		Terbufos	0.20	U	ng/L	P428829	
		Terbuthylazine	0.20	U	ng/L	P428829	
		Thiobencarb	0.51	U	ng/L	P428829	
		Triadimefon	0.15	U	ng/L	P428829	

Ref. Method and Comment:

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

SM 4500-F- C-2011: LFB is unavailable because of analytical difficulties.

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

EPA 8270E: Sample expired for preparation due to need for re-extraction. MS precision for chlorothalonil not assessed due to no recoveries. V - Due to the presence of ddt-p,p' in both the Method Blank and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8276: Sample expired for preparation due to need for re-extraction.

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blank and the sample. 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: P428784

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428795

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429067

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429071

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429010

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429095

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428925

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428926

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429077

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

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Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429304

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428832

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428833

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

Reference Method: EPA 8270E
Batch ID: P428829

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	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L

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Reference Method: EPA 8270E

Batch ID: P428829

Component	Result	Code	Units
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	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	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.7	I	ng/L
Dithiopyr	1.0	I	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428829

Component	Result	Code	Units
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428829

Component	Result	Code	Units
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	5.3	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiatone	0.20	U	ng/L
Prodiatone	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronatone	0.10	U	ng/L
Pronatone	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428829

Component	Result	Code	Units
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	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
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E

Batch ID: P428950

Component	Result	Code	Units
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L

Reference Method: EPA 8270E

Batch ID: P429576

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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P429576

Component	Result	Code	Units
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	1.1	I	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
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

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Reference Method: EPA 8270E

Batch ID: P429576

Component	Result	Code	Units
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P429576

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: P428689

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

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Method Blank Results

Reference Method: EPA 8321B

Batch ID: P428689

Component	Result	Code	Units
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: P428748

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: P428762

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: P428869

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

Reference Method: SM 2540 C-2015

Batch ID: P429119

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015

Batch ID: P429183

Component	Result	Code	Units
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Reference Method: SM 2540 C-2015
Batch ID: P429183

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P429121

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P429185

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P429442

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P429443

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P429040

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: P428784

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428795

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429067

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429071

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429010

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429095

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428925

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428926

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: P429077

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429304

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428832

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428833

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

Reference Method: EPA 8270E
Batch ID: P428829

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.8		P	42 - 162
Acetochlor	88.5		P	69 - 123
Alachlor	105		P	65 - 118
Ametryn	117		P	58 - 141
Atrazine	104		P	73 - 118
Atrazine Desethyl	103		P	32 - 125
Avobenzone	136		P	40 - 203
Azinphos Methyl	131		P	36 - 197
Azoxystrobin	116		P	58 - 226
Bromacil	114		P	48 - 120
Butylate	62.7		P	27 - 85.0
Caffeine	104		P	40 - 137
Carbophenothion	123		P	54 - 132
Carfentrazone Ethyl	122		P	60 - 142
Chlorfenapyr	105		P	53 - 117
Chlorpyrifos Ethyl	97.6		P	59 - 116
Chlorpyrifos Methyl	111		P	66 - 119
Coumaphos	108		P	11 - 234
Cyanazine	124		P	61 - 248
Cyprodinil	105		P	50 - 147
Dechlorane 602	78.2		P	50 - 150
Dechlorane 603	105		P	50 - 150
Dechlorane Plus	97.8		P	47 - 182
Demeton	86.8		P	30 - 138
Diazinon	119		P	67 - 126
Difenoconazole	87.7		P	38 - 205
Dimethenamid	116		F	57 - 111
Dimethomorph	129		P	16 - 212
Disulfoton	118		P	46 - 126
Dithiopyr	108		P	62 - 115
EPTC	56.5		P	28 - 80.0
Ethion	94.6		P	24 - 122
Ethoprop	101		P	62 - 113
Etridiazole	68.6		P	28 - 92.0

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P428829

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fenamiphos	87.9		P	57 - 128
Fenbuconazole	72.1		P	52 - 155
Fipronil	111		P	63 - 130
Fipronil Desulfinyl	113		P	61 - 130
Fipronil Sulfide	116		P	56 - 117
Fipronil Sulfone	98.3		P	52 - 118
Fluazifop-P-butyl	72.2		P	61 - 128
Fludioxonil	85.0		P	59 - 129
Flumioxazin	142		P	30 - 250
Flutolanil	90.4		P	53 - 127
Fluxapyroxad	102		P	42 - 132
Fonofos	99.6		P	61 - 110
Hexabromobenzene	115		P	50 - 150
Hexazinone	97.6		P	46 - 139
Imazalil	85.3		P	40 - 139
Iprodione	95.0		P	40 - 146
Loratadine	123		P	10 - 224
Malathion	112		P	61 - 135
Metalaxyl	98.1		P	58 - 121
Metolachlor	118		P	64 - 118
Metribuzin	102		P	45 - 245
Mevinphos	82.4		P	49 - 118
Molinate	64.8		P	42 - 92.0
Myclobutanil	103		P	55 - 127
Naled	27.5		P	10 - 114
Napropamide	89.2		P	39 - 121
Norflurazon	104		P	55 - 129
Octinoxate	107		P	26 - 166
Oxadiazon	95.4		P	54 - 115
Oxybenzone	104		P	49 - 135
Oxyfluorfen	120		P	64 - 139
Parathion Ethyl	107		P	70 - 111
Parathion Methyl	119		P	76 - 136
PBB-153	104		P	50 - 150
PBDE-47	87.2		P	41 - 148
PBDE-99	78.5		P	38 - 147
Pendimethalin	114		P	52 - 118
Pentabromotoluene	105		P	50 - 150
Phenytol	69.8		P	10 - 162
Phorate	111		P	40 - 122
Prodiamine	70.1		P	26 - 141
Prometon	114		P	54 - 122
Prometryn	129		F	61 - 128
Pronamide	130		F	72 - 121
Propanil	126		P	45 - 144
Propargite	84.8		P	10 - 199
Propiconazole	88.1		P	56 - 127
Pyraflufen Ethyl	69.6		P	56 - 140
Pyridaben	86.2		P	26 - 211
Pyriproxyfen	103		P	33 - 194
Simazine	96.3		P	67 - 121
Stirophos	87.8		P	20 - 142

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P428829

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfentrazone	102		P	21 - 144
Tebuconazole	71.1		P	10 - 122
Terbufos	125		P	60 - 129
Terbutylazine	89.4		P	69 - 113
Tetradecachloro-m-terphenyl	146		P	70 - 200
Thiobencarb	112		P	51 - 120
Tri-o-cresyl Phosphate	110		P	49 - 150
Triadimefon	94.3		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	114		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	101		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	104		P	70 - 180

Reference Method: EPA 8270E

Batch ID: P428950

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PCB-1016	69.3		P	48 - 112
PCB-1260	86.8		P	44 - 118

Reference Method: EPA 8270E

Batch ID: P429576

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	32.4		P	10 - 92.0
Alpha-BHC	88.7		P	75 - 107
Alpha-Chlordane	68.1		P	50 - 108
Beta-BHC	103		P	36 - 138
Beta-Cyfluthrin	37.7		P	20 - 161
Bifenthrin	26.4		P	10 - 119
Chlorothalonil	103		P	26 - 186
Cis-Nonachlor	65.1		P	42 - 119
Cypermethrin	39.7		P	22 - 150
Dacthal	99.4		P	72 - 119
DDD-p,p'	68.1		P	45 - 107
DDE-p,p'	63.0		P	48 - 106
DDT-p,p'	68.4		P	48 - 110
Delta-BHC	95.4		P	54 - 140
Deltamethrin	39.7		P	22 - 189
Dichlobenil	80.9		P	36 - 117
Dicofol	72.4		P	46 - 155
Dieldrin	75.7		P	54 - 110
Endosulfan I	76.9		P	59 - 105
Endosulfan II	83.1		P	51 - 118
Endosulfan Sulfate	80.2		P	57 - 121
Endrin	85.3		P	10 - 120
Endrin Aldehyde	70.5		P	34 - 118
Endrin Ketone	150		P	69 - 177
Esfenvalerate	31.5		P	23 - 168
Ethalfuralin	65.4		P	49 - 99.0
Fenpropathrin	52.5		P	34 - 117
Gamma-BHC	94.9		P	72 - 117
Gamma-Chlordane	62.8		P	43 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P429576

