

Chemical Analysis Report

SE-DIST-2023-09-26-02

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

Event Description: **SMP - Broward/Palm Beach**
Request ID: **RQ-2023-09-04-31**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Colin Wright, Program Administrator

Date Certified: 23-OCT-2023 11:17

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

Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: E 4 at Clint Moore

Collection Date/Time: 09/25/2023 10:30

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440246	DEP SOP: NU-094-1	Color (true)	68	A	PCU	P435526	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P435529	
	EPA 300.0 Rev. 2.1	Chloride	29		mg Cl/L	P436045	
		Sulfate	7.0		mg SO4/L	P436048	
	SM 2320 B-2011	Total Alkalinity	139		mg CaCO3/L	P435733	
	SM 2540 C-2015	TDS	222		mg/L	P436126	
	SM 2540 D-2015	TSS	4	I	mg/L	P435854	
	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P435736	
2440247	EPA 350.1 Rev. 2.0	Ammonia-N	0.15		mg N/L	P435697	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.92		mg N/L	P436039	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.19		mg N/L	P436378	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P435691	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P435753	

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: ICWW at Alsdorf Public Park

Collection Date/Time: 09/25/2023 12:05

Field ID: G4SE0148

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440244	DEP SOP: NU-094-1	Color (true)	19		PCU	P435526	
	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P435529	
	EPA 300.0 Rev. 2.1	Chloride	7.0E+03		mg Cl/L	P435834	
		Sulfate	980		mg SO4/L	P435837	
	SM 2320 B-2011	Total Alkalinity	132		mg CaCO3/L	P435872	
	SM 2540 C-2015	TDS	1.16E+04		mg/L	P436127	
	SM 2540 D-2015	TSS	3	IA	mg/L	P435857	
	SM 4500-F- C-2011	Fluoride	0.60		mg F/L	P435874	
2440245	EPA 350.1 Rev. 2.0	Ammonia-N	0.056		mg N/L	P435811	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.50		mg N/L	P436041	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P436205	
	EPA 365.1 Rev. 2.0	Total-P	0.047		mg P/L	P435688	
	SM 5310 B-2011	Organic Carbon	6.3		mg C/L	P435643	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Chloride: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

Sample Location: ICWW South of Hillsboro Blvd

Collection Date/Time: 09/25/2023 11:15

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440242	DEP SOP: NU-094-1	Color (true)	33		PCU	P435525	
	EPA 180.1 Rev. 2.0	Turbidity	2.9		NTU	P435529	
	EPA 300.0 Rev. 2.1	Chloride	4.1E+03		mg Cl/L	P435834	
		Sulfate	600		mg SO4/L	P435837	
	SM 2320 B-2011	Total Alkalinity	150		mg CaCO3/L	P435872	
	SM 2540 C-2015	TDS	6.87E+03		mg/L	P436126	
	SM 2540 D-2015	TSS	4	I	mg/L	P435854	
	SM 4500-F- C-2011	Fluoride	0.48		mg F/L	P435874	
2440243	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P435748	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.74		mg N/L	P436041	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P435821	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P435688	
	SM 5310 B-2011	Organic Carbon	7.8		mg C/L	P435753	
2440259	EPA 8321B	Aldicarb	0.020	U	ug/L	P435381	
		Aldicarb Sulfone	0.0020	U	ug/L	P435381	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P435381	MS
		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	
		Acesulfame K	0.10	U	ug/L	P435496	
		2,4-D	0.084		ug/L	P435531	
		AMPA	1.0	U	ug/L	P435496	
2440260		2,4,5-T	0.0040	U	ug/L	P435531	
		Acetaminophen	0.0080	U	ug/L	P435531	
		Acetamiprid	0.0020	U	ug/L	P435531	
		Endothall	0.25	U	ug/L	P435496	MS
		Glufosinate	1.0	U	ug/L	P435496	
		Glyphosate	1.0	U	ug/L	P435496	
		Afidopyropen	0.0020	U	ug/L	P435531	
		Sucralose	0.33		ug/L	P435496	
		Bentazon	0.059		ug/L	P435531	MS
		Benzovindiflupyr	0.0020	U	ug/L	P435531	
		Carbamazepine	8.0E-04	U	ug/L	P435531	
		Clothianidin	0.0020	U	ug/L	P435531	
		Dinotefuran	0.012		ug/L	P435531	
		Diuron	0.0091		ug/L	P435531	
		Fenuron	0.032	U	ug/L	P435531	
		Fluridone	0.078		ug/L	P435531	
		Imazapyr	0.16		ug/L	P435531	
		Hydrocodone	0.0020	U	ug/L	P435531	

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440260	EPA 8321B	Ibuprofen	0.080	U	ug/L	P435531	
		Imidacloprid	0.036		ug/L	P435531	
		Linuron	0.0040	U	ug/L	P435531	
		Mandestrobin	0.0020	U	ug/L	P435531	
		MCP	0.0020	U	ug/L	P435531	
		Naproxen	0.0080	U	ug/L	P435531	
		Primidone	0.0040	U	ug/L	P435531	
		Pyraclostrobin	0.0020	U	ug/L	P435531	
		Silvex	0.0040	U	ug/L	P435531	
		Thiamethoxam	0.0020	U	ug/L	P435531	
		Tolfenpyrad	0.0020	U	ug/L	P435531	
		Triclopyr	0.0040	U	ug/L	P435531	
2440271	EPA 8270E	Aldrin	0.67	U	ng/L	P435980	
		Alpha-BHC	0.10	U	ng/L	P435980	
		Alpha-Chlordane	0.21	U	ng/L	P435980	
		PCB-1016	2.1	U	ng/L	P435980	
		Beta-BHC	0.10	U	ng/L	P435980	
		PCB-1221	2.1	U	ng/L	P435980	
		Beta-Cyfluthrin	1.3	U	ng/L	P435980	
		PCB-1232	2.1	U	ng/L	P435980	
		Bifenthrin	0.51	U	ng/L	P435980	
		PCB-1242	2.1	U	ng/L	P435980	
		PCB-1248	2.1	U	ng/L	P435980	
		Chlorothalonil	3.7	U	ng/L	P435980	
		PCB-1254	2.1	U	ng/L	P435980	
		Cis-Nonachlor	0.21	U	ng/L	P435980	
		PCB-1260	2.1	U	ng/L	P435980	
		Cypermethrin	1.5	U	ng/L	P435980	
		Dacthal	0.15	U	ng/L	P435980	
		DDD-p,p'	0.26	U	ng/L	P435980	
		DDE-p,p'	0.21	U	ng/L	P435980	
		DDT-p,p'	0.82	U	ng/L	P435980	
		Delta-BHC	0.41	U	ng/L	P435980	
		Deltamethrin	1.3	U	ng/L	P435980	
		Dichlobenil	0.26	U	ng/L	P435980	
		Dicofol	1.3	U	ng/L	P435980	
		Dieldrin	0.41	U	ng/L	P435980	
		Endosulfan I	0.41	U	ng/L	P435980	
		Endosulfan II	0.93	U	ng/L	P435980	
		Endosulfan Sulfate	0.31	U	ng/L	P435980	
		Endrin	0.93	U	ng/L	P435980	
		Endrin Aldehyde	0.77	U	ng/L	P435980	
		Endrin Ketone	0.41	U	ng/L	P435980	
		Esfenvalerate	0.77	U	ng/L	P435980	
		Ethalfuralin	0.15	U	ng/L	P435980	

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440271	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P435980	
		Gamma-BHC	0.13	U	ng/L	P435980	
		Gamma-Chlordane	0.21	U	ng/L	P435980	
		Heptachlor	0.21	U	ng/L	P435980	
		Heptachlor Epoxide	0.26	U	ng/L	P435980	
		Hexachlorobenzene**	1.0	U	ng/L	P435980	
		Kepone	14	UJ	ng/L	P435980	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P435980	
		Methoprene	0.77	U	ng/L	P435980	
		Methoxychlor	0.31	U	ng/L	P435980	
		MGK-264	0.21	U	ng/L	P435980	
		Mirex	0.36	U	ng/L	P435980	
		Oxychlordane	0.31	U	ng/L	P435980	
		Permethrin	1.6	U	ng/L	P435980	
		Phenothrin	0.93	U	ng/L	P435980	
		Piperonyl Butoxide	1.0		ng/L	P435980	
		Prallethrin	2.1	U	ng/L	P435980	
		Tau-Fluvalinate	0.26	U	ng/L	P435980	
		Tetramethrin	0.77	U	ng/L	P435980	
		Trans-Nonachlor	0.21	U	ng/L	P435980	
		Triclosan Methyl	0.15	U	ng/L	P435980	
		Trifluralin	0.21	U	ng/L	P435980	
		Chlordane	2.1	U	ng/L	P435980	
		Toxaphene	15	U	ng/L	P435980	
2440272	EPA 8270E	Oxybenzone**	10	U	ng/L	P435493	
		Acetochlor	0.22	I	ng/L	P435493	
		Octinoxate**	150	U	ng/L	P435493	
		Alachlor	0.41	U	ng/L	P435493	
		Avobenzone**	100	U	ng/L	P435493	
		Ametryn	1.1	U	ng/L	P435493	
		Atrazine	44		ng/L	P435493	
		PBDE-47**	4.1	U	ng/L	P435493	
		Atrazine Desethyl	6.6	I	ng/L	P435493	
		PBDE-99**	5.1	U	ng/L	P435493	
		Azinphos Methyl	3.1	U	ng/L	P435493	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P435493	
		Azoxystrobin	1.5	I	ng/L	P435493	
		Bromacil	0.61	U	ng/L	P435493	
		2-Ethylhexyl	12	U	ng/L	P435493	MS
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.46	U	ng/L	P435493	
		Dechlorane Plus**	31	U	ng/L	P435493	
		Caffeine**	20	I	ng/L	P435493	
		Dechlorane 602**	5.1	U	ng/L	P435493	MS
		Carbophenothion	0.51	U	ng/L	P435493	

