Chemical Analysis Report

SO-DIST-2024-03-15-01

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

Event Description: **2024 SMP: Hendry**
Request ID: **RQ-2024-03-18-33**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
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Certified by: Colin Wright, Program Administrator

Date Certified: 04-APR-2024 12:00

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: MANUEL BRANCH AT NEIGHBORHOOD PARK Collection Date/Time: 03/14/2024 08:00

Field ID: G1SD0070 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2475987	EPA 8270E	Aldrin	0.68	U	ng/L	P443008	
		Alpha-BHC	0.10	U	ng/L	P443008	
		Alpha-Chlordane	0.21	U	ng/L	P443008	
		PCB-1016	2.1	U	ng/L	P443008	
		Beta-BHC	0.14	I	ng/L	P443008	
		PCB-1221	2.1	U	ng/L	P443008	
		Beta-Cyfluthrin	1.3	U	ng/L	P443008	
		PCB-1232	2.1	U	ng/L	P443008	
		Bifenthrin	0.52	U	ng/L	P443008	
		PCB-1242	2.1	U	ng/L	P443008	
		PCB-1248	2.1	U	ng/L	P443008	
		Chlorothalonil	3.8	U	ng/L	P443008	
		PCB-1254	2.1	U	ng/L	P443008	
		Cis-Nonachlor	0.21	U	ng/L	P443008	
		PCB-1260	2.1	U	ng/L	P443008	
		Cypermethrin	1.6	U	ng/L	P443008	
		Dacthal	0.16	U	ng/L	P443008	
		DDD-p,p'	0.26	U	ng/L	P443008	
		DDE-p,p'	0.21	U	ng/L	P443008	
		DDT-p,p'	0.83	U	ng/L	P443008	
		Delta-BHC	0.42	U	ng/L	P443008	
		Deltamethrin	1.3	U	ng/L	P443008	
		Dichlobenil	0.26	U	ng/L	P443008	
		Dicofol	1.3	U	ng/L	P443008	
		Dieldrin	1.8	I	ng/L	P443008	
		Endosulfan I	0.42	U	ng/L	P443008	
		Endosulfan II	0.94	U	ng/L	P443008	
		Endosulfan Sulfate	0.31	U	ng/L	P443008	
		Endrin	0.94	U	ng/L	P443008	
		Endrin Aldehyde	0.78	U	ng/L	P443008	
		Endrin Ketone	0.42	U	ng/L	P443008	
		Esfenvalerate	0.78	U	ng/L	P443008	
		Ethalfluralin	0.16	U	ng/L	P443008	
		Fenpropathrin	0.26	U	ng/L	P443008	
		Gamma-BHC	0.13	U	ng/L	P443008	
		Gamma-Chlordane	0.21	U	ng/L	P443008	
		Heptachlor	0.21	U	ng/L	P443008	
		Heptachlor Epoxide	0.26	U	ng/L	P443008	
		Hexachlorobenzene**	1.0	U	ng/L	P443008	
		Kepone	14	UJ	ng/L	P443008	CCV
		Lambda-Cyhalothrin	0.78	U	ng/L	P443008	
		Methoprene	0.78	U	ng/L	P443008	
		Methoxychlor	0.31	U	ng/L	P443008	
		MGK-264	0.21	U	ng/L	P443008	

Field ID: G1SD0070 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2475987	EPA 8270E	Mirex	0.36	U	ng/L	P443008	
		Oxychlordane	0.31	U	ng/L	P443008	
		Permethrin	1.7	U	ng/L	P443008	
		Phenothrin	0.94	U	ng/L	P443008	
		Piperonyl Butoxide	0.50	I	ng/L	P443008	
		Prallethrin	2.1	U	ng/L	P443008	
		Tau-Fluvalinate	0.26	U	ng/L	P443008	
		Tetramethrin	0.78	U	ng/L	P443008	
		Trans-Nonachlor	0.21	U	ng/L	P443008	
		Triclosan Methyl	0.16	U	ng/L	P443008	
		Trifluralin	0.21	U	ng/L	P443008	
	EPA 8276	Chlordane	2.1	U	ng/L	P443008	
		Toxaphene	16	U	ng/L	P443008	

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

Sample Location: CALOOSA RIVER TOWNSEND CNL **Collection Date/Time: 03/14/2024 08:55**

Field ID: G3SD0250 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2475962	DEP SOP: NU-094-1	Color (true)	69		PCU	P442887	
	EPA 180.1 Rev. 2.0	Turbidity	5.4	A	NTU	P442883	
	EPA 300.0 Rev. 2.1	Chloride	50		mg Cl/L	P443376	
		Sulfate	21		mg SO4/L	P443379	
	SM 2320 B-2011	Total Alkalinity	102		mg CaCO3/L	P443077	
	SM 2540 C-2015	TDS	255		mg/L	P443308	
	SM 2540 D-2015	TSS	14		mg/L	P443256	
	SM 4500-F- C-2011	Fluoride	0.15		mg F/L	P443080	
2475964	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P443127	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P442911	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.031		mg N/L	P443031	
	EPA 365.1 Rev. 2.0	Total-P	0.063		mg P/L	P443137	
	SM 5310 B-2014	Organic Carbon	17		mg C/L	P443085	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 5310 B-2014: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: FORTSIMMONSBRANCHATSR80 **Collection Date/Time: 03/14/2024 09:15**

Field ID: G3SD0230 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2475963	DEP SOP: NU-094-1	Color (true)	38		PCU	P442889	
	EPA 180.1 Rev. 2.0	Turbidity	27		NTU	P442883	
	EPA 300.0 Rev. 2.1	Chloride	140		mg Cl/L	P443376	
		Sulfate	75		mg SO4/L	P443379	
	SM 2320 B-2011	Total Alkalinity	300		mg CaCO3/L	P443077	
	SM 2540 C-2015	TDS	670		mg/L	P443308	
	SM 2540 D-2015	TSS	49		mg/L	P443256	
	SM 4500-F- C-2011	Fluoride	0.55		mg F/L	P443080	
2475965	EPA 350.1 Rev. 2.0	Ammonia-N	0.27		mg N/L	P443127	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P442911	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.21		mg N/L	P443031	
	EPA 365.1 Rev. 2.0	Total-P	0.35		mg P/L	P443137	
	SM 5310 B-2014	Organic Carbon	12		mg C/L	P443085	

Ref. Method and Comment:
DEP SOP: NU-094-1: Batch relative percent difference is unavailable because of low 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.
SM 5310 B-2014: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: TOWNSENDCANALATCHURCHRD **Collection Date/Time: 03/14/2024 09:50**

Field ID: G3SD0221 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2475966	DEP SOP: NU-094-1	Color (true)	86		PCU	P442887	
	EPA 180.1 Rev. 2.0	Turbidity	5.9		NTU	P442883	
	EPA 300.0 Rev. 2.1	Chloride	31		mg Cl/L	P443376	
		Sulfate	13		mg SO4/L	P443379	
	SM 2320 B-2011	Total Alkalinity	168		mg CaCO3/L	P443077	
	SM 2540 C-2015	TDS	304		mg/L	P443308	
	SM 2540 D-2015	TSS	13		mg/L	P443256	
	SM 4500-F- C-2011	Fluoride	0.21		mg F/L	P443080	
2475967	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P443127	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P442911	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P443031	
	EPA 365.1 Rev. 2.0	Total-P	0.22		mg P/L	P443194	
	SM 5310 B-2014	Organic Carbon	20		mg C/L	P443085	
2475980	EPA 8321B	Aldicarb	0.020	U	ug/L	P442872	
		Aldicarb Sulfone	0.0020	U	ug/L	P442872	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P442872	MS
		Carbaryl	0.0020	U	ug/L	P442872	
		Carbofuran	0.0020	U	ug/L	P442872	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P442872	
		Methiocarb	0.0020	U	ug/L	P442872	
		Methomyl	0.0020	U	ug/L	P442872	
		Oxamyl	0.0020	U	ug/L	P442872	
		Propoxur	0.0020	U	ug/L	P442872	
2475981		2,4-D	0.0020	U	ug/L	P442750	
		Acesulfame K	0.10	U	ug/L	P442848	
		2,4,5-T	0.0040	U	ug/L	P442750	
		AMPA	0.54		ug/L	P442848	
		Acetaminophen	0.0080	U	ug/L	P442750	
		Acetamiprid	0.0020	U	ug/L	P442750	
		Endothall	0.25	U	ug/L	P442848	
		Glufosinate	0.10	U	ug/L	P442848	
		Glyphosate	0.59		ug/L	P442848	
		Afidopyropen	0.0020	U	ug/L	P442750	
		Bentazon	9.1E-04	I	ug/L	P442750	
		Sucralose	0.017	I	ug/L	P442848	
		Benzovindiflupyr	0.0020	U	ug/L	P442750	
		Carbamazepine	8.0E-04	U	ug/L	P442750	
		Clothianidin	0.0056	I	ug/L	P442750	
		Dinotefuran	0.010		ug/L	P442750	
		Diuron	0.0020	U	ug/L	P442750	
		Fenuron	0.032	U	ug/L	P442750	
		Fluridone	8.0E-04	U	ug/L	P442750	
		Imazapyr	12		ug/L	P442750	
		Hydrocodone	0.0020	U	ug/L	P442750	

Field ID: G3SD0221 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2475981	EPA 8321B	Ibuprofen	0.080	U	ug/L	P442750	
		Imidacloprid	0.074		ug/L	P442750	
		Linuron	0.0040	U	ug/L	P442750	
		Mandestrobin	0.0020	U	ug/L	P442750	
		MCPP	0.0020	U	ug/L	P442750	
		Naproxen	0.0080	U	ug/L	P442750	
		Primidone	0.0040	U	ug/L	P442750	
		Pyraclostrobin	0.0020	U	ug/L	P442750	
		Silvex	0.0040	U	ug/L	P442750	
		Thiamethoxam	0.0056	I	ug/L	P442750	
		Tolfenpyrad	0.0020	U	ug/L	P442750	
		Triclopyr	0.0040	U	ug/L	P442750	
2475988	EPA 8270E	Aldrin	0.67	U	ng/L	P443008	
		Alpha-BHC	0.10	U	ng/L	P443008	
		Alpha-Chlordane	0.21	U	ng/L	P443008	
		PCB-1016	2.1	U	ng/L	P443008	
		Beta-BHC	0.10	U	ng/L	P443008	
		PCB-1221	2.1	U	ng/L	P443008	
		Beta-Cyfluthrin	1.3	U	ng/L	P443008	
		PCB-1232	2.1	U	ng/L	P443008	
		Bifenthrin	0.51	U	ng/L	P443008	
		PCB-1242	2.1	U	ng/L	P443008	
		PCB-1248	2.1	U	ng/L	P443008	
		Chlorothalonil	3.7	U	ng/L	P443008	
		PCB-1254	2.1	U	ng/L	P443008	
		Cis-Nonachlor	0.21	U	ng/L	P443008	
		PCB-1260	2.1	U	ng/L	P443008	
		Cypermethrin	1.5	U	ng/L	P443008	
		Dacthal	0.15	U	ng/L	P443008	
		DDD-p,p'	0.26	U	ng/L	P443008	
		DDE-p,p'	0.21	U	ng/L	P443008	
		DDT-p,p'	0.82	U	ng/L	P443008	
		Delta-BHC	0.41	U	ng/L	P443008	
		Deltamethrin	1.3	U	ng/L	P443008	
		Dichlobenil	0.26	U	ng/L	P443008	
		Dicofol	1.3	U	ng/L	P443008	
		Dieldrin	0.41	U	ng/L	P443008	
		Endosulfan I	0.41	U	ng/L	P443008	
		Endosulfan II	0.92	U	ng/L	P443008	
		Endosulfan Sulfate	0.31	U	ng/L	P443008	
		Endrin	0.92	U	ng/L	P443008	
		Endrin Aldehyde	0.77	U	ng/L	P443008	
		Endrin Ketone	0.41	U	ng/L	P443008	
		Esfenvalerate	0.77	U	ng/L	P443008	
		Ethalfluralin	0.15	U	ng/L	P443008	