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Heptachlor	52.1		P	41 - 98.0
Heptachlor Epoxide	91.9		P	57 - 106
Hexachlorobenzene	52.2		P	36 - 99.0
Kepone	54.3		P	16 - 215
Lambda-Cyhalothrin	32.5		P	21 - 177
Methoprene	37.0		P	10 - 119
Methoxychlor	75.1		P	60 - 112
MGK-264	78.3		P	26 - 122
Mirex	33.5		P	10 - 169
Oxychlordane	67.2		P	43 - 105
Permethrin	39.0		P	24 - 148
Phenothrin	24.8		P	10 - 106
Piperonyl Butoxide	89.4		P	10 - 139
Prallethrin	46.2		P	17 - 109
Tau-Fluvalinate	26.8		P	13 - 131
Tetramethrin	53.3		P	10 - 132
Trans-Nonachlor	64.7		P	44 - 106
Triclosan Methyl	74.3		P	59 - 109
Trifluralin	64.4		P	44 - 101

Reference Method: EPA 8276

Batch ID: P429576

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	70.6		P	61 - 116
Toxaphene	87.1		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P428689

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	112		P	40 - 150
2,4,5-T	90.5		P	40 - 150
Acetaminophen	86.5		P	30 - 150
Acetamiprid	79.8		P	40 - 150
Afidopyropen	53.3		P	30 - 150
Bentazon	110		P	30 - 150
Benzovindiflupyr	79.9		P	40 - 150
Carbamazepine	91.8		P	40 - 150
Clothianidin	102		P	40 - 150
Dinotefuran	103		P	40 - 150
Diuron	92.5		P	40 - 150
Fenuron	93.0		P	40 - 150
Fluridone	89.2		P	40 - 150
Hydrocodone	94.5		P	40 - 150
Ibuprofen	75.9		P	40 - 150
Imazapyr	98.2		P	40 - 150
Imidacloprid	87.1		P	40 - 150
Linuron	88.9		P	40 - 150
Mandestrobin	84.2		P	40 - 150
MCPP	115		P	40 - 150
Naproxen	72.9		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P428689

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Primidone	89.3		P	40 - 150
Pyraclostrobin	80.8		P	40 - 150
Silvex	105		P	40 - 150
Thiamethoxam	96.9		P	40 - 150
Tolfenpyrad	50.2		P	30 - 150
Triclopyr	104		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P428748

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	111		P	40 - 150
AMPA	120		P	40 - 150
Endothall	101		P	40 - 150
Glufosinate	97.8		P	40 - 150
Glyphosate	127		P	40 - 150
Sucralose	97.4		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P428762

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	88.6		P	40 - 150
Aldicarb	41.0		P	30 - 150
Aldicarb Sulfone	99.6		P	40 - 150
Aldicarb Sulfoxide	143		P	40 - 150
Carbaryl	92.1		P	40 - 150
Carbofuran	85.6		P	40 - 150
Methiocarb	77.2		P	40 - 150
Methomyl	91.4		P	40 - 150
Oxamyl	96.5		P	40 - 150
Propoxur	76.5		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P428869

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.5		P	94 - 106

Reference Method: SM 2540 C-2015

Batch ID: P429119

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.4		P	90 - 110

Reference Method: SM 2540 C-2015

Batch ID: P429183

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P429121

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	89.6		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P429185

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	99.5		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P429442

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P429040

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401609	Chloride	102		P	90 - 110
2401676	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429071

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401609	Sulfate	101		P	90 - 110
2401676	Sulfate	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429010

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401462	Ammonia-N	100	99.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429095

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401673	Ammonia-N	99.2	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428925

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401462	Kjeldahl Nitrogen	98.0	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428926

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401765	Kjeldahl Nitrogen	104	95.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429077

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401695	NO2NO3-N	99.0	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429304

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401675	NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401462	Total-P	95.6	96.4	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P428833

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401696	Total-P	99.1	101	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P428829

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401686	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	114	116	P/P	26 - 165
2401686	Acetochlor	84.3	89.0	P/P	67 - 124
2401686	Alachlor	92.0	110	P/P	60 - 120
2401686	Ametryn	126	139	P/P	54 - 216
2401686	Atrazine Desethyl	114	113	P/P	15 - 122
2401686	Avobenzone	168	156	P/P	37 - 178
2401686	Azinphos Methyl	127	128	P/P	40 - 292
2401686	Azoxystrobin	102	122	P/P	35 - 220
2401686	Bromacil	108	110	P/P	45 - 127
2401686	Butylate	57.0	66.4	P/P	20 - 83.0
2401686	Caffeine	103	96.8	P/P	10 - 194
2401686	Carbophenothion	111	117	P/P	57 - 127
2401686	Carfentrazone Ethyl	116	115	P/P	51 - 141
2401686	Chlorfenapyr	103	107	P/P	46 - 111
2401686	Chlorpyrifos Ethyl	76.3	84.8	P/P	52 - 120
2401686	Chlorpyrifos Methyl	107	116	P/P	63 - 119
2401686	Coumaphos	123	123	P/P	10 - 228
2401686	Cyanazine	116	118	P/P	59 - 241
2401686	Cyprodinil	100	115	P/P	47 - 146
2401686	Dechlorane 602	76.4	76.8	P/P	50 - 150
2401686	Dechlorane 603	122	101	P/P	50 - 150
2401686	Dechlorane Plus	103	85.5	P/P	50 - 150
2401686	Demeton	89.4	93.2	P/P	40 - 136
2401686	Diazinon	114	119	P/P	69 - 132
2401686	Difenoconazole	109	97.6	P/P	57 - 258
2401686	Dimethenamid	101	115	P/F	54 - 110
2401686	Dimethomorph	118	159	P/P	28 - 210
2401686	Disulfoton	106	115	P/P	43 - 133
2401686	Dithiopyr	92.2	112	P/P	39 - 116
2401686	EPTC	39.9	56.7	P/P	20 - 78.0
2401686	Ethion	89.2	91.4	P/P	17 - 119
2401686	Ethoprop	102	103	P/P	66 - 120
2401686	Etridiazole	61.6	71.8	P/P	28 - 96.0
2401686	Fenamiphos	74.3	75.6	P/P	41 - 126
2401686	Fenbuconazole	85.8	76.4	P/P	42 - 169
2401686	Fipronil	107	113	P/P	61 - 132
2401686	Fipronil Desulfinyl	104	112	P/P	56 - 132
2401686	Fipronil Sulfide	104	112	P/P	48 - 119
2401686	Fipronil Sulfone	120	124	P/P	42 - 131
2401686	Fluazifop-P-butyl	72.2	69.6	P/P	53 - 131
2401686	Fludioxonil	76.4	75.3	P/P	56 - 127
2401686	Flumioxazin	169	158	P/P	19 - 300
2401686	Flutolanil	81.4	97.3	P/P	41 - 127
2401686	Fluxapyroxad	108	119	P/P	42 - 172
2401686	Fonofos	99.0	110	P/P	59 - 113
2401686	Hexabromobenzene	130	135	P/P	50 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P428829