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440272	EPA 8270E	Dechlorane 603**	4.1	U	ng/L	P435493	
		Carfentrazone Ethyl	0.15	U	ng/L	P435493	
		Hexabromobenzene**	6.1	U	ng/L	P435493	
		Chlorfenapyr	0.31	U	ng/L	P435493	
		PBB-153**	8.1	U	ng/L	P435493	MS
		Chlorpyrifos Ethyl	0.31	U	ng/L	P435493	
		Pentabromotoluene**	3.1	U	ng/L	P435493	
		Chlorpyrifos Methyl	0.10	U	ng/L	P435493	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P435493	
		Coumaphos	1.1	U	ng/L	P435493	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	85		ng/L	P435493	
		Cyanazine	5.1	U	ng/L	P435493	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	3.3	I	ng/L	P435493	
		Cyprodinil	0.20	U	ng/L	P435493	
		Tetradecachloro-m-terphenyl**	7.6	U	ng/L	P435493	
		Demeton	3.6	U	ng/L	P435493	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	61	U	ng/L	P435493	
		Diazinon	0.13	U	ng/L	P435493	
		Difenoconazole	0.75	I	ng/L	P435493	
		Dimethenamid	1.5		ng/L	P435493	
		Dimethomorph	0.31	U	ng/L	P435493	MS
		Disulfoton	0.61	U	ng/L	P435493	
		Dithiopyr	1.0	U	ng/L	P435493	
		EPTC	0.51	U	ng/L	P435493	RPD
		Ethion	0.31	U	ng/L	P435493	
		Ethoprop	0.13	U	ng/L	P435493	
		Etridiazole	0.10	U	ng/L	P435493	
		Fenamiphos	0.46	U	ng/L	P435493	
		Fenbuconazole	0.51	U	ng/L	P435493	
		Fipronil	0.77	I	ng/L	P435493	
		Fipronil Desulfinyl**	0.86		ng/L	P435493	
		Fipronil Sulfide	0.63		ng/L	P435493	
		Fipronil Sulfone	1.3		ng/L	P435493	
		Fluazifop-P-butyl	0.10	U	ng/L	P435493	
		Fludioxonil	0.15	I	ng/L	P435493	
		Flumioxazin	3.2	I	ng/L	P435493	
		Flutolanil	0.91		ng/L	P435493	
		Fluxapyroxad	1.5		ng/L	P435493	
		Fonofos	0.15	U	ng/L	P435493	
		Hexazinone	0.51	U	ng/L	P435493	
		Imazalil	0.66	U	ng/L	P435493	
		Iprodione	0.51	UJ	ng/L	P435493	CCV
		Loratadine**	1.9		ng/L	P435493	
		Malathion	0.36	U	ng/L	P435493	

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440272	EPA 8270E	Metalaxyl	1.5	I	ng/L	P435493	
		Metolachlor	91		ng/L	P435493	
		Metribuzin	0.59	I J	ng/L	P435493	LCS
		Mevinphos	1.0	U	ng/L	P435493	
		Molinate	0.25	U	ng/L	P435493	
		Myclobutanil	0.36	U	ng/L	P435493	
		Naled	2.5	U	ng/L	P435493	
		Napropamide	0.71	U	ng/L	P435493	
		Norflurazon	1.0	U	ng/L	P435493	
		Oxadiazon	15		ng/L	P435493	
		Oxyfluorfen	0.20	U	ng/L	P435493	
		Parathion Ethyl	0.15	U	ng/L	P435493	
		Parathion Methyl	0.20	U	ng/L	P435493	
		Pendimethalin	0.76	U	ng/L	P435493	
		Phenytol**	5.4	U	ng/L	P435493	
		Phorate	0.25	U	ng/L	P435493	
		Prodiamine	0.20	U	ng/L	P435493	
		Prometon	3.1	U	ng/L	P435493	
		Prometryn	0.36	U	ng/L	P435493	
		Pronamide	0.10	U	ng/L	P435493	
		Propanil	0.10	U	ng/L	P435493	
		Propargite	0.81	U	ng/L	P435493	
		Propiconazole	2.0	I	ng/L	P435493	
		Pyraflufen Ethyl	0.31	U	ng/L	P435493	
		Pyridaben	4.3	I	ng/L	P435493	
		Pyriproxyfen	0.25	UJ	ng/L	P435493	CCV
		Simazine	0.25	U	ng/L	P435493	
		Stirophos	0.41	U	ng/L	P435493	
		Sulfentrazone	22		ng/L	P435493	
		Tebuconazole	1.4	U	ng/L	P435493	
		Terbufos	0.20	U	ng/L	P435493	
		Terbuthylazine	0.20	U	ng/L	P435493	
		Thiobencarb	0.51	U	ng/L	P435493	
		Triadimefon	0.15	U	ng/L	P435493	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Chloride: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

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

EPA 8270E: MS accuracy for atrazine 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.

Sample Location: FB

Collection Date/Time: 09/25/2023 11:25

Field ID: FB_09252023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440261	EPA 8321B	Aldicarb	0.020	U	ug/L	P435381	
		Aldicarb Sulfone	0.0020	U	ug/L	P435381	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P435381	MS
		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	
2440262		2,4-D	0.0020	U	ug/L	P435531	
		Acesulfame K	0.10	U	ug/L	P435496	
		2,4,5-T	0.0040	U	ug/L	P435531	
		AMPA	0.10	U	ug/L	P435496	
		Acetaminophen	0.0080	U	ug/L	P435531	
		Acetamiprid	0.0020	U	ug/L	P435531	
		Endothall	0.25	U	ug/L	P435496	MS
		Glufosinate	0.10	U	ug/L	P435496	
		Glyphosate	0.10	U	ug/L	P435496	
		Afidopyropen	0.0020	U	ug/L	P435531	
		Sucralose	0.010	U	ug/L	P435496	
		Bentazon	8.0E-04	U	ug/L	P435531	MS
		Benzovindiflupyr	0.0020	U	ug/L	P435531	
		Carbamazepine	8.0E-04	U	ug/L	P435531	
		Clothianidin	0.0020	U	ug/L	P435531	
		Dinotefuran	0.0020	U	ug/L	P435531	
		Diuron	0.0020	U	ug/L	P435531	
		Fenuron	0.032	U	ug/L	P435531	
		Fluridone	8.0E-04	U	ug/L	P435531	
		Imazapyr	0.0040	U	ug/L	P435531	
		Hydrocodone	0.0020	U	ug/L	P435531	
		Ibuprofen	0.080	U	ug/L	P435531	
		Imidacloprid	0.0020	U	ug/L	P435531	
		Linuron	0.0040	U	ug/L	P435531	
		Mandestrobin	0.0020	U	ug/L	P435531	
		MCPP	0.0020	U	ug/L	P435531	
		Naproxen	0.0080	U	ug/L	P435531	
		Primidone	0.0040	U	ug/L	P435531	
		Pyraclostrobin	0.0020	U	ug/L	P435531	
		Silvex	0.0040	U	ug/L	P435531	
		Thiamethoxam	0.0020	U	ug/L	P435531	
		Tolfenpyrad	0.0020	U	ug/L	P435531	
		Triclopyr	0.0040	U	ug/L	P435531	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P435525

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P435526

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435529

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435834

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435837

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436045

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436048

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435697

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435748

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435811

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436039

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436041

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435821

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436205

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436378

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 365.1 Rev. 2.0
Batch ID: P435691

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

Reference Method: EPA 8270E
Batch ID: P435493

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435493

Component	Result	Code	Units
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
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435493

Component	Result	Code	Units
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
Phenytol	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 8270E

Batch ID: P435980

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
Beta-Cyfluthrin	1.2	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435980

Component	Result	Code	Units
Bifenthrin	0.50	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 8276
Batch ID: P435980

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/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: P435496

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: P435531

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P435531

Component	Result	Code	Units
MCPD	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: SM 2320 B-2011
Batch ID: P435733

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

Reference Method: SM 2320 B-2011
Batch ID: P435872

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

Reference Method: SM 2540 C-2015
Batch ID: P436126

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P436127

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P435854

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P435857

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P435736

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report

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Reference Method: SM 4500-F- C-2011
Batch ID: P435874

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

Reference Method: SM 5310 B-2011
Batch ID: P435753

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: P435525

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P435526

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.9		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435529

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435834

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435837

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436045

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436048

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435697

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435748

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435811

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436039

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436041

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435821

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436378

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		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 365.1 Rev. 2.0
Batch ID: P435691

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

Reference Method: EPA 8270E
Batch ID: P435493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	63.8		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.6		P	42 - 162
Acetochlor	89.0		P	69 - 123
Alachlor	73.8		P	65 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ametryn	124		P	58 - 141
Atrazine	86.0		P	73 - 118
Atrazine Desethyl	81.7		P	32 - 125
Avobenzone	101		P	40 - 203
Azinphos Methyl	95.0		P	36 - 197
Azoxystrobin	94.1		P	58 - 226
Bromacil	92.9		P	48 - 120
Butylate	59.5		P	27 - 85.0
Caffeine	96.9		P	40 - 137
Carbophenothion	93.6		P	54 - 132
Carfentrazone Ethyl	103		P	60 - 142
Chlorfenapyr	55.8		P	53 - 117
Chlorpyrifos Ethyl	99.4		P	59 - 116
Chlorpyrifos Methyl	91.4		P	66 - 119
Coumaphos	83.6		P	11 - 234
Cyanazine	145		P	61 - 248
Cyprodinil	87.6		P	50 - 147
Dechlorane 602	68.4		P	50 - 150
Dechlorane 603	110		P	50 - 150
Dechlorane Plus	109		P	47 - 182
Demeton	69.5		P	30 - 138
Diazinon	108		P	67 - 126
Difenoconazole	63.0		P	38 - 205
Dimethenamid	76.2		P	57 - 111
Dimethomorph	183		P	16 - 212
Disulfoton	96.2		P	46 - 126
Dithiopyr	107		P	62 - 115
EPTC	63.0		P	28 - 80.0
Ethion	39.1		P	24 - 122
Ethoprop	83.8		P	62 - 113
Etridiazole	64.1		P	28 - 92.0
Fenamiphos	74.1		P	57 - 128
Fenbuconazole	58.2		P	52 - 155
Fipronil	92.9		P	63 - 130
Fipronil Desulfinyl	96.2		P	61 - 130
Fipronil Sulfide	79.0		P	56 - 117
Fipronil Sulfone	67.1		P	52 - 118
Fluazifop-P-butyl	68.3		P	61 - 128
Fludioxonil	62.9		P	59 - 129
Flumioxazin	96.8		P	30 - 250
Flutolanil	66.0		P	53 - 127
Fluxapyroxad	73.2		P	42 - 132
Fonofos	89.8		P	61 - 110
Hexabromobenzene	99.8		P	50 - 150
Hexazinone	81.8		P	46 - 139
Imazalil	89.0		P	40 - 139
Iprodione	54.0		P	40 - 146
Loratadine	124		P	10 - 224
Malathion	104		P	61 - 135
Metalaxyl	88.0		P	58 - 121
Metolachlor	99.1		P	64 - 118
Metribuzin	41.7		F	45 - 245

