Chemical Analysis Report

NE-DIST-2023-06-14-02

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

Event Description: **LSJR North 2023**
Request ID: **RQ-2023-06-12-09**
Customer: **NE-DIST**
Project ID: **SMP**

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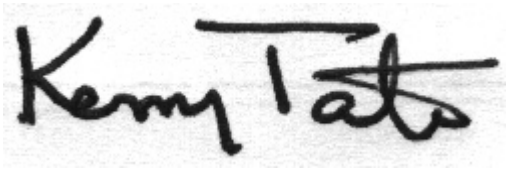
Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 19-JUL-2023 09:11



NON-CONFORMANCE REPORT INCLUDED

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: TRIBUTARY TO TROUT AT BESSENT RD **Collection Date/Time: 06/13/2023 09:10**

Field ID: G2NE1207 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417339	EPA 8321B	Aldicarb	0.020	U	ug/L	P431332	
		Aldicarb Sulfone	0.0020	U	ug/L	P431332	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P431332	MS
		Carbaryl	0.0020	U	ug/L	P431332	
		Carbofuran	0.0020	U	ug/L	P431332	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P431332	
		Methiocarb	0.0020	U	ug/L	P431332	
		Methomyl	0.0020	U	ug/L	P431332	
		Oxamyl	0.0020	U	ug/L	P431332	
		Propoxur	0.0020	U	ug/L	P431332	
2417340		Acesulfame K	0.10	U	ug/L	P431248	
		2,4-D	0.038		ug/L	P431299	
		AMPA	1.0	U	ug/L	P431248	
		2,4,5-T	0.0040	U	ug/L	P431299	
		Acetaminophen	0.0080	U	ug/L	P431299	
		Endothall	0.25	U	ug/L	P431248	
		Acetamiprid	0.0020	U	ug/L	P431299	
		Glufosinate	1.0	U	ug/L	P431248	
		Glyphosate	1.0	U	ug/L	P431248	
		Afidopyropen	0.0020	U	ug/L	P431299	
		Sucralose	0.43		ug/L	P431248	
		Bentazon	0.048		ug/L	P431299	
		Benzovindiflupyr	0.0020	U	ug/L	P431299	
		Carbamazepine	8.0E-04	U	ug/L	P431299	
		Clothianidin	0.025		ug/L	P431299	
		Dinotefuran	0.0020	U	ug/L	P431299	
		Diuron	0.027		ug/L	P431299	RPD
		Fenuron	0.032	U	ug/L	P431299	
		Fluridone	0.011		ug/L	P431299	
		Imazapyr	0.54		ug/L	P431299	
		Hydrocodone	0.0020	U	ug/L	P431299	
		Ibuprofen	0.080	U	ug/L	P431299	
		Imidacloprid	0.012		ug/L	P431299	
		Linuron	0.0040	U	ug/L	P431299	
		Mandestrobin	0.0020	U	ug/L	P431299	
		MCPP	0.0056	I	ug/L	P431299	
		Naproxen	0.0080	U	ug/L	P431299	
		Primidone	0.0040	U	ug/L	P431299	
		Pyraclostrobin	0.0020	U	ug/L	P431299	
		Silvex	0.0040	U	ug/L	P431299	
		Thiamethoxam	0.0020	U	ug/L	P431299	
		Tolfenpyrad	0.0020	U	ug/L	P431299	
		Triclopyr	0.0040	U	ug/L	P431299	
2417341	EPA 8270E	Aldrin	0.67	U	ng/L	P431247	

Field ID: G2NE1207 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417341	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P431247	
		Alpha-Chlordane	0.21	U	ng/L	P431247	
		PCB-1016	2.1	U	ng/L	P431247	
		Beta-BHC	0.10	U	ng/L	P431247	
		PCB-1221	2.1	U	ng/L	P431247	
		Beta-Cyfluthrin	1.3	U	ng/L	P431247	
		PCB-1232	2.1	U	ng/L	P431247	
		Bifenthrin	0.51	U	ng/L	P431247	
		PCB-1242	2.1	U	ng/L	P431247	
		PCB-1248	2.1	U	ng/L	P431247	
		Chlorothalonil	3.7	U	ng/L	P431247	
		PCB-1254	2.1	U	ng/L	P431247	
		Cis-Nonachlor	0.21	U	ng/L	P431247	
		PCB-1260	2.1	U	ng/L	P431247	
		Cypermethrin	1.5	U	ng/L	P431247	
		Dacthal	0.15	UJ	ng/L	P431247	LCS
		DDD-p,p'	0.26	U	ng/L	P431247	
		DDE-p,p'	0.21	U	ng/L	P431247	
		DDT-p,p'	0.26	U	ng/L	P431247	
		Delta-BHC	0.41	U	ng/L	P431247	
		Deltamethrin	1.3	U	ng/L	P431247	
		Dichlobenil	0.26	U	ng/L	P431247	
		Dicofol	1.3	U	ng/L	P431247	
		Dieldrin	0.41	U	ng/L	P431247	
		Endosulfan I	0.41	U	ng/L	P431247	
		Endosulfan II	0.41	U	ng/L	P431247	
		Endosulfan Sulfate	0.31	U	ng/L	P431247	
		Endrin	0.41	U	ng/L	P431247	
		Endrin Aldehyde	0.77	U	ng/L	P431247	
		Endrin Ketone	0.41	U	ng/L	P431247	
		Esfenvalerate	0.77	U	ng/L	P431247	
		Ethalfluralin	0.15	U	ng/L	P431247	
		Fenpropathrin	0.26	U	ng/L	P431247	
		Gamma-BHC	0.13	U	ng/L	P431247	RPD
		Gamma-Chlordane	0.21	U	ng/L	P431247	
		Heptachlor	0.21	U	ng/L	P431247	
		Heptachlor Epoxide	0.26	U	ng/L	P431247	
		Hexachlorobenzene**	1.0	U	ng/L	P431247	
		Kepone	5.1	U	ng/L	P431247	
		Lambda-Cyhalothrin	0.77	U	ng/L	P431247	
		Methoprene	0.77	U	ng/L	P431247	
		Methoxychlor	0.31	U	ng/L	P431247	
		MGK-264	0.21	U	ng/L	P431247	
		Mirex	0.36	U	ng/L	P431247	
		Oxychlordane	0.31	U	ng/L	P431247	

Field ID: G2NE1207 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417341	EPA 8270E	Permethrin	1.6	U	ng/L	P431247	
		Phenothrin	0.92	U	ng/L	P431247	
		Piperonyl Butoxide	0.63	I	ng/L	P431247	
		Prallethrin	2.1	U	ng/L	P431247	
		Tau-Fluvalinate	0.26	U	ng/L	P431247	
		Tetramethrin	0.77	U	ng/L	P431247	
		Trans-Nonachlor	0.21	U	ng/L	P431247	RPD
		Triclosan Methyl	0.15	U	ng/L	P431247	
		Trifluralin	0.21	U	ng/L	P431247	
	EPA 8276	Chlordane	2.1	UJ	ng/L	P431247	LCS, MS
		Toxaphene	15	U	ng/L	P431247	
2417342	EPA 8270E	Oxybenzone**	10	UQ	ng/L	P432051	
		Acetochlor	0.20	UQ	ng/L	P432051	
		Octinoxate**	150	UQ	ng/L	P432051	
		Alachlor	0.41	UQ	ng/L	P432051	
		Avobenzone**	100	UQ	ng/L	P432051	
		Ametryn	2.1	IQ	ng/L	P432051	
		Atrazine	120	Q	ng/L	P432051	
		PBDE-47**	4.1	UQ	ng/L	P432051	
		Atrazine Desethyl	19	Q	ng/L	P432051	
		PBDE-99**	5.1	UQ	ng/L	P432051	
		Azinphos Methyl	3.1	UQ	ng/L	P432051	
		Tri-o-cresyl Phosphate**	6.1	UQ	ng/L	P432051	
		Azoxystrobin	2.5	Q	ng/L	P432051	
		Bromacil	0.61	UQ	ng/L	P432051	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	UQ	ng/L	P432051	
		Butylate	0.20	UQ	ng/L	P432051	
		Dechlorane Plus**	31	UQ	ng/L	P432051	
		Caffeine**	38	Q	ng/L	P432051	MS
		Dechlorane 602**	5.1	UQ	ng/L	P432051	
		Carbophenothion	0.51	UQ	ng/L	P432051	
		Dechlorane 603**	4.1	UQ	ng/L	P432051	
		Carfentrazone Ethyl	0.15	UQ	ng/L	P432051	
		Hexabromobenzene**	6.1	UQ	ng/L	P432051	RPD
		Chlorfenapyr	0.31	UQ	ng/L	P432051	
		PBB-153**	8.2	UQ	ng/L	P432051	
		Chlorpyrifos Ethyl	0.31	UQ	ng/L	P432051	
		Pentabromotoluene**	3.1	UQ	ng/L	P432051	
		Chlorpyrifos Methyl	0.10	UQ	ng/L	P432051	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	UQ	ng/L	P432051	
		Coumaphos	1.1	UQ	ng/L	P432051	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	79	Q	ng/L	P432051	
		Cyanazine	5.1	UQ	ng/L	P432051	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	10	Q	ng/L	P432051	