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401686	Hexazinone	92.2	102	P/P	66 - 122
2401686	Imazalil	93.5	80.9	P/P	21 - 283
2401686	Iprodione	89.1	94.4	P/P	43 - 150
2401686	Loratadine	131	126	P/P	23 - 201
2401686	Malathion	98.1	106	P/P	58 - 136
2401686	Metalaxyl	86.0	100	P/P	55 - 120
2401686	Metolachlor	110	122	P/F	57 - 121
2401686	Metribuzin	91.5	97.1	P/P	58 - 294
2401686	Mevinphos	83.5	89.5	P/P	50 - 126
2401686	Molinate	60.4	68.5	P/P	42 - 93.0
2401686	Myclobutanil	105	115	P/P	55 - 125
2401686	Naled	29.4	31.1	P/P	18 - 200
2401686	Napropamide	88.4	94.4	P/P	39 - 110
2401686	Norflurazon	95.3	110	P/P	48 - 128
2401686	Octinoxate	117	116	P/P	21 - 159
2401686	Oxadiazon	52.3	103	P/P	43 - 112
2401686	Oxybenzone	121	114	P/P	41 - 142
2401686	Oxyfluorfen	90.8	108	P/P	64 - 153
2401686	Parathion Ethyl	104	103	P/P	69 - 114
2401686	Parathion Methyl	110	113	P/P	79 - 139
2401686	PBB-153	132	120	P/P	50 - 150
2401686	PBDE-47	89.7	97.6	P/P	27 - 144
2401686	PBDE-99	87.3	89.9	P/P	18 - 150
2401686	Pendimethalin	144	154	F/F	50 - 139
2401686	Pentabromotoluene	120	121	P/P	50 - 150
2401686	Phenytoin	67.4	79.7	P/P	10 - 146
2401686	Phorate	102	116	P/P	54 - 161
2401686	Prodiamine	69.2	75.3	P/P	30 - 161
2401686	Prometon	111	117	P/P	45 - 134
2401686	Prometryn	120	126	P/P	45 - 137
2401686	Pronamide	119	137	P/F	65 - 133
2401686	Propanil	136	131	P/P	49 - 142
2401686	Propargite	68.5	83.6	P/P	10 - 203
2401686	Propiconazole	104	102	P/P	38 - 146
2401686	Pyraflufen Ethyl	62.7	69.1	P/P	34 - 153
2401686	Pyridaben	103	95.1	P/P	12 - 192
2401686	Pyriproxyfen	92.6	101	P/P	33 - 180
2401686	Stirophos	78.1	95.1	P/P	10 - 128
2401686	Tebuconazole	64.4	79.7	P/P	10 - 133
2401686	Terbufos	115	126	P/P	65 - 139
2401686	Terbutylazine	88.4	92.6	P/P	66 - 117
2401686	Tetradecachloro-m-terphenyl	163	139	P/P	70 - 200
2401686	Thiobencarb	107	119	P/P	51 - 119
2401686	Tri-o-cresyl Phosphate	123	119	P/P	31 - 144
2401686	Triadimefon	100	106	P/P	48 - 119
2401686	Tris(1-chloro-2-propyl) phosphate (TCPP)	136	124	P/P	50 - 150
2401686	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111	111	P/P	50 - 150
2401686	Tris(2-chloroethyl) phosphate (TCEP)	117	111	P/P	70 - 180

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P428950

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401819	PCB-1016	67.7	63.0	P/P	46 - 111
2401819	PCB-1260	71.6	86.1	P/P	45 - 114

Reference Method: EPA 8270E

Batch ID: P429576

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2402305	Aldrin	51.0	51.4	P/P	20 - 82.0
2402305	Alpha-BHC	90.4	87.0	P/P	71 - 109
2402305	Alpha-Chlordane	68.3	67.9	P/P	42 - 106
2402305	Beta-BHC	109	93.2	P/P	69 - 180
2402305	Beta-Cyfluthrin	65.2	59.0	P/P	18 - 175
2402305	Bifenthrin	55.0	57.4	P/P	21 - 128
2402305	Chlorothalonil	0.0	0.0	F/F	10 - 300
2402305	Cis-Nonachlor	62.2	58.3	P/P	34 - 106
2402305	Cypermethrin	65.1	60.6	P/P	22 - 158
2402305	Dacthal	110	102	P/P	54 - 116
2402305	DDD-p,p'	59.6	54.8	P/P	34 - 107
2402305	DDE-p,p'	68.5	63.8	P/P	33 - 110
2402305	DDT-p,p'	69.4	71.2	P/P	50 - 122
2402305	Delta-BHC	108	92.5	P/P	77 - 193
2402305	Deltamethrin	72.0	66.6	P/P	10 - 195
2402305	Dichlobenil	59.3	63.7	P/P	25 - 113
2402305	Dicofol	69.7	71.6	P/P	38 - 247
2402305	Dieldrin	77.2	71.3	P/P	45 - 118
2402305	Endosulfan I	74.2	70.2	P/P	51 - 106
2402305	Endosulfan II	70.7	60.3	P/P	37 - 122
2402305	Endosulfan Sulfate	64.8	53.9	P/P	43 - 132
2402305	Endrin	76.3	76.0	P/P	29 - 101
2402305	Endrin Aldehyde	46.5	44.1	P/P	19 - 110
2402305	Endrin Ketone	93.8	91.3	P/P	60 - 140
2402305	Esfenvalerate	57.8	55.3	P/P	26 - 199
2402305	Ethalfuralin	71.6	72.1	P/P	45 - 99.0
2402305	Fenpropathrin	83.5	80.4	P/P	35 - 120
2402305	Gamma-BHC	107	96.3	P/P	63 - 128
2402305	Gamma-Chlordane	65.0	64.7	P/P	40 - 104
2402305	Heptachlor	61.2	59.3	P/P	36 - 97.0
2402305	Heptachlor Epoxide	98.8	97.3	P/P	49 - 184
2402305	Hexachlorobenzene	61.7	63.8	P/P	39 - 96.0
2402305	Kepone	28.7	27.9	P/P	10 - 217
2402305	Lambda-Cyhalothrin	67.8	65.2	P/P	21 - 193
2402305	Methoprene	59.4	58.1	P/P	20 - 106
2402305	Methoxychlor	75.4	81.9	P/P	53 - 118
2402305	MGK-264	93.3	88.9	P/P	40 - 118
2402305	Mirex	52.8	50.8	P/P	26 - 92.0
2402305	Oxychlordane	72.7	67.4	P/P	44 - 99.0
2402305	Permethrin	62.6	58.9	P/P	33 - 182
2402305	Phenothrin	64.2	61.0	P/P	10 - 129
2402305	Piperonyl Butoxide	71.5	69.5	P/P	10 - 211
2402305	Prallethrin	56.6	59.7	P/P	24 - 113
2402305	Tau-Fluvalinate	56.4	53.2	P/P	14 - 149
2402305	Tetramethrin	86.4	82.3	P/P	17 - 151

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P429576

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2402305	Trans-Nonachlor	69.4	63.7	P/P	42 - 102
2402305	Triclosan Methyl	72.9	71.2	P/P	48 - 108
2402305	Trifluralin	71.1	71.2	P/P	47 - 96.0

Reference Method: EPA 8276

Batch ID: P429576

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2402682	Chlordane	69.9	71.3	P/P	53 - 126
2402682	Toxaphene	89.0	77.6	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P428689

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400932	2,4-D	136	143	P/P	40 - 150
2400932	2,4,5-T	125	134	P/P	40 - 150
2400932	Acetaminophen	91.8	95.6	P/P	30 - 150
2400932	Acetamiprid	90.2	95.3	P/P	40 - 150
2400932	Afidopyropen	77.8	74.3	P/P	30 - 150
2400932	Bentazon	104	106	P/P	30 - 150
2400932	Benzovindiflupyr	78.4	84.4	P/P	40 - 150
2400932	Carbamazepine	84.9	84.8	P/P	40 - 150
2400932	Clothianidin	106	109	P/P	40 - 150
2400932	Dinotefuran	94.7	101	P/P	40 - 150
2400932	Diuron	80.6	80.1	P/P	40 - 150
2400932	Fenuron	81.5	85.6	P/P	40 - 150
2400932	Fluridone	83.8	91.3	P/P	40 - 150
2400932	Hydrocodone	77.4	82.4	P/P	40 - 150
2400932	Ibuprofen	66.5	84.2	P/P	40 - 150
2400932	Imazapyr	120	114	P/P	40 - 150
2400932	Imidacloprid	100	105	P/P	40 - 150
2400932	Linuron	75.6	83.0	P/P	40 - 150
2400932	Mandestrobin	86.9	93.0	P/P	40 - 150
2400932	MCPP	142	145	P/P	40 - 150
2400932	Naproxen	72.5	92.2	P/P	40 - 150
2400932	Primidone	91.6	96.3	P/P	40 - 150
2400932	Pyraclostrobin	78.9	84.0	P/P	40 - 150
2400932	Silvex	110	117	P/P	40 - 150
2400932	Thiamethoxam	96.4	99.0	P/P	40 - 150
2400932	Tolfenpyrad	46.2	50.7	P/P	30 - 150
2400932	Triclopyr	134	140	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P428748

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401447	Acesulfame K	107	108	P/P	40 - 150
2401447	AMPA	126	119	P/P	40 - 150
2401447	Endothall	105	110	P/P	40 - 150
2401447	Glufosinate	100	99.7	P/P	40 - 150
2401447	Glyphosate	101	105	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P428748

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401447	Sucralose	94.6	93.1	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P428762