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P435493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mevinphos	72.7		P	49 - 118
Molinate	58.8		P	42 - 92.0
Myclobutanil	67.1		P	55 - 127
Naled	43.0		P	10 - 114
Napropamide	81.2		P	39 - 121
Norflurazon	76.5		P	55 - 129
Octinoxate	102		P	26 - 166
Oxadiazon	72.4		P	54 - 115
Oxybenzone	107		P	49 - 135
Oxyfluorfen	77.5		P	64 - 139
Parathion Ethyl	89.6		P	70 - 111
Parathion Methyl	99.1		P	76 - 136
PBB-153	106		P	50 - 150
PBDE-47	89.0		P	41 - 148
PBDE-99	76.5		P	38 - 147
Pendimethalin	74.2		P	52 - 118
Pentabromotoluene	96.5		P	50 - 150
Phenytoin	28.0		P	10 - 162
Phorate	97.4		P	40 - 122
Prodiamine	48.9		P	26 - 141
Prometon	106		P	54 - 122
Prometryn	99.6		P	61 - 128
Pronamide	101		P	72 - 121
Propanil	93.8		P	45 - 144
Propargite	59.9		P	10 - 199
Propiconazole	72.9		P	56 - 127
Pyraflufen Ethyl	89.9		P	56 - 140
Pyridaben	86.9		P	26 - 211
Pyriproxyfen	125		P	33 - 194
Simazine	82.1		P	67 - 121
Stirophos	46.6		P	20 - 142
Sulfentrazone	39.8		P	21 - 144
Tebuconazole	47.6		P	10 - 122
Terbufos	110		P	60 - 129
Terbuthylazine	82.6		P	69 - 113
Tetradecachloro-m-terphenyl	126		P	70 - 200
Thiobencarb	90.2		P	51 - 120
Tri-o-cresyl Phosphate	101		P	49 - 150
Triadimefon	85.4		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	106		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.4		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	108		P	70 - 180

Reference Method: EPA 8270E
Batch ID: P435980

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	78.6		P	30 - 96.0
Alpha-BHC	77.6		P	70 - 109
Alpha-Chlordane	82.7		P	45 - 107
Beta-BHC	90.6		P	64 - 138
Beta-Cyfluthrin	106		P	17 - 141

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435980

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bifenthrin	89.8		P	10 - 113
Chlorothalonil	61.8		P	26 - 180
Cis-Nonachlor	93.8		P	37 - 102
Cypermethrin	98.0		P	20 - 133
Dacthal	88.7		P	69 - 114
DDD-p,p'	89.1		P	42 - 105
DDE-p,p'	77.1		P	42 - 106
DDT-p,p'	82.7		P	42 - 107
Delta-BHC	99.5		P	67 - 144
Deltamethrin	102		P	15 - 149
Dichlobenil	87.9		P	46 - 117
Dicofol	72.9		P	34 - 114
Dieldrin	82.4		P	50 - 108
Endosulfan I	82.1		P	55 - 104
Endosulfan II	90.8		P	51 - 111
Endosulfan Sulfate	77.1		P	56 - 121
Endrin	85.1		P	10 - 106
Endrin Aldehyde	91.1		P	34 - 114
Endrin Ketone	72.0		P	63 - 177
Esfenvalerate	107		P	29 - 143
Ethalfuralin	73.6		P	46 - 96.0
Fenpropathrin	97.5		P	28 - 115
Gamma-BHC	76.0		P	65 - 121
Gamma-Chlordane	84.0		P	39 - 103
Heptachlor	74.9		P	39 - 94.0
Heptachlor Epoxide	92.0		P	54 - 104
Hexachlorobenzene	91.5		P	36 - 100
Kepone	50.4		P	10 - 225
Lambda-Cyhalothrin	102		P	10 - 135
Methoprene	77.4		P	10 - 109
Methoxychlor	69.0		P	52 - 112
MGK-264	104		P	44 - 117
Mirex	87.7		P	20 - 90.0
Oxychlordane	77.7		P	44 - 102
PCB-1016	80.0		P	45 - 107
PCB-1260	78.2		P	40 - 118
Permethrin	102		P	18 - 135
Phenothrin	96.2		P	10 - 102
Piperonyl Butoxide	89.9		P	28 - 156
Prallethrin	88.6		P	28 - 113
Tau-Fluvalinate	109		P	10 - 123
Tetramethrin	97.6		P	18 - 158
Trans-Nonachlor	87.4		P	39 - 104
Triclosan Methyl	76.8		P	54 - 108
Trifluralin	72.7		P	46 - 97.0

Reference Method: EPA 8276

Batch ID: P435980

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	72.8		P	52 - 117
Toxaphene	86.7		P	44 - 125

Quality Assurance Report Laboratory Control Sample Accuracy

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: P435496

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.9		P	40 - 150
AMPA	76.6		P	40 - 150
Endothall	99.7		P	40 - 150
Glufosinate	126		P	40 - 150
Glyphosate	72.5		P	40 - 150
Sucralose	99.3		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435531

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	67.4		P	40 - 150
2,4,5-T	89.4		P	40 - 150
Acetaminophen	82.6		P	30 - 150
Acetamiprid	82.9		P	40 - 150
Afidopyropen	49.9		P	30 - 150
Bentazon	77.6		P	30 - 150
Benzovindiflupyr	67.5		P	40 - 150
Carbamazepine	81.4		P	40 - 150
Clothianidin	89.3		P	40 - 150
Dinotefuran	91.1		P	40 - 150
Diuron	76.1		P	40 - 150
Fenuron	87.6		P	40 - 150
Fluridone	94.0		P	40 - 150
Hydrocodone	92.7		P	40 - 150
Ibuprofen	58.7		P	40 - 150
Imazapyr	69.6		P	40 - 150
Imidacloprid	84.0		P	40 - 150
Linuron	67.2		P	40 - 150
Mandestrobin	67.6		P	40 - 150
MCPP	92.3		P	40 - 150
Naproxen	91.3		P	40 - 150
Primidone	81.4		P	40 - 150
Pyraclostrobin	77.3		P	40 - 150
Silvex	78.6		P	40 - 150
Thiamethoxam	92.7		P	40 - 150
Tolfenpyrad	46.5		P	30 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P435531

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	90.5		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P435733

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.3		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P435872

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.1		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P436126

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

Reference Method: SM 2540 C-2015
Batch ID: P436127

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.0		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P435854

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.9		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P435857

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.6		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P435736

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

Reference Method: SM 4500-F- C-2011
Batch ID: P435874

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	105		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

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

Reference Method: SM 5310 B-2011
Batch ID: P435753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435834

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440108	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435837

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439916	Sulfate	103		P	90 - 110
2440108	Sulfate	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436045

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440292	Chloride	104		P	90 - 110
2440473	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436048

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440292	Sulfate	104		P	90 - 110
2440473	Sulfate	106		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435697

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440110	Ammonia-N	101	98.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435748

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440064	Ammonia-N	103	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435811

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440552	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436039

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440060	Kjeldahl Nitrogen	96.1	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436041

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440115	Kjeldahl Nitrogen	102	107	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435821

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440068	NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440067	NO2NO3-N	101	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436378

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439869	NO2NO3-N	99.5	100	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 365.1 Rev. 2.0
Batch ID: P435691

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440027	Total-P	105	103	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P435493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440545	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	93.3	81.7	P/P	50 - 150
2440545	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	28.5	22.9	P/F	26 - 165
2440545	Acetochlor	103	85.9	P/P	67 - 124
2440545	Alachlor	88.1	90.2	P/P	60 - 120
2440545	Ametryn	130	115	P/P	54 - 216
2440545	Atrazine Desethyl	85.7	70.4	P/P	15 - 122
2440545	Avobenzone	83.2	96.1	P/P	37 - 178
2440545	Azinphos Methyl	78.6	92.7	P/P	40 - 292
2440545	Azoxystrobin	110	94.7	P/P	35 - 220
2440545	Bromacil	115	98.8	P/P	45 - 127
2440545	Butylate	58.6	43.0	P/P	20 - 83.0
2440545	Caffeine	112	92.6	P/P	10 - 194
2440545	Carbophenothion	109	92.5	P/P	57 - 127
2440545	Carfentrazone Ethyl	117	99.4	P/P	51 - 141
2440545	Chlorfenapyr	62.6	54.7	P/P	46 - 111
2440545	Chlorpyrifos Ethyl	97.7	82.9	P/P	52 - 120
2440545	Chlorpyrifos Methyl	91.5	78.9	P/P	63 - 119
2440545	Coumaphos	61.4	56.6	P/P	10 - 228
2440545	Cyanazine	182	126	P/P	59 - 241
2440545	Cyprodinil	81.1	63.7	P/P	47 - 146
2440545	Dechlorane 602	37.8	40.7	F/F	50 - 150
2440545	Dechlorane 603	70.5	75.5	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440545	Dechlorane Plus	67.6	73.9	P/P	50 - 150
2440545	Demeton	78.1	67.5	P/P	40 - 136
2440545	Diazinon	108	107	P/P	69 - 132
2440545	Difenoconazole	118	137	P/P	57 - 258
2440545	Dimethenamid	80.6	69.9	P/P	54 - 110
2440545	Dimethomorph	227	241	F/F	28 - 210
2440545	Disulfoton	101	101	P/P	43 - 133
2440545	Dithiopyr	102	88.5	P/P	39 - 116
2440545	EPTC	51.7	32.0	P/P	20 - 78.0
2440545	Ethion	44.3	42.5	P/P	17 - 119
2440545	Ethoprop	103	88.7	P/P	66 - 120
2440545	Etridiazole	66.3	52.5	P/P	28 - 96.0
2440545	Fenamiphos	63.5	58.1	P/P	41 - 126
2440545	Fenbuconazole	58.8	68.2	P/P	42 - 169
2440545	Fipronil	82.1	68.2	P/P	61 - 132
2440545	Fipronil Desulfinyl	99.7	88.5	P/P	56 - 132
2440545	Fipronil Sulfide	105	90.9	P/P	48 - 119
2440545	Fipronil Sulfone	60.2	66.0	P/P	42 - 131
2440545	Fluazifop-P-butyl	63.5	63.1	P/P	53 - 131
2440545	Fludioxonil	73.8	63.8	P/P	56 - 127
2440545	Flumioxazin	136	166	P/P	19 - 300
2440545	Flutolanil	71.4	67.7	P/P	41 - 127
2440545	Fluxapyroxad	88.1	74.8	P/P	42 - 172
2440545	Fonofos	90.8	86.5	P/P	59 - 113
2440545	Hexabromobenzene	83.1	82.9	P/P	50 - 150
2440545	Hexazinone	101	79.1	P/P	66 - 122
2440545	Imazalil	121	104	P/P	21 - 283
2440545	Iprodione	75.2	61.7	P/P	43 - 150
2440545	Loratadine	167	181	P/P	23 - 201
2440545	Malathion	120	91.0	P/P	58 - 136
2440545	Metalaxyl	96.4	81.5	P/P	55 - 120
2440545	Metolachlor	105	82.3	P/P	57 - 121
2440545	Metribuzin	68.8	62.6	P/P	58 - 294
2440545	Mevinphos	82.2	74.2	P/P	50 - 126
2440545	Molinate	55.8	49.9	P/P	42 - 93.0
2440545	Myclobutanil	78.7	65.3	P/P	55 - 125
2440545	Naled	33.8	33.9	P/P	18 - 200
2440545	Napropamide	90.8	78.5	P/P	39 - 110
2440545	Norflurazon	75.9	74.5	P/P	48 - 128
2440545	Octinoxate	91.1	89.0	P/P	21 - 159
2440545	Oxadiazon	89.8	74.4	P/P	43 - 112
2440545	Oxybenzone	97.8	100	P/P	41 - 142
2440545	Oxyfluorfen	90.7	69.0	P/P	64 - 153
2440545	Parathion Ethyl	105	87.3	P/P	69 - 114
2440545	Parathion Methyl	108	97.9	P/P	79 - 139
2440545	PBB-153	33.2	35.2	F/F	50 - 150
2440545	PBDE-47	78.0	78.6	P/P	27 - 144
2440545	PBDE-99	22.9	25.1	P/P	18 - 150
2440545	Pendimethalin	85.9	75.0	P/P	50 - 139
2440545	Pentabromotoluene	86.2	84.1	P/P	50 - 150
2440545	Phenytoin	54.4	44.5	P/P	10 - 146
2440545	Phorate	116	116	P/P	54 - 161