Field ID: G3SD0221 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2475988	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P443008	
		Gamma-BHC	0.13	U	ng/L	P443008	
		Gamma-Chlordane	0.21	U	ng/L	P443008	
		Heptachlor	0.21	U	ng/L	P443008	
		Heptachlor Epoxide	0.26	U	ng/L	P443008	
		Hexachlorobenzene**	1.0	U	ng/L	P443008	
		Kepone	14	UJ	ng/L	P443008	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P443008	
		Methoprene	0.77	U	ng/L	P443008	
		Methoxychlor	0.31	U	ng/L	P443008	
		MGK-264	0.21	U	ng/L	P443008	
		Mirex	0.36	U	ng/L	P443008	
		Oxychlordane	0.31	U	ng/L	P443008	
		Permethrin	1.6	U	ng/L	P443008	
		Phenothrin	0.92	U	ng/L	P443008	
		Piperonyl Butoxide	0.15	U	ng/L	P443008	
		Prallethrin	2.1	U	ng/L	P443008	
		Tau-Fluvalinate	0.26	U	ng/L	P443008	
		Tetramethrin	0.77	U	ng/L	P443008	
		Trans-Nonachlor	0.21	U	ng/L	P443008	
		Triclosan Methyl	0.15	U	ng/L	P443008	
		Trifluralin	0.21	U	ng/L	P443008	
	EPA 8276	Chlordane	2.1	U	ng/L	P443008	
		Toxaphene	15	U	ng/L	P443008	
2475989	EPA 8270E	Oxybenzone**	10	U	ng/L	P443009	
		Acetochlor	0.21	U	ng/L	P443009	
		Octinoxate**	150	U	ng/L	P443009	
		Alachlor	0.41	U	ng/L	P443009	
		Avobenzone**	100	U	ng/L	P443009	
		Ametryn	1.1	U	ng/L	P443009	
		Atrazine	1.8		ng/L	P443009	
		PBDE-47**	4.1	U	ng/L	P443009	
		Atrazine Desethyl	1.3	U	ng/L	P443009	
		PBDE-99**	5.1	U	ng/L	P443009	
		Azinphos Methyl	3.1	U	ng/L	P443009	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P443009	RPD
		Azoxystrobin	18	J	ng/L	P443009	
		Bromacil	21	J	ng/L	P443009	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P443009	
		Butylate	0.46	U	ng/L	P443009	
		Dechlorane Plus**	31	U	ng/L	P443009	
		Caffeine**	7.7	U	ng/L	P443009	
		Dechlorane 602**	5.1	U	ng/L	P443009	
		Carbophenothion	0.51	U	ng/L	P443009	

Field ID: G3SD0221 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2475989	EPA 8270E	Dechlorane 603**	4.1	U	ng/L	P443009	
		Carfentrazone Ethyl	0.15	U	ng/L	P443009	
		Hexabromobenzene**	6.2	UJ	ng/L	P443009	LCS
		Chlorfenapyr	0.31	U	ng/L	P443009	
		PBB-153**	6.2	U	ng/L	P443009	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P443009	
		Pentabromotoluene**	3.1	U	ng/L	P443009	
		Chlorpyrifos Methyl	0.10	U	ng/L	P443009	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	U	ng/L	P443009	RPD
		Coumaphos	1.1	U	ng/L	P443009	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P443009	
		Cyanazine	5.1	U	ng/L	P443009	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P443009	RPD
		Cyprodinil	0.21	U	ng/L	P443009	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P443009	
		Demeton	3.6	U	ng/L	P443009	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P443009	RPD
		Diazinon	0.13	U	ng/L	P443009	
		Difenoconazole	0.62	U	ng/L	P443009	
		Dimethenamid	0.10	U	ng/L	P443009	
		Dimethomorph	0.31	U	ng/L	P443009	
		Disulfoton	0.62	U	ng/L	P443009	
		Dithiopyr	1.0	U	ng/L	P443009	
		EPTC	0.51	U	ng/L	P443009	
		Ethion	0.31	U	ng/L	P443009	
		Ethoprop	0.13	U	ng/L	P443009	
		Etridiazole	0.10	U	ng/L	P443009	
		Fenamiphos	0.46	U	ng/L	P443009	
		Fenbuconazole	0.76	I	ng/L	P443009	
		Fipronil	0.21	U	ng/L	P443009	
		Fipronil Desulfinyl**	0.10	U	ng/L	P443009	
		Fipronil Sulfide	0.10	U	ng/L	P443009	
		Fipronil Sulfone	0.10	U	ng/L	P443009	
		Fluazifop-P-butyl	0.10	U	ng/L	P443009	
		Fludioxonil	0.27	I	ng/L	P443009	
		Flumioxazin	15	I	ng/L	P443009	
		Flutolanil	0.10	U	ng/L	P443009	
		Fluxapyroxad	3.2	J	ng/L	P443009	
		Fonofos	0.15	U	ng/L	P443009	
		Hexazinone	0.51	U	ng/L	P443009	
		Imazalil	0.67	U	ng/L	P443009	
		Iprodione	0.51	U	ng/L	P443009	
		Loratadine**	0.31	U	ng/L	P443009	
		Malathion	0.36	U	ng/L	P443009	

Field ID: G3SD0221 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2475989	EPA 8270E	Metalaxyl	12	J	ng/L	P443009	
		Metolachlor	1.4	I	ng/L	P443009	
		Metribuzin	0.41	U	ng/L	P443009	
		Mevinphos	1.0	U	ng/L	P443009	
		Molinate	0.26	U	ng/L	P443009	
		Myclobutanil	6.3	J	ng/L	P443009	
		Naled	2.6	U	ng/L	P443009	
		Napropamide	0.72	U	ng/L	P443009	
		Norflurazon	110	J	ng/L	P443009	
		Oxadiazon	0.36	U	ng/L	P443009	
		Oxyfluorfen	0.21	U	ng/L	P443009	
		Parathion Ethyl	0.15	U	ng/L	P443009	
		Parathion Methyl	0.21	U	ng/L	P443009	
		Pendimethalin	1.7	U	ng/L	P443009	
		Phenytoin**	5.5	U	ng/L	P443009	
		Phorate	0.26	U	ng/L	P443009	
		Prodiamine	0.21	U	ng/L	P443009	
		Prometon	3.1	U	ng/L	P443009	
		Prometryn	0.36	U	ng/L	P443009	
		Pronamide	0.10	U	ng/L	P443009	
		Propanil	0.10	U	ng/L	P443009	
		Propargite	0.82	U	ng/L	P443009	
		Propiconazole	0.62	U	ng/L	P443009	
		Pyraflufen Ethyl	0.31	U	ng/L	P443009	
		Pyridaben	1.4	U	ng/L	P443009	
		Pyriproxyfen	0.26	U	ng/L	P443009	
		Simazine	1.1	I	ng/L	P443009	
		Stirophos	0.41	U	ng/L	P443009	
		Sulfentrazone	1.4	U	ng/L	P443009	
		Tebuconazole	1.4	U	ng/L	P443009	
		Terbufos	0.21	U	ng/L	P443009	
		Terbuthylazine	0.21	U	ng/L	P443009	
		Thiobencarb	0.51	U	ng/L	P443009	
		Triadimefon	0.15	U	ng/L	P443009	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 5310 B-2014: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Estimation for azoxystrobin, bromacil, fluxapyroxad, metalaxyl, myclobutanil, and norflurazon due to internal standard recovery exceeding control limits.

Sample Location: FB **Collection Date/Time: 03/14/2024 10:00**

Field ID: FB_03142024 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2475968	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P442887	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P442883	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P443377	
		Sulfate	0.20	U	mg SO4/L	P443380	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P443077	
	SM 2540 C-2015	TDS	15	U	mg/L	P443308	
	SM 2540 D-2015	TSS	2	U	mg/L	P443256	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P443080	
2475969	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P443128	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P442911	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P443031	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P443137	
	SM 5310 B-2014	Organic Carbon	0.50	U	mg C/L	P443371	
2475982	EPA 8321B	2,4-D	0.0020	U	ug/L	P442750	
		Acesulfame K	0.10	U	ug/L	P442848	
		2,4,5-T	0.0040	U	ug/L	P442750	
		AMPA	0.10	U	ug/L	P442848	
		Acetaminophen	0.0080	U	ug/L	P442750	
		Acetamiprid	0.0020	U	ug/L	P442750	
		Endothall	0.25	U	ug/L	P442848	
		Glufosinate	0.10	U	ug/L	P442848	
		Glyphosate	0.10	U	ug/L	P442848	
		Afidopyropen	0.0020	U	ug/L	P442750	
		Bentazon	8.0E-04	U	ug/L	P442750	
		Sucralose	0.010	U	ug/L	P442848	
		Benzovindiflupyr	0.0020	U	ug/L	P442750	
		Carbamazepine	8.0E-04	U	ug/L	P442750	
		Clothianidin	0.0020	U	ug/L	P442750	
		Dinotefuran	0.0020	U	ug/L	P442750	
		Diuron	0.0020	U	ug/L	P442750	
		Fenuron	0.032	U	ug/L	P442750	
		Fluridone	8.0E-04	U	ug/L	P442750	
		Imazapyr	0.0040	U	ug/L	P442750	
		Hydrocodone	0.0020	U	ug/L	P442750	
		Ibuprofen	0.080	U	ug/L	P442750	
		Imidacloprid	0.0020	U	ug/L	P442750	
		Linuron	0.0040	U	ug/L	P442750	
		Mandestrobin	0.0020	U	ug/L	P442750	
		MCPP	0.0020	U	ug/L	P442750	
		Naproxen	0.0080	U	ug/L	P442750	
		Primidone	0.0040	U	ug/L	P442750	
		Pyraclostrobin	0.0020	U	ug/L	P442750	
		Silvex	0.0040	U	ug/L	P442750	
		Thiamethoxam	0.0020	U	ug/L	P442750	

Field ID: FB_03142024 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2475982	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P442750	
		Triclopyr	0.0040	U	ug/L	P442750	

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

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P442887

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P442889

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P442883

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443376

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443377

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443379

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443380

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443127

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443128

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442911

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443031

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443137

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443194

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

Reference Method: EPA 8270E
Batch ID: P443008

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
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
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P443008

Component	Result	Code	Units
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

Reference Method: EPA 8270E
Batch ID: P443009

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
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	0.45	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P443009

Component	Result	Code	Units
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
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	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P443009

Component	Result	Code	Units
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8276
Batch ID: P443008

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

Reference Method: EPA 8321B
Batch ID: P442750

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P442750

Component	Result	Code	Units
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P442848

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: P442872

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P443077

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

Reference Method: SM 2540 C-2015
Batch ID: P443308

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P443256

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P443080

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P443085

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-2014
Batch ID: P443371

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: P442887

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	94.4		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P442889

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	95.5		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P442883

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443376

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	109		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443377

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	107		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443379

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443380

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	108		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443127

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443128

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.8		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442911