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401683	3-Hydroxycarbofuran	86.4	97.9	P/P	40 - 150
2401683	Aldicarb	47.9	47.5	P/P	30 - 150
2401683	Aldicarb Sulfone	94.8	95.6	P/P	40 - 150
2401683	Aldicarb Sulfoxide	39.5	40.2	F/P	40 - 150
2401683	Carbaryl	73.3	71.8	P/P	40 - 150
2401683	Carbofuran	59.0	59.7	P/P	40 - 150
2401683	Methiocarb	74.4	64.3	P/P	40 - 150
2401683	Methomyl	65.4	68.6	P/P	40 - 150
2401683	Oxamyl	84.2	87.9	P/P	40 - 150
2401683	Propoxur	55.8	53.4	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P429442

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401813	Fluoride	102	101	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P429443

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400123	Fluoride	101	101	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P429040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2401722	Organic Carbon	95.0	96.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P428784

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401609	Color (true)	0.0503	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428795

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401609	Turbidity	7.35	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401609	Chloride	1.93	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429071

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401609	Sulfate	2.39	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429010

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401462	Ammonia-N	0.159	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429095

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401673	Ammonia-N	0.881	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401462	Kjeldahl Nitrogen	1.79	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428926

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401765	Kjeldahl Nitrogen	6.37	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429077

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401695	NO2NO3-N	1.50	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401675	NO2NO3-N	0.825	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401462	Total-P	0.753	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428833

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401696	Total-P	1.25	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P428829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401686	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	1.88	Spike	P	0 - 37
2401686	Acetochlor	5.40	Spike	P	0 - 28
2401686	Alachlor	17.9	Spike	P	0 - 30
2401686	Ametryn	9.55	Spike	P	0 - 32
2401686	Atrazine	1.39	Spike	P	0 - 41
2401686	Atrazine Desethyl	0.131	Spike	P	0 - 36
2401686	Avobenzone	7.67	Spike	P	0 - 36
2401686	Azinphos Methyl	0.879	Spike	P	0 - 75
2401686	Azoxystrobin	18.1	Spike	P	0 - 39
2401686	Bromacil	1.90	Spike	P	0 - 33
2401686	Butylate	15.3	Spike	P	0 - 44
2401686	Caffeine	5.32	Spike	P	0 - 74
2401686	Carbophenothion	6.00	Spike	P	0 - 25
2401686	Carfentrazone Ethyl	1.12	Spike	P	0 - 27
2401686	Chlorfenapyr	3.25	Spike	P	0 - 24
2401686	Chlorpyrifos Ethyl	10.6	Spike	P	0 - 26
2401686	Chlorpyrifos Methyl	7.35	Spike	P	0 - 26
2401686	Coumaphos	0.0271	Spike	P	0 - 28
2401686	Cyanazine	1.63	Spike	P	0 - 48
2401686	Cyprodinil	14.3	Spike	P	0 - 29
2401686	Dechlorane 602	0.512	Spike	P	0 - 30
2401686	Dechlorane 603	18.7	Spike	P	0 - 30
2401686	Dechlorane Plus	18.9	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P428829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401686	Demeton	4.19	Spike	P	0 - 33
2401686	Diazinon	4.84	Spike	P	0 - 29
2401686	Difenoconazole	10.9	Spike	P	0 - 34
2401686	Dimethenamid	12.2	Spike	P	0 - 39
2401686	Dimethomorph	29.2	Spike	P	0 - 51
2401686	Disulfoton	8.78	Spike	P	0 - 30
2401686	Dithiopyr	16.7	Spike	P	0 - 26
2401686	EPTC	34.8	Spike	P	0 - 43
2401686	Ethion	2.47	Spike	P	0 - 79
2401686	Ethoprop	1.47	Spike	P	0 - 29
2401686	Etridiazole	15.4	Spike	P	0 - 33
2401686	Fenamiphos	1.77	Spike	P	0 - 40
2401686	Fenbuconazole	11.5	Spike	P	0 - 74
2401686	Fipronil	5.29	Spike	P	0 - 29
2401686	Fipronil Desulfinyl	5.11	Spike	P	0 - 32
2401686	Fipronil Sulfide	6.38	Spike	P	0 - 30
2401686	Fipronil Sulfone	2.42	Spike	P	0 - 33
2401686	Fluazifop-P-butyl	3.67	Spike	P	0 - 38
2401686	Fludioxonil	1.46	Spike	P	0 - 29
2401686	Flumioxazin	6.75	Spike	P	0 - 51
2401686	Flutolanil	17.9	Spike	P	0 - 25
2401686	Fluxapyroxad	8.82	Spike	P	0 - 45
2401686	Fonofos	8.96	Spike	P	0 - 27
2401686	Hexabromobenzene	4.07	Spike	P	0 - 30
2401686	Hexazinone	10.2	Spike	P	0 - 30
2401686	Imazalil	14.4	Spike	P	0 - 100
2401686	Iprodione	5.85	Spike	P	0 - 33
2401686	Loratadine	3.46	Spike	P	0 - 56
2401686	Malathion	7.36	Spike	P	0 - 37
2401686	Metalaxyl	15.3	Spike	P	0 - 40
2401686	Metolachlor	11.0	Spike	P	0 - 29
2401686	Metribuzin	5.62	Spike	P	0 - 45
2401686	Mevinphos	6.98	Spike	P	0 - 29
2401686	Molinate	12.5	Spike	P	0 - 33
2401686	Myclobutanil	9.19	Spike	P	0 - 26
2401686	Naled	5.65	Spike	P	0 - 37
2401686	Napropamide	6.53	Spike	P	0 - 44
2401686	Norflurazon	14.0	Spike	P	0 - 30
2401686	Octinoxate	1.34	Spike	P	0 - 45
2401686	Oxadiazon	51.6	Spike	F	0 - 28
2401686	Oxybenzone	6.59	Spike	P	0 - 46
2401686	Oxyfluorfen	17.0	Spike	P	0 - 28
2401686	Parathion Ethyl	1.89	Spike	P	0 - 31
2401686	Parathion Methyl	2.91	Spike	P	0 - 29
2401686	PBB-153	9.16	Spike	P	0 - 30
2401686	PBDE-47	8.52	Spike	P	0 - 36
2401686	PBDE-99	2.93	Spike	P	0 - 40
2401686	Pendimethalin	5.89	Spike	P	0 - 33
2401686	Pentabromotoluene	1.12	Spike	P	0 - 30
2401686	Phenytoin	16.7	Spike	P	0 - 100
2401686	Phorate	13.2	Spike	P	0 - 36

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P428829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401686	Prodiamine	8.43	Spike	P	0 - 71
2401686	Prometon	5.07	Spike	P	0 - 36
2401686	Prometryn	4.57	Spike	P	0 - 28
2401686	Pronamide	14.6	Spike	P	0 - 24
2401686	Propanil	3.65	Spike	P	0 - 28
2401686	Propargite	19.9	Spike	P	0 - 43
2401686	Propiconazole	1.82	Spike	P	0 - 33
2401686	Pyraflufen Ethyl	9.67	Spike	P	0 - 29
2401686	Pyridaben	8.03	Spike	P	0 - 30
2401686	Pyriproxyfen	9.08	Spike	P	0 - 79
2401686	Simazine	2.99	Spike	P	0 - 29
2401686	Stiropfos	19.7	Spike	P	0 - 61
2401686	Sulfentrazone	2.29	Spike	P	0 - 33
2401686	Tebuconazole	21.3	Spike	P	0 - 69
2401686	Terbufos	8.70	Spike	P	0 - 29
2401686	Terbutylazine	4.72	Spike	P	0 - 32
2401686	Tetradecachloro-m-terphenyl	15.8	Spike	P	0 - 30
2401686	Thiobencarb	10.2	Spike	P	0 - 26
2401686	Tri-o-cresyl Phosphate	3.92	Spike	P	0 - 33
2401686	Triadimefon	5.62	Spike	P	0 - 28
2401686	Tris(1-chloro-2-propyl) phosphate (TCPP)	7.77	Spike	P	0 - 30
2401686	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	0.356	Spike	P	0 - 30
2401686	Tris(2-chloroethyl) phosphate (TCEP)	5.09	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P428950

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401819	PCB-1016	7.26	Spike	P	0 - 32
2401819	PCB-1260	18.4	Spike	P	0 - 31