Field ID: G2NE1207 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417342	EPA 8270E	Cyprodinil	0.20	UQ	ng/L	P432051	
		Tetradecachloro-m-terphenyl**	7.7	UQ	ng/L	P432051	
		Demeton	3.6	UQ	ng/L	P432051	
		Diazinon	0.13	UQ	ng/L	P432051	RPD
		Difenoconazole	0.61	UQ	ng/L	P432051	
		Dimethenamid	0.10	UQ	ng/L	P432051	
		Dimethomorph	0.31	UQ	ng/L	P432051	MS
		Disulfoton	0.61	UQ	ng/L	P432051	
		Dithiopyr	1.0	UQ	ng/L	P432051	RPD
		EPTC	0.51	UQ	ng/L	P432051	
		Ethion	0.31	UQ	ng/L	P432051	
		Ethoprop	0.13	UQ	ng/L	P432051	
		Etridiazole	0.10	UQ	ng/L	P432051	
		Fenamiphos	0.46	UQ	ng/L	P432051	
		Fenbuconazole	0.51	UQJ	ng/L	P432051	LCS
		Fipronil	4.3	Q	ng/L	P432051	
		Fipronil Desulfinyl**	1.6	Q	ng/L	P432051	
		Fipronil Sulfide	0.85	Q	ng/L	P432051	
		Fipronil Sulfone	2.5	Q	ng/L	P432051	
		Fluazifop-P-butyl	0.10	UQJ	ng/L	P432051	LCS, MS
		Fludioxonil	0.10	UQ	ng/L	P432051	
		Flumioxazin	17	Q	ng/L	P432051	
		Flutolanil	0.10	UQ	ng/L	P432051	
		Fluxapyroxad	0.26	UQ	ng/L	P432051	
		Fonofos	0.15	UQ	ng/L	P432051	RPD
		Hexazinone	0.51	UQ	ng/L	P432051	
		Imazalil	0.67	UQ	ng/L	P432051	
		Iprodione	0.51	UQ	ng/L	P432051	
		Loratadine**	0.31	UQ	ng/L	P432051	
		Malathion	0.36	UQ	ng/L	P432051	
		Metalaxyl	3.4	Q	ng/L	P432051	
		Metolachlor	8.2	Q	ng/L	P432051	
		Metribuzin	0.80	IQ	ng/L	P432051	
		Mevinphos	1.0	UQ	ng/L	P432051	
		Molinate	0.26	UQ	ng/L	P432051	
		Myclobutanil	0.38	IQ	ng/L	P432051	
		Naled	2.6	UQ	ng/L	P432051	
		Napropamide	0.72	UQ	ng/L	P432051	
		Norflurazon	1.0	UQ	ng/L	P432051	
		Oxadiazon	0.69	IQ	ng/L	P432051	
		Oxyfluorfen	0.20	UQ	ng/L	P432051	
		Parathion Ethyl	0.15	UQ	ng/L	P432051	
		Parathion Methyl	0.20	UQ	ng/L	P432051	
		Pendimethalin	0.77	UQ	ng/L	P432051	
		Phenytoin**	5.4	UQ	ng/L	P432051	

Field ID: G2NE1207 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417342	EPA 8270E	Phorate	0.26	UQ	ng/L	P432051	
		Prodiamine	0.20	UQ	ng/L	P432051	MS
		Prometon	4.6	IQ	ng/L	P432051	
		Prometryn	0.36	UQ	ng/L	P432051	
		Pronamide	0.10	UQ	ng/L	P432051	
		Propanil	0.10	UQ	ng/L	P432051	
		Propargite	0.82	UQ	ng/L	P432051	
		Propiconazole	4.0	Q	ng/L	P432051	
		Pyraflufen Ethyl	0.31	UQ	ng/L	P432051	
		Pyridaben	1.4	UQ	ng/L	P432051	
		Pyriproxyfen	0.26	UQ	ng/L	P432051	
		Simazine	3.8	Q	ng/L	P432051	
		Stirophos	0.41	UQ	ng/L	P432051	
		Sulfentrazone	4.8	IQ	ng/L	P432051	
		Tebuconazole	2.2	IQ	ng/L	P432051	
		Terbufos	0.20	UQ	ng/L	P432051	
		Terbuthylazine	3.7	Q	ng/L	P432051	
		Thiobencarb	0.51	UQ	ng/L	P432051	
		Triadimefon	0.15	UQ	ng/L	P432051	

Ref. Method and Comment:
EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Sample expired due to login error; see NCR 9950.
EPA 8270E: Sample expired due to login error; see NCR 9950. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: TRIBUTARY TO TROUT AT CAPPER RD **Collection Date/Time: 06/13/2023 09:30**

Field ID: G2NE1208 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417323	DEP SOP: NU-094-1	Color (true)	100	A	PCU	P431284	
	EPA 180.1 Rev. 2.0	Turbidity	4.0	A	NTU	P431281	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P431532	
		Sulfate	10		mg SO4/L	P431535	
	SM 2320 B-2011	Total Alkalinity	54		mg CaCO3/L	P431568	
	SM 2540 C-2015	TDS	126		mg/L	P431655	
	SM 2540 D-2015	TSS	2	U	mg/L	P431521	
	SM 4500-F- C-2011	Fluoride	0.091	I	mg F/L	P431571	
2417324	EPA 350.1 Rev. 2.0	Ammonia-N	0.092		mg N/L	P431489	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.57		mg N/L	P431537	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.098		mg N/L	P431473	
	EPA 365.1 Rev. 2.0	Total-P	0.19		mg P/L	P431382	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P431573	
2417338	EPA 8321B	2,4-D	0.011		ug/L	P431299	
		Acesulfame K	0.12	I	ug/L	P431248	
		2,4,5-T	0.0040	U	ug/L	P431299	
		AMPA	0.11	I	ug/L	P431248	
		Acetaminophen	0.0080	U	ug/L	P431299	
		Acetamiprid	0.0020	U	ug/L	P431299	
		Endothall	0.25	U	ug/L	P431248	
		Glufosinate	0.10	U	ug/L	P431248	
		Glyphosate	0.23	I	ug/L	P431248	
		Afidopyropen	0.0020	U	ug/L	P431299	
		Bentazon	0.068		ug/L	P431299	
		Sucralose	0.29		ug/L	P431248	
		Benzovindiflupyr	0.0020	U	ug/L	P431299	
		Carbamazepine	8.8E-04	I	ug/L	P431299	
		Clothianidin	0.040		ug/L	P431299	
		Dinotefuran	0.0020	U	ug/L	P431299	
		Diuron	0.0020	U	ug/L	P431299	RPD
		Fenuron	0.032	U	ug/L	P431299	
		Fluridone	0.011		ug/L	P431299	
		Imazapyr	0.25		ug/L	P431299	
		Hydrocodone	0.0020	U	ug/L	P431299	
		Ibuprofen	0.080	U	ug/L	P431299	
		Imidacloprid	0.0086		ug/L	P431299	
		Linuron	0.0040	U	ug/L	P431299	
		Mandestrobin	0.0020	U	ug/L	P431299	
		MCPP	0.0051	I	ug/L	P431299	
		Naproxen	0.0080	U	ug/L	P431299	
		Primidone	0.0040	U	ug/L	P431299	
		Pyraclostrobin	0.0020	U	ug/L	P431299	
		Silvex	0.0040	U	ug/L	P431299	
		Thiamethoxam	0.0020	U	ug/L	P431299	

Field ID: G2NE1208 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417338	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P431299	
		Triclopyr	0.0040	U	ug/L	P431299	

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-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: LITTLE TROUT RIVER AT OLD KINGS RD **Collection Date/Time: 06/13/2023 10:15**

Field ID: 20030739 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417321	DEP SOP: NU-094-1	Color (true)	120		PCU	P431283	
	EPA 180.1 Rev. 2.0	Turbidity	5.5		NTU	P431280	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P431532	
		Sulfate	7.0		mg SO4/L	P431535	
	SM 2320 B-2011	Total Alkalinity	34		mg CaCO3/L	P431568	
	SM 2540 C-2015	TDS	91		mg/L	P431655	
	SM 2540 D-2015	TSS	3	I	mg/L	P431521	
	SM 4500-F- C-2011	Fluoride	0.065	I	mg F/L	P431571	
2417322	EPA 350.1 Rev. 2.0	Ammonia-N	0.045		mg N/L	P431489	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P431537	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.060		mg N/L	P431473	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P431382	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P431573	
2417337	EPA 8321B	2,4-D	0.018		ug/L	P431299	
		Acesulfame K	0.10	U	ug/L	P431248	
		2,4,5-T	0.0040	U	ug/L	P431299	
		AMPA	0.86		ug/L	P431248	
		Acetaminophen	0.092		ug/L	P431299	
		Acetamiprid	0.0020	U	ug/L	P431299	
		Endothall	0.25	U	ug/L	P431248	
		Glufosinate	0.10	U	ug/L	P431248	
		Glyphosate	2.1		ug/L	P431248	
		Afidopyropen	0.0020	U	ug/L	P431299	
		Bentazon	8.0E-04	U	ug/L	P431299	
		Sucralose	0.080		ug/L	P431248	
		Benzovindiflupyr	0.0020	U	ug/L	P431299	
		Carbamazepine	8.0E-04	U	ug/L	P431299	
		Clothianidin	0.0020	U	ug/L	P431299	
		Dinotefuran	0.0020	U	ug/L	P431299	
		Diuron	1.7		ug/L	P431299	RPD
		Fenuron	0.032	U	ug/L	P431299	
		Fluridone	0.0014	I	ug/L	P431299	
		Imazapyr	0.0040	U	ug/L	P431299	
		Hydrocodone	0.0020	U	ug/L	P431299	
		Ibuprofen	0.080	U	ug/L	P431299	
		Imidacloprid	0.0020	I	ug/L	P431299	
		Linuron	0.0040	U	ug/L	P431299	
		Mandestrobin	0.0020	U	ug/L	P431299	
		MCPP	0.0020	U	ug/L	P431299	
		Naproxen	0.0080	U	ug/L	P431299	
		Primidone	0.0040	U	ug/L	P431299	
		Pyraclostrobin	0.0020	U	ug/L	P431299	
		Silvex	0.0040	U	ug/L	P431299	
		Thiamethoxam	0.0020	U	ug/L	P431299	