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443031

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443137

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443194

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

Reference Method: EPA 8270E
Batch ID: P443008

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	88.5		P	30 - 96.0
Alpha-BHC	91.6		P	70 - 109
Alpha-Chlordane	103		P	45 - 107
Beta-BHC	99.6		P	64 - 138
Beta-Cyfluthrin	96.3		P	17 - 141
Bifenthrin	90.1		P	10 - 113
Chlorothalonil	71.4		P	26 - 180
Cis-Nonachlor	86.4		P	37 - 102
Cypermethrin	90.0		P	20 - 133
Dacthal	107		P	69 - 114
DDD-p,p'	97.4		P	42 - 105
DDE-p,p'	82.2		P	42 - 106
DDT-p,p'	85.9		P	42 - 107
Delta-BHC	110		P	67 - 144
Deltamethrin	91.2		P	15 - 149
Dichlobenil	76.3		P	46 - 117
Dicofol	82.1		P	34 - 114
Dieldrin	107		P	50 - 108
Endosulfan I	83.9		P	55 - 104
Endosulfan II	87.3		P	51 - 111
Endosulfan Sulfate	115		P	56 - 121
Endrin	86.5		P	10 - 106
Endrin Aldehyde	110		P	34 - 114
Endrin Ketone	125		P	63 - 177
Esfenvalerate	90.5		P	29 - 143
Ethalfluralin	80.5		P	46 - 96.0
Fenpropathrin	93.6		P	28 - 115
Gamma-BHC	88.7		P	65 - 121

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P443008

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-Chlordane	101		P	39 - 103
Heptachlor	72.7		P	39 - 94.0
Heptachlor Epoxide	84.8		P	54 - 104
Hexachlorobenzene	89.3		P	36 - 100
Kepone	149		P	10 - 225
Lambda-Cyhalothrin	115		P	10 - 135
Methoprene	84.8		P	10 - 109
Methoxychlor	95.8		P	52 - 112
MGK-264	88.2		P	44 - 117
Mirex	83.4		P	20 - 90.0
Oxychlordane	84.3		P	44 - 102
PCB-1016	78.8		P	45 - 107
PCB-1260	62.7		P	40 - 118
Permethrin	91.7		P	18 - 135
Phenothrin	91.7		P	10 - 102
Piperonyl Butoxide	114		P	28 - 156
Prallethrin	91.2		P	28 - 113
Tau-Fluvalinate	92.3		P	10 - 123
Tetramethrin	100		P	18 - 158
Trans-Nonachlor	100		P	39 - 104
Triclosan Methyl	86.0		P	54 - 108
Trifluralin	90.3		P	46 - 97.0

Reference Method: EPA 8270E
Batch ID: P443009

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	56.3		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.4		P	37 - 154
Acetochlor	92.6		P	64 - 124
Alachlor	72.9		P	61 - 118
Ametryn	115		P	47 - 158
Atrazine	91.9		P	68 - 121
Atrazine Desethyl	83.0		P	30 - 119
Avobenzone	106		P	48 - 193
Azinphos Methyl	173		P	30 - 194
Azoxystrobin	88.7		P	58 - 154
Bromacil	92.9		P	47 - 126
Butylate	53.5		P	31 - 83.0
Caffeine	97.6		P	10 - 180
Carbophenothion	124		P	59 - 133
Carfentrazone Ethyl	136		P	59 - 147
Chlorfenapyr	90.3		P	52 - 118
Chlorpyrifos Ethyl	77.5		P	59 - 119
Chlorpyrifos Methyl	99.8		P	65 - 123
Coumaphos	122		P	11 - 223
Cyanazine	121		P	63 - 250
Cyprodinil	93.9		P	52 - 143
Dechlorane 602	70.3		P	23 - 142
Dechlorane 603	70.8		P	51 - 171
Dechlorane Plus	66.6		P	46 - 161
Demeton	66.8		P	42 - 119

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P443009

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Diazinon	105		P	67 - 132
Difenoconazole	155		P	12 - 204
Dimethenamid	101		P	53 - 113
Dimethomorph	91.7		P	13 - 238
Disulfoton	95.3		P	56 - 126
Dithiopyr	85.4		P	58 - 127
EPTC	47.8		P	31 - 78.0
Ethion	82.2		P	24 - 127
Ethoprop	75.5		P	60 - 118
Etridiazole	64.7		P	32 - 91.0
Fenamiphos	95.5		P	54 - 129
Fenbuconazole	98.4		P	31 - 162
Fipronil	74.4		P	56 - 131
Fipronil Desulfinyl	68.7		P	58 - 132
Fipronil Sulfide	61.1		P	51 - 123
Fipronil Sulfone	77.2		P	50 - 125
Fluazifop-P-butyl	85.5		P	52 - 132
Fludioxonil	94.5		P	52 - 129
Flumioxazin	83.1		P	34 - 250
Flutolanil	97.0		P	45 - 128
Fluxapyroxad	97.6		P	31 - 150
Fonofos	74.9		P	60 - 116
Hexabromobenzene	49.4		F	52 - 165
Hexazinone	94.1		P	59 - 120
Imazalil	86.8		P	39 - 134
Iprodione	110		P	39 - 243
Loratadine	162		P	10 - 240
Malathion	101		P	53 - 145
Metalaxyl	81.3		P	59 - 120
Metolachlor	91.1		P	64 - 122
Metribuzin	68.6		P	33 - 128
Mevinphos	83.0		P	48 - 119
Molinate	57.0		P	42 - 89.0
Myclobutanil	80.5		P	54 - 129
Naled	78.3		P	10 - 138
Napropamide	87.8		P	40 - 122
Norflurazon	111		P	49 - 132
Octinoxate	76.8		P	29 - 176
Oxadiazon	71.7		P	50 - 115
Oxybenzone	87.1		P	45 - 145
Oxyfluorfen	112		P	62 - 149
Parathion Ethyl	92.5		P	68 - 119
Parathion Methyl	95.5		P	68 - 147
PBB-153	70.7		P	42 - 179
PBDE-47	75.0		P	44 - 141
PBDE-99	77.9		P	36 - 141
Pendimethalin	91.8		P	59 - 158
Pentabromotoluene	68.4		P	58 - 148
Phenytoin	39.5		P	10 - 151
Phorate	81.8		P	44 - 124
Prodiamine	39.3		P	10 - 136
Prometon	93.0		P	45 - 131

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P443009

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prometryn	95.6		P	52 - 140
Pronamide	108		P	70 - 129
Propanil	110		P	54 - 144
Propargite	86.7		P	10 - 191
Propiconazole	85.7		P	49 - 128
Pyraflufen Ethyl	91.8		P	46 - 141
Pyridaben	138		P	29 - 198
Pyriproxyfen	95.4		P	33 - 221
Simazine	93.7		P	62 - 119
Stirophos	104		P	13 - 144
Sulfentrazone	61.4		P	12 - 152
Tebuconazole	81.4		P	10 - 135
Terbufos	81.3		P	67 - 136
Terbuthylazine	74.0		P	66 - 113
Tetradecachloro-m-terphenyl	58.1		P	30 - 235
Thiobencarb	102		P	51 - 125
Tri-o-cresyl Phosphate	74.3		P	50 - 150
Triadimefon	94.9		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	73.8		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	73.8		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	79.8		P	59 - 166

Reference Method: EPA 8276
Batch ID: P443008

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	83.1		P	52 - 117
Toxaphene	89.0		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P442750

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	106		P	40 - 150
2,4,5-T	93.0		P	40 - 150
Acetaminophen	80.4		P	30 - 150
Acetamiprid	84.2		P	40 - 150
Afidopyropen	68.3		P	30 - 150
Bentazon	115		P	30 - 150
Benzovindiflupyr	89.9		P	40 - 150
Carbamazepine	81.9		P	40 - 150
Clothianidin	96.6		P	40 - 150
Dinotefuran	101		P	40 - 150
Diuron	78.6		P	40 - 150
Fenuron	96.1		P	40 - 150
Fluridone	89.2		P	40 - 150
Hydrocodone	88.9		P	40 - 150
Ibuprofen	99.3		P	40 - 150
Imazapyr	104		P	40 - 150
Imidacloprid	94.8		P	40 - 150
Linuron	74.7		P	40 - 150
Mandestrobin	96.4		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P442750

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
MCPP	99.3		P	40 - 150
Naproxen	71.5		P	40 - 150
Primidone	96.8		P	40 - 150
Pyraclostrobin	91.5		P	40 - 150
Silvex	103		P	40 - 150
Thiamethoxam	97.9		P	40 - 150
Tolfenpyrad	57.4		P	30 - 150
Triclopyr	102		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P442848

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	100		P	40 - 150
AMPA	98.6		P	40 - 160
Endothall	86.1		P	40 - 160
Glufosinate	87.7		P	40 - 160
Glyphosate	97.9		P	40 - 160
Sucralose	100		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P442872

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	55.2		P	40 - 150
Aldicarb	47.5		P	30 - 150
Aldicarb Sulfone	80.2		P	40 - 150
Aldicarb Sulfoxide	103		P	40 - 150
Carbaryl	77.6		P	40 - 150
Carbofuran	73.7		P	40 - 150
Methiocarb	72.9		P	40 - 150
Methomyl	81.8		P	40 - 150
Oxamyl	84.5		P	40 - 150
Propoxur	60.6		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P443077

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.1		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P443308

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.8		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P443256

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P443080

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.1		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P443085

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.9		P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P443371

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443376

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475776	Chloride	100		P	90 - 110
2475947	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476207	Chloride	105		P	90 - 110
2476263	Chloride	107		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475776	Sulfate	100		P	90 - 110
2475947	Sulfate	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443380

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476207	Sulfate	104		P	90 - 110
2476263	Sulfate	106		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443127

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475929	Ammonia-N	99.2	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443128

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475972	Ammonia-N	99.6	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442911

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475964	Kjeldahl Nitrogen	107	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476180	NO2NO3-N	95.6	95.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443137

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443137

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475965	Total-P	97.2	94.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443194

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476465	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P443008

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475508	Aldrin	45.8	50.0	P/P	24 - 81.0
2475508	Alpha-BHC	77.3	83.8	P/P	65 - 110
2475508	Alpha-Chlordane	67.6	79.6	P/P	43 - 119
2475508	Beta-BHC	95.5	95.3	P/P	54 - 165
2475508	Beta-Cyfluthrin	90.2	102	P/P	27 - 165
2475508	Bifenthrin	66.1	75.9	P/P	17 - 117
2475508	Chlorothalonil	88.1	76.9	P/P	10 - 255
2475508	Cis-Nonachlor	49.1	58.4	P/P	34 - 98.0
2475508	Cypermethrin	80.9	94.6	P/P	25 - 143
2475508	Dacthal	73.9	78.4	P/P	55 - 139
2475508	DDD-p,p'	63.7	67.3	P/P	30 - 109
2475508	DDE-p,p'	48.3	59.9	P/P	35 - 106
2475508	DDT-p,p'	61.7	69.0	P/P	41 - 101
2475508	Delta-BHC	113	104	P/P	58 - 165
2475508	Deltamethrin	106	116	P/P	10 - 194
2475508	Dichlobenil	35.1	38.8	P/P	22 - 114
2475508	Dicofol	58.2	64.4	P/P	17 - 133
2475508	Dieldrin	68.2	78.9	P/P	45 - 129
2475508	Endosulfan I	54.2	62.1	P/P	49 - 104
2475508	Endosulfan II	58.4	61.0	P/P	37 - 117
2475508	Endosulfan Sulfate	90.0	86.2	P/P	38 - 128
2475508	Endrin	52.2	61.5	P/P	35 - 116
2475508	Endrin Aldehyde	60.7	68.2	P/P	19 - 108
2475508	Endrin Ketone	97.2	94.2	P/P	44 - 134
2475508	Esfenvalerate	101	108	P/P	27 - 176
2475508	Ethalfluralin	63.3	68.4	P/P	49 - 100
2475508	Fenpropathrin	61.7	75.9	P/P	34 - 117
2475508	Gamma-BHC	76.9	86.3	P/P	59 - 129
2475508	Gamma-Chlordane	63.0	67.0	P/P	33 - 107
2475508	Heptachlor	47.3	56.6	P/P	37 - 94.0
2475508	Heptachlor Epoxide	50.3	60.8	P/P	38 - 118
2475508	Hexachlorobenzene	61.5	68.6	P/P	35 - 97.0
2475508	Kepone	139	113	P/P	10 - 221
2475508	Lambda-Cyhalothrin	98.3	111	P/P	23 - 190
2475508	Methoprene	53.3	60.1	P/P	21 - 109
2475508	Methoxychlor	74.2	81.7	P/P	46 - 118
2475508	MGK-264	53.4	62.3	P/P	39 - 122
2475508	Mirex	46.2	58.6	P/P	25 - 90.0
2475508	Oxychlordane	61.9	73.6	P/P	42 - 100
2475508	Permethrin	84.9	101	P/P	33 - 181