Reference Method: EPA 8270E

Batch ID: P429576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402305	Aldrin	0.661	Spike	P	0 - 41
2402305	Alpha-BHC	3.84	Spike	P	0 - 25
2402305	Alpha-Chlordane	0.589	Spike	P	0 - 33
2402305	Beta-BHC	15.2	Spike	P	0 - 36
2402305	Beta-Cyfluthrin	9.94	Spike	P	0 - 42
2402305	Bifenthrin	4.27	Spike	P	0 - 53
2402305	Cis-Nonachlor	6.46	Spike	P	0 - 29
2402305	Cypermethrin	7.10	Spike	P	0 - 40
2402305	Dacthal	7.00	Spike	P	0 - 26
2402305	DDD-p,p'	8.24	Spike	P	0 - 39
2402305	DDE-p,p'	7.10	Spike	P	0 - 33
2402305	DDT-p,p'	2.59	Spike	P	0 - 40
2402305	Delta-BHC	15.8	Spike	P	0 - 37
2402305	Deltamethrin	7.79	Spike	P	0 - 100

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P429576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402305	Dichlobenil	7.17	Spike	P	0 - 40
2402305	Dicofol	2.57	Spike	P	0 - 31
2402305	Dieldrin	8.03	Spike	P	0 - 27
2402305	Endosulfan I	5.62	Spike	P	0 - 23
2402305	Endosulfan II	15.9	Spike	P	0 - 28
2402305	Endosulfan Sulfate	18.5	Spike	P	0 - 38
2402305	Endrin	0.359	Spike	P	0 - 63
2402305	Endrin Aldehyde	5.22	Spike	P	0 - 60
2402305	Endrin Ketone	2.72	Spike	P	0 - 37
2402305	Esfenvalerate	4.36	Spike	P	0 - 52
2402305	Ethalfuralin	0.589	Spike	P	0 - 23
2402305	Fenpropathrin	3.79	Spike	P	0 - 32
2402305	Gamma-BHC	11.0	Spike	P	0 - 17
2402305	Gamma-Chlordane	0.564	Spike	P	0 - 40
2402305	Heptachlor	2.99	Spike	P	0 - 29
2402305	Heptachlor Epoxide	1.51	Spike	P	0 - 25
2402305	Hexachlorobenzene	3.36	Spike	P	0 - 36
2402305	Kepone	3.03	Spike	P	0 - 93
2402305	Lambda-Cyhalothrin	3.88	Spike	P	0 - 55
2402305	Methoprene	2.18	Spike	P	0 - 53
2402305	Methoxychlor	8.19	Spike	P	0 - 29
2402305	MGK-264	4.87	Spike	P	0 - 35
2402305	Mirex	3.94	Spike	P	0 - 46
2402305	Oxychlordane	7.57	Spike	P	0 - 29
2402305	Permethrin	6.00	Spike	P	0 - 44
2402305	Phenothrin	5.21	Spike	P	0 - 56
2402305	Piperonyl Butoxide	2.85	Spike	P	0 - 100
2402305	Prallethrin	5.20	Spike	P	0 - 42
2402305	Tau-Fluvalinate	5.82	Spike	P	0 - 54
2402305	Tetramethrin	4.85	Spike	P	0 - 51
2402305	Trans-Nonachlor	8.55	Spike	P	0 - 37
2402305	Triclosan Methyl	2.29	Spike	P	0 - 31
2402305	Trifluralin	0.166	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P429576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402682	Chlordane	1.90	Spike	P	0 - 25
2402682	Toxaphene	13.6	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P428689

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400932	2,4-D	4.92	Spike	P	0 - 30
2400932	2,4,5-T	7.17	Spike	P	0 - 30
2400932	Acetaminophen	3.98	Spike	P	0 - 30
2400932	Acetamiprid	5.50	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P428689

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400932	Afidopyropen	4.60	Spike	P	0 - 30
2400932	Bentazon	1.96	Spike	P	0 - 30
2400932	Benzovindiflupyr	7.45	Spike	P	0 - 30
2400932	Carbamazepine	0.165	Spike	P	0 - 30
2400932	Clothianidin	3.58	Spike	P	0 - 30
2400932	Dinotefuran	6.91	Spike	P	0 - 30
2400932	Diuron	0.687	Spike	P	0 - 30
2400932	Fenuron	4.97	Spike	P	0 - 30
2400932	Fluridone	8.61	Spike	P	0 - 30
2400932	Hydrocodone	6.26	Spike	P	0 - 30
2400932	Ibuprofen	23.5	Spike	P	0 - 30
2400932	Imazapyr	4.40	Spike	P	0 - 30
2400932	Imidacloprid	5.25	Spike	P	0 - 30
2400932	Linuron	9.29	Spike	P	0 - 30
2400932	Mandestrobin	6.80	Spike	P	0 - 30
2400932	MCCP	2.19	Spike	P	0 - 30
2400932	Naproxen	23.9	Spike	P	0 - 30
2400932	Primidone	4.97	Spike	P	0 - 30
2400932	Pyraclostrobin	6.25	Spike	P	0 - 30
2400932	Silvex	6.28	Spike	P	0 - 30
2400932	Thiamethoxam	2.67	Spike	P	0 - 30
2400932	Tolfenpyrad	9.20	Spike	P	0 - 30
2400932	Triclopyr	4.03	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P428748

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401447	Acesulfame K	1.25	Spike	P	0 - 30
2401447	AMPA	5.72	Spike	P	0 - 30
2401447	Endothall	5.18	Spike	P	0 - 30
2401447	Glufosinate	0.488	Spike	P	0 - 30
2401447	Glyphosate	4.50	Spike	P	0 - 30
2401447	Sucralose	1.50	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P428762

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401683	3-Hydroxycarbofuran	12.4	Spike	P	0 - 30
2401683	Aldicarb	0.797	Spike	P	0 - 30
2401683	Aldicarb Sulfone	0.902	Spike	P	0 - 30
2401683	Aldicarb Sulfoxide	1.76	Spike	P	0 - 30
2401683	Carbaryl	2.09	Spike	P	0 - 30
2401683	Carbofuran	1.28	Spike	P	0 - 30
2401683	Methiocarb	14.6	Spike	P	0 - 30
2401683	Methomyl	4.83	Spike	P	0 - 30
2401683	Oxamyl	4.21	Spike	P	0 - 30
2401683	Propoxur	4.49	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P428869

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401465	Total Alkalinity	1.23	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P429119

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401764	TDS	1.55	Sample	P	0 - 10

Reference Method: SM 2540 C-2015
Batch ID: P429183

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401466	TDS	2.58	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P429442

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401813	Fluoride	0.483	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P429443

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400123	Fluoride	0.483	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P429040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2401722	Organic Carbon	1.43	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2401683
Field Sample ID: G5CE0160

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	74.6	P	30 - 160

Lab Sample ID: 2401684
Field Sample ID: G5CE0160

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	113	P	30 - 160
EPA 8321B	Acetaminophen-d4	96.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	71.4	P	30 - 160
EPA 8321B	Diuron-d6	64.5	P	30 - 160
EPA 8321B	Endothall-d6	98.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	45.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	74.3	P	30 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Sucralose-d6	85.9	P	30 - 160

Lab Sample ID: 2401685
Field Sample ID: G5CE0160

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	91.4	P	29 - 130
EPA 8270E	Decachlorobiphenyl	68.8	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	57.3	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	48.1	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	61.6	P	30 - 101
EPA 8276	PCNB	78.2	P	48 - 121

Lab Sample ID: 2401686
Field Sample ID: G5CE0160

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	86.5	P	20 - 200
EPA 8270E	Simazine-d10	84.8	P	62 - 142
EPA 8270E	Terbufos-d10	81.0	P	58 - 132
EPA 8270E	Terphenyl-d14	92.4	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A118689

Included Lab Sample IDs: 2401674, 2401676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	100	P/P	90 - 110
Color (true)	98.7	99.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A118691

Included Lab Sample IDs: 2401674, 2401676

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

Reference Method: SM 2320 B-2011

Run ID: A118726

Included Lab Sample IDs: 2401674, 2401676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.5	93.8	P/P	90 - 110
Total Alkalinity	95.7	94.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118736

Included Lab Sample IDs: 2401675, 2401677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	100	P/P	90 - 110
Total-P	99.5	99.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A118755

Included Lab Sample IDs: 2401674, 2401676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	98.9	P/P	90 - 110
Sulfate	101	99.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A118758

Included Lab Sample IDs: 2401684

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	113	110	P/P	60 - 160
Sucralose	97.8	99.3	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A118762

Included Lab Sample IDs: 2401684

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	128	133	P/P	60 - 160
Endothall	104	103	P/P	60 - 160
Glufosinate	102	95.7	P/P	60 - 160
Glyphosate	112	111	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A118780
Included Lab Sample IDs: 2401684