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440545	Prodiamine	49.5	35.1	P/P	30 - 161
2440545	Prometon	110	96.6	P/P	45 - 134
2440545	Prometryn	104	95.5	P/P	45 - 137
2440545	Pronamide	118	95.6	P/P	65 - 133
2440545	Propanil	110	89.2	P/P	49 - 142
2440545	Propargite	60.8	50.0	P/P	10 - 203
2440545	Propiconazole	73.4	80.4	P/P	38 - 146
2440545	Pyraflufen Ethyl	73.6	81.8	P/P	34 - 153
2440545	Pyridaben	50.8	51.4	P/P	12 - 192
2440545	Pyriproxyfen	92.3	113	P/P	33 - 180
2440545	Simazine	80.3	60.5	P/P	51 - 157
2440545	Stirophos	47.3	44.8	P/P	10 - 128
2440545	Sulfentrazone	77.7	62.0	P/P	53 - 186
2440545	Tebuconazole	56.2	50.6	P/P	10 - 133
2440545	Terbufos	124	115	P/P	65 - 139
2440545	Terbutylazine	91.9	84.6	P/P	66 - 117
2440545	Tetradecachloro-m-terphenyl	74.0	74.2	P/P	70 - 200
2440545	Thiobencarb	95.0	79.7	P/P	51 - 119
2440545	Tri-o-cresyl Phosphate	94.8	94.1	P/P	31 - 144
2440545	Triadimefon	98.5	75.8	P/P	48 - 119
2440545	Tris(1-chloro-2-propyl) phosphate (TCPP)	104	103	P/P	50 - 150
2440545	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.9	93.5	P/P	50 - 150
2440545	Tris(2-chloroethyl) phosphate (TCEP)	106	102	P/P	70 - 180

Reference Method: EPA 8270E

Batch ID: P435980

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440178	Aldrin	50.5	54.7	P/P	24 - 81.0
2440178	Alpha-BHC	83.6	77.1	P/P	65 - 110
2440178	Alpha-Chlordane	60.5	58.0	P/P	43 - 119
2440178	Beta-BHC	77.2	76.3	P/P	54 - 165
2440178	Beta-Cyfluthrin	80.8	82.1	P/P	27 - 165
2440178	Bifenthrin	63.8	68.2	P/P	17 - 117
2440178	Chlorothalonil	51.8	45.2	P/P	10 - 255
2440178	Cis-Nonachlor	56.2	65.8	P/P	34 - 98.0
2440178	Cypermethrin	85.0	81.4	P/P	25 - 143
2440178	Dacthal	69.0	67.6	P/P	55 - 139
2440178	DDD-p,p'	58.7	66.8	P/P	30 - 109
2440178	DDE-p,p'	50.8	53.6	P/P	35 - 106
2440178	DDT-p,p'	89.3	99.5	P/P	41 - 101
2440178	Delta-BHC	85.8	84.4	P/P	58 - 165
2440178	Deltamethrin	114	107	P/P	10 - 194
2440178	Dichlobenil	59.9	48.0	P/P	22 - 114
2440178	Dicofol	65.9	66.7	P/P	17 - 133
2440178	Dieldrin	57.2	65.3	P/P	45 - 129
2440178	Endosulfan I	69.4	68.5	P/P	49 - 104
2440178	Endosulfan II	60.5	60.2	P/P	37 - 117
2440178	Endosulfan Sulfate	73.6	65.8	P/P	38 - 128
2440178	Endrin	55.8	63.3	P/P	35 - 116
2440178	Endrin Aldehyde	58.6	44.8	P/P	19 - 108
2440178	Endrin Ketone	70.9	61.5	P/P	44 - 134

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435980

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440178	Esfenvalerate	92.8	96.3	P/P	27 - 176
2440178	Ethalfuralin	59.4	62.4	P/P	49 - 100
2440178	Fenpropathrin	76.3	70.6	P/P	34 - 117
2440178	Gamma-BHC	73.0	68.4	P/P	59 - 129
2440178	Gamma-Chlordane	63.8	60.4	P/P	33 - 107
2440178	Heptachlor	65.5	64.5	P/P	37 - 94.0
2440178	Heptachlor Epoxide	70.3	68.8	P/P	38 - 118
2440178	Hexachlorobenzene	60.3	58.5	P/P	35 - 97.0
2440178	Kepone	28.7	30.7	P/P	10 - 221
2440178	Lambda-Cyhalothrin	80.3	78.6	P/P	23 - 190
2440178	Methoprene	43.6	52.6	P/P	21 - 109
2440178	Methoxychlor	75.3	63.6	P/P	46 - 118
2440178	MGK-264	93.7	79.4	P/P	39 - 122
2440178	Mirex	52.8	52.6	P/P	25 - 90.0
2440178	Oxychlordane	62.6	70.0	P/P	42 - 100
2440178	Permethrin	68.6	71.9	P/P	33 - 181
2440178	Phenothrin	61.4	61.6	P/P	12 - 125
2440178	Piperonyl Butoxide	105	92.3	P/P	10 - 178
2440178	Prallethrin	66.1	66.2	P/P	24 - 122
2440178	Tau-Fluvalinate	87.0	92.6	P/P	13 - 151
2440178	Tetramethrin	89.3	84.8	P/P	16 - 172
2440178	Trans-Nonachlor	66.8	63.4	P/P	39 - 100
2440178	Triclosan Methyl	56.8	57.0	P/P	43 - 110
2440178	Trifluralin	55.2	60.5	P/P	45 - 94.0
2440271	PCB-1016	79.8	91.5	P/P	45 - 107
2440271	PCB-1260	74.6	86.7	P/P	40 - 112

Reference Method: EPA 8276

Batch ID: P435980

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440271	Chlordane	59.2	69.4	P/P	43 - 123
2440271	Toxaphene	66.1	73.5	P/P	27 - 156

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P435496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440366	Acesulfame K	88.0	87.9	P/P	40 - 150
2440366	AMPA	64.6	64.3	P/P	40 - 150
2440366	Endothall	155	156	F/F	40 - 150
2440366	Glufosinate	119	108	P/P	40 - 150
2440366	Glyphosate	115	96.5	P/P	40 - 150
2440366	Sucralose	96.9	108	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435531

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439966	2,4-D	71.3	87.8	P/P	40 - 150
2439966	2,4,5-T	81.2	90.7	P/P	40 - 150
2439966	Acetaminophen	76.4	73.9	P/P	30 - 150
2439966	Acetamiprid	40.6	52.4	P/P	40 - 150
2439966	Afidopyropen	62.4	73.7	P/P	30 - 150
2439966	Bentazon	20.0	22.4	F/F	30 - 150
2439966	Benzovindiflupyr	91.7	98.3	P/P	40 - 150
2439966	Carbamazepine	57.4	63.2	P/P	40 - 150
2439966	Clothianidin	56.4	56.1	P/P	40 - 150
2439966	Dinotefuran	60.0	60.8	P/P	40 - 150
2439966	Diuron	47.0	53.1	P/P	40 - 150
2439966	Fenuron	40.3	43.5	P/P	40 - 150
2439966	Fluridone	68.2	76.9	P/P	40 - 150
2439966	Hydrocodone	48.1	55.9	P/P	40 - 150
2439966	Ibuprofen	51.1	62.6	P/P	40 - 150
2439966	Imazapyr	74.8	84.0	P/P	40 - 150
2439966	Imidacloprid	84.0	91.1	P/P	40 - 150
2439966	Linuron	86.9	97.6	P/P	40 - 150
2439966	Mandestrobin	82.4	94.7	P/P	40 - 150
2439966	MCPP	80.8	92.6	P/P	40 - 150
2439966	Naproxen	106	112	P/P	40 - 150
2439966	Primidone	61.0	65.5	P/P	40 - 150
2439966	Pyraclostrobin	84.2	95.9	P/P	40 - 150
2439966	Silvex	70.1	76.5	P/P	40 - 150
2439966	Thiamethoxam	55.2	58.4	P/P	40 - 150
2439966	Tolfenpyrad	53.2	58.3	P/P	30 - 150
2439966	Triclopyr	81.3	93.3	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P435736

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439796	Fluoride	101	101	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P435874

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440920	Fluoride	103	103	P/P	94 - 106

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

Reference Method: SM 5310 B-2011
Batch ID: P435753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2439957	Organic Carbon	95.1	95.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435525

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439955	Color (true)	1.04	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P435526

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440246	Color (true)	1.70	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435529

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440112	Turbidity	10.2	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435834

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439916	Chloride	0.00286	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435837

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439916	Sulfate	0.503	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436045

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440292	Chloride	2.47	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436048

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440292	Sulfate	4.26	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435697

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440110	Ammonia-N	2.41	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435748

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440064	Ammonia-N	0.897	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435811

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440552	Ammonia-N	0.979	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440060	Kjeldahl Nitrogen	5.27	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436041

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440115	Kjeldahl Nitrogen	3.71	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435821

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440068	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440067	NO2NO3-N	1.01	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436378

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439869	NO2NO3-N	1.00	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 365.1 Rev. 2.0

Batch ID: P435691

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440027	Total-P	1.53	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P435493