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P443008

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475508	Phenothrin	68.7	68.5	P/P	12 - 125
2475508	Piperonyl Butoxide	106	102	P/P	10 - 178
2475508	Prallethrin	53.6	56.5	P/P	24 - 122
2475508	Tau-Fluvalinate	106	113	P/P	13 - 151
2475508	Tetramethrin	69.0	74.4	P/P	16 - 172
2475508	Trans-Nonachlor	61.4	66.6	P/P	39 - 100
2475508	Triclosan Methyl	51.3	62.7	P/P	43 - 110
2475508	Trifluralin	58.0	66.9	P/P	45 - 94.0
2475942	PCB-1016	71.1	66.6	P/P	45 - 107
2475942	PCB-1260	59.9	56.6	P/P	40 - 112

Reference Method: EPA 8270E
Batch ID: P443009

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475498	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	80.3	51.4	P/P	50 - 150
2475498	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	86.5	80.4	P/P	29 - 155
2475498	Acetochlor	88.1	82.1	P/P	60 - 124
2475498	Alachlor	73.6	76.1	P/P	54 - 122
2475498	Ametryn	108	99.6	P/P	51 - 208
2475498	Avobenzone	124	115	P/P	35 - 187
2475498	Azinphos Methyl	180	179	P/P	43 - 276
2475498	Azoxystrobin	88.9	105	P/P	52 - 300
2475498	Bromacil	96.4	81.4	P/P	44 - 134
2475498	Butylate	51.5	56.6	P/P	23 - 82.0
2475498	Caffeine	83.4	102	P/P	10 - 277
2475498	Carbophenothion	110	86.3	P/P	47 - 135
2475498	Carfentrazone Ethyl	122	94.7	P/P	46 - 147
2475498	Chlorfenapyr	103	100	P/P	43 - 114
2475498	Chlorpyrifos Ethyl	75.5	75.8	P/P	47 - 124
2475498	Chlorpyrifos Methyl	101	102	P/P	60 - 135
2475498	Coumaphos	136	129	P/P	10 - 222
2475498	Cyanazine	126	130	P/P	10 - 257
2475498	Cyprodinil	119	93.8	P/P	42 - 148
2475498	Dechlorane 602	68.1	56.9	P/P	14 - 133
2475498	Dechlorane 603	66.1	52.7	P/P	18 - 191
2475498	Dechlorane Plus	59.2	49.4	P/P	23 - 154
2475498	Demeton	73.8	72.1	P/P	41 - 137
2475498	Diazinon	101	86.9	P/P	64 - 139
2475498	Difenoconazole	164	189	P/P	46 - 254
2475498	Dimethenamid	93.4	92.8	P/P	47 - 117
2475498	Dimethomorph	88.9	122	P/P	14 - 255
2475498	Disulfoton	97.4	87.4	P/P	52 - 130
2475498	Dithiopyr	98.2	89.5	P/P	40 - 121
2475498	EPTC	45.1	48.6	P/P	19 - 78.0
2475498	Ethion	81.7	65.0	P/P	12 - 124
2475498	Ethoprop	87.3	89.5	P/P	68 - 144
2475498	Etridiazole	70.4	57.6	P/P	26 - 96.0
2475498	Fenamiphos	73.8	73.2	P/P	41 - 129
2475498	Fenbuconazole	98.8	88.1	P/P	26 - 169
2475498	Fipronil	107	72.3	P/P	46 - 145
2475498	Fipronil Desulfinyl	57.9	99.4	P/P	47 - 136

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P443009

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475498	Fipronil Sulfide	76.0	71.9	P/P	41 - 127
2475498	Fluazifop-P-butyl	92.0	83.1	P/P	46 - 131
2475498	Fludioxonil	94.4	97.7	P/P	51 - 124
2475498	Flumioxazin	86.1	96.6	P/P	10 - 289
2475498	Flutolanil	94.5	94.0	P/P	34 - 130
2475498	Fluxapyroxad	96.7	78.1	P/P	10 - 197
2475498	Fonofos	84.3	87.4	P/P	42 - 131
2475498	Hexabromobenzene	62.3	75.1	P/P	47 - 178
2475498	Hexazinone	93.4	88.3	P/P	64 - 125
2475498	Imazalil	94.8	85.4	P/P	37 - 252
2475498	Iprodione	120	94.8	P/P	34 - 265
2475498	Loratadine	166	173	P/P	20 - 231
2475498	Malathion	99.7	104	P/P	34 - 164
2475498	Metalaxyl	82.9	80.4	P/P	49 - 125
2475498	Metribuzin	93.7	87.4	P/P	51 - 139
2475498	Mevinphos	92.8	95.3	P/P	46 - 130
2475498	Molinate	59.6	63.5	P/P	39 - 93.0
2475498	Myclobutanil	93.4	86.7	P/P	50 - 130
2475498	Naled	83.8	77.7	P/P	10 - 150
2475498	Napropamide	101	82.3	P/P	10 - 109
2475498	Norflurazon	104	79.5	P/P	36 - 134
2475498	Octinoxate	78.6	81.6	P/P	18 - 170
2475498	Oxadiazon	76.0	71.8	P/P	43 - 112
2475498	Oxybenzone	88.1	95.9	P/P	33 - 154
2475498	Oxyfluorfen	112	112	P/P	62 - 154
2475498	Parathion Ethyl	106	97.1	P/P	65 - 120
2475498	Parathion Methyl	83.8	99.4	P/P	77 - 185
2475498	PBB-153	81.0	73.8	P/P	23 - 193
2475498	PBDE-47	81.3	70.3	P/P	31 - 139
2475498	PBDE-99	83.8	72.6	P/P	24 - 138
2475498	Pendimethalin	109	100	P/P	50 - 146
2475498	Pentabromotoluene	72.5	74.7	P/P	54 - 152
2475498	Phenytoin	82.8	54.4	P/P	10 - 157
2475498	Phorate	89.1	91.8	P/P	54 - 161
2475498	Prodiamine	70.6	65.6	P/P	29 - 160
2475498	Prometon	118	110	P/P	38 - 145
2475498	Prometryn	105	121	P/P	32 - 151
2475498	Pronamide	110	99.0	P/P	61 - 140
2475498	Propanil	118	100	P/P	50 - 147
2475498	Propargite	88.9	61.3	P/P	10 - 190
2475498	Propiconazole	96.4	91.0	P/P	30 - 146
2475498	Pyraflufen Ethyl	87.2	79.8	P/P	30 - 147
2475498	Pyridaben	151	143	P/P	15 - 195
2475498	Pyriproxyfen	95.5	71.4	P/P	31 - 218
2475498	Stirophos	114	90.4	P/P	10 - 134
2475498	Tebuconazole	97.3	60.4	P/P	10 - 133
2475498	Terbufos	85.5	92.6	P/P	65 - 151
2475498	Terbuthylazine	79.3	81.9	P/P	62 - 117
2475498	Tetradecachloro-m-terphenyl	66.4	62.7	P/P	10 - 260
2475498	Thiobencarb	98.6	89.5	P/P	48 - 122
2475498	Tri-o-cresyl Phosphate	102	76.8	P/P	32 - 151
2475498	Triadimefon	91.5	80.1	P/P	46 - 124

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P443009

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475498	Tris(1-chloro-2-propyl) phosphate (TCPP)	88.3	72.4	P/P	51 - 154
2475498	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.9	75.1	P/P	59 - 147
2475498	Tris(2-chloroethyl) phosphate (TCEP)	105	86.9	P/P	65 - 156

Reference Method: EPA 8276
Batch ID: P443008

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475942	Chlordane	81.1	70.6	P/P	43 - 123
2475942	Toxaphene	86.2	76.9	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P442750

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475183	2,4-D	100	115	P/P	40 - 150
2475183	2,4,5-T	78.3	89.3	P/P	40 - 150
2475183	Acetaminophen	76.2	79.2	P/P	30 - 150
2475183	Acetamiprid	84.5	93.7	P/P	40 - 150
2475183	Afidopyropen	84.3	85.6	P/P	30 - 150
2475183	Bentazon	98.3	113	P/P	30 - 150
2475183	Benzovindiflupyr	86.1	94.7	P/P	40 - 150
2475183	Carbamazepine	78.1	82.9	P/P	40 - 150
2475183	Clothianidin	86.2	100	P/P	40 - 150
2475183	Dinotefuran	94.3	99.4	P/P	40 - 150
2475183	Diuron	84.8	82.2	P/P	40 - 150
2475183	Fenuron	85.0	96.7	P/P	40 - 150
2475183	Fluridone	87.4	99.1	P/P	40 - 150
2475183	Hydrocodone	87.3	95.2	P/P	40 - 150
2475183	Ibuprofen	57.8	51.0	P/P	40 - 150
2475183	Imazapyr	102	105	P/P	40 - 150
2475183	Imidacloprid	85.9	98.3	P/P	40 - 150
2475183	Linuron	77.6	92.8	P/P	40 - 150
2475183	Mandestrobin	90.2	96.9	P/P	40 - 150
2475183	MCPP	92.3	95.0	P/P	40 - 150
2475183	Naproxen	74.6	78.1	P/P	40 - 150
2475183	Primidone	82.4	91.5	P/P	40 - 150
2475183	Pyraclostrobin	86.8	95.9	P/P	40 - 150
2475183	Silvex	96.2	102	P/P	40 - 150
2475183	Thiamethoxam	90.3	96.8	P/P	40 - 150
2475183	Tolfenpyrad	53.9	60.9	P/P	30 - 150
2475183	Triclopyr	84.2	86.7	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P442848

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475501	Acesulfame K	101	102	P/P	40 - 150
2475501	AMPA	91.1	90.1	P/P	40 - 160
2475501	Endothall	88.5	85.1	P/P	40 - 160
2475501	Glufosinate	95.0	97.3	P/P	40 - 160
2475501	Glyphosate	93.8	98.8	P/P	40 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P442848

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475501	Sucralose	99.2	101	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P442872

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475338	3-Hydroxycarbofuran	68.6	60.5	P/P	40 - 150
2475338	Aldicarb	46.3	50.1	P/P	30 - 150
2475338	Aldicarb Sulfone	59.6	60.8	P/P	40 - 150
2475338	Aldicarb Sulfoxide	26.7	25.7	F/F	40 - 150
2475338	Carbaryl	65.2	58.2	P/P	40 - 150
2475338	Carbofuran	56.3	56.6	P/P	40 - 150
2475338	Methiocarb	81.8	68.7	P/P	40 - 150
2475338	Methomyl	61.7	61.5	P/P	40 - 150
2475338	Oxamyl	65.9	65.9	P/P	40 - 150
2475338	Propoxur	48.1	41.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P443080