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.0	101	P/P	50 - 150
2,4,5-T	86.7	114	P/P	50 - 150
3-Hydroxycarbofuran	108	112	P/P	60 - 150
Acetaminophen	97.6	98.7	P/P	60 - 160
Acetamiprid	107	105	P/P	50 - 150
Afidopyropen	101	81.8	P/P	50 - 150
Aldicarb	125	90.0	P/P	60 - 150
Aldicarb Sulfone	105	109	P/P	50 - 150
Aldicarb Sulfoxide	108	98.8	P/P	50 - 150
Bentazon	136	139	P/P	50 - 160
Benzovindiflupyr	102	102	P/P	50 - 150
Carbamazepine	117	111	P/P	60 - 150
Carbaryl	116	107	P/P	60 - 150
Carbofuran	98.1	102	P/P	50 - 150
Clothianidin	121	116	P/P	60 - 150
Dinotefuran	112	112	P/P	50 - 150
Diuron	107	114	P/P	60 - 160
Fenuron	112	112	P/P	60 - 150
Fluridone	104	110	P/P	60 - 160
Hydrocodone	110	111	P/P	60 - 150
Ibuprofen	104	60.3	P/P	50 - 160
Imazapyr	106	105	P/P	50 - 150
Imidacloprid	96.3	88.2	P/P	60 - 150
Linuron	111	100	P/P	60 - 150
Mandestrobin	102	101	P/P	50 - 150
MCPP	100	106	P/P	50 - 150
Methiocarb	95.1	102	P/P	50 - 150
Methomyl	104	108	P/P	50 - 150
Naproxen	108	172*	P/F	50 - 160
Oxamyl	102	109	P/P	50 - 150
Primidone	104	102	P/P	60 - 150
Propoxur	102	109	P/P	50 - 150
Pyraclostrobin	105	106	P/P	60 - 150
Silvex	83.5	102	P/P	50 - 150
Thiamethoxam	122	121	P/P	50 - 150
Tolfenpyrad	98.7	102	P/P	60 - 150
Triclopyr	106	106	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A118788
Included Lab Sample IDs: 2401675

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.0	99.2	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A118808
Included Lab Sample IDs: 2401686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118808
Included Lab Sample IDs: 2401686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	98.3		P	80 - 120
Dechlorane 602	101		P	80 - 120
Dechlorane 603	100		P	80 - 120
Dechlorane Plus	94.7		P	80 - 120
Hexabromobenzene	104		P	80 - 120
Octinoxate	92.8		P	80 - 120
Oxybenzone	94.8		P	80 - 120
PBB-153	99.7		P	80 - 120
PBDE-47	98.3		P	80 - 120
PBDE-99	100		P	80 - 120
Pentabromotoluene	101		P	80 - 120
Tetradecachloro-m-terphenyl	101		P	80 - 120
Tri-o-cresyl Phosphate	94.2		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	94.1		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	92.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	92.0		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A118810
Included Lab Sample IDs: 2401675, 2401677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.9	97.8	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A118820
Included Lab Sample IDs: 2401686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Disulfoton	96.9		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A118821
Included Lab Sample IDs: 2401677

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A118827
Included Lab Sample IDs: 2401677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.9	98.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A118861
Included Lab Sample IDs: 2401675, 2401677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	109	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A118861

Included Lab Sample IDs: 2401675, 2401677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	109	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118923

Included Lab Sample IDs: 2401675

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

Reference Method: EPA 8270E

Run ID: A118926

Included Lab Sample IDs: 2401685

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.1		P	80 - 120
PCB-1260	113		P	80 - 120

Reference Method: SM 4500-F- C-2011

Run ID: A118968

Included Lab Sample IDs: 2401674, 2401676

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

Reference Method: EPA 8270E

Run ID: A118992

Included Lab Sample IDs: 2401686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil Sulfide	107		P	80 - 120

Reference Method: EPA 8270E

Run ID: A119027

Included Lab Sample IDs: 2401686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	85.3		P	80 - 120
Alachlor	87.9		P	80 - 120
Ametryn	97.5		P	80 - 120
Atrazine	92.2		P	80 - 120
Atrazine Desethyl	114		P	80 - 120
Azinphos Methyl	99.2		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	103		P	80 - 120
Butylate	99.6		P	80 - 120
Caffeine	95.6		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	99.8		P	80 - 120
Chlorfenapyr	104		P	80 - 120
Chlorpyrifos Ethyl	85.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119027
Included Lab Sample IDs: 2401686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorpyrifos Methyl	103		P	80 - 120
Coumaphos	98.4		P	80 - 120
Cyanazine	105		P	80 - 120
Cyprodinil	94.3		P	80 - 120
Demeton	97.8		P	80 - 120
Diazinon	104		P	80 - 120
Difenoconazole	95.0		P	80 - 120
Dimethenamid	98.9		P	80 - 120
Dimethomorph	87.7		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	101		P	80 - 120
Ethion	92.9		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	85.7		P	80 - 120
Fenbuconazole	87.6		P	80 - 120
Fipronil	88.4		P	80 - 120
Fipronil Desulfinyl	96.5		P	80 - 120
Fipronil Sulfone	97.9		P	80 - 120
Fluazifop-P-butyl	100		P	80 - 120
Fludioxonil	93.2		P	80 - 120
Flumioxazin	101		P	80 - 120
Flutolanil	98.8		P	80 - 120
Fluxapyroxad	97.6		P	80 - 120
Fonofos	101		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	92.9		P	80 - 120
Iprodione	94.5		P	80 - 120
Loratadine	86.3		P	80 - 120
Malathion	89.8		P	80 - 120
Metaxyl	90.7		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	85.2		P	80 - 120
Molinate	86.9		P	80 - 120
Myclobutanil	88.2		P	80 - 120
Naled	93.0		P	80 - 120
Napropamide	92.2		P	80 - 120
Norflurazon	99.3		P	80 - 120
Oxadiazon	104		P	80 - 120
Oxyfluorfen	88.4		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	94.9		P	80 - 120
Pendimethalin	108		P	80 - 120
Phenytoin	107		P	80 - 120
Phorate	105		P	80 - 120
Prodiamine	104		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	99.1		P	80 - 120
Propanil	115		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119027
Included Lab Sample IDs: 2401686

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propargite	99.8		P	80 - 120
Propiconazole	87.4		P	80 - 120
Pyraflufen Ethyl	107		P	80 - 120
Pyridaben	100		P	80 - 120
Pyriproxyfen	100		P	80 - 120
Simazine	80.6		P	80 - 120
Stirophos	89.9		P	80 - 120
Sulfentrazone	97.4		P	80 - 120
Tebuconazole	97.9		P	80 - 120
Terbufos	99.3		P	80 - 120
Terbuthylazine	86.7		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	101		P	80 - 120

Reference Method: EPA 8276
Run ID: A119081
Included Lab Sample IDs: 2401685

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Toxaphene	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119130
Included Lab Sample IDs: 2401685

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.3		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	107		P	80 - 120
Beta-Cyfluthrin	96.2		P	80 - 120
Bifenthrin	98.2		P	80 - 120
Chlorothalonil	101		P	80 - 120
Cis-Nonachlor	100		P	80 - 120
Cypermethrin	95.3		P	80 - 120
Dacthal	105		P	80 - 120
DDD-p,p'	108		P	80 - 120
DDE-p,p'	98.8		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	100		P	80 - 120
Deltamethrin	89.5		P	80 - 120
Dichlobenil	117		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	99.4		P	80 - 120
Endosulfan I	94.8		P	80 - 120
Endosulfan II	99.1		P	80 - 120
Endosulfan Sulfate	97.8		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	99.6		P	80 - 120
Endrin Ketone	145*		F	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119130
Included Lab Sample IDs: 2401685