Field ID: 20030739 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417337	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P431299	
		Triclopyr	0.0040	U	ug/L	P431299	

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-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: LITTLE SIXMILE CR AT PICKETTVILE RD **Collection Date/Time: 06/13/2023 10:50**

Field ID: 20030011 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417325	DEP SOP: NU-094-1	Color (true)	59		PCU	P431284	
	EPA 180.1 Rev. 2.0	Turbidity	7.7		NTU	P431281	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P431532	
		Sulfate	21		mg SO4/L	P431535	
	SM 2320 B-2011	Total Alkalinity	98		mg CaCO3/L	P431568	
	SM 2540 C-2015	TDS	170	A	mg/L	P431655	
	SM 2540 D-2015	TSS	3	I A	mg/L	P431521	
	SM 4500-F- C-2011	Fluoride	0.15		mg F/L	P431571	
2417326	EPA 350.1 Rev. 2.0	Ammonia-N	0.12		mg N/L	P431489	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.66		mg N/L	P431538	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.084		mg N/L	P431473	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P431382	
	SM 5310 B-2011	Organic Carbon	9.4		mg C/L	P431573	

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-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Non-Conformance Report

NCR ID: 9950

Event(s)	Job(s)	Sample(s)	Test(s)
NE-DIST-2023-06-14-02	TLH-2023-06-14-78	2417342	

NCR Type: SHIPPING/RECEIVING **NCR Category: Samples arrived late**

Observation: Sample incorrectly canceled during the login proccess, sample was not ran within acceptable hold-time.

Resolution: Sample will be qualified as appropriate.
Customer contacted, email correspondence attached to sample submittal forms.

Authorized by/Date: Kyle Klug 7/5/2023

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P431283

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P431284

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431280

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431281

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431532

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431535

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431489

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431537

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431538

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431473

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431382

Component	Result	Code	Units
Total-P	0.010	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P431247

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P431247

Component	Result	Code	Units
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P431247

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

Reference Method: EPA 8270E
Batch ID: P432051

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432051

Component	Result	Code	Units
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432051

Component	Result	Code	Units
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432051

Component	Result	Code	Units
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432051

Component	Result	Code	Units
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8276
Batch ID: P431247

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

Reference Method: EPA 8321B
Batch ID: P431248

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: P431299

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P431299

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

Reference Method: EPA 8321B
Batch ID: P431332

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: P431568

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

Reference Method: SM 2540 C-2015
Batch ID: P431655

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P431521

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431571

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P431573

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: P431283

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P431284

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.6		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431280

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431281

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431532

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431535

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431537

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431538

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431473

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	105		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431382

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

Reference Method: EPA 8270E
Batch ID: P431247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	44.0		P	10 - 92.0
Alpha-BHC	75.4		P	75 - 107
Alpha-Chlordane	60.4		P	50 - 108
Beta-BHC	82.7		P	36 - 138
Beta-Cyfluthrin	66.9		P	20 - 161
Bifenthrin	62.4		P	10 - 119
Chlorothalonil	91.0		P	26 - 186
Cis-Nonachlor	50.6		P	42 - 119
Cypermethrin	66.2		P	22 - 150
Dacthal	70.3		F	72 - 119
DDD-p,p'	62.5		P	45 - 107
DDE-p,p'	60.8		P	48 - 106
DDT-p,p'	61.4		P	48 - 110
Delta-BHC	96.8		P	54 - 140
Deltamethrin	82.8		P	22 - 189
Dichlobenil	73.5		P	36 - 117
Dicofol	62.5		P	46 - 155
Dieldrin	57.1		P	54 - 110
Endosulfan I	62.8		P	59 - 105
Endosulfan II	55.3		P	51 - 118
Endosulfan Sulfate	57.7		P	57 - 121
Endrin	57.6		P	10 - 120
Endrin Aldehyde	59.3		P	34 - 118
Endrin Ketone	77.3		P	69 - 177
Esfenvalerate	91.8		P	23 - 168
Ethalfluralin	59.6		P	49 - 99.0
Fenpropathrin	61.3		P	34 - 117
Gamma-BHC	80.4		P	72 - 117
Gamma-Chlordane	63.0		P	43 - 106
Heptachlor	53.4		P	41 - 98.0
Heptachlor Epoxide	77.2		P	57 - 106
Hexachlorobenzene	51.9		P	36 - 99.0
Kepone	53.5		P	16 - 215
Lambda-Cyhalothrin	79.9		P	21 - 177
Methoprene	42.6		P	10 - 119
Methoxychlor	69.5		P	60 - 112
MGK-264	49.2		P	26 - 122
Mirex	59.2		P	10 - 169
Oxychlordane	53.2		P	43 - 105
PCB-1016	71.3		P	48 - 112

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P431247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PCB-1260	65.5		P	44 - 118
Permethrin	60.2		P	24 - 148
Phenothrin	79.0		P	10 - 106
Piperonyl Butoxide	75.7		P	10 - 139
Prallethrin	52.9		P	17 - 109
Tau-Fluvalinate	76.3		P	13 - 131
Tetramethrin	67.7		P	10 - 132
Trans-Nonachlor	56.2		P	44 - 106
Triclosan Methyl	69.8		P	59 - 109
Trifluralin	66.4		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P432051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	75.2		P	42 - 162
Acetochlor	88.0		P	69 - 123
Alachlor	67.3		P	65 - 118
Ametryn	140		P	58 - 141
Atrazine	89.2		P	73 - 118
Atrazine Desethyl	79.6		P	32 - 125
Avobenzone	92.9		P	40 - 203
Azinphos Methyl	85.4		P	36 - 197
Azoxystrobin	67.5		P	58 - 226
Bromacil	88.2		P	48 - 120
Butylate	49.4		P	27 - 85.0
Caffeine	103		P	40 - 137
Carbophenothion	96.9		P	54 - 132
Carfentrazone Ethyl	108		P	60 - 142
Chlorfenapyr	68.2		P	53 - 117
Chlorpyrifos Ethyl	82.3		P	59 - 116
Chlorpyrifos Methyl	83.8		P	66 - 119
Coumaphos	71.3		P	11 - 234
Cyanazine	120		P	61 - 248
Cyprodinil	65.6		P	50 - 147
Dechlorane 602	78.0		P	50 - 150
Dechlorane 603	94.1		P	50 - 150
Dechlorane Plus	91.9		P	47 - 182
Demeton	61.0		P	30 - 138
Diazinon	98.1		P	67 - 126
Difenoconazole	56.2		P	38 - 205
Dimethenamid	77.8		P	57 - 111
Dimethomorph	105		P	16 - 212
Disulfoton	95.0		P	46 - 126
Dithiopyr	92.4		P	62 - 115
EPTC	46.9		P	28 - 80.0
Ethion	88.4		P	24 - 122
Ethoprop	81.7		P	62 - 113
Etridiazole	62.7		P	28 - 92.0
Fenamiphos	78.4		P	57 - 128
Fenbuconazole	35.6		F	52 - 155
Fipronil	109		P	63 - 130

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P432051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fipronil Desulfinyl	91.7		P	61 - 130
Fipronil Sulfide	91.5		P	56 - 117
Fipronil Sulfone	98.2		P	52 - 118
Fluazifop-P-butyl	51.9		F	61 - 128
Fludioxonil	67.7		P	59 - 129
Flumioxazin	110		P	30 - 250
Flutolanil	67.0		P	53 - 127
Fluxapyroxad	91.7		P	42 - 132
Fonofos	75.3		P	61 - 110
Hexabromobenzene	92.0		P	50 - 150
Hexazinone	89.2		P	46 - 139
Imazalil	69.8		P	40 - 139
Iprodione	108		P	40 - 146
Loratadine	105		P	10 - 224
Malathion	125		P	61 - 135
Metalaxyl	97.7		P	58 - 121
Metolachlor	108		P	64 - 118
Metribuzin	82.2		P	45 - 245
Mevinphos	78.7		P	49 - 118
Molinate	56.0		P	42 - 92.0
Myclobutanil	85.7		P	55 - 127
Naled	27.6		P	10 - 114
Napropamide	88.8		P	39 - 121
Norflurazon	81.4		P	55 - 129
Octinoxate	93.3		P	26 - 166
Oxadiazon	82.0		P	54 - 115
Oxybenzone	95.8		P	49 - 135
Oxyfluorfen	101		P	64 - 139
Parathion Ethyl	86.5		P	70 - 111
Parathion Methyl	99.7		P	76 - 136
PBB-153	94.6		P	50 - 150
PBDE-47	94.2		P	41 - 148
PBDE-99	81.2		P	38 - 147
Pendimethalin	104		P	52 - 118
Pentabromotoluene	80.6		P	50 - 150
Phenytoin	63.1		P	10 - 162
Phorate	65.7		P	40 - 122
Prodiamine	37.3		P	26 - 141
Prometon	74.3		P	54 - 122
Prometryn	71.5		P	61 - 128
Pronamide	100		P	72 - 121
Propanil	112		P	45 - 144
Propargite	97.3		P	10 - 199
Propiconazole	72.4		P	56 - 127
Pyraflufen Ethyl	98.0		P	56 - 140
Pyridaben	67.1		P	26 - 211
Pyriproxyfen	73.2		P	33 - 194
Simazine	71.9		P	67 - 121
Stirophos	121		P	20 - 142
Sulfentrazone	75.6		P	21 - 144
Tebuconazole	79.7		P	10 - 122
Terbufos	95.2		P	60 - 129