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440545	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	13.3	Spike	P	0 - 30
2440545	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	21.7	Spike	P	0 - 37
2440545	Acetochlor	17.6	Spike	P	0 - 28
2440545	Alachlor	2.27	Spike	P	0 - 30
2440545	Ametryn	12.5	Spike	P	0 - 32
2440545	Atrazine	6.84	Spike	P	0 - 41
2440545	Atrazine Desethyl	15.5	Spike	P	0 - 36
2440545	Avobenzone	14.4	Spike	P	0 - 36
2440545	Azinphos Methyl	16.5	Spike	P	0 - 75
2440545	Azoxystrobin	14.7	Spike	P	0 - 39
2440545	Bromacil	14.9	Spike	P	0 - 33
2440545	Butylate	30.7	Spike	P	0 - 44
2440545	Caffeine	18.6	Spike	P	0 - 74
2440545	Carbophenothion	16.2	Spike	P	0 - 25
2440545	Carfentrazone Ethyl	16.0	Spike	P	0 - 27
2440545	Chlorfenapyr	13.6	Spike	P	0 - 24
2440545	Chlorpyrifos Ethyl	16.4	Spike	P	0 - 26
2440545	Chlorpyrifos Methyl	14.7	Spike	P	0 - 26
2440545	Coumaphos	8.07	Spike	P	0 - 28
2440545	Cyanazine	36.5	Spike	P	0 - 48
2440545	Cyprodinil	21.4	Spike	P	0 - 29
2440545	Dechlorane 602	7.57	Spike	P	0 - 30
2440545	Dechlorane 603	6.96	Spike	P	0 - 30
2440545	Dechlorane Plus	8.97	Spike	P	0 - 30
2440545	Demeton	14.7	Spike	P	0 - 33
2440545	Diazinon	1.39	Spike	P	0 - 29
2440545	Difenoconazole	15.0	Spike	P	0 - 34
2440545	Dimethenamid	14.2	Spike	P	0 - 39
2440545	Dimethomorph	5.97	Spike	P	0 - 51
2440545	Disulfoton	0.528	Spike	P	0 - 30
2440545	Dithiopyr	13.7	Spike	P	0 - 26
2440545	EPTC	47.0	Spike	F	0 - 43
2440545	Ethion	4.13	Spike	P	0 - 79
2440545	Ethoprop	15.3	Spike	P	0 - 29
2440545	Etridiazole	23.3	Spike	P	0 - 33
2440545	Fenamiphos	8.92	Spike	P	0 - 40
2440545	Fenbuconazole	14.7	Spike	P	0 - 74
2440545	Fipronil	18.6	Spike	P	0 - 29
2440545	Fipronil Desulfanyl	12.0	Spike	P	0 - 32
2440545	Fipronil Sulfide	14.3	Spike	P	0 - 30
2440545	Fipronil Sulfone	9.19	Spike	P	0 - 33
2440545	Fluazifop-P-butyl	0.649	Spike	P	0 - 38
2440545	Fludioxonil	14.5	Spike	P	0 - 29
2440545	Flumioxazin	19.7	Spike	P	0 - 51

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P435493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440545	Flutolanil	5.26	Spike	P	0 - 25
2440545	Fluxapyroxad	16.4	Spike	P	0 - 45
2440545	Fonofos	4.88	Spike	P	0 - 27
2440545	Hexabromobenzene	0.301	Spike	P	0 - 30
2440545	Hexazinone	24.0	Spike	P	0 - 30
2440545	Imazalil	15.2	Spike	P	0 - 100
2440545	Iprodione	19.8	Spike	P	0 - 33
2440545	Loratadine	8.44	Spike	P	0 - 56
2440545	Malathion	27.1	Spike	P	0 - 37
2440545	Metalaxyl	16.7	Spike	P	0 - 40
2440545	Metolachlor	21.1	Spike	P	0 - 29
2440545	Metribuzin	9.46	Spike	P	0 - 45
2440545	Mevinphos	10.3	Spike	P	0 - 29
2440545	Molinate	11.2	Spike	P	0 - 33
2440545	Myclobutanil	18.7	Spike	P	0 - 26
2440545	Naled	0.251	Spike	P	0 - 37
2440545	Napropamide	14.6	Spike	P	0 - 44
2440545	Norflurazon	1.84	Spike	P	0 - 30
2440545	Octinoxate	2.34	Spike	P	0 - 45
2440545	Oxadiazon	18.8	Spike	P	0 - 28
2440545	Oxybenzone	2.69	Spike	P	0 - 46
2440545	Oxyfluorfen	27.2	Spike	P	0 - 28
2440545	Parathion Ethyl	18.3	Spike	P	0 - 31
2440545	Parathion Methyl	9.54	Spike	P	0 - 29
2440545	PBB-153	5.91	Spike	P	0 - 30
2440545	PBDE-47	0.774	Spike	P	0 - 36
2440545	PBDE-99	9.23	Spike	P	0 - 40
2440545	Pendimethalin	13.6	Spike	P	0 - 33
2440545	Pentabromotoluene	2.50	Spike	P	0 - 30
2440545	Phenytoin	20.0	Spike	P	0 - 100
2440545	Phorate	0.602	Spike	P	0 - 36
2440545	Prodiamine	34.2	Spike	P	0 - 71
2440545	Prometon	12.7	Spike	P	0 - 36
2440545	Prometryn	8.18	Spike	P	0 - 28
2440545	Pronamide	21.2	Spike	P	0 - 24
2440545	Propanil	21.1	Spike	P	0 - 28
2440545	Propargite	19.4	Spike	P	0 - 43
2440545	Propiconazole	9.03	Spike	P	0 - 33
2440545	Pyraflufen Ethyl	10.5	Spike	P	0 - 29
2440545	Pyridaben	1.15	Spike	P	0 - 30
2440545	Pyriproxyfen	19.8	Spike	P	0 - 79
2440545	Simazine	24.6	Spike	P	0 - 29
2440545	Stirophos	5.50	Spike	P	0 - 61
2440545	Sulfentrazone	22.6	Spike	P	0 - 33
2440545	Tebuconazole	10.6	Spike	P	0 - 69
2440545	Terbufos	7.49	Spike	P	0 - 29
2440545	Terbuthylazine	8.21	Spike	P	0 - 32
2440545	Tetradecachloro-m-terphenyl	0.349	Spike	P	0 - 30
2440545	Thiobencarb	17.6	Spike	P	0 - 26
2440545	Tri-o-cresyl Phosphate	0.742	Spike	P	0 - 33
2440545	Triadimefon	26.0	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P435493

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440545	Tris(1-chloro-2-propyl) phosphate (TCPP)	1.19	Spike	P	0 - 30
2440545	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	4.55	Spike	P	0 - 30
2440545	Tris(2-chloroethyl) phosphate (TCEP)	4.23	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P435980

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440178	Aldrin	7.98	Spike	P	0 - 41
2440178	Alpha-BHC	8.12	Spike	P	0 - 25
2440178	Alpha-Chlordane	4.29	Spike	P	0 - 32
2440178	Beta-BHC	1.14	Spike	P	0 - 33
2440178	Beta-Cyfluthrin	1.64	Spike	P	0 - 43
2440178	Bifenthrin	6.69	Spike	P	0 - 52
2440178	Chlorothalonil	13.8	Spike	P	0 - 82
2440178	Cis-Nonachlor	15.8	Spike	P	0 - 33
2440178	Cypermethrin	4.30	Spike	P	0 - 51
2440178	Dacthal	2.09	Spike	P	0 - 27
2440178	DDD-p,p'	12.9	Spike	P	0 - 39
2440178	DDE-p,p'	5.21	Spike	P	0 - 31
2440178	DDT-p,p'	10.8	Spike	P	0 - 29
2440178	Delta-BHC	1.65	Spike	P	0 - 35
2440178	Deltamethrin	6.53	Spike	P	0 - 100
2440178	Dichlobenil	22.0	Spike	P	0 - 40
2440178	Dicofol	1.20	Spike	P	0 - 37
2440178	Dieldrin	13.1	Spike	P	0 - 27
2440178	Endosulfan I	1.28	Spike	P	0 - 23
2440178	Endosulfan II	0.462	Spike	P	0 - 34
2440178	Endosulfan Sulfate	11.1	Spike	P	0 - 36
2440178	Endrin	12.5	Spike	P	0 - 45
2440178	Endrin Aldehyde	26.6	Spike	P	0 - 76
2440178	Endrin Ketone	14.2	Spike	P	0 - 43
2440178	Esfenvalerate	3.69	Spike	P	0 - 51
2440178	Ethalfuralin	4.94	Spike	P	0 - 22
2440178	Fenpropathrin	7.76	Spike	P	0 - 49
2440178	Gamma-BHC	6.53	Spike	P	0 - 28
2440178	Gamma-Chlordane	5.52	Spike	P	0 - 40
2440178	Heptachlor	1.54	Spike	P	0 - 29
2440178	Heptachlor Epoxide	1.62	Spike	P	0 - 33
2440178	Hexachlorobenzene	2.95	Spike	P	0 - 36
2440178	Kepone	6.65	Spike	P	0 - 85
2440178	Lambda-Cyhalothrin	2.14	Spike	P	0 - 55
2440178	Methoprene	18.6	Spike	P	0 - 53
2440178	Methoxychlor	16.9	Spike	P	0 - 50
2440178	MGK-264	16.6	Spike	P	0 - 43
2440178	Mirex	0.347	Spike	P	0 - 40
2440178	Oxychlordane	11.1	Spike	P	0 - 31
2440178	Permethrin	4.61	Spike	P	0 - 50
2440178	Phenothrin	0.342	Spike	P	0 - 58
2440178	Piperonyl Butoxide	13.1	Spike	P	0 - 100

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P435980

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440178	Prallethrin	0.147	Spike	P	0 - 39
2440178	Tau-Fluvalinate	6.28	Spike	P	0 - 54
2440178	Tetramethrin	5.19	Spike	P	0 - 51
2440178	Trans-Nonachlor	5.22	Spike	P	0 - 39
2440178	Triclosan Methyl	0.346	Spike	P	0 - 31
2440178	Trifluralin	9.12	Spike	P	0 - 22
2440271	PCB-1016	13.7	Spike	P	0 - 25
2440271	PCB-1260	15.0	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P435980

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440271	Chlordane	15.9	Spike	P	0 - 28
2440271	Toxaphene	10.6	Spike	P	0 - 27

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: P435496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440366	Acesulfame K	0.157	Spike	P	0 - 30
2440366	AMPA	0.354	Spike	P	0 - 30
2440366	Endothall	0.668	Spike	P	0 - 30
2440366	Glufosinate	9.58	Spike	P	0 - 30
2440366	Glyphosate	17.4	Spike	P	0 - 30
2440366	Sucralose	10.5	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P435531

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439966	2,4-D	20.7	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P435531