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Esfenvalerate	89.7		P	80 - 120
Ethalfuralin	97.5		P	80 - 120
Fenpropathrin	106		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	100		P	80 - 120
Heptachlor	96.5		P	80 - 120
Heptachlor Epoxide	108		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	75.4*		F	80 - 120
Lambda-Cyhalothrin	97.5		P	80 - 120
Methoprene	93.3		P	80 - 120
Methoxychlor	104		P	80 - 120
MGK-264	106		P	80 - 120
Mirex	96.1		P	80 - 120
Oxychlordane	98.3		P	80 - 120
Permethrin	92.9		P	80 - 120
Phenothrin	91.4		P	80 - 120
Piperonyl Butoxide	101		P	80 - 120
Prallethrin	101		P	80 - 120
Tau-Fluvalinate	94.7		P	80 - 120
Tetramethrin	102		P	80 - 120
Trans-Nonachlor	103		P	80 - 120
Triclosan Methyl	98.6		P	80 - 120
Trifluralin	99.7		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	99.7				0.0503	
EPA 180.1 Rev. 2.0	Turbidity	100				7.35	
EPA 300.0 Rev. 2.1	Chloride	103	102	104		1.93	
	Sulfate	103	101	103		2.39	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	100	99.8			0.159
	Ammonia-N	97.6	99.2	101			0.881
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	98.0	100			1.79
	Kjeldahl Nitrogen	101	104	95.2			6.37
EPA 353.2 Rev. 2.0	NO2NO3-N	102	99.0	100			1.50
	NO2NO3-N	104	102	103			0.825
EPA 365.1 Rev. 2.0	Total-P	100	95.6	96.4			0.753
	Total-P	100	99.1	101			1.25
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.8	114	116			1.88
	Acetochlor	88.5	84.3	89.0			5.40
	Alachlor	105	92.0	110			17.9
	Aldrin	32.4	51.0	51.4			0.661
	Alpha-BHC	88.7	90.4	87.0			3.84
	Alpha-Chlordane	68.1	68.3	67.9			0.589
	Ametryn	117	126	139			9.55
	Atrazine	104					1.39
	Atrazine Desethyl	103	114	113			0.131
	Avobenzone	136	168	156			7.67
	Azinphos Methyl	131	127	128			0.879
	Azoxystrobin	116	102	122			18.1
	Beta-BHC	103	109	93.2			15.2
	Beta-Cyfluthrin	37.7	65.2	59.0			9.94
	Bifenthrin	26.4	55.0	57.4			4.27
	Bromacil	114	108	110			1.90
	Butylate	62.7	57.0	66.4			15.3
	Caffeine	104	103	96.8			5.32
	Carbophenothion	123	111	117			6.00
	Carfentrazone Ethyl	122	116	115			1.12
	Chlorfenapyr	105	103	107			3.25
	Chlorothalonil	103	0.0	0.0			
	Chlorpyrifos Ethyl	97.6	76.3	84.8			10.6
	Chlorpyrifos Methyl	111	107	116			7.35
	Cis-Nonachlor	65.1	62.2	58.3			6.46
	Coumaphos	108	123	123			0.0271
	Cyanazine	124	116	118			1.63
	Cypermethrin	39.7	65.1	60.6			7.10
	Cyprodinil	105	100	115			14.3
	Dacthal	99.4	110	102			7.00
	DDD-p,p'	68.1	59.6	54.8			8.24
	DDE-p,p'	63.0	68.5	63.8			7.10
	DDT-p,p'	68.4	69.4	71.2			2.59
	Dechlorane 602	78.2	76.4	76.8			0.512
	Dechlorane 603	105	122	101			18.7
	Dechlorane Plus	97.8	103	85.5			18.9
	Delta-BHC	95.4	108	92.5			15.8
	Deltamethrin	39.7	72.0	66.6			7.79
	Demeton	86.8	89.4	93.2			4.19
	Diazinon	119	114	119			4.84

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Dichlobenil	80.9	59.3	63.7		7.17
	Dicofol	72.4	69.7	71.6		2.57
	Dieldrin	75.7	77.2	71.3		8.03
	Difenoconazole	87.7	109	97.6		10.9
	Dimethenamid	116	101	115		12.2
	Dimethomorph	129	118	159		29.2
	Disulfoton	118	106	115		8.78
	Dithiopyr	108	92.2	112		16.7
	Endosulfan I	76.9	74.2	70.2		5.62
	Endosulfan II	83.1	70.7	60.3		15.9
	Endosulfan Sulfate	80.2	64.8	53.9		18.5
	Endrin	85.3	76.3	76.0		0.359
	Endrin Aldehyde	70.5	46.5	44.1		5.22
	Endrin Ketone	150	93.8	91.3		2.72
	EPTC	56.5	39.9	56.7		34.8
	Esfenvalerate	31.5	57.8	55.3		4.36
	Ethalfuralin	65.4	71.6	72.1		0.589
	Ethion	94.6	89.2	91.4		2.47
	Ethoprop	101	102	103		1.47
	Etridiazole	68.6	61.6	71.8		15.4
	Fenamiphos	87.9	74.3	75.6		1.77
	Fenbuconazole	72.1	85.8	76.4		11.5
	Fenpropathrin	52.5	83.5	80.4		3.79
	Fipronil	111	107	113		5.29
	Fipronil Desulfinyl	113	104	112		5.11
	Fipronil Sulfide	116	104	112		6.38
	Fipronil Sulfone	98.3	120	124		2.42
	Fluazifop-P-butyl	72.2	72.2	69.6		3.67
	Fludioxonil	85.0	76.4	75.3		1.46
	Flumioxazin	142	169	158		6.75
	Flutolanil	90.4	81.4	97.3		17.9
	Fluxapyroxad	102	108	119		8.82
	Fonofos	99.6	99.0	110		8.96
	Gamma-BHC	94.9	107	96.3		11.0
	Gamma-Chlordane	62.8	65.0	64.7		0.564
	Heptachlor	52.1	61.2	59.3		2.99
	Heptachlor Epoxide	91.9	98.8	97.3		1.51
	Hexabromobenzene	115	130	135		4.07
	Hexachlorobenzene	52.2	61.7	63.8		3.36
	Hexazinone	97.6	92.2	102		10.2
	Imazalil	85.3	93.5	80.9		14.4
	Iprodione	95.0	89.1	94.4		5.85
	Kepone	54.3	28.7	27.9		3.03
	Lambda-Cyhalothrin	32.5	67.8	65.2		3.88
	Loratadine	123	131	126		3.46
	Malathion	112	98.1	106		7.36
	Metalaxyl	98.1	86.0	100		15.3
	Methoprene	37.0	59.4	58.1		2.18
	Methoxychlor	75.1	75.4	81.9		8.19
	Metolachlor	118	110	122		11.0
	Metribuzin	102	91.5	97.1		5.62
	Mevinphos	82.4	83.5	89.5		6.98
	MGK-264	78.3	93.3	88.9		4.87
	Mirex	33.5	52.8	50.8		3.94

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Molinate	64.8	60.4	68.5		12.5
	Myclobutanil	103	105	115		9.19
	Naled	27.5	29.4	31.1		5.65
	Napropamide	89.2	88.4	94.4		6.53
	Norflurazon	104	95.3	110		14.0
	Octinoxate	107	117	116		1.34
	Oxadiazon	95.4	52.3	103		51.6
	Oxybenzone	104	121	114		6.59
	Oxychlordane	67.2	72.7	67.4		7.57
	Oxyfluorfen	120	90.8	108		17.0
	Parathion Ethyl	107	104	103		1.89
	Parathion Methyl	119	110	113		2.91
	PBB-153	104	132	120		9.16
	PBDE-47	87.2	89.7	97.6		8.52
	PBDE-99	78.5	87.3	89.9		2.93
	PCB-1016	69.3	67.7	63.0		7.26
	PCB-1260	86.8	71.6	86.1		18.4
	Pendimethalin	114	144	154		5.89
	Pentabromotoluene	105	120	121		1.12
	Permethrin	39.0	62.6	58.9		6.00
	Phenothrin	24.8	64.2	61.0		5.21
	Phenytol	69.8	67.4	79.7		16.7
	Phorate	111	102	116		13.2
	Piperonyl Butoxide	89.4	71.5	69.5		2.85
	Prallethrin	46.2	56.6	59.7		5.20
	Prodiamine	70.1	69.2	75.3		8.43
	Prometon	114	111	117		5.07
	Prometryn	129	120	126		4.57
	Pronamide	130	119	137		14.6
	Propanil	126	136	131		3.65
	Propargite	84.8	68.5	83.6		19.9
	Propiconazole	88.1	104	102		1.82
	Pyraflufen Ethyl	69.6	62.7	69.1		9.67
	Pyridaben	86.2	103	95.1		8.03
	Pyriproxyfen	103	92.6	101		9.08
	Simazine	96.3				2.99
	Stirophos	87.8	78.1	95.1		19.7
	Sulfentrazon	102				2.29
	Tau-Fluvalinate	26.8	56.4	53.2		5.82
	Tebuconazole	71.1	64.4	79.7		21.3
	Terbufos	125	115	126		8.70
	Terbutylazine	89.4	88.4	92.6		4.72
	Tetradecachloro-m-terphenyl	146	163	139		15.8
	Tetramethrin	53.3	86.4	82.3		4.85
	Thiobencarb	112	107	119		10.2
	Trans-Nonachlor	64.7	69.4	63.7		8.55
	Tri-o-cresyl Phosphate	110	123	119		3.92
	Triadimefon	94.3	100	106		5.62
	Triclosan Methyl	74.3	72.9	71.2		2.29
	Trifluralin	64.4	71.1	71.2		0.166
	Tris(1-chloro-2-propyl) phosphate (TCPP)	114	136	124		7.77
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	101	111	111		0.356