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P432051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Terbuthylazine	81.6		P	69 - 113
Tetradecachloro-m-terphenyl	113		P	70 - 200
Thiobencarb	89.4		P	51 - 120
Tri-o-cresyl Phosphate	95.4		P	49 - 150
Triadimefon	93.7		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	102		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	89.3		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	98.7		P	70 - 180

Reference Method: EPA 8276
Batch ID: P431247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	59.2		F	61 - 116
Toxaphene	64.1		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P431248

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	135		P	40 - 150
AMPA	85.7		P	40 - 150
Endothall	102		P	40 - 150
Glufosinate	90.5		P	40 - 150
Glyphosate	93.6		P	40 - 150
Sucralose	110		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431299

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	106		P	40 - 150
2,4,5-T	94.0		P	40 - 150
Acetaminophen	49.1		P	30 - 150
Acetamiprid	79.2		P	40 - 150
Afidopyropen	62.2		P	30 - 150
Bentazon	110		P	30 - 150
Benzovindiflupyr	64.4		P	40 - 150
Carbamazepine	67.4		P	40 - 150
Clothianidin	84.1		P	40 - 150
Dinotefuran	86.0		P	40 - 150
Diuron	51.7		P	40 - 150
Fenuron	72.2		P	40 - 150
Fluridone	73.1		P	40 - 150
Hydrocodone	86.2		P	40 - 150
Ibuprofen	85.3		P	40 - 150
Imazapyr	88.9		P	40 - 150
Imidacloprid	79.6		P	40 - 150
Linuron	82.7		P	40 - 150
Mandestrobin	78.8		P	40 - 150
MCPP	95.8		P	40 - 150
Naproxen	70.7		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P431299

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Primidone	77.1		P	40 - 150
Pyraclostrobin	87.0		P	40 - 150
Silvex	96.2		P	40 - 150
Thiamethoxam	83.2		P	40 - 150
Tolfenpyrad	60.4		P	30 - 150
Triclopyr	93.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431332

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	54.2		P	40 - 150
Aldicarb	40.7		P	30 - 150
Aldicarb Sulfone	77.9		P	40 - 150
Aldicarb Sulfoxide	93.0		P	40 - 150
Carbaryl	77.8		P	40 - 150
Carbofuran	69.8		P	40 - 150
Methiocarb	65.1		P	40 - 150
Methomyl	76.4		P	40 - 150
Oxamyl	70.9		P	40 - 150
Propoxur	66.3		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P431568

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.9		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P431655

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.2		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P431521

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	88.8		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P431571

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

Reference Method: SM 5310 B-2011
Batch ID: P431573

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.3		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417219	Chloride	104		P	90 - 110
2417378	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431535

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417219	Sulfate	101		P	90 - 110
2417378	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417223	Ammonia-N	95.4	97.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431537

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417222	Kjeldahl Nitrogen	100	107	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431538

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417326	Kjeldahl Nitrogen	103	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417326	NO2NO3-N	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431382

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417351	Total-P	107	103	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P431247

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416653	PCB-1016	92.2	104	P/P	46 - 111
2416653	PCB-1260	83.8	106	P/P	45 - 114
2417276	Aldrin	53.3	51.3	P/P	20 - 82.0
2417276	Alpha-BHC	97.0	87.4	P/P	71 - 109
2417276	Alpha-Chlordane	75.0	53.6	P/P	42 - 106
2417276	Beta-BHC	103	92.2	P/P	69 - 180
2417276	Beta-Cyfluthrin	79.7	66.2	P/P	18 - 175
2417276	Bifenthrin	108	80.4	P/P	21 - 128

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P431247

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417276	Chlorothalonil	193	132	P/P	10 - 300
2417276	Cis-Nonachlor	72.1	66.3	P/P	34 - 106
2417276	Cypermethrin	83.1	66.0	P/P	22 - 158
2417276	Dacthal	116	90.7	P/P	54 - 116
2417276	DDD-p,p'	106	85.6	P/P	34 - 107
2417276	DDE-p,p'	102	75.1	P/P	33 - 110
2417276	DDT-p,p'	70.4	60.0	P/P	50 - 122
2417276	Delta-BHC	143	105	P/P	77 - 193
2417276	Deltamethrin	110	103	P/P	10 - 195
2417276	Dichlobenil	39.1	45.6	P/P	25 - 113
2417276	Dicofol	84.2	73.9	P/P	38 - 247
2417276	Dieldrin	75.8	67.2	P/P	45 - 118
2417276	Endosulfan I	80.5	72.8	P/P	51 - 106
2417276	Endosulfan II	61.1	59.6	P/P	37 - 122
2417276	Endosulfan Sulfate	77.2	59.9	P/P	43 - 132
2417276	Endrin	66.9	64.9	P/P	29 - 101
2417276	Endrin Aldehyde	87.5	64.6	P/P	19 - 110
2417276	Endrin Ketone	77.9	68.5	P/P	60 - 140
2417276	Esfenvalerate	118	128	P/P	26 - 199
2417276	Ethalfluralin	62.8	62.9	P/P	45 - 99.0
2417276	Fenpropathrin	74.0	65.4	P/P	35 - 120
2417276	Gamma-BHC	115	91.4	P/P	63 - 128
2417276	Gamma-Chlordane	64.3	46.1	P/P	40 - 104
2417276	Heptachlor	56.9	56.4	P/P	36 - 97.0
2417276	Heptachlor Epoxide	76.9	67.8	P/P	49 - 184
2417276	Hexachlorobenzene	81.0	57.8	P/P	39 - 96.0
2417276	Kepone	93.4	54.8	P/P	10 - 217
2417276	Lambda-Cyhalothrin	190	155	P/P	21 - 193
2417276	Methoprene	47.4	41.9	P/P	20 - 106
2417276	Methoxychlor	83.0	75.2	P/P	53 - 118
2417276	MGK-264	57.9	55.7	P/P	40 - 118
2417276	Mirex	86.7	68.8	P/P	26 - 92.0
2417276	Oxychlordane	47.8	47.4	P/P	44 - 99.0
2417276	Permethrin	75.7	79.4	P/P	33 - 182
2417276	Phenothrin	115	107	P/P	10 - 129
2417276	Piperonyl Butoxide	113	105	P/P	10 - 211
2417276	Prallethrin	45.2	44.4	P/P	24 - 113
2417276	Tau-Fluvalinate	148	138	P/P	14 - 149
2417276	Tetramethrin	83.3	72.4	P/P	17 - 151
2417276	Trans-Nonachlor	71.5	45.6	P/P	42 - 102
2417276	Triclosan Methyl	81.1	69.3	P/P	48 - 108
2417276	Trifluralin	54.2	56.2	P/P	47 - 96.0

Reference Method: EPA 8270E
Batch ID: P432051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421091	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	61.4	85.1	P/P	26 - 165
2421091	Acetochlor	72.2	93.2	P/P	67 - 124
2421091	Alachlor	67.0	75.2	P/P	60 - 120
2421091	Ametryn	98.1	110	P/P	54 - 216
2421091	Atrazine	83.4	100	P/P	66 - 128