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439966	2,4,5-T	11.0	Spike	P	0 - 30
2439966	Acetaminophen	3.36	Spike	P	0 - 30
2439966	Acetamiprid	25.4	Spike	P	0 - 30
2439966	Afidopyropen	16.7	Spike	P	0 - 30
2439966	Bentazon	11.2	Spike	P	0 - 30
2439966	Benzovindiflupyr	6.99	Spike	P	0 - 30
2439966	Carbamazepine	9.61	Spike	P	0 - 30
2439966	Clothianidin	0.586	Spike	P	0 - 30
2439966	Dinotefuran	1.26	Spike	P	0 - 30
2439966	Diuron	12.2	Spike	P	0 - 30
2439966	Fenuron	7.54	Spike	P	0 - 30
2439966	Fluridone	12.0	Spike	P	0 - 30
2439966	Hydrocodone	14.9	Spike	P	0 - 30
2439966	Ibuprofen	20.2	Spike	P	0 - 30
2439966	Imazapyr	11.5	Spike	P	0 - 30
2439966	Imidacloprid	8.06	Spike	P	0 - 30
2439966	Linuron	11.7	Spike	P	0 - 30
2439966	Mandestrobin	13.9	Spike	P	0 - 30
2439966	MCPP	13.6	Spike	P	0 - 30
2439966	Naproxen	4.92	Spike	P	0 - 30
2439966	Primidone	7.11	Spike	P	0 - 30
2439966	Pyraclostrobin	13.0	Spike	P	0 - 30
2439966	Silvex	8.70	Spike	P	0 - 30
2439966	Thiamethoxam	5.63	Spike	P	0 - 30
2439966	Tolfenpyrad	9.22	Spike	P	0 - 30
2439966	Triclopyr	13.7	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P435733

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439796	Total Alkalinity	1.06	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P435872

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440920	Total Alkalinity	2.67	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P436126

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439771	TDS	7.66	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P436127

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440330	TDS	7.16	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P435736

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439796	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P435874

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440920	Fluoride	0.0	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

Reference Method: SM 5310 B-2011
Batch ID: P435753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2439957	Organic Carbon	0.364	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2440259
Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	65.6	P	30 - 160

Lab Sample ID: 2440260
Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	106	P	30 - 160
EPA 8321B	Acetaminophen-d4	84.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	80.7	P	30 - 160
EPA 8321B	Diuron-d6	57.0	P	30 - 160
EPA 8321B	Endothall-d6	106	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	104	P	30 - 160
EPA 8321B	Ibuprofen-d3	55.0	P	30 - 160
EPA 8321B	Primidone-d5	67.0	P	30 - 160
EPA 8321B	Sucralose-d6	134	P	30 - 160

Lab Sample ID: 2440261
Field Sample ID: FB_09252023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	84.8	P	30 - 160

Lab Sample ID: 2440262
Field Sample ID: FB_09252023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	87.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	101	P	30 - 160
EPA 8321B	Diuron-d6	80.6	P	30 - 160
EPA 8321B	Endothall-d6	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	135	P	30 - 160
EPA 8321B	Ibuprofen-d3	54.9	P	30 - 160
EPA 8321B	Primidone-d5	85.1	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2440271
Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	74.8	P	37 - 129
EPA 8270E	Decachlorobiphenyl	64.5	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	49.9	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	52.7	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	54.0	P	28 - 102
EPA 8276	PCNB	84.0	P	49 - 115

Lab Sample ID: 2440272
Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	54.6	P	20 - 200

Quality Assurance Report Surrogates

Lab Sample ID: 2440272
Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	81.1	P	62 - 142
EPA 8270E	Terbufos-d10	94.2	P	58 - 132
EPA 8270E	Terphenyl-d14	87.8	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A121765

Included Lab Sample IDs: 2440260, 2440262

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	107	108	P/P	60 - 160
AMPA	95.4	82.3	P/P	60 - 160
Endothall	108	112	P/P	60 - 160
Glufosinate	111	127	P/P	60 - 160
Glufosinate	114	113	P/P	60 - 160
Glyphosate	75.0	86.7	P/P	60 - 160
Glyphosate	99.2	91.0	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121771

Included Lab Sample IDs: 2440242, 2440244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.6	98.9	P/P	90 - 110
Sulfate	100	101	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A121773

Included Lab Sample IDs: 2440242, 2440244, 2440246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	100	P/P	90 - 110
Color (true)	101	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121774

Included Lab Sample IDs: 2440242, 2440244, 2440246

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

Reference Method: SM 5310 B-2011

Run ID: A121814

Included Lab Sample IDs: 2440245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	92.6	96.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121824

Included Lab Sample IDs: 2440260, 2440262

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	97.6	P/P	60 - 160
Sucralose	108	107	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121829

Included Lab Sample IDs: 2440247

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121829

Included Lab Sample IDs: 2440247

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.9	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121844

Included Lab Sample IDs: 2440246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.9	95.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121844

Included Lab Sample IDs: 2440246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121845

Included Lab Sample IDs: 2440243, 2440247

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	101	P/P	90 - 110
Total-P	99.5	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121846

Included Lab Sample IDs: 2440260, 2440262

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	75.0	76.7	P/P	50 - 150
2,4,5-T	75.6	84.6	P/P	50 - 150
3-Hydroxycarbofuran	110	112	P/P	60 - 150
Acetaminophen	117	116	P/P	60 - 160
Acetamiprid	112	109	P/P	50 - 150
Afidopyropen	108	104	P/P	50 - 150
Aldicarb	103	114	P/P	60 - 150
Aldicarb Sulfone	116	119	P/P	50 - 150
Aldicarb Sulfoxide	112	113	P/P	50 - 150
Bentazon	117	111	P/P	50 - 160
Benzovindiflupyr	112	89.9	P/P	50 - 150
Carbamazepine	104	104	P/P	60 - 150
Carbaryl	109	112	P/P	60 - 150
Carbofuran	116	116	P/P	50 - 150
Clothianidin	109	106	P/P	60 - 150
Dinotefuran	110	110	P/P	50 - 150
Diuron	111	116	P/P	60 - 160
Fenuron	112	110	P/P	60 - 150
Fluridone	121	103	P/P	60 - 160
Hydrocodone	120	121	P/P	60 - 150
Ibuprofen	82.1	90.5	P/P	50 - 160
Imazapyr	85.9	87.7	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A121846

Included Lab Sample IDs: 2440260, 2440262

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imidacloprid	105	98.3	P/P	60 - 150
Linuron	106	107	P/P	60 - 150
Mandestrobin	107	84.7	P/P	50 - 150
MCPP	77.5	85.0	P/P	50 - 150
Methiocarb	107	111	P/P	50 - 150
Methomyl	110	108	P/P	50 - 150
Naproxen	68.8	64.7	P/P	50 - 160
Oxamyl	117	114	P/P	50 - 150
Primidone	110	112	P/P	60 - 150
Propoxur	120	124	P/P	50 - 150
Pyraclostrobin	112	108	P/P	60 - 150
Silvex	95.5	103	P/P	50 - 150
Thiamethoxam	119	111	P/P	50 - 150
Tolfenpyrad	99.8	99.9	P/P	60 - 150
Triclopyr	73.8	79.6	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121850

Included Lab Sample IDs: 2440245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121852

Included Lab Sample IDs: 2440243

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

Reference Method: SM 5310 B-2011

Run ID: A121853

Included Lab Sample IDs: 2440243, 2440247

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	95.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A121870

Included Lab Sample IDs: 2440272

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	98.9		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.1		P	80 - 120
Avobenzone	95.5		P	80 - 120
Dechlorane 602	99.1		P	80 - 120
Dechlorane 603	101		P	80 - 120
Dechlorane Plus	101		P	80 - 120
Hexabromobenzene	91.8		P	80 - 120
Octinoxate	92.1		P	80 - 120
Oxybenzone	97.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121870
Included Lab Sample IDs: 2440272

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PBB-153	93.4		P	80 - 120
PBDE-47	94.1		P	80 - 120
PBDE-99	95.8		P	80 - 120
Pentabromotoluene	102		P	80 - 120
Tetradecachloro-m-terphenyl	95.2		P	80 - 120
Tri-o-cresyl Phosphate	96.8		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	92.7		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.9		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	94.9		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A121885
Included Lab Sample IDs: 2440245

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A121888
Included Lab Sample IDs: 2440243

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	104	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A121906
Included Lab Sample IDs: 2440272

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	94.3		P	80 - 120
Alachlor	96.7		P	80 - 120
Ametryn	99.2		P	80 - 120
Atrazine	96.1		P	80 - 120
Atrazine Desethyl	114		P	80 - 120
Azinphos Methyl	106		P	80 - 120
Azoxystrobin	97.8		P	80 - 120
Bromacil	93.3		P	80 - 120
Butylate	98.7		P	80 - 120
Caffeine	105		P	80 - 120
Carbophenothion	104		P	80 - 120
Carfentrazone Ethyl	97.5		P	80 - 120
Chlorfenapyr	85.4		P	80 - 120
Chlorpyrifos Ethyl	89.1		P	80 - 120
Chlorpyrifos Methyl	99.5		P	80 - 120
Coumaphos	93.4		P	80 - 120
Cyanazine	99.1		P	80 - 120
Cyprodinil	104		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	104		P	80 - 120
Difenoconazole	92.0		P	80 - 120
Dimethenamid	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121906
Included Lab Sample IDs: 2440272

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dimethomorph	97.2		P	80 - 120
Disulfoton	104		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	99.1		P	80 - 120
Ethion	89.5		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	102		P	80 - 120
Fenamiphos	97.7		P	80 - 120
Fenbuconazole	87.2		P	80 - 120
Fipronil	96.7		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	103		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	101		P	80 - 120
Fludioxonil	87.7		P	80 - 120
Flumioxazin	94.6		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	97.8		P	80 - 120
Fonofos	96.3		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	111		P	80 - 120
Iprodione	78.7*		F	80 - 120
Loratadine	86.1		P	80 - 120
Malathion	80.2		P	80 - 120
Metalaxyl	88.5		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	97.6		P	80 - 120
Mevinphos	92.4		P	80 - 120
Molinate	89.0		P	80 - 120
Myclobutanil	92.5		P	80 - 120
Naled	105		P	80 - 120
Napropamide	98.9		P	80 - 120
Norflurazon	102		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	99.5		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	92.0		P	80 - 120
Pendimethalin	108		P	80 - 120
Phenytoin	95.6		P	80 - 120
Phorate	99.7		P	80 - 120
Prodiamine	101		P	80 - 120
Prometon	105		P	80 - 120
Prometryn	104		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	87.1		P	80 - 120
Propargite	107		P	80 - 120
Propiconazole	85.9		P	80 - 120
Pyraflufen Ethyl	105		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	174*		F	80 - 120
Simazine	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121906
Included Lab Sample IDs: 2440272