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475947	Fluoride	98.8	98.8	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P443371

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476493	Organic Carbon	97.5	98.8	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P442887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476006	Color (true)	5.60	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P442883

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475962	Turbidity	1.85	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443376

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475776	Chloride	0.674	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476207	Chloride	0.422	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475776	Sulfate	0.676	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443380

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476207	Sulfate	0.319	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443127

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475929	Ammonia-N	0.587	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443128

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475972	Ammonia-N	0.401	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442911

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475964	Kjeldahl Nitrogen	2.52	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476180	NO2NO3-N	0.414	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475965	Total-P	1.81	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443194

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476465	Total-P	0.416	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P443008

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475508	Aldrin	8.79	Spike	P	0 - 41
2475508	Alpha-BHC	8.06	Spike	P	0 - 25
2475508	Alpha-Chlordane	16.4	Spike	P	0 - 32
2475508	Beta-BHC	0.142	Spike	P	0 - 33
2475508	Beta-Cyfluthrin	12.4	Spike	P	0 - 43
2475508	Bifenthrin	13.8	Spike	P	0 - 52
2475508	Chlorothalonil	13.5	Spike	P	0 - 82
2475508	Cis-Nonachlor	17.2	Spike	P	0 - 33
2475508	Cypermethrin	15.6	Spike	P	0 - 51
2475508	Dacthal	5.82	Spike	P	0 - 27
2475508	DDD-p,p'	5.53	Spike	P	0 - 39
2475508	DDE-p,p'	21.5	Spike	P	0 - 31
2475508	DDT-p,p'	11.2	Spike	P	0 - 29
2475508	Delta-BHC	8.73	Spike	P	0 - 35
2475508	Deltamethrin	9.42	Spike	P	0 - 100
2475508	Dichlobenil	9.96	Spike	P	0 - 40
2475508	Dicofol	10.0	Spike	P	0 - 37
2475508	Dieldrin	14.5	Spike	P	0 - 27
2475508	Endosulfan I	13.5	Spike	P	0 - 23
2475508	Endosulfan II	4.28	Spike	P	0 - 34
2475508	Endosulfan Sulfate	4.24	Spike	P	0 - 36
2475508	Endrin	16.5	Spike	P	0 - 45
2475508	Endrin Aldehyde	11.7	Spike	P	0 - 76

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P443008

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475508	Endrin Ketone	3.07	Spike	P	0 - 43
2475508	Esfenvalerate	6.74	Spike	P	0 - 51
2475508	Ethalfluralin	7.79	Spike	P	0 - 22
2475508	Fenpropathrin	20.6	Spike	P	0 - 49
2475508	Gamma-BHC	11.6	Spike	P	0 - 28
2475508	Gamma-Chlordane	6.26	Spike	P	0 - 40
2475508	Heptachlor	18.0	Spike	P	0 - 29
2475508	Heptachlor Epoxide	18.9	Spike	P	0 - 33
2475508	Hexachlorobenzene	10.9	Spike	P	0 - 36
2475508	Kepone	20.3	Spike	P	0 - 85
2475508	Lambda-Cyhalothrin	11.9	Spike	P	0 - 55
2475508	Methoprene	12.0	Spike	P	0 - 53
2475508	Methoxychlor	9.65	Spike	P	0 - 50
2475508	MGK-264	15.4	Spike	P	0 - 43
2475508	Mirex	23.7	Spike	P	0 - 40
2475508	Oxychlordane	17.2	Spike	P	0 - 31
2475508	Permethrin	17.0	Spike	P	0 - 50
2475508	Phenothrin	0.253	Spike	P	0 - 58
2475508	Piperonyl Butoxide	4.06	Spike	P	0 - 100
2475508	Prallethrin	5.36	Spike	P	0 - 39
2475508	Tau-Fluvalinate	6.59	Spike	P	0 - 54
2475508	Tetramethrin	7.53	Spike	P	0 - 51
2475508	Trans-Nonachlor	8.07	Spike	P	0 - 39
2475508	Triclosan Methyl	20.2	Spike	P	0 - 31
2475508	Trifluralin	14.3	Spike	P	0 - 22
2475942	PCB-1016	6.52	Spike	P	0 - 25
2475942	PCB-1260	5.64	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P443009

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475498	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	43.9	Spike	F	0 - 30
2475498	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	7.27	Spike	P	0 - 35
2475498	Acetochlor	7.03	Spike	P	0 - 28
2475498	Alachlor	3.45	Spike	P	0 - 30
2475498	Ametryn	6.52	Spike	P	0 - 32
2475498	Atrazine	2.97	Spike	P	0 - 33
2475498	Atrazine Desethyl	1.37	Spike	P	0 - 36
2475498	Avobenzone	7.31	Spike	P	0 - 35
2475498	Azinphos Methyl	0.770	Spike	P	0 - 62
2475498	Azoxystrobin	13.9	Spike	P	0 - 39
2475498	Bromacil	10.6	Spike	P	0 - 33
2475498	Butylate	9.35	Spike	P	0 - 51
2475498	Caffeine	13.2	Spike	P	0 - 100
2475498	Carbophenothion	24.2	Spike	P	0 - 34
2475498	Carfentrazone Ethyl	25.5	Spike	P	0 - 33
2475498	Chlorfenapyr	3.01	Spike	P	0 - 28
2475498	Chlorpyrifos Ethyl	0.367	Spike	P	0 - 31
2475498	Chlorpyrifos Methyl	0.971	Spike	P	0 - 27

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P443009

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475498	Coumaphos	4.96	Spike	P	0 - 62
2475498	Cyanazine	2.59	Spike	P	0 - 48
2475498	Cyprodinil	23.6	Spike	P	0 - 29
2475498	Dechlorane 602	18.1	Spike	P	0 - 60
2475498	Dechlorane 603	22.6	Spike	P	0 - 40
2475498	Dechlorane Plus	18.0	Spike	P	0 - 38
2475498	Demeton	2.42	Spike	P	0 - 33
2475498	Diazinon	14.9	Spike	P	0 - 32
2475498	Difenoconazole	14.4	Spike	P	0 - 71
2475498	Dimethenamid	0.599	Spike	P	0 - 60
2475498	Dimethomorph	31.3	Spike	P	0 - 61
2475498	Disulfoton	10.9	Spike	P	0 - 30
2475498	Dithiopyr	8.23	Spike	P	0 - 28
2475498	EPTC	7.67	Spike	P	0 - 56
2475498	Ethion	22.8	Spike	P	0 - 79
2475498	Ethoprop	2.45	Spike	P	0 - 31
2475498	Etridiazole	19.9	Spike	P	0 - 43
2475498	Fenamiphos	0.825	Spike	P	0 - 43
2475498	Fenbuconazole	11.4	Spike	P	0 - 79
2475498	Fipronil	29.7	Spike	P	0 - 46
2475498	Fipronil Desulfinyl	32.8	Spike	P	0 - 36
2475498	Fipronil Sulfide	3.03	Spike	P	0 - 34
2475498	Fipronil Sulfone	15.2	Spike	P	0 - 47
2475498	Fluazifop-P-butyl	10.2	Spike	P	0 - 38
2475498	Fludioxonil	3.42	Spike	P	0 - 29
2475498	Flumioxazin	9.71	Spike	P	0 - 63
2475498	Flutolanil	0.574	Spike	P	0 - 36
2475498	Fluxapyroxad	18.4	Spike	P	0 - 65
2475498	Fonofos	3.67	Spike	P	0 - 35
2475498	Hexabromobenzene	18.6	Spike	P	0 - 41
2475498	Hexazinone	4.64	Spike	P	0 - 31
2475498	Imazalil	10.4	Spike	P	0 - 52
2475498	Iprodione	23.1	Spike	P	0 - 49
2475498	Loratadine	4.13	Spike	P	0 - 59
2475498	Malathion	3.97	Spike	P	0 - 77
2475498	Metalaxyl	3.05	Spike	P	0 - 76
2475498	Metolachlor	4.13	Spike	P	0 - 29
2475498	Metribuzin	6.97	Spike	P	0 - 51
2475498	Mevinphos	2.70	Spike	P	0 - 31
2475498	Molinate	6.19	Spike	P	0 - 39
2475498	Myclobutanil	4.63	Spike	P	0 - 34
2475498	Naled	7.57	Spike	P	0 - 37
2475498	Napropamide	20.7	Spike	P	0 - 100
2475498	Norflurazon	26.9	Spike	P	0 - 54
2475498	Octinoxate	3.84	Spike	P	0 - 35
2475498	Oxadiazon	4.86	Spike	P	0 - 34
2475498	Oxybenzone	8.50	Spike	P	0 - 35
2475498	Oxyfluorfen	0.402	Spike	P	0 - 28
2475498	Parathion Ethyl	9.13	Spike	P	0 - 31
2475498	Parathion Methyl	17.1	Spike	P	0 - 29
2475498	PBB-153	9.27	Spike	P	0 - 49

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P443009

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475498	PBDE-47	14.6	Spike	P	0 - 36
2475498	PBDE-99	14.4	Spike	P	0 - 46
2475498	Pendimethalin	8.28	Spike	P	0 - 31
2475498	Pentabromotoluene	2.92	Spike	P	0 - 16
2475498	Phenytoin	41.4	Spike	P	0 - 100
2475498	Phorate	2.99	Spike	P	0 - 36
2475498	Prodiamine	5.62	Spike	P	0 - 68
2475498	Prometon	6.42	Spike	P	0 - 35
2475498	Prometryn	13.9	Spike	P	0 - 33
2475498	Pronamide	10.4	Spike	P	0 - 24
2475498	Propanil	16.0	Spike	P	0 - 28
2475498	Propargite	36.8	Spike	P	0 - 53
2475498	Propiconazole	3.15	Spike	P	0 - 44
2475498	Pyraflufen Ethyl	8.81	Spike	P	0 - 61
2475498	Pyridaben	5.57	Spike	P	0 - 43
2475498	Pyriproxyfen	29.0	Spike	P	0 - 82
2475498	Simazine	1.93	Spike	P	0 - 29
2475498	Stirophos	23.4	Spike	P	0 - 100
2475498	Sulfentrazone	11.0	Spike	P	0 - 64
2475498	Tebuconazole	46.7	Spike	P	0 - 76
2475498	Terbufos	8.00	Spike	P	0 - 29
2475498	Terbuthylazine	3.23	Spike	P	0 - 28
2475498	Tetradecachloro-m-terphenyl	5.68	Spike	P	0 - 42
2475498	Thiobencarb	9.68	Spike	P	0 - 26
2475498	Tri-o-cresyl Phosphate	28.2	Spike	F	0 - 24
2475498	Triadimefon	12.0	Spike	P	0 - 40
2475498	Tris(1-chloro-2-propyl) phosphate (TCPP)	16.6	Spike	P	0 - 30
2475498	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	24.7	Spike	F	0 - 22
2475498	Tris(2-chloroethyl) phosphate (TCEP)	19.0	Spike	F	0 - 15

Reference Method: EPA 8276
Batch ID: P443008

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475942	Chlordane	13.9	Spike	P	0 - 28
2475942	Toxaphene	11.4	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P442750

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475183	2,4-D	14.1	Spike	P	0 - 30
2475183	2,4,5-T	13.2	Spike	P	0 - 30
2475183	Acetaminophen	2.86	Spike	P	0 - 30
2475183	Acetamiprid	10.4	Spike	P	0 - 30
2475183	Afidopyropen	1.55	Spike	P	0 - 30
2475183	Bentazon	14.2	Spike	P	0 - 30
2475183	Benzovindiflupyr	9.58	Spike	P	0 - 30
2475183	Carbamazepine	5.90	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P442750