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Tris(2-chloroethyl) phosphate (TCEP)	104	117	111			5.09
EPA 8276	Chlordane	70.6	69.9	71.3			1.90
	Toxaphene	87.1	89.0	77.6			13.6
EPA 8321B	2,4-D	112	136	143			4.92
	2,4,5-T	90.5	125	134			7.17
	3-Hydroxycarbofuran	88.6	86.4	97.9			12.4
	Acesulfame K	111	107	108			1.25
	Acetaminophen	86.5	91.8	95.6			3.98
	Acetamiprid	79.8	90.2	95.3			5.50
	Afidopyropen	53.3	77.8	74.3			4.60
	Aldicarb	41.0	47.9	47.5			0.797
	Aldicarb Sulfone	99.6	94.8	95.6			0.902
	Aldicarb Sulfoxide	143	39.5	40.2			1.76
	AMPA	120	126	119			5.72
	Bentazon	110	104	106			1.96
	Benzovindiflupyr	79.9	78.4	84.4			7.45
	Carbamazepine	91.8	84.9	84.8			0.165
	Carbaryl	92.1	73.3	71.8			2.09
	Carbofuran	85.6	59.0	59.7			1.28
	Clothianidin	102	106	109			3.58
	Dinotefuran	103	94.7	101			6.91
	Diuron	92.5	80.6	80.1			0.687
	Endothall	101	105	110			5.18
	Fenuron	93.0	81.5	85.6			4.97
	Fluridone	89.2	83.8	91.3			8.61
	Glufosinate	97.8	100	99.7			0.488
	Glyphosate	127	101	105			4.50
	Hydrocodone	94.5	77.4	82.4			6.26
	Ibuprofen	75.9	66.5	84.2			23.5
	Imazapyr	98.2	120	114			4.40
	Imidacloprid	87.1	100	105			5.25
	Linuron	88.9	75.6	83.0			9.29
	Mandestrobin	84.2	86.9	93.0			6.80
	MCPP	115	142	145			2.19
	Methiocarb	77.2	74.4	64.3			14.6
	Methomyl	91.4	65.4	68.6			4.83
	Naproxen	72.9	72.5	92.2			23.9
	Oxamyl	96.5	84.2	87.9			4.21
	Primidone	89.3	91.6	96.3			4.97
	Propoxur	76.5	55.8	53.4			4.49
	Pyraclostrobin	80.8	78.9	84.0			6.25
	Silvex	105	110	117			6.28
	Sucralose	97.4	94.6	93.1			1.50
	Thiamethoxam	96.9	96.4	99.0			2.67
	Tolfenpyrad	50.2	46.2	50.7			9.20
	Triclopyr	104	134	140			4.03
SM 2320 B-2011	Total Alkalinity	96.5				1.23	
SM 2540 C-2015	TDS	97.4				1.55	
	TDS	101				2.58	
SM 2540 D-2015	TSS	89.6					
	TSS	99.5					
SM 4500-F- C-2011	Fluoride	100	102	101			0.483
	Fluoride		101	101			0.483

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
SM 5310 B-2011	Organic Carbon	98.3	95.0 96.6			1.43

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2401674, 2401676
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2401674, 2401676
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2401674, 2401676
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2401674, 2401676
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2401675, 2401677
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2401675, 2401677
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2401675, 2401677
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2401675, 2401677
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2401686
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2401685
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2401686
EPA 8270E	PCBs in water matrices by GC/MS/MS	2401685
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2401685
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2401683
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2401684
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2401674, 2401676
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2401674, 2401676
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2401674, 2401676
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2401674, 2401676
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2401675, 2401677

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	04/20/2023			04/20/2023 14:15	Chandler E Cox	2401674
	04/20/2023			04/20/2023 14:46	Chandler E Cox	2401676
EPA 180.1 Rev. 2.0	04/20/2023			04/20/2023 14:23	Anna M. Plaviak	2401674
	04/20/2023			04/20/2023 14:24	Anna M. Plaviak	2401676
EPA 300.0 Rev. 2.1	04/20/2023			04/26/2023 21:01	James L Waggeberby	2401676
	04/20/2023			04/26/2023 23:17	James L Waggeberby	2401674
EPA 350.1 Rev. 2.0	04/20/2023			04/26/2023 13:39	Ping Hua	2401675
	04/20/2023			04/27/2023 11:56	Khloe J Berg	2401677
EPA 351.2 Rev. 2.0	04/20/2023	04/25/2023 13:23	Simonne.V. Calhoun	04/28/2023 15:31	Samantha L Bates	2401675
	04/20/2023	04/25/2023 13:23	Simonne.V. Calhoun	04/28/2023 15:46	Samantha L Bates	2401677
EPA 353.2 Rev. 2.0	04/20/2023			04/27/2023 11:29	Beverly Y. Sanders	2401677
	04/20/2023			05/02/2023 15:04	Anna M. Plaviak	2401675
EPA 365.1 Rev. 2.0	04/20/2023	04/21/2023 14:25	Adam P Silver	04/24/2023 14:41	James L Waggeberby	2401675
	04/20/2023	04/21/2023 14:25	Adam P Silver	04/24/2023 15:30	James L Waggeberby	2401677
EPA 8270E	04/20/2023	04/25/2023 08:00	Fe-Val Siddell	04/26/2023 16:23	Vandana T. Nagar	2401686
	04/20/2023	04/25/2023 08:00	Fe-Val Siddell	04/26/2023 21:58	Arthur Maknenko	2401686
	04/20/2023	04/25/2023 08:00	Fe-Val Siddell	04/28/2023 18:06	Vandana T. Nagar	2401686
	04/20/2023	04/26/2023 08:00	Rasheda Ghaffari	05/03/2023 02:47	Julie Wi	2401685
	04/20/2023	05/04/2023 09:00	Julie Wi	05/10/2023 17:45	Michael Poppell	2401685
EPA 8276	04/20/2023	05/04/2023 09:00	Julie Wi	05/10/2023 08:10	Arthur Maknenko	2401685
EPA 8321B	04/20/2023	04/21/2023 13:00	Manjita Shrestha	04/21/2023 17:20	Manjita Shrestha	2401684
	04/20/2023	04/21/2023 13:00	Manjita Shrestha	04/21/2023 22:35	Manjita Shrestha	2401684
	04/20/2023	04/21/2023 13:00	Manjita Shrestha	04/22/2023 13:13	Manjita Shrestha	2401684
	04/20/2023	04/24/2023 08:00	Hoor Shaik	04/26/2023 07:35	Juyoung Kim	2401684
	04/20/2023	04/24/2023 08:00	Hoor Shaik	04/26/2023 17:55	Juyoung Kim	2401684
SM 2320 B-2011	04/20/2023	04/24/2023 09:00	Hoor Shaik	04/25/2023 20:19	Juyoung Kim	2401683
	04/20/2023			04/22/2023 05:21	Dale L. Simmons	2401676
	04/20/2023			04/22/2023 07:56	Dale L. Simmons	2401674
SM 2540 C-2015	04/20/2023			04/21/2023 13:06	Dana G. Hughes	2401676
	04/20/2023			04/21/2023 14:41	Yijie Li	2401674
SM 2540 D-2015	04/20/2023			04/21/2023 13:06	Dana G. Hughes	2401676
	04/20/2023			04/21/2023 14:41	Yijie Li	2401674
SM 4500-F- C-2011	04/20/2023			05/04/2023 23:11	Adam P Silver	2401676
	04/20/2023			05/05/2023 01:14	Adam P Silver	2401674
SM 5310 B-2011	04/20/2023			04/26/2023 16:07	Elise M. Gillis	2401675
	04/20/2023			04/26/2023 16:29	Elise M. Gillis	2401677