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P432051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421091	Atrazine Desethyl	84.8	88.1	P/P	15 - 122
2421091	Avobenzone	131	126	P/P	37 - 178
2421091	Azinphos Methyl	109	102	P/P	40 - 292
2421091	Azoxystrobin	114	105	P/P	35 - 220
2421091	Bromacil	93.1	113	P/P	45 - 127
2421091	Butylate	45.9	53.1	P/P	20 - 83.0
2421091	Caffeine	246	152	F/P	10 - 194
2421091	Carbophenothion	90.2	102	P/P	57 - 127
2421091	Carfentrazone Ethyl	101	114	P/P	51 - 141
2421091	Chlorfenapyr	54.7	67.7	P/P	46 - 111
2421091	Chlorpyrifos Ethyl	62.7	62.3	P/P	52 - 120
2421091	Chlorpyrifos Methyl	69.4	82.8	P/P	63 - 119
2421091	Coumaphos	104	115	P/P	10 - 228
2421091	Cyanazine	111	119	P/P	59 - 241
2421091	Cyprodinil	56.9	67.1	P/P	47 - 146
2421091	Dechlorane 602	60.4	58.4	P/P	50 - 150
2421091	Dechlorane 603	98.5	105	P/P	50 - 150
2421091	Dechlorane Plus	73.7	69.8	P/P	50 - 150
2421091	Demeton	76.2	77.6	P/P	40 - 136
2421091	Diazinon	70.2	109	P/P	69 - 132
2421091	Difenoconazole	97.1	100	P/P	57 - 258
2421091	Dimethenamid	55.2	64.1	P/P	54 - 110
2421091	Dimethomorph	211	197	F/P	28 - 210
2421091	Disulfoton	77.2	95.3	P/P	43 - 133
2421091	Dithiopyr	70.2	92.8	P/P	39 - 116
2421091	EPTC	41.3	47.4	P/P	20 - 78.0
2421091	Ethion	40.1	30.9	P/P	17 - 119
2421091	Ethoprop	94.1	93.0	P/P	66 - 120
2421091	Etridiazole	62.7	65.4	P/P	28 - 96.0
2421091	Fenamiphos	116	113	P/P	41 - 126
2421091	Fenbuconazole	69.0	68.1	P/P	42 - 169
2421091	Fipronil	81.3	109	P/P	61 - 132
2421091	Fipronil Desulfinyl	77.7	101	P/P	56 - 132
2421091	Fipronil Sulfide	68.9	89.5	P/P	48 - 119
2421091	Fipronil Sulfone	83.5	114	P/P	42 - 131
2421091	Fluazifop-P-butyl	44.7	57.2	F/P	53 - 131
2421091	Fludioxonil	61.2	68.0	P/P	56 - 127
2421091	Flumioxazin	163	125	P/P	19 - 300
2421091	Flutolanil	52.4	52.5	P/P	41 - 127
2421091	Fluxapyroxad	77.1	64.5	P/P	42 - 172
2421091	Fonofos	60.6	81.9	P/P	59 - 113
2421091	Hexabromobenzene	51.3	111	P/P	50 - 150
2421091	Hexazinone	77.0	78.4	P/P	66 - 122
2421091	Imazalil	78.7	72.8	P/P	21 - 283
2421091	Iprodione	90.2	93.6	P/P	43 - 150
2421091	Loratadine	200	201	P/P	23 - 201
2421091	Malathion	106	125	P/P	58 - 136
2421091	Metalaxyl	88.5	97.5	P/P	55 - 120
2421091	Metolachlor	107	94.6	P/P	57 - 121
2421091	Metribuzin	79.3	93.0	P/P	58 - 294
2421091	Mevinphos	102	111	P/P	50 - 126
2421091	Molinate	58.6	66.4	P/P	42 - 93.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P432051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421091	Myclobutanil	81.6	88.1	P/P	55 - 125
2421091	Naled	24.3	30.9	P/P	18 - 200
2421091	Napropamide	51.5	40.9	P/P	39 - 110
2421091	Norflurazon	81.8	92.3	P/P	48 - 128
2421091	Octinoxate	98.2	107	P/P	21 - 159
2421091	Oxadiazon	73.8	79.9	P/P	43 - 112
2421091	Oxybenzone	91.1	104	P/P	41 - 142
2421091	Oxyfluorfen	101	106	P/P	64 - 153
2421091	Parathion Ethyl	83.2	84.6	P/P	69 - 114
2421091	Parathion Methyl	109	128	P/P	79 - 139
2421091	PBB-153	78.1	102	P/P	50 - 150
2421091	PBDE-47	79.0	89.6	P/P	27 - 144
2421091	PBDE-99	61.1	76.8	P/P	18 - 150
2421091	Pendimethalin	95.3	102	P/P	50 - 139
2421091	Pentabromotoluene	76.3	96.1	P/P	50 - 150
2421091	Phenytoin	22.3	18.3	P/P	10 - 146
2421091	Phorate	83.9	85.8	P/P	54 - 161
2421091	Prodiamine	28.0	32.2	F/P	30 - 161
2421091	Prometon	72.6	74.4	P/P	45 - 134
2421091	Prometryn	61.0	74.6	P/P	45 - 137
2421091	Pronamide	94.0	108	P/P	65 - 133
2421091	Propanil	93.2	120	P/P	49 - 142
2421091	Propargite	44.5	37.3	P/P	10 - 203
2421091	Propiconazole	68.9	76.8	P/P	38 - 146
2421091	Pyraflufen Ethyl	92.1	95.9	P/P	34 - 153
2421091	Pyridaben	73.6	66.0	P/P	12 - 192
2421091	Pyriproxyfen	67.9	53.1	P/P	33 - 180
2421091	Simazine	64.7	73.8	P/P	51 - 157
2421091	Stirophos	22.5	42.1	P/P	10 - 128
2421091	Sulfentrazone	91.7	93.6	P/P	53 - 186
2421091	Tebuconazole	41.1	34.1	P/P	10 - 133
2421091	Terbufos	93.9	108	P/P	65 - 139
2421091	Terbuthylazine	68.2	90.9	P/P	66 - 117
2421091	Tetradecachloro-m-terphenyl	108	128	P/P	70 - 200
2421091	Thiobencarb	64.7	78.5	P/P	51 - 119
2421091	Tri-o-cresyl Phosphate	94.6	102	P/P	31 - 144
2421091	Triadimefon	81.1	80.8	P/P	48 - 119
2421091	Tris(1-chloro-2-propyl) phosphate (TCPP)	81.0	80.7	P/P	50 - 150
2421091	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	90.8	96.8	P/P	50 - 150
2421091	Tris(2-chloroethyl) phosphate (TCEP)	84.5	98.7	P/P	70 - 180

Reference Method: EPA 8276
Batch ID: P431247

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416653	Chlordane	47.4	42.8	F/F	53 - 126
2416653	Toxaphene	58.9	59.9	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P431248

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P431248

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417275	Acesulfame K	131	132	P/P	40 - 150
2417275	AMPA	87.7	90.5	P/P	40 - 150
2417275	Endothall	99.0	110	P/P	40 - 150
2417275	Glufosinate	78.2	82.3	P/P	40 - 150
2417275	Glyphosate	80.3	85.9	P/P	40 - 150
2417275	Sucralose	125	104	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431299

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417275	2,4-D	108	100	P/P	40 - 150
2417275	2,4,5-T	110	91.1	P/P	40 - 150
2417275	Acetaminophen	51.3	49.6	P/P	30 - 150
2417275	Acetamiprid	86.8	67.5	P/P	40 - 150
2417275	Afidopyropen	54.5	70.5	P/P	30 - 150
2417275	Bentazon	104	110	P/P	30 - 150
2417275	Benzovindiflupyr	94.4	85.9	P/P	40 - 150
2417275	Carbamazepine	85.8	73.3	P/P	40 - 150
2417275	Clothianidin	91.3	96.8	P/P	40 - 150
2417275	Dinotefuran	95.1	89.8	P/P	40 - 150
2417275	Diuron	46.7	74.1	P/P	40 - 150
2417275	Fenuron	73.4	70.7	P/P	40 - 150
2417275	Fluridone	73.8	73.5	P/P	40 - 150
2417275	Hydrocodone	82.8	84.7	P/P	40 - 150
2417275	Ibuprofen	64.3	79.9	P/P	40 - 150
2417275	Imazapyr	113	107	P/P	40 - 150
2417275	Imidacloprid	98.8	126	P/P	40 - 150
2417275	Linuron	63.6	65.4	P/P	40 - 150
2417275	Mandestrobin	91.3	87.2	P/P	40 - 150
2417275	MCPP	112	105	P/P	40 - 150
2417275	Naproxen	75.3	67.2	P/P	40 - 150
2417275	Primidone	90.0	68.7	P/P	40 - 150
2417275	Pyraclostrobin	89.3	89.7	P/P	40 - 150
2417275	Silvex	109	97.2	P/P	40 - 150
2417275	Thiamethoxam	98.5	102	P/P	40 - 150
2417275	Tolfenpyrad	56.0	54.2	P/P	30 - 150
2417275	Triclopyr	121	96.7	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431332

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417274	3-Hydroxycarbofuran	70.1	68.7	P/P	40 - 150
2417274	Aldicarb	53.7	59.6	P/P	30 - 150
2417274	Aldicarb Sulfone	83.5	86.2	P/P	40 - 150
2417274	Aldicarb Sulfoxide	25.2	31.8	F/F	40 - 150
2417274	Carbaryl	69.2	53.9	P/P	40 - 150
2417274	Carbofuran	63.4	62.4	P/P	40 - 150
2417274	Methiocarb	78.8	91.0	P/P	40 - 150
2417274	Methomyl	70.5	74.8	P/P	40 - 150
2417274	Oxamyl	80.3	76.1	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P431332

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417274	Propoxur	67.8	64.7	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P431571

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417379	Fluoride	102	103	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P431573

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415723	Organic Carbon	96.3		P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P431283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417151	Color (true)	0.535	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P431284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417323	Color (true)	1.14	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431280

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417216	Turbidity	0.712	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431281

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417323	Turbidity	2.00	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417219	Chloride	0.998	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431535

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417219	Sulfate	0.727	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417223	Ammonia-N	1.86	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431537

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417222	Kjeldahl Nitrogen	5.34	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431538

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417326	Kjeldahl Nitrogen	3.17	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417326	NO2NO3-N	0.344	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431382

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417351	Total-P	3.13	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P431247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416653	PCB-1016	11.7	Spike	P	0 - 32
2416653	PCB-1260	23.7	Spike	P	0 - 31
2417276	Aldrin	3.82	Spike	P	0 - 41
2417276	Alpha-BHC	10.4	Spike	P	0 - 25
2417276	Alpha-Chlordane	30.2	Spike	P	0 - 33
2417276	Beta-BHC	11.4	Spike	P	0 - 36
2417276	Beta-Cyfluthrin	18.6	Spike	P	0 - 42
2417276	Bifenthrin	29.2	Spike	P	0 - 53
2417276	Chlorothalonil	37.7	Spike	P	0 - 71
2417276	Cis-Nonachlor	8.40	Spike	P	0 - 29
2417276	Cypermethrin	23.0	Spike	P	0 - 40
2417276	Dacthal	24.3	Spike	P	0 - 26
2417276	DDD-p,p'	20.9	Spike	P	0 - 39
2417276	DDE-p,p'	30.3	Spike	P	0 - 33
2417276	DDT-p,p'	16.0	Spike	P	0 - 40
2417276	Delta-BHC	31.3	Spike	P	0 - 37
2417276	Deltamethrin	6.79	Spike	P	0 - 100
2417276	Dichlobenil	15.2	Spike	P	0 - 40
2417276	Dicofol	13.1	Spike	P	0 - 31
2417276	Dieldrin	12.1	Spike	P	0 - 27
2417276	Endosulfan I	10.1	Spike	P	0 - 23
2417276	Endosulfan II	2.46	Spike	P	0 - 28
2417276	Endosulfan Sulfate	25.2	Spike	P	0 - 38
2417276	Endrin	3.06	Spike	P	0 - 63
2417276	Endrin Aldehyde	30.1	Spike	P	0 - 60
2417276	Endrin Ketone	12.9	Spike	P	0 - 37
2417276	Esfenvalerate	8.39	Spike	P	0 - 52
2417276	Ethalfluralin	0.0547	Spike	P	0 - 23
2417276	Fenpropathrin	12.3	Spike	P	0 - 32
2417276	Gamma-BHC	23.0	Spike	F	0 - 17