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475183	Clothianidin	15.2	Spike	P	0 - 30
2475183	Dinotefuran	5.26	Spike	P	0 - 30
2475183	Diuron	3.16	Spike	P	0 - 30
2475183	Fenuron	12.8	Spike	P	0 - 30
2475183	Fluridone	12.5	Spike	P	0 - 30
2475183	Hydrocodone	8.61	Spike	P	0 - 30
2475183	Ibuprofen	12.5	Spike	P	0 - 30
2475183	Imazapyr	2.68	Spike	P	0 - 30
2475183	Imidacloprid	13.5	Spike	P	0 - 30
2475183	Linuron	17.8	Spike	P	0 - 30
2475183	Mandestrobin	7.13	Spike	P	0 - 30
2475183	MCPP	2.91	Spike	P	0 - 30
2475183	Naproxen	4.64	Spike	P	0 - 30
2475183	Primidone	10.5	Spike	P	0 - 30
2475183	Pyraclostrobin	9.95	Spike	P	0 - 30
2475183	Silvex	6.09	Spike	P	0 - 30
2475183	Thiamethoxam	6.95	Spike	P	0 - 30
2475183	Tolfenpyrad	12.2	Spike	P	0 - 30
2475183	Triclopyr	2.93	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P442848

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475501	Acesulfame K	0.851	Spike	P	0 - 30
2475501	AMPA	1.05	Spike	P	0 - 30
2475501	Endothall	3.90	Spike	P	0 - 30
2475501	Glufosinate	2.32	Spike	P	0 - 30
2475501	Glyphosate	5.18	Spike	P	0 - 30
2475501	Sucralose	2.05	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P442872

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475338	3-Hydroxycarbofuran	12.4	Spike	P	0 - 30
2475338	Aldicarb	7.85	Spike	P	0 - 30
2475338	Aldicarb Sulfone	2.03	Spike	P	0 - 30
2475338	Aldicarb Sulfoxide	3.82	Spike	P	0 - 30
2475338	Carbaryl	10.6	Spike	P	0 - 30
2475338	Carbofuran	0.557	Spike	P	0 - 30
2475338	Methiocarb	17.4	Spike	P	0 - 30
2475338	Methomyl	0.184	Spike	P	0 - 30
2475338	Oxamyl	0.0519	Spike	P	0 - 30
2475338	Propoxur	14.6	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: SM 2320 B-2011
Batch ID: P443077

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475947	Total Alkalinity	2.50	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P443308

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475472	TDS	0.587	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P443080

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475947	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P443085

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475931	Organic Carbon	1.02	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P443371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476493	Organic Carbon	1.34	Spike	P	0 - 15

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2475980
Field Sample ID: G3SD0221

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	67.1	P	30 - 160

Lab Sample ID: 2475981
Field Sample ID: G3SD0221

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	71.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	78.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	61.1	P	30 - 160
EPA 8321B	Diuron-d6	71.9	P	30 - 160
EPA 8321B	Endothall-d6	104	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	103	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.6	P	30 - 160
EPA 8321B	Primidone-d5	87.1	P	30 - 160
EPA 8321B	Sucralose-d6	119	P	30 - 160

Lab Sample ID: 2475982
Field Sample ID: FB_03142024

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	78.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	76.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.3	P	30 - 160
EPA 8321B	Diuron-d6	76.8	P	30 - 160
EPA 8321B	Endothall-d6	86.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	103	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.3	P	30 - 160
EPA 8321B	Primidone-d5	78.7	P	30 - 160
EPA 8321B	Sucralose-d6	115	P	30 - 160

Lab Sample ID: 2475987
Field Sample ID: G1SD0070

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	80.0	P	37 - 129
EPA 8270E	Decachlorobiphenyl	77.3	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	45.5	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	62.6	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	55.8	P	23 - 110
EPA 8276	PCNB	72.6	P	51 - 130

Lab Sample ID: 2475988
Field Sample ID: G3SD0221

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	81.3	P	37 - 129
EPA 8270E	Decachlorobiphenyl	78.4	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	48.2	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	65.6	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	60.8	P	23 - 110
EPA 8276	PCNB	74.4	P	51 - 130

Quality Assurance Report
Surrogates

Lab Sample ID: 2475989
Field Sample ID: G3SD0221

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	67.2	P	20 - 200
EPA 8270E	Simazine-d10	82.4	P	58 - 137
EPA 8270E	Terbufos-d10	67.9	P	50 - 134
EPA 8270E	Terphenyl-d14	85.7	P	44 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A124787
Included Lab Sample IDs: 2475962, 2475963, 2475966, 2475968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.0	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1
Run ID: A124789
Included Lab Sample IDs: 2475962, 2475966, 2475968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.1	94.0	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A124790
Included Lab Sample IDs: 2475963

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	95.5	97.2	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A124796
Included Lab Sample IDs: 2475981, 2475982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	105	102	P/P	60 - 160
Endothall	89.6	90.9	P/P	60 - 160
Glufosinate	92.4	94.8	P/P	60 - 160
Glyphosate	103	101	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A124818
Included Lab Sample IDs: 2475981, 2475982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	105	116	P/P	60 - 160
Sucralose	103	111	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A124832
Included Lab Sample IDs: 2475981, 2475982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.2	95.2	P/P	50 - 150
2,4,5-T	86.1	106	P/P	50 - 150
Acetaminophen	113	112	P/P	60 - 160
Acetamiprid	116	114	P/P	50 - 150
Afidopyropen	109	114	P/P	50 - 150
Bentazon	107	107	P/P	50 - 160
Benzovindiflupyr	100	110	P/P	50 - 150
Carbamazepine	113	110	P/P	60 - 150
Clothianidin	109	117	P/P	60 - 150
Dinotefuran	110	109	P/P	50 - 150
Diuron	124	108	P/P	60 - 160
Fenuron	107	111	P/P	60 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A124832
Included Lab Sample IDs: 2475981, 2475982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluridone	114	105	P/P	60 - 160
Hydrocodone	111	116	P/P	60 - 150
Ibuprofen	63.8	98.0	P/P	50 - 160
Imazapyr	95.6	99.7	P/P	50 - 150
Imidacloprid	107	103	P/P	60 - 150
Linuron	110	108	P/P	60 - 150
Mandestrobin	108	115	P/P	50 - 150
MCPP	90.5	94.4	P/P	50 - 150
Naproxen	101	101	P/P	50 - 160
Primidone	103	90.6	P/P	60 - 150
Pyraclostrobin	107	112	P/P	60 - 150
Silvex	88.0	101	P/P	50 - 150
Thiamethoxam	126	126	P/P	50 - 150
Tolfenpyrad	107	106	P/P	60 - 150
Triclopyr	95.3	75.5	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A124849
Included Lab Sample IDs: 2475964, 2475965, 2475967, 2475969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A124860
Included Lab Sample IDs: 2475964, 2475965, 2475967, 2475969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	105	P/P	90 - 110
Kjeldahl Nitrogen	105	101	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A124874
Included Lab Sample IDs: 2475962, 2475963, 2475966, 2475968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.1	96.9	P/P	90 - 110
Total Alkalinity	98.9	96.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A124874
Included Lab Sample IDs: 2475962, 2475963, 2475966, 2475968

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

Quality Assurance Report
Calibration Verification

Reference Method: SM 5310 B-2014
Run ID: A124877
Included Lab Sample IDs: 2475964, 2475965, 2475967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	102	P/P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A124892
Included Lab Sample IDs: 2475964, 2475965, 2475967, 2475969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	98.2	P/P	90 - 110
Ammonia-N	98.1	97.6	P/P	90 - 110
Ammonia-N	98.1	97.9	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A124914
Included Lab Sample IDs: 2475980

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	101	103	P/P	60 - 150
Aldicarb	101	104	P/P	60 - 150
Aldicarb Sulfone	94.3	99.0	P/P	50 - 150
Aldicarb Sulfoxide	95.0	97.7	P/P	50 - 150
Carbaryl	98.9	99.1	P/P	60 - 150
Carbofuran	100	101	P/P	50 - 150
Imazapyr	79.2	85.2	P/P	50 - 150
Methiocarb	96.0	97.7	P/P	50 - 150
Methomyl	102	99.9	P/P	50 - 150
Oxamyl	99.2	95.7	P/P	50 - 150
Propoxur	101	100	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A124928
Included Lab Sample IDs: 2475964, 2475965

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	103	P/P	90 - 110
Total-P	103	99.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A124942
Included Lab Sample IDs: 2475969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	98.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A124947
Included Lab Sample IDs: 2475967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.8	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A124958
Included Lab Sample IDs: 2475989

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	92.9		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.3		P	80 - 120
Avobenzone	96.7		P	80 - 120
Dechlorane 602	95.9		P	80 - 120
Dechlorane 603	91.9		P	80 - 120
Dechlorane Plus	94.5		P	80 - 120
Hexabromobenzene	101		P	80 - 120
Octinoxate	99.2		P	80 - 120
Oxybenzone	100		P	80 - 120
PBB-153	93.0		P	80 - 120
PBDE-47	94.9		P	80 - 120
PBDE-99	96.9		P	80 - 120
Pentabromotoluene	96.3		P	80 - 120
Tetradecachloro-m-terphenyl	90.2		P	80 - 120
Tri-o-cresyl Phosphate	93.2		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	95.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	89.7		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	93.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A124983
Included Lab Sample IDs: 2475989

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	85.8		P	80 - 120
Alachlor	80.3		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	98.9		P	80 - 120
Atrazine Desethyl	101		P	80 - 120
Azinphos Methyl	119		P	80 - 120
Azoxystrobin	97.3		P	80 - 120
Bromacil	97.2		P	80 - 120
Butylate	97.9		P	80 - 120
Caffeine	86.9		P	80 - 120
Carbophenothion	99.6		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	86.0		P	80 - 120
Chlorpyrifos Ethyl	83.5		P	80 - 120
Chlorpyrifos Methyl	87.8		P	80 - 120
Coumaphos	107		P	80 - 120
Cyanazine	97.1		P	80 - 120
Cyprodinil	103		P	80 - 120
Demeton	99.1		P	80 - 120
Diazinon	94.6		P	80 - 120
Difenoconazole	101		P	80 - 120
Dimethenamid	98.2		P	80 - 120
Dimethomorph	86.2		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	99.7		P	80 - 120
Ethion	89.1		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A124983
Included Lab Sample IDs: 2475989

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethoprop	95.7		P	80 - 120
Etridiazole	108		P	80 - 120
Fenamiphos	88.4		P	80 - 120
Fenbuconazole	89.6		P	80 - 120
Fipronil	87.7		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	89.2		P	80 - 120
Fipronil Sulfone	92.4		P	80 - 120
Fluazifop-P-butyl	84.1		P	80 - 120
Fludioxonil	114		P	80 - 120
Flumioxazin	104		P	80 - 120
Flutolanil	98.2		P	80 - 120
Fluxapyroxad	96.9		P	80 - 120
Fonofos	90.9		P	80 - 120
Hexazinone	97.0		P	80 - 120
Imazalil	98.4		P	80 - 120
Iprodione	92.7		P	80 - 120
Loratadine	87.3		P	80 - 120
Malathion	85.4		P	80 - 120
Metalaxyl	87.3		P	80 - 120
Metolachlor	98.7		P	80 - 120
Metribuzin	105		P	80 - 120
Mevinphos	97.9		P	80 - 120
Molinate	90.0		P	80 - 120
Myclobutanil	84.6		P	80 - 120
Naled	95.0		P	80 - 120
Napropamide	96.3		P	80 - 120
Norflurazon	98.0		P	80 - 120
Oxadiazon	95.0		P	80 - 120
Oxyfluorfen	107		P	80 - 120
Parathion Ethyl	99.8		P	80 - 120
Parathion Methyl	82.7		P	80 - 120
Pendimethalin	99.8		P	80 - 120
Phenytoin	103		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	120		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	87.7		P	80 - 120
Pronamide	98.4		P	80 - 120
Propanil	99.0		P	80 - 120
Propargite	91.4		P	80 - 120
Propiconazole	81.4		P	80 - 120
Pyraflufen Ethyl	100		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	95.7		P	80 - 120
Simazine	87.6		P	80 - 120
Stirophos	105		P	80 - 120
Sulfentrazone	104		P	80 - 120
Tebuconazole	98.1		P	80 - 120
Terbufos	96.6		P	80 - 120
Terbuthylazine	84.3		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A124983
Included Lab Sample IDs: 2475989