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Stirophos	84.0		P	80 - 120
Sulfentrazone	87.3		P	80 - 120
Tebuconazole	97.9		P	80 - 120
Terbufos	94.9		P	80 - 120
Terbuthylazine	95.4		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	100		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A121914
Included Lab Sample IDs: 2440242, 2440244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.7	95.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A121914
Included Lab Sample IDs: 2440242, 2440244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	104	P/P	90 - 110
Fluoride	104	105	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A121948
Included Lab Sample IDs: 2440246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110
Sulfate	103	103	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A122026
Included Lab Sample IDs: 2440271

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	92.9		P	80 - 120
PCB-1260	96.7		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A122029
Included Lab Sample IDs: 2440245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A122030
Included Lab Sample IDs: 2440243, 2440245

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122030

Included Lab Sample IDs: 2440243, 2440245

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	108	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122047

Included Lab Sample IDs: 2440247

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	92.6	101	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A122069

Included Lab Sample IDs: 2440271

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	96.8		P	80 - 120
Alpha-Chlordane	90.7		P	80 - 120
Beta-BHC	108		P	80 - 120
Beta-Cyfluthrin	114		P	80 - 120
Bifenthrin	109		P	80 - 120
Chlorothalonil	88.3		P	80 - 120
Cis-Nonachlor	116		P	80 - 120
Cypermethrin	107		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	99.9		P	80 - 120
DDE-p,p'	99.6		P	80 - 120
DDT-p,p'	103		P	80 - 120
Delta-BHC	112		P	80 - 120
Deltamethrin	102		P	80 - 120
Dichlobenil	94.2		P	80 - 120
Dicofol	103		P	80 - 120
Dieldrin	98.3		P	80 - 120
Endosulfan I	80.9		P	80 - 120
Endosulfan II	111		P	80 - 120
Endosulfan Sulfate	87.4		P	80 - 120
Endrin	97.7		P	80 - 120
Endrin Aldehyde	105		P	80 - 120
Endrin Ketone	88.2		P	80 - 120
Esfenvalerate	107		P	80 - 120
Ethalfuralin	97.4		P	80 - 120
Fenpropathrin	116		P	80 - 120
Gamma-BHC	103		P	80 - 120
Gamma-Chlordane	84.7		P	80 - 120
Heptachlor	87.3		P	80 - 120
Heptachlor Epoxide	95.1		P	80 - 120
Hexachlorobenzene	98.9		P	80 - 120
Kepone	74.1*		F	80 - 120
Lambda-Cyhalothrin	108		P	80 - 120
Methoprene	80.3		P	80 - 120
Methoxychlor	95.8		P	80 - 120
MGK-264	91.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122069
Included Lab Sample IDs: 2440271

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mirex	107		P	80 - 120
Oxychlordane	87.0		P	80 - 120
Permethrin	113		P	80 - 120
Phenothrin	117		P	80 - 120
Piperonyl Butoxide	81.9		P	80 - 120
Prallethrin	97.3		P	80 - 120
Tau-Fluvalinate	110		P	80 - 120
Tetramethrin	102		P	80 - 120
Trans-Nonachlor	103		P	80 - 120
Triclosan Methyl	87.1		P	80 - 120
Trifluralin	107		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A122094
Included Lab Sample IDs: 2440247

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	97.5	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A122106
Included Lab Sample IDs: 2440271

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.2		P	80 - 120
Toxaphene	91.4		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
					LCS	
DEP SOP: NU-094-1	Color (true)	100			1.04	
	Color (true)	99.9			1.70	
EPA 180.1 Rev. 2.0	Turbidity	104			10.2	
EPA 300.0 Rev. 2.1	Chloride	102	105		0.0028	
	Chloride	102	104	105	2.47	
	Sulfate	104	103	102	0.503	
	Sulfate	102	104	106	4.26	
EPA 350.1 Rev. 2.0	Ammonia-N	100	101	98.4		2.41
	Ammonia-N	102	103	104		0.897
	Ammonia-N	103	101	102		0.979
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	96.1	105		5.27
	Kjeldahl Nitrogen	106	102	107		3.71
EPA 353.2 Rev. 2.0	NO2NO3-N	102	101	101		0.0
	NO2NO3-N	98.5	101	99.0		1.01
	NO2NO3-N	99.0	99.5	100		1.00
EPA 365.1 Rev. 2.0	Total-P	103	104	105		1.52
	Total-P	101	105	103		1.53
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	63.8	93.3	81.7		13.3
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.6	28.5	22.9		21.7
	Acetochlor	89.0	103	85.9		17.6
	Alachlor	73.8	88.1	90.2		2.27
	Aldrin	78.6	50.5	54.7		7.98
	Alpha-BHC	77.6	83.6	77.1		8.12
	Alpha-Chlordane	82.7	60.5	58.0		4.29
	Ametryn	124	130	115		12.5
	Atrazine	86.0				6.84
	Atrazine Desethyl	81.7	85.7	70.4		15.5
	Avobenzone	101	83.2	96.1		14.4
	Azinphos Methyl	95.0	78.6	92.7		16.5
	Azoxystrobin	94.1	110	94.7		14.7
	Beta-BHC	90.6	77.2	76.3		1.14
	Beta-Cyfluthrin	106	80.8	82.1		1.64
	Bifenthrin	89.8	63.8	68.2		6.69
	Bromacil	92.9	115	98.8		14.9
	Butylate	59.5	58.6	43.0		30.7
	Caffeine	96.9	112	92.6		18.6
	Carbophenothion	93.6	109	92.5		16.2
	Carfentrazone Ethyl	103	117	99.4		16.0
	Chlorfenapyr	55.8	62.6	54.7		13.6
	Chlorothalonil	61.8	51.8	45.2		13.8
	Chlorpyrifos Ethyl	99.4	97.7	82.9		16.4
	Chlorpyrifos Methyl	91.4	91.5	78.9		14.7
	Cis-Nonachlor	93.8	56.2	65.8		15.8
	Coumaphos	83.6	61.4	56.6		8.07
	Cyanazine	145	182	126		36.5
	Cypermethrin	98.0	85.0	81.4		4.30
	Cyprodinil	87.6	81.1	63.7		21.4
	Dacthal	88.7	69.0	67.6		2.09
	DDD-p,p'	89.1	66.8	58.7		12.9
	DDE-p,p'	77.1	50.8	53.6		5.21
	DDT-p,p'	82.7	89.3	99.5		10.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Dechlorane 602	68.4	37.8	40.7		7.57
	Dechlorane 603	110	70.5	75.5		6.96
	Dechlorane Plus	109	67.6	73.9		8.97
	Delta-BHC	99.5	85.8	84.4		1.65
	Deltamethrin	102	114	107		6.53
	Demeton	69.5	78.1	67.5		14.7
	Diazinon	108	108	107		1.39
	Dichlobenil	87.9	59.9	48.0		22.0
	Dicofol	72.9	65.9	66.7		1.20
	Dieldrin	82.4	57.2	65.3		13.1
	Difenoconazole	63.0	118	137		15.0
	Dimethenamid	76.2	80.6	69.9		14.2
	Dimethomorph	183	227	241		5.97
	Disulfoton	96.2	101	101		0.528
	Dithiopyr	107	102	88.5		13.7
	Endosulfan I	82.1	69.4	68.5		1.28
	Endosulfan II	90.8	60.5	60.2		0.462
	Endosulfan Sulfate	77.1	73.6	65.8		11.1
	Endrin	85.1	55.8	63.3		12.5
	Endrin Aldehyde	91.1	58.6	44.8		26.6
	Endrin Ketone	72.0	70.9	61.5		14.2
	EPTC	63.0	51.7	32.0		47.0
	Esfenvalerate	107	92.8	96.3		3.69
	Ethalfuralin	73.6	59.4	62.4		4.94
	Ethion	39.1	44.3	42.5		4.13
	Ethoprop	83.8	103	88.7		15.3
	Etridiazole	64.1	66.3	52.5		23.3
	Fenamiphos	74.1	63.5	58.1		8.92
	Fenbuconazole	58.2	58.8	68.2		14.7
	Fenpropathrin	97.5	76.3	70.6		7.76
	Fipronil	92.9	82.1	68.2		18.6
	Fipronil Desulfinyl	96.2	99.7	88.5		12.0
	Fipronil Sulfide	79.0	105	90.9		14.3
	Fipronil Sulfone	67.1	60.2	66.0		9.19
	Fluazifop-P-butyl	68.3	63.5	63.1		0.649
	Fludioxonil	62.9	73.8	63.8		14.5
	Flumioxazin	96.8	136	166		19.7
	Flutolanil	66.0	71.4	67.7		5.26
	Fluxapyroxad	73.2	88.1	74.8		16.4
	Fonofos	89.8	90.8	86.5		4.88
	Gamma-BHC	76.0	73.0	68.4		6.53
	Gamma-Chlordane	84.0	63.8	60.4		5.52
	Heptachlor	74.9	65.5	64.5		1.54
	Heptachlor Epoxide	92.0	70.3	68.8		1.62
	Hexabromobenzene	99.8	83.1	82.9		0.301
	Hexachlorobenzene	91.5	60.3	58.5		2.95
	Hexazinone	81.8	101	79.1		24.0
	Imazalil	89.0	121	104		15.2
	Iprodione	54.0	75.2	61.7		19.8
	Kepone	50.4	28.7	30.7		6.65
	Lambda-Cyhalothrin	102	80.3	78.6		2.14
	Loratadine	124	167	181		8.44
	Malathion	104	120	91.0		27.1
	Metalaxyl	88.0	96.4	81.5		16.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Methoprene	77.4	43.6	52.6			18.6
	Methoxychlor	69.0	75.3	63.6			16.9
	Metolachlor	99.1	105	82.3			21.1
	Metribuzin	41.7	68.8	62.6			9.46
	Mevinphos	72.7	82.2	74.2			10.3
	MGK-264	104	93.7	79.4			16.6
	Mirex	87.7	52.8	52.6			0.347
	Molinate	58.8	55.8	49.9			11.2
	Myclobutanil	67.1	78.7	65.3			18.7
	Naled	43.0	33.8	33.9			0.251
	Napropamide	81.2	90.8	78.5			14.6
	Norflurazon	76.5	75.9	74.5			1.84
	Octinoxate	102	91.1	89.0			2.34
	Oxadiazon	72.4	89.8	74.4			18.8
	Oxybenzone	107	97.8	100			2.69
	Oxychlordane	77.7	62.6	70.0			11.1
	Oxyfluorfen	77.5	90.7	69.0			27.2
	Parathion Ethyl	89.6	105	87.3			18.3
	Parathion Methyl	99.1	108	97.9			9.54
	PBB-153	106	33.2	35.2			5.91
	PBDE-47	89.0	78.0	78.6			0.774
	PBDE-99	76.5	22.9	25.1			9.23
	PCB-1016	80.0	79.8	91.5			13.7
	PCB-1260	78.2	74.6	86.7			15.0
	Pendimethalin	74.2	85.9	75.0			13.6
	Pentabromotoluene	96.5	86.2	84.1			2.50
	Permethrin	102	68.6	71.9			4.61
	Phenothrin	96.2	61.4	61.6			0.342
	Phenytoin	28.0	54.4	44.5			20.0
	Phorate	97.4	116	116			0.602
	Piperonyl Butoxide	89.9	105	92.3			13.1
	Prallethrin	88.6	66.1	66.2			0.147
	Prodimamine	48.9	49.5	35.1			34.2
	Prometon	106	110	96.6			12.7
	Prometryn	99.6	104	95.5			8.18
	Pronamide	101	118	95.6			21.2
	Propanil	93.8	110	89.2			21.1
	Propargite	59.9	60.8	50.0			19.4
	Propiconazole	72.9	73.4	80.4			9.03
	Pyraflufen Ethyl	89.9	73.6	81.8			10.5
	Pyridaben	86.9	50.8	51.4			1.15
	Pyriproxyfen	125	92.3	113			19.8
	Simazine	82.1	80.3	60.5			24.6
	Stirophos	46.6	47.3	44.8			5.50
	Sulfentrazone	39.8	77.7	62.0			22.6
	Tau-Fluvalinate	109	87.0	92.6			6.28
	Tebuconazole	47.6	56.2	50.6			10.6
	Terbufos	110	124	115			7.49
	Terbutylazine	82.6	91.9	84.6			8.21
	Tetradecachloro-m-terphenyl	126	74.0	74.2			0.349
	Tetramethrin	97.6	89.3	84.8			5.19
	Thiobencarb	90.2	95.0	79.7			17.6
	Trans-Nonachlor	87.4	66.8	63.4			5.22
	Tri-o-cresyl Phosphate	101	94.8	94.1			0.742