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P431247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417276	Gamma-Chlordane	29.6	Spike	P	0 - 40
2417276	Heptachlor	0.808	Spike	P	0 - 29
2417276	Heptachlor Epoxide	12.6	Spike	P	0 - 25
2417276	Hexachlorobenzene	33.6	Spike	P	0 - 36
2417276	Kepone	52.1	Spike	P	0 - 93
2417276	Lambda-Cyhalothrin	20.4	Spike	P	0 - 55
2417276	Methoprene	12.4	Spike	P	0 - 53
2417276	Methoxychlor	9.94	Spike	P	0 - 29
2417276	MGK-264	3.83	Spike	P	0 - 35
2417276	Mirex	23.0	Spike	P	0 - 46
2417276	Oxychlordane	0.863	Spike	P	0 - 29
2417276	Permethrin	4.69	Spike	P	0 - 44
2417276	Phenothrin	6.97	Spike	P	0 - 56
2417276	Piperonyl Butoxide	7.22	Spike	P	0 - 100
2417276	Prallethrin	1.67	Spike	P	0 - 42
2417276	Tau-Fluvalinate	6.75	Spike	P	0 - 54
2417276	Tetramethrin	13.9	Spike	P	0 - 51
2417276	Trans-Nonachlor	44.3	Spike	F	0 - 37
2417276	Triclosan Methyl	15.7	Spike	P	0 - 31
2417276	Trifluralin	3.71	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P432051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421091	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	32.4	Spike	P	0 - 37
2421091	Acetochlor	25.4	Spike	P	0 - 28
2421091	Alachlor	11.5	Spike	P	0 - 30
2421091	Ametryn	11.8	Spike	P	0 - 32
2421091	Atrazine	14.0	Spike	P	0 - 41
2421091	Atrazine Desethyl	3.83	Spike	P	0 - 36
2421091	Avobenzone	3.87	Spike	P	0 - 36
2421091	Azinphos Methyl	6.34	Spike	P	0 - 75
2421091	Azoxystrobin	8.21	Spike	P	0 - 39
2421091	Bromacil	19.2	Spike	P	0 - 33
2421091	Butylate	14.7	Spike	P	0 - 44
2421091	Caffeine	44.4	Spike	P	0 - 74
2421091	Carbophenothion	11.8	Spike	P	0 - 25
2421091	Carfentrazone Ethyl	12.2	Spike	P	0 - 27
2421091	Chlorfenapyr	21.3	Spike	P	0 - 24
2421091	Chlorpyrifos Ethyl	0.535	Spike	P	0 - 26
2421091	Chlorpyrifos Methyl	17.6	Spike	P	0 - 26
2421091	Coumaphos	9.88	Spike	P	0 - 28
2421091	Cyanazine	7.09	Spike	P	0 - 48
2421091	Cyprodinil	16.4	Spike	P	0 - 29
2421091	Dechlorane 602	3.24	Spike	P	0 - 30
2421091	Dechlorane 603	6.55	Spike	P	0 - 30
2421091	Dechlorane Plus	5.33	Spike	P	0 - 30
2421091	Demeton	1.80	Spike	P	0 - 33
2421091	Diazinon	43.3	Spike	F	0 - 29

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P432051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421091	Difenoconazole	2.87	Spike	P	0 - 34
2421091	Dimethenamid	14.8	Spike	P	0 - 39
2421091	Dimethomorph	6.91	Spike	P	0 - 51
2421091	Disulfoton	21.0	Spike	P	0 - 30
2421091	Dithiopyr	27.7	Spike	F	0 - 26
2421091	EPTC	13.8	Spike	P	0 - 43
2421091	Ethion	25.8	Spike	P	0 - 79
2421091	Ethoprop	1.13	Spike	P	0 - 29
2421091	Etridiazole	4.24	Spike	P	0 - 33
2421091	Fenamiphos	2.50	Spike	P	0 - 40
2421091	Fenbuconazole	1.26	Spike	P	0 - 74
2421091	Fipronil	28.8	Spike	P	0 - 29
2421091	Fipronil Desulfinyl	24.4	Spike	P	0 - 32
2421091	Fipronil Sulfide	22.3	Spike	P	0 - 30
2421091	Fipronil Sulfone	24.5	Spike	P	0 - 33
2421091	Fluazifop-P-butyl	24.5	Spike	P	0 - 38
2421091	Fludioxonil	10.5	Spike	P	0 - 29
2421091	Flumioxazin	26.1	Spike	P	0 - 51
2421091	Flutolanil	0.274	Spike	P	0 - 25
2421091	Fluxapyroxad	17.7	Spike	P	0 - 45
2421091	Fonofos	30.0	Spike	F	0 - 27
2421091	Hexabromobenzene	73.5	Spike	F	0 - 30
2421091	Hexazinone	1.77	Spike	P	0 - 30
2421091	Imazalil	7.86	Spike	P	0 - 100
2421091	Iprodione	3.78	Spike	P	0 - 33
2421091	Loratadine	0.109	Spike	P	0 - 56
2421091	Malathion	17.0	Spike	P	0 - 37
2421091	Metalaxyl	9.72	Spike	P	0 - 40
2421091	Metolachlor	11.9	Spike	P	0 - 29
2421091	Metribuzin	16.0	Spike	P	0 - 45
2421091	Mevinphos	8.83	Spike	P	0 - 29
2421091	Molinate	12.6	Spike	P	0 - 33
2421091	Myclobutanil	7.75	Spike	P	0 - 26
2421091	Naled	23.9	Spike	P	0 - 37
2421091	Napropamide	23.1	Spike	P	0 - 44
2421091	Norflurazon	12.0	Spike	P	0 - 30
2421091	Octinoxate	8.58	Spike	P	0 - 45
2421091	Oxadiazon	7.97	Spike	P	0 - 28
2421091	Oxybenzone	13.2	Spike	P	0 - 46
2421091	Oxyfluorfen	4.89	Spike	P	0 - 28
2421091	Parathion Ethyl	1.67	Spike	P	0 - 31
2421091	Parathion Methyl	15.8	Spike	P	0 - 29
2421091	PBB-153	26.9	Spike	P	0 - 30
2421091	PBDE-47	12.5	Spike	P	0 - 36
2421091	PBDE-99	22.7	Spike	P	0 - 40
2421091	Pendimethalin	6.39	Spike	P	0 - 33
2421091	Pentabromotoluene	23.1	Spike	P	0 - 30
2421091	Phenytoin	19.9	Spike	P	0 - 100
2421091	Phorate	2.24	Spike	P	0 - 36
2421091	Prodiamine	14.2	Spike	P	0 - 71
2421091	Prometon	2.52	Spike	P	0 - 36

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P432051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421091	Prometryn	20.0	Spike	P	0 - 28
2421091	Pronamide	14.0	Spike	P	0 - 24
2421091	Propanil	24.7	Spike	P	0 - 28
2421091	Propargite	17.4	Spike	P	0 - 43
2421091	Propiconazole	9.26	Spike	P	0 - 33
2421091	Pyraflufen Ethyl	4.03	Spike	P	0 - 29
2421091	Pyridaben	5.96	Spike	P	0 - 30
2421091	Pyriproxyfen	24.5	Spike	P	0 - 79
2421091	Simazine	13.1	Spike	P	0 - 29
2421091	Stirophos	60.7	Spike	P	0 - 61
2421091	Sulfentrazone	2.11	Spike	P	0 - 33
2421091	Tebuconazole	12.9	Spike	P	0 - 69
2421091	Terbufos	13.5	Spike	P	0 - 29
2421091	Terbuthylazine	28.5	Spike	P	0 - 32
2421091	Tetradecachloro-m-terphenyl	16.5	Spike	P	0 - 30
2421091	Thiobencarb	19.4	Spike	P	0 - 26
2421091	Tri-o-cresyl Phosphate	7.69	Spike	P	0 - 33
2421091	Triadimefon	0.380	Spike	P	0 - 28
2421091	Tris(1-chloro-2-propyl) phosphate (TCPP)	0.399	Spike	P	0 - 30
2421091	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	6.41	Spike	P	0 - 30
2421091	Tris(2-chloroethyl) phosphate (TCEP)	15.5	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P431247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416653	Chlordane	10.3	Spike	P	0 - 25
2416653	Toxaphene	1.57	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P431248