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Thiobencarb	99.5		P	80 - 120
Triadimefon	102		P	80 - 120

Reference Method: EPA 8276
Run ID: A125009
Included Lab Sample IDs: 2475987, 2475988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.9		P	80 - 120
Toxaphene	98.1		P	80 - 120

Reference Method: EPA 8270E
Run ID: A125011
Included Lab Sample IDs: 2475987, 2475988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	98.7		P	80 - 120
Alpha-Chlordane	98.7		P	80 - 120
Beta-BHC	100		P	80 - 120
Beta-Cyfluthrin	96.1		P	80 - 120
Bifenthrin	98.5		P	80 - 120
Chlorothalonil	88.1		P	80 - 120
Cis-Nonachlor	99.3		P	80 - 120
Cypermethrin	97.4		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	99.4		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	94.9		P	80 - 120
Delta-BHC	95.3		P	80 - 120
Deltamethrin	89.8		P	80 - 120
Dichlobenil	105		P	80 - 120
Dicofol	92.9		P	80 - 120
Dieldrin	97.9		P	80 - 120
Endosulfan I	99.6		P	80 - 120
Endosulfan II	97.1		P	80 - 120
Endosulfan Sulfate	97.5		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	110		P	80 - 120
Endrin Ketone	97.4		P	80 - 120
Esfenvalerate	94.5		P	80 - 120
Ethalfluralin	99.3		P	80 - 120
Fenpropathrin	100		P	80 - 120
Gamma-BHC	97.7		P	80 - 120
Gamma-Chlordane	98.9		P	80 - 120
Heptachlor	100		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	100		P	80 - 120
Kepone	60.8*		F	80 - 120
Lambda-Cyhalothrin	95.4		P	80 - 120
Methoprene	101		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A125011
Included Lab Sample IDs: 2475987, 2475988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoxychlor	101		P	80 - 120
MGK-264	101		P	80 - 120
Mirex	102		P	80 - 120
Oxychlordane	99.3		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	99.4		P	80 - 120
Piperonyl Butoxide	98.2		P	80 - 120
Prallethrin	99.2		P	80 - 120
Tau-Fluvalinate	94.3		P	80 - 120
Tetramethrin	98.2		P	80 - 120
Trans-Nonachlor	99.7		P	80 - 120
Triclosan Methyl	102		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A125015
Included Lab Sample IDs: 2475987, 2475988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	103		P	80 - 120
PCB-1260	104		P	80 - 120

Reference Method: SM 5310 B-2014
Run ID: A125016
Included Lab Sample IDs: 2475969

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.0	99.3	P/P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A125018
Included Lab Sample IDs: 2475962, 2475963, 2475966, 2475968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.6	101	P/P	90 - 110
Chloride	100	98.6	P/P	90 - 110
Sulfate	101	99.8	P/P	90 - 110
Sulfate	99.8	102	P/P	90 - 110

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	94.4				5.60	
	Color (true)	95.5					
EPA 180.1 Rev. 2.0	Turbidity	102				1.85	
EPA 300.0 Rev. 2.1	Chloride	109	100	103		0.674	
	Chloride	107	105	107		0.422	
	Sulfate	110	100	103		0.676	
	Sulfate	108	104	106		0.319	
EPA 350.1 Rev. 2.0	Ammonia-N	95.8	99.2	100			0.587
	Ammonia-N	94.8	99.6	100			0.401
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	107	102			2.52
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	95.6	95.2			0.414
EPA 365.1 Rev. 2.0	Total-P	102	97.2	94.0			1.81
	Total-P	105	103	103			0.416
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	56.3	80.3	51.4			43.9
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.4	86.5	80.4			7.27
	Acetochlor	92.6	88.1	82.1			7.03
	Alachlor	72.9	73.6	76.1			3.45
	Aldrin	88.5	45.8	50.0			8.79
	Alpha-BHC	91.6	77.3	83.8			8.06
	Alpha-Chlordane	103	67.6	79.6			16.4
	Ametryn	115	108	99.6			6.52
	Atrazine	91.9					2.97
	Atrazine Desethyl	83.0					1.37
	Avobenzone	106	124	115			7.31
	Azinphos Methyl	173	180	179			0.770
	Azoxystrobin	88.7	88.9	105			13.9
	Beta-BHC	99.6	95.5	95.3			0.142
	Beta-Cyfluthrin	96.3	90.2	102			12.4
	Bifenthrin	90.1	66.1	75.9			13.8
	Bromacil	92.9	96.4	81.4			10.6
	Butylate	53.5	51.5	56.6			9.35
	Caffeine	97.6	83.4	102			13.2
	Carbophenothion	124	110	86.3			24.2
	Carfentrazone Ethyl	136	122	94.7			25.5
	Chlorfenapyr	90.3	103	100			3.01
	Chlorothalonil	71.4	88.1	76.9			13.5
	Chlorpyrifos Ethyl	77.5	75.5	75.8			0.367
	Chlorpyrifos Methyl	99.8	101	102			0.971
	Cis-Nonachlor	86.4	49.1	58.4			17.2
	Coumaphos	122	136	129			4.96
	Cyanazine	121	126	130			2.59
	Cypermethrin	90.0	80.9	94.6			15.6
	Cyprodinil	93.9	119	93.8			23.6
	Dacthal	107	73.9	78.4			5.82
	DDD-p,p'	97.4	63.7	67.3			5.53
	DDE-p,p'	82.2	48.3	59.9			21.5
	DDT-p,p'	85.9	61.7	69.0			11.2
	Dechlorane 602	70.3	68.1	56.9			18.1
	Dechlorane 603	70.8	66.1	52.7			22.6
	Dechlorane Plus	66.6	59.2	49.4			18.0
	Delta-BHC	110	113	104			8.73

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Deltamethrin	91.2	106	116			9.42
	Demeton	66.8	73.8	72.1			2.42
	Diazinon	105	101	86.9			14.9
	Dichlobenil	76.3	35.1	38.8			9.96
	Dicofol	82.1	58.2	64.4			10.0
	Dieldrin	107	68.2	78.9			14.5
	Difenoconazole	155	164	189			14.4
	Dimethenamid	101	93.4	92.8			0.599
	Dimethomorph	91.7	88.9	122			31.3
	Disulfoton	95.3	97.4	87.4			10.9
	Dithiopyr	85.4	98.2	89.5			8.23
	Endosulfan I	83.9	54.2	62.1			13.5
	Endosulfan II	87.3	58.4	61.0			4.28
	Endosulfan Sulfate	115	90.0	86.2			4.24
	Endrin	86.5	52.2	61.5			16.5
	Endrin Aldehyde	110	60.7	68.2			11.7
	Endrin Ketone	125	97.2	94.2			3.07
	EPTC	47.8	45.1	48.6			7.67
	Esfenvalerate	90.5	101	108			6.74
	Ethalfluralin	80.5	63.3	68.4			7.79
	Ethion	82.2	81.7	65.0			22.8
	Ethoprop	75.5	87.3	89.5			2.45
	Etridiazole	64.7	70.4	57.6			19.9
	Fenamiphos	95.5	73.8	73.2			0.825
	Fenbuconazole	98.4	98.8	88.1			11.4
	Fenpropathrin	93.6	61.7	75.9			20.6
	Fipronil	74.4	107	72.3			29.7
	Fipronil Desulfinyl	68.7	57.9	99.4			32.8
	Fipronil Sulfide	61.1	76.0	71.9			3.03
	Fipronil Sulfone	77.2					15.2
	Fluazifop-P-butyl	85.5	92.0	83.1			10.2
	Fludioxonil	94.5	94.4	97.7			3.42
	Flumioxazin	83.1	86.1	96.6			9.71
	Flutolanil	97.0	94.5	94.0			0.574
	Fluxapyroxad	97.6	96.7	78.1			18.4
	Fonofos	74.9	84.3	87.4			3.67
	Gamma-BHC	88.7	76.9	86.3			11.6
	Gamma-Chlordane	101	63.0	67.0			6.26
	Heptachlor	72.7	47.3	56.6			18.0
	Heptachlor Epoxide	84.8	50.3	60.8			18.9
	Hexabromobenzene	49.4	62.3	75.1			18.6
	Hexachlorobenzene	89.3	61.5	68.6			10.9
	Hexazinone	94.1	93.4	88.3			4.64
	Imazalil	86.8	94.8	85.4			10.4
	Iprodione	110	120	94.8			23.1
	Kepone	149	139	113			20.3
	Lambda-Cyhalothrin	115	98.3	111			11.9
	Loratadine	162	166	173			4.13
	Malathion	101	99.7	104			3.97
	Metalaxyl	81.3	82.9	80.4			3.05
	Methoprene	84.8	53.3	60.1			12.0
	Methoxychlor	95.8	74.2	81.7			9.65
	Metolachlor	91.1					4.13
	Metribuzin	68.6	93.7	87.4			6.97

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Mevinphos	83.0	92.8	95.3			2.70
	MGK-264	88.2	53.4	62.3			15.4
	Mirex	83.4	46.2	58.6			23.7
	Molinate	57.0	59.6	63.5			6.19
	Myclobutanil	80.5	93.4	86.7			4.63
	Naled	78.3	83.8	77.7			7.57
	Napropamide	87.8	101	82.3			20.7
	Norflurazon	111	104	79.5			26.9
	Octinoxate	76.8	78.6	81.6			3.84
	Oxadiazon	71.7	76.0	71.8			4.86
	Oxybenzone	87.1	88.1	95.9			8.50
	Oxychlordane	84.3	61.9	73.6			17.2
	Oxyfluorfen	112	112	112			0.402
	Parathion Ethyl	92.5	106	97.1			9.13
	Parathion Methyl	95.5	83.8	99.4			17.1
	PBB-153	70.7	81.0	73.8			9.27
	PBDE-47	75.0	81.3	70.3			14.6
	PBDE-99	77.9	83.8	72.6			14.4
	PCB-1016	78.8	71.1	66.6			6.52
	PCB-1260	62.7	59.9	56.6			5.64
	Pendimethalin	91.8	109	100			8.28
	Pentabromotoluene	68.4	72.5	74.7			2.92
	Permethrin	91.7	84.9	101			17.0
	Phenothrin	91.7	68.7	68.5			0.253
	Phenytoin	39.5	82.8	54.4			41.4
	Phorate	81.8	89.1	91.8			2.99
	Piperonyl Butoxide	114	106	102			4.06
	Prallethrin	91.2	53.6	56.5			5.36
	Prodiamine	39.3	70.6	65.6			5.62
	Prometon	93.0	118	110			6.42
	Prometryn	95.6	105	121			13.9
	Pronamide	108	110	99.0			10.4
	Propanil	110	118	100			16.0
	Propargite	86.7	88.9	61.3			36.8
	Propiconazole	85.7	96.4	91.0			3.15
	Pyraflufen Ethyl	91.8	87.2	79.8			8.81
	Pyridaben	138	151	143			5.57
	Pyriproxyfen	95.4	95.5	71.4			29.0
	Simazine	93.7					1.93
	Stirophos	104	114	90.4			23.4
	Sulfentrazone	61.4					11.0
	Tau-Fluvalinate	92.3	106	113			6.59
	Tebuconazole	81.4	97.3	60.4			46.7
	Terbufos	81.3	85.5	92.6			8.00
	Terbuthylazine	74.0	79.3	81.9			3.23
	Tetradecachloro-m-terphenyl	58.1	66.4	62.7			5.68
	Tetramethrin	100	69.0	74.4			7.53
	Thiobencarb	102	98.6	89.5			9.68
	Trans-Nonachlor	100	61.4	66.6			8.07
	Tri-o-cresyl Phosphate	74.3	102	76.8			28.2
	Triadimefon	94.9	91.5	80.1			12.0
	Triclosan Methyl	86.0	51.3	62.7			20.2
	Trifluralin	90.3	58.0	66.9			14.3