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Triadimefon	85.4	98.5	75.8		26.0
	Triclosan Methyl	76.8	56.8	57.0		0.346
	Trifluralin	72.7	55.2	60.5		9.12
	Tris(1-chloro-2-propyl) phosphate (TCPP)	106	104	103		1.19
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.4	97.9	93.5		4.55
	Tris(2-chloroethyl) phosphate (TCEP)	108	106	102		4.23
EPA 8276	Chlordane	72.8	59.2	69.4		15.9
	Toxaphene	86.7	66.1	73.5		10.6
EPA 8321B	2,4-D	67.4	71.3	87.8		20.7
	2,4,5-T	89.4	81.2	90.7		11.0
	3-Hydroxycarbofuran	82.1	57.3	53.6		6.67
	Acesulfame K	95.9	88.0	87.9		0.157
	Acetaminophen	82.6	76.4	73.9		3.36
	Acetamiprid	82.9	40.6	52.4		25.4
	Afidopyropen	49.9	62.4	73.7		16.7
	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	76.6	64.6	64.3		0.354
	Bentazon	77.6	20.0	22.4		11.2
	Benzovindiflupyr	67.5	91.7	98.3		6.99
	Carbamazepine	81.4	57.4	63.2		9.61
	Carbaryl	79.5	57.8	54.7		5.60
	Carbofuran	85.6	50.6	46.7		7.84
	Clothianidin	89.3	56.4	56.1		0.586
	Dinotefuran	91.1	60.0	60.8		1.26
	Diuron	76.1	47.0	53.1		12.2
	Endothall	99.7	155	156		0.668
	Fenuron	87.6	40.3	43.5		7.54
	Fluridone	94.0	68.2	76.9		12.0
	Glufosinate	126	119	108		9.58
	Glyphosate	72.5	115	96.5		17.4
	Hydrocodone	92.7	48.1	55.9		14.9
	Ibuprofen	58.7	51.1	62.6		20.2
	Imazapyr	69.6	74.8	84.0		11.5
	Imidacloprid	84.0	84.0	91.1		8.06
	Linuron	67.2	86.9	97.6		11.7
	Mandestrobin	67.6	82.4	94.7		13.9
	MCPP	92.3	80.8	92.6		13.6
	Methiocarb	64.8	56.3	52.7		6.64
	Methomyl	89.5	50.9	48.9		4.00
	Naproxen	91.3	106	112		4.92
	Oxamyl	100	52.0	50.6		2.59
	Primidone	81.4	61.0	65.5		7.11
	Propoxur	90.0	47.3	45.7		3.36
	Pyraclostrobin	77.3	84.2	95.9		13.0
	Silvex	78.6	70.1	76.5		8.70
	Sucralose	99.3	96.9	108		10.5
	Thiamethoxam	92.7	55.2	58.4		5.63
	Tolfenpyrad	46.5	53.2	58.3		9.22
	Triclopyr	90.5	81.3	93.3		13.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 2320 B-2011	Total Alkalinity	97.3			1.06	
	Total Alkalinity	97.1			2.67	
SM 2540 C-2015	TDS	101			7.66	
	TDS	94.0			7.16	
SM 2540 D-2015	TSS	93.9				
	TSS	94.6				
SM 4500-F- C-2011	Fluoride	101	101	101		0.0
	Fluoride	105	103	103		0.0
SM 5310 B-2011	Organic Carbon	98.4	90.0	94.0		3.16
	Organic Carbon	95.8	95.1	95.6		0.364

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2440242, 2440244, 2440246
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2440242, 2440244, 2440246
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2440242, 2440244, 2440246
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2440242, 2440244, 2440246
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2440243, 2440245, 2440247
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2440243, 2440245, 2440247
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2440243, 2440245, 2440247
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2440243, 2440245, 2440247
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2440272
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2440271
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2440272
EPA 8270E	PCBs in water matrices by GC/MS/MS	2440271
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2440271
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2440259, 2440261
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2440260, 2440262
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2440242, 2440244, 2440246
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2440242, 2440244, 2440246
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2440242, 2440244, 2440246
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2440242, 2440244, 2440246
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2440243, 2440245, 2440247

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	09/26/2023			09/26/2023 15:52	Alexis Price	2440242
	09/26/2023			09/26/2023 15:56	Alexis Price	2440244
	09/26/2023			09/26/2023 15:57	Alexis Price	2440246
EPA 180.1 Rev. 2.0	09/26/2023			09/26/2023 15:10	Khloe J Berg	2440242
	09/26/2023			09/26/2023 15:11	Khloe J Berg	2440244
	09/26/2023			09/26/2023 15:14	Khloe J Berg	2440246
EPA 300.0 Rev. 2.1	09/26/2023			09/28/2023 14:34	James L Waggeberby	2440242
	09/26/2023			09/28/2023 14:49	James L Waggeberby	2440244
	09/26/2023			10/04/2023 16:44	James L Waggeberby	2440246
EPA 350.1 Rev. 2.0	09/26/2023			09/28/2023 15:06	Ping Hua	2440247
	09/26/2023			09/29/2023 11:01	Khloe J Berg	2440243
	09/26/2023			10/02/2023 13:49	Ping Hua	2440245
EPA 351.2 Rev. 2.0	09/26/2023	10/05/2023 15:15	Simonne.V. Calhoun	10/09/2023 14:43	Samantha L Bates	2440243
	09/26/2023	10/05/2023 15:15	Simonne.V. Calhoun	10/09/2023 14:45	Samantha L Bates	2440245
	09/26/2023	10/05/2023 15:15	Simonne.V. Calhoun	10/10/2023 13:47	Samantha L Bates	2440247
EPA 353.2 Rev. 2.0	09/26/2023			10/02/2023 15:00	Anna M. Plaviak	2440243
	09/26/2023			10/09/2023 13:15	Fadila Guebre	2440245
	09/26/2023			10/11/2023 14:03	Fadila Guebre	2440247
EPA 365.1 Rev. 2.0	09/26/2023	09/28/2023 13:36	Alexis Price	09/29/2023 10:31	Chandler E Cox	2440243
	09/26/2023	09/28/2023 13:36	Alexis Price	09/29/2023 11:25	Chandler E Cox	2440247
	09/26/2023	09/28/2023 13:36	Alexis Price	09/29/2023 11:55	Chandler E Cox	2440245
EPA 8270E	09/26/2023	09/28/2023 08:00	Fe-Val Siddell	09/29/2023 19:25	Vandana T. Nagar	2440272
	09/26/2023	09/28/2023 08:00	Fe-Val Siddell	09/30/2023 23:15	Arthur Maknenko	2440272
	09/26/2023	10/02/2023 08:30	Rasheda Ghaffari	10/05/2023 03:52	Julie Wi	2440271
EPA 8276	09/26/2023	10/02/2023 08:30	Rasheda Ghaffari	10/09/2023 05:57	Julie Wi	2440271
	09/26/2023	10/02/2023 08:30	Rasheda Ghaffari	10/08/2023 07:57	Arthur Maknenko	2440271
	09/26/2023	09/27/2023 09:00	Hoor Shaik	09/29/2023 00:00	Juyoung Kim	2440259
EPA 8321B	09/26/2023	09/27/2023 09:00	Hoor Shaik	09/29/2023 00:18	Juyoung Kim	2440261
	09/26/2023	09/27/2023 09:00	Hoor Shaik	09/29/2023 08:54	Juyoung Kim	2440260
	09/26/2023	09/27/2023 09:00	Hoor Shaik	09/29/2023 09:12	Juyoung Kim	2440262
	09/26/2023	09/27/2023 12:00	Hana Lee	09/27/2023 13:47	Tae K Lee	2440260
	09/26/2023	09/27/2023 12:00	Hana Lee	09/27/2023 14:01	Tae K Lee	2440262
	09/26/2023	09/27/2023 12:00	Hana Lee	09/27/2023 22:43	Tae K Lee	2440260
	09/26/2023	09/27/2023 12:00	Hana Lee	09/27/2023 22:56	Tae K Lee	2440262
	09/26/2023	09/27/2023 12:00	Hana Lee	09/28/2023 03:18	Tae K Lee	2440260
SM 2320 B-2011	09/26/2023			09/29/2023 07:18	Adam P Silver	2440246
	09/26/2023			10/03/2023 01:35	Adam P Silver	2440242
	09/26/2023			10/03/2023 01:49	Adam P Silver	2440244
SM 2540 C-2015	09/26/2023			09/27/2023 15:41	Yijie Li	2440242, 2440244, 2440246
SM 2540 D-2015	09/26/2023			09/27/2023 15:41	Yijie Li	2440242, 2440244, 2440246

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500-F- C-2011	09/26/2023			09/29/2023 07:18	Adam P Silver	2440246
	09/26/2023			10/02/2023 23:05	Adam P Silver	2440242
	09/26/2023			10/03/2023 00:07	Adam P Silver	2440244
SM 5310 B-2011	09/26/2023			09/28/2023 07:45	Khloe J Berg	2440245
	09/26/2023			09/29/2023 05:25	Khloe J Berg	2440243
	09/26/2023			09/29/2023 05:46	Khloe J Berg	2440247