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417275	Acesulfame K	0.457	Spike	P	0 - 30
2417275	AMPA	3.15	Spike	P	0 - 30
2417275	Endothall	10.3	Spike	P	0 - 30
2417275	Glufosinate	5.07	Spike	P	0 - 30
2417275	Glyphosate	6.81	Spike	P	0 - 30
2417275	Sucralose	16.5	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P431299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417275	2,4-D	7.28	Spike	P	0 - 30
2417275	2,4,5-T	19.1	Spike	P	0 - 30
2417275	Acetaminophen	3.29	Spike	P	0 - 30
2417275	Acetamiprid	24.9	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P431299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417275	Afidopyropen	25.5	Spike	P	0 - 30
2417275	Bentazon	5.26	Spike	P	0 - 30
2417275	Benzovindiflupyr	9.51	Spike	P	0 - 30
2417275	Carbamazepine	15.8	Spike	P	0 - 30
2417275	Clothianidin	5.86	Spike	P	0 - 30
2417275	Dinotefuran	5.66	Spike	P	0 - 30
2417275	Diuron	45.4	Spike	F	0 - 30
2417275	Fenuron	3.80	Spike	P	0 - 30
2417275	Fluridone	0.429	Spike	P	0 - 30
2417275	Hydrocodone	2.30	Spike	P	0 - 30
2417275	Ibuprofen	21.7	Spike	P	0 - 30
2417275	Imazapyr	5.47	Spike	P	0 - 30
2417275	Imidacloprid	22.2	Spike	P	0 - 30
2417275	Linuron	2.75	Spike	P	0 - 30
2417275	Mandestrobin	4.60	Spike	P	0 - 30
2417275	MCPP	6.42	Spike	P	0 - 30
2417275	Naproxen	11.3	Spike	P	0 - 30
2417275	Primidone	26.8	Spike	P	0 - 30
2417275	Pyraclostrobin	0.421	Spike	P	0 - 30
2417275	Silvex	11.1	Spike	P	0 - 30
2417275	Thiamethoxam	3.19	Spike	P	0 - 30
2417275	Tolfenpyrad	3.28	Spike	P	0 - 30
2417275	Triclopyr	22.2	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P431332

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417274	3-Hydroxycarbofuran	1.93	Spike	P	0 - 30
2417274	Aldicarb	10.5	Spike	P	0 - 30
2417274	Aldicarb Sulfone	3.18	Spike	P	0 - 30
2417274	Aldicarb Sulfoxide	23.2	Spike	P	0 - 30
2417274	Carbaryl	25.0	Spike	P	0 - 30
2417274	Carbofuran	1.54	Spike	P	0 - 30
2417274	Methiocarb	14.4	Spike	P	0 - 30
2417274	Methomyl	5.91	Spike	P	0 - 30
2417274	Oxamyl	5.47	Spike	P	0 - 30
2417274	Propoxur	4.70	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P431568

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417379	Total Alkalinity	1.19	Sample	P	0 - 3.9

Quality Assurance Report
Precision

Reference Method: SM 2540 C-2015
Batch ID: P431655

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417325	TDS	0.587	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P431571

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417379	Fluoride	0.492	Spike	P	0 - 1.9

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2417337
Field Sample ID: 20030739

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	99.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	54.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	55.6	P	30 - 160
EPA 8321B	Diuron-d6	51.4	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	94.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	81.2	P	30 - 160
EPA 8321B	Primidone-d5	74.6	P	30 - 160
EPA 8321B	Sucralose-d6	138	P	30 - 160

Lab Sample ID: 2417338
Field Sample ID: G2NE1208

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	108	P	30 - 160
EPA 8321B	Acetaminophen-d4	68.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	58.3	P	30 - 160
EPA 8321B	Diuron-d6	48.6	P	30 - 160
EPA 8321B	Endothall-d6	93.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.1	P	30 - 160
EPA 8321B	Primidone-d5	71.4	P	30 - 160
EPA 8321B	Sucralose-d6	133	P	30 - 160

Lab Sample ID: 2417339
Field Sample ID: G2NE1207

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	43.0	P	30 - 160

Lab Sample ID: 2417340
Field Sample ID: G2NE1207

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	63.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.0	P	30 - 160
EPA 8321B	Diuron-d6	41.1	P	30 - 160
EPA 8321B	Endothall-d6	91.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	48.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.8	P	30 - 160
EPA 8321B	Primidone-d5	73.3	P	30 - 160
EPA 8321B	Sucralose-d6	126	P	30 - 160

Lab Sample ID: 2417341
Field Sample ID: G2NE1207

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	100	P	29 - 130
EPA 8270E	Decachlorobiphenyl	81.7	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	52.8	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	55.4	P	30 - 97.0

Quality Assurance Report
Surrogates

Lab Sample ID: 2417341
Field Sample ID: G2NE1207

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	Decachlorobiphenyl	51.3	P	30 - 101
EPA 8276	PCNB	83.4	P	48 - 121

Lab Sample ID: 2417342
Field Sample ID: G2NE1207

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	66.4	P	20 - 200
EPA 8270E	Simazine-d10	84.2	P	62 - 142
EPA 8270E	Terbufos-d10	83.7	P	58 - 132
EPA 8270E	Terphenyl-d14	79.6	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A119806
Included Lab Sample IDs: 2417321, 2417323, 2417325

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	102	P/P	95 - 105
Turbidity	102	102	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1
Run ID: A119807
Included Lab Sample IDs: 2417321, 2417323, 2417325

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.8	99.8	P/P	90 - 110
Color (true)	99.8	98.8	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A119859
Included Lab Sample IDs: 2417337, 2417338, 2417340

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	83.0	94.4	P/P	60 - 160
AMPA	88.7	105	P/P	60 - 160
Endothall	96.7	97.7	P/P	60 - 160
Glufosinate	75.1	81.6	P/P	60 - 160
Glufosinate	89.6	83.4	P/P	60 - 160
Glyphosate	85.7	87.6	P/P	60 - 160
Glyphosate	88.6	80.4	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A119868
Included Lab Sample IDs: 2417337, 2417338, 2417340

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	133	141	P/P	60 - 160
Sucralose	120	129	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119884
Included Lab Sample IDs: 2417322, 2417324, 2417326

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119894
Included Lab Sample IDs: 2417322, 2417324, 2417326

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

Reference Method: EPA 8321B
Run ID: A119900
Included Lab Sample IDs: 2417337, 2417338, 2417340

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A119900
Included Lab Sample IDs: 2417337, 2417338, 2417340

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	95.1	104	P/P	50 - 150
2,4,5-T	83.7	96.7	P/P	50 - 150
3-Hydroxycarbofuran	105	93.2	P/P	60 - 150
Acetaminophen	62.6	75.8	P/P	60 - 160
Acetamiprid	107	106	P/P	50 - 150
Afidopyropen	105	77.7	P/P	50 - 150
Aldicarb	107	113	P/P	60 - 150
Aldicarb Sulfone	101	114	P/P	50 - 150
Aldicarb Sulfoxide	74.3	97.5	P/P	50 - 150
Bentazon	160	159	P/P	50 - 160
Benzovindiflupyr	118	88.5	P/P	50 - 150
Carbamazepine	90.0	90.6	P/P	60 - 150
Carbaryl	104	106	P/P	60 - 150
Carbofuran	91.7	93.5	P/P	50 - 150
Clothianidin	108	86.5	P/P	60 - 150
Dinotefuran	107	107	P/P	50 - 150
Diuron	110	130	P/P	60 - 160
Diuron	138	125	P/P	60 - 160
Fenuron	110	113	P/P	60 - 150
Fluridone	93.8	98.8	P/P	60 - 160
Hydrocodone	111	113	P/P	60 - 150
Ibuprofen	92.3	78.8	P/P	50 - 160
Imazapyr	106	105	P/P	50 - 150
Imidacloprid	89.4	98.1	P/P	60 - 150
Linuron	118	110	P/P	60 - 150
Mandestrobin	107	113	P/P	50 - 150
MCPP	99.5	99.6	P/P	50 - 150
Methiocarb	122	108	P/P	50 - 150
Methomyl	98.5	97.9	P/P	50 - 150
Naproxen	113	68.2	P/P	50 - 160
Oxamyl	118	89.8	P/P	50 - 150
Primidone	95.0	110	P/P	60 - 150
Propoxur	106	112	P/P	50 - 150
Pyraclostrobin	126	129	P/P	60 - 150
Silvex	126	113	P/P	50 - 150
Thiamethoxam	104	96.5	P/P	50 - 150
Tolfenpyrad	104	102	P/P	60 - 150
Triclopyr	99.8	83.7	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A119904
Included Lab Sample IDs: 2417322, 2417324, 2417326

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A119927
Included Lab Sample IDs: 2417321, 2417323, 2417325

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A119927
Included Lab Sample IDs: 2417321, 2417323, 2417325

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	97.8	P/P	90 - 110
Sulfate	101	97.3	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A119936
Included Lab Sample IDs: 2417341

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	89.8		P	80 - 120
PCB-1260	105		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A119941
Included Lab Sample IDs: 2417321, 2417323, 2417325

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.7	94.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A119941
Included Lab Sample IDs: 2417321, 2417323, 2417325

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

Reference Method: SM 5310 B-2011
Run ID: A119942
Included Lab Sample IDs: 2417322, 2417324, 2417326

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.3	96.7	P/P	90 - 110
Organic Carbon	96.7	96.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119961
Included Lab Sample IDs: 2417322, 2417324, 2417326

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	100	P/P	90 - 110
Kjeldahl Nitrogen	103	102	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A120024
Included Lab Sample IDs: 2417341

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	103		P	80 - 120
Alpha-BHC	108		P	80 - 120
Alpha-Chlordane	112		P	80 - 120
Beta-BHC	116		P	80 - 120
Beta-Cyfluthrin	88.9		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120024
Included Lab Sample IDs: 2417341