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Tris(1-chloro-2-propyl) phosphate (TCPP)	73.8	88.3	72.4			16.6
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	73.8	97.9	75.1			24.7
	Tris(2-chloroethyl) phosphate (TCEP)	79.8	105	86.9			19.0
EPA 8276	Chlordane	83.1	81.1	70.6			13.9
	Toxaphene	89.0	86.2	76.9			11.4
EPA 8321B	2,4-D	106	100	115			14.1
	2,4,5-T	93.0	78.3	89.3			13.2
	3-Hydroxycarbofuran	55.2	68.6	60.5			12.4
	Acesulfame K	100	101	102			0.851
	Acetaminophen	80.4	76.2	79.2			2.86
	Acetamiprid	84.2	84.5	93.7			10.4
	Afidopyropen	68.3	84.3	85.6			1.55
	Aldicarb	47.5	46.3	50.1			7.85
	Aldicarb Sulfone	80.2	59.6	60.8			2.03
	Aldicarb Sulfoxide	103	26.7	25.7			3.82
	AMPA	98.6	91.1	90.1			1.05
	Bentazon	115	98.3	113			14.2
	Benzovindiflupyr	89.9	86.1	94.7			9.58
	Carbamazepine	81.9	78.1	82.9			5.90
	Carbaryl	77.6	65.2	58.2			10.6
	Carbofuran	73.7	56.3	56.6			0.557
	Clothianidin	96.6	86.2	100			15.2
	Dinotefuran	101	94.3	99.4			5.26
	Diuron	78.6	84.8	82.2			3.16
	Endothall	86.1	88.5	85.1			3.90
	Fenuron	96.1	85.0	96.7			12.8
	Fluridone	89.2	87.4	99.1			12.5
	Glufosinate	87.7	95.0	97.3			2.32
	Glyphosate	97.9	93.8	98.8			5.18
	Hydrocodone	88.9	87.3	95.2			8.61
	Ibuprofen	99.3	57.8	51.0			12.5
	Imazapyr	104	102	105			2.68
	Imidacloprid	94.8	85.9	98.3			13.5
	Linuron	74.7	77.6	92.8			17.8
	Mandestrobin	96.4	90.2	96.9			7.13
	MCPP	99.3	92.3	95.0			2.91
	Methiocarb	72.9	81.8	68.7			17.4
	Methomyl	81.8	61.7	61.5			0.184
	Naproxen	71.5	74.6	78.1			4.64
	Oxamyl	84.5	65.9	65.9			0.0519
	Primidone	96.8	82.4	91.5			10.5
	Propoxur	60.6	48.1	41.5			14.6
	Pyraclostrobin	91.5	86.8	95.9			9.95
	Silvex	103	96.2	102			6.09
	Sucralose	100	99.2	101			2.05
	Thiamethoxam	97.9	90.3	96.8			6.95
	Tolfenpyrad	57.4	53.9	60.9			12.2
	Triclopyr	102	84.2	86.7			2.93
SM 2320 B-2011	Total Alkalinity	98.1				2.50	
SM 2540 C-2015	TDS	94.8				0.587	
SM 2540 D-2015	TSS	102					

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 4500-F- C-2011	Fluoride	97.1	98.8	98.8			0.0
SM 5310 B-2014	Organic Carbon	99.9					1.02
	Organic Carbon	100	97.5	98.8			1.34

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2475962, 2475963, 2475966, 2475968
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2475962, 2475963, 2475966, 2475968
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2475962, 2475963, 2475966, 2475968
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2475962, 2475963, 2475966, 2475968
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2475964, 2475965, 2475967, 2475969
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2475964, 2475965, 2475967, 2475969
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2475964, 2475965, 2475967, 2475969
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2475964, 2475965, 2475967, 2475969
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2475989
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2475987, 2475988
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2475989
EPA 8270E	PCBs in water matrices by GC/MS/MS	2475987, 2475988
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2475987, 2475988
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2475980
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2475981, 2475982
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2475962, 2475963, 2475966, 2475968
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2475962, 2475963, 2475966, 2475968
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2475962, 2475963, 2475966, 2475968
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2475962, 2475963, 2475966, 2475968
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2475964, 2475965, 2475967, 2475969

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	03/15/2024			03/15/2024 14:30	Samantha L Bates	2475962
	03/15/2024			03/15/2024 14:31	Samantha L Bates	2475966, 2475968
	03/15/2024			03/15/2024 15:27	Samantha L Bates	2475963
EPA 180.1 Rev. 2.0	03/15/2024			03/15/2024 13:55	Khloe J Berg	2475962
	03/15/2024			03/15/2024 13:59	Khloe J Berg	2475963
	03/15/2024			03/15/2024 14:01	Khloe J Berg	2475966
	03/15/2024			03/15/2024 14:02	Khloe J Berg	2475968
EPA 300.0 Rev. 2.1	03/15/2024			03/26/2024 10:53	Samantha L Bates	2475962
	03/15/2024			03/26/2024 11:09	Samantha L Bates	2475963
	03/15/2024			03/26/2024 11:24	Samantha L Bates	2475966
	03/15/2024			03/26/2024 14:10	Samantha L Bates	2475968
EPA 350.1 Rev. 2.0	03/15/2024			03/21/2024 13:51	Khloe J Berg	2475964
	03/15/2024			03/21/2024 14:10	Khloe J Berg	2475969
	03/15/2024			03/21/2024 14:56	Khloe J Berg	2475965
	03/15/2024			03/21/2024 14:58	Khloe J Berg	2475967
EPA 351.2 Rev. 2.0	03/15/2024	03/18/2024 12:02	Simonne.V. Calhoun	03/20/2024 11:41	Samantha L Bates	2475964
	03/15/2024	03/18/2024 12:02	Simonne.V. Calhoun	03/20/2024 11:46	Samantha L Bates	2475965
	03/15/2024	03/18/2024 12:02	Simonne.V. Calhoun	03/20/2024 11:47	Samantha L Bates	2475967
	03/15/2024	03/18/2024 12:02	Simonne.V. Calhoun	03/20/2024 11:52	Samantha L Bates	2475969
EPA 353.2 Rev. 2.0	03/15/2024			03/19/2024 15:30	Fadila Guebre	2475964
	03/15/2024			03/19/2024 15:31	Fadila Guebre	2475965
	03/15/2024			03/19/2024 15:32	Fadila Guebre	2475967
	03/15/2024			03/19/2024 15:34	Fadila Guebre	2475969
EPA 365.1 Rev. 2.0	03/15/2024	03/21/2024 15:05	Josephine W Gitau	03/22/2024 11:28	Elise M. Gillis	2475965
	03/15/2024	03/21/2024 15:05	Josephine W Gitau	03/22/2024 11:37	Elise M. Gillis	2475964
	03/15/2024	03/21/2024 15:05	Josephine W Gitau	03/22/2024 16:25	Elise M. Gillis	2475969
	03/15/2024	03/22/2024 13:06	Josephine W Gitau	03/24/2024 14:16	James L Waggerby	2475967
EPA 8270E	03/15/2024	03/18/2024 07:00	Rasheda Ghaffari	03/21/2024 20:28	Julie Wi	2475989
	03/15/2024	03/18/2024 07:00	Rasheda Ghaffari	03/24/2024 03:48	Arthur Maknenko	2475989
	03/15/2024	03/21/2024 07:57	Rasheda Ghaffari	03/23/2024 04:43	Kenedi Mills	2475987
	03/15/2024	03/21/2024 07:57	Rasheda Ghaffari	03/23/2024 05:15	Kenedi Mills	2475988
	03/15/2024	03/21/2024 07:57	Rasheda Ghaffari	03/26/2024 06:57	Kenedi Mills	2475987
	03/15/2024	03/21/2024 07:57	Rasheda Ghaffari	03/26/2024 07:27	Kenedi Mills	2475988
EPA 8276	03/15/2024	03/21/2024 07:57	Rasheda Ghaffari	03/24/2024 18:25	Arthur Maknenko	2475987
	03/15/2024	03/21/2024 07:57	Rasheda Ghaffari	03/24/2024 19:20	Arthur Maknenko	2475988
EPA 8321B	03/15/2024	03/15/2024 13:00	Hoor Shaik	03/16/2024 02:54	Juyoung Kim	2475981
	03/15/2024	03/15/2024 13:00	Hoor Shaik	03/16/2024 03:12	Juyoung Kim	2475982
	03/15/2024	03/15/2024 13:00	Hoor Shaik	03/21/2024 11:35	Juyoung Kim	2475981
	03/15/2024	03/15/2024 13:50	Hana Lee	03/15/2024 20:48	Hana Lee	2475981
	03/15/2024	03/15/2024 13:50	Hana Lee	03/15/2024 21:02	Hana Lee	2475982

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	03/15/2024	03/15/2024 13:50	Hana Lee	03/18/2024 15:53	Hana Lee	2475981
	03/15/2024	03/15/2024 13:50	Hana Lee	03/18/2024 16:07	Hana Lee	2475982
	03/15/2024	03/19/2024 09:00	Hoor Shaik	03/21/2024 01:44	Juyoung Kim	2475980
SM 2320 B-2011	03/15/2024			03/20/2024 01:47	Dale L. Simmons	2475962
	03/15/2024			03/20/2024 02:01	Dale L. Simmons	2475966
	03/15/2024			03/20/2024 02:10	Dale L. Simmons	2475968
	03/15/2024			03/20/2024 03:46	Dale L. Simmons	2475963
SM 2540 C-2015	03/15/2024			03/19/2024 14:07	Yijie Li	2475962, 2475963, 2475966, 2475968
SM 2540 D-2015	03/15/2024			03/19/2024 14:07	Yijie Li	2475962, 2475963, 2475966, 2475968
SM 4500-F- C-2011	03/15/2024			03/20/2024 01:47	Dale L. Simmons	2475962
	03/15/2024			03/20/2024 02:01	Dale L. Simmons	2475966
	03/15/2024			03/20/2024 02:10	Dale L. Simmons	2475968
	03/15/2024			03/20/2024 03:46	Dale L. Simmons	2475963
SM 5310 B-2014	03/15/2024			03/20/2024 12:04	Jessica K Wilks	2475964
	03/15/2024			03/20/2024 12:19	Jessica K Wilks	2475965
	03/15/2024			03/20/2024 12:34	Jessica K Wilks	2475967
	03/15/2024			03/27/2024 01:13	Jessica K Wilks	2475969