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bifenthrin	97.9		P	80 - 120
Chlorothalonil	105		P	80 - 120
Cis-Nonachlor	115		P	80 - 120
Cypermethrin	98.9		P	80 - 120
Dacthal	96.7		P	80 - 120
DDD-p,p'	107		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	97.6		P	80 - 120
Delta-BHC	110		P	80 - 120
Deltamethrin	90.7		P	80 - 120
Dichlobenil	109		P	80 - 120
Dicofol	93.0		P	80 - 120
Dieldrin	97.6		P	80 - 120
Endosulfan I	105		P	80 - 120
Endosulfan II	108		P	80 - 120
Endosulfan Sulfate	98.5		P	80 - 120
Endrin	108		P	80 - 120
Endrin Aldehyde	116		P	80 - 120
Endrin Ketone	108		P	80 - 120
Esfenvalerate	93.4		P	80 - 120
Ethalfluralin	97.5		P	80 - 120
Fenpropathrin	97.7		P	80 - 120
Gamma-BHC	106		P	80 - 120
Gamma-Chlordane	113		P	80 - 120
Heptachlor	99.6		P	80 - 120
Heptachlor Epoxide	120		P	80 - 120
Hexachlorobenzene	111		P	80 - 120
Kepone	93.3		P	80 - 120
Lambda-Cyhalothrin	114		P	80 - 120
Methoprene	102		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	94.1		P	80 - 120
Mirex	114		P	80 - 120
Oxychlordane	102		P	80 - 120
Permethrin	94.6		P	80 - 120
Phenothrin	103		P	80 - 120
Piperonyl Butoxide	94.2		P	80 - 120
Prallethrin	111		P	80 - 120
Tau-Fluvalinate	83.9		P	80 - 120
Tetramethrin	99.4		P	80 - 120
Trans-Nonachlor	107		P	80 - 120
Triclosan Methyl	118		P	80 - 120
Trifluralin	97.5		P	80 - 120

Reference Method: EPA 8276
Run ID: A120026
Included Lab Sample IDs: 2417341

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.6		P	80 - 120
Toxaphene	99.2		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120275
Included Lab Sample IDs: 2417342

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.9		P	80 - 120
Alachlor	86.9		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	98.4		P	80 - 120
Azoxystrobin	98.1		P	80 - 120
Bromacil	98.1		P	80 - 120
Butylate	99.3		P	80 - 120
Caffeine	97.9		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	90.4		P	80 - 120
Chlorpyrifos Ethyl	85.4		P	80 - 120
Chlorpyrifos Methyl	97.1		P	80 - 120
Coumaphos	100		P	80 - 120
Cyanazine	107		P	80 - 120
Cyprodinil	92.0		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	102		P	80 - 120
Difenoconazole	95.4		P	80 - 120
Dimethenamid	96.6		P	80 - 120
Dimethomorph	87.4		P	80 - 120
Disulfoton	110		P	80 - 120
Dithiopyr	97.9		P	80 - 120
EPTC	103		P	80 - 120
Ethion	96.9		P	80 - 120
Ethoprop	105		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	86.4		P	80 - 120
Fenbuconazole	84.7		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	82.2		P	80 - 120
Fludioxonil	88.4		P	80 - 120
Flumioxazin	105		P	80 - 120
Flutolanil	99.4		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	99.8		P	80 - 120
Hexazinone	98.6		P	80 - 120
Imazalil	95.2		P	80 - 120
Iprodione	96.4		P	80 - 120
Loratadine	101		P	80 - 120
Malathion	93.7		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	98.8		P	80 - 120
Mevinphos	113		P	80 - 120
Molinate	91.3		P	80 - 120
Myclobutanil	88.5		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120275
Included Lab Sample IDs: 2417342

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naled	86.7		P	80 - 120
Napropamide	101		P	80 - 120
Norflurazon	101		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	106		P	80 - 120
Parathion Ethyl	99.0		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	112		P	80 - 120
Phenytoin	107		P	80 - 120
Phorate	106		P	80 - 120
Prodiamine	118		P	80 - 120
Prometon	98.8		P	80 - 120
Prometryn	90.2		P	80 - 120
Pronamide	95.8		P	80 - 120
Propanil	101		P	80 - 120
Propargite	102		P	80 - 120
Propiconazole	87.7		P	80 - 120
Pyraflufen Ethyl	103		P	80 - 120
Pyridaben	107		P	80 - 120
Pyriproxyfen	99.4		P	80 - 120
Simazine	81.9		P	80 - 120
Stirophos	99.3		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	101		P	80 - 120
Terbuthylazine	84.3		P	80 - 120
Thiobencarb	98.1		P	80 - 120
Triadimefon	102		P	80 - 120

Reference Method: EPA 8270E
Run ID: A120277
Included Lab Sample IDs: 2417342

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.9		P	80 - 120
Avobenzone	99.8		P	80 - 120
Dechlorane 602	101		P	80 - 120
Dechlorane 603	97.9		P	80 - 120
Dechlorane Plus	100		P	80 - 120
Hexabromobenzene	100		P	80 - 120
Octinoxate	93.0		P	80 - 120
Oxybenzone	95.1		P	80 - 120
PBB-153	95.9		P	80 - 120
PBDE-47	99.6		P	80 - 120
PBDE-99	100		P	80 - 120
Pentabromotoluene	98.3		P	80 - 120
Tetradecachloro-m-terphenyl	98.2		P	80 - 120
Tri-o-cresyl Phosphate	98.9		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	97.6		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	99.2		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	95.9		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120308
Included Lab Sample IDs: 2417342

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	93.8		P	80 - 120

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	101				0.535	
	Color (true)	99.6				1.14	
EPA 180.1 Rev. 2.0	Turbidity	102				0.712	
	Turbidity	101				2.00	
EPA 300.0 Rev. 2.1	Chloride	104	104	103		0.998	
	Sulfate	101	101	101		0.727	
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	95.4	97.6			1.86
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.3	100	107			5.34
	Kjeldahl Nitrogen	103	103	98.8			3.17
EPA 353.2 Rev. 2.0	NO2NO3-N	105	104	103			0.344
EPA 365.1 Rev. 2.0	Total-P	100	107	103			3.13
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	75.2	61.4	85.1			32.4
	Acetochlor	88.0	72.2	93.2			25.4
	Alachlor	67.3	67.0	75.2			11.5
	Aldrin	44.0	53.3	51.3			3.82
	Alpha-BHC	75.4	97.0	87.4			10.4
	Alpha-Chlordane	60.4	75.0	53.6			30.2
	Ametryn	140	98.1	110			11.8
	Atrazine	89.2	83.4	100			14.0
	Atrazine Desethyl	79.6	84.8	88.1			3.83
	Avobenzone	92.9	131	126			3.87
	Azinphos Methyl	85.4	109	102			6.34
	Azoxystrobin	67.5	114	105			8.21
	Beta-BHC	82.7	103	92.2			11.4
	Beta-Cyfluthrin	66.9	79.7	66.2			18.6
	Bifenthrin	62.4	108	80.4			29.2
	Bromacil	88.2	93.1	113			19.2
	Butylate	49.4	45.9	53.1			14.7
	Caffeine	103	246	152			44.4
	Carbophenothion	96.9	90.2	102			11.8
	Carfentrazone Ethyl	108	101	114			12.2
	Chlorfenapyr	68.2	54.7	67.7			21.3
	Chlorothalonil	91.0	193	132			37.7
	Chlorpyrifos Ethyl	82.3	62.7	62.3			0.535
	Chlorpyrifos Methyl	83.8	69.4	82.8			17.6
	Cis-Nonachlor	50.6	72.1	66.3			8.40
	Coumaphos	71.3	104	115			9.88
	Cyanazine	120	111	119			7.09
	Cypermethrin	66.2	83.1	66.0			23.0
	Cyprodinil	65.6	56.9	67.1			16.4
	Dacthal	70.3	116	90.7			24.3
	DDD-p,p'	62.5	106	85.6			20.9
	DDE-p,p'	60.8	102	75.1			30.3
	DDT-p,p'	61.4	70.4	60.0			16.0
	Dechlorane 602	78.0	60.4	58.4			3.24
	Dechlorane 603	94.1	98.5	105			6.55
	Dechlorane Plus	91.9	73.7	69.8			5.33
	Delta-BHC	96.8	143	105			31.3
	Deltamethrin	82.8	110	103			6.79
	Demeton	61.0	76.2	77.6			1.80
	Diazinon	98.1	70.2	109			43.3
	Dichlobenil	73.5	39.1	45.6			15.2

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Dicofol	62.5	84.2	73.9			13.1
	Dieldrin	57.1	75.8	67.2			12.1
	Difenoconazole	56.2	97.1	100			2.87
	Dimethenamid	77.8	55.2	64.1			14.8
	Dimethomorph	105	211	197			6.91
	Disulfoton	95.0	77.2	95.3			21.0
	Dithiopyr	92.4	70.2	92.8			27.7
	Endosulfan I	62.8	80.5	72.8			10.1
	Endosulfan II	55.3	61.1	59.6			2.46
	Endosulfan Sulfate	57.7	77.2	59.9			25.2
	Endrin	57.6	66.9	64.9			3.06
	Endrin Aldehyde	59.3	87.5	64.6			30.1
	Endrin Ketone	77.3	77.9	68.5			12.9
	EPTC	46.9	41.3	47.4			13.8
	Esfenvalerate	91.8	118	128			8.39
	Ethalfluralin	59.6	62.8	62.9			0.0547
	Ethion	88.4	40.1	30.9			25.8
	Ethoprop	81.7	94.1	93.0			1.13
	Etridiazole	62.7	62.7	65.4			4.24
	Fenamiphos	78.4	116	113			2.50
	Fenbuconazole	35.6	69.0	68.1			1.26
	Fenpropathrin	61.3	74.0	65.4			12.3
	Fipronil	109	81.3	109			28.8
	Fipronil Desulfinyl	91.7	77.7	101			24.4
	Fipronil Sulfide	91.5	68.9	89.5			22.3
	Fipronil Sulfone	98.2	83.5	114			24.5
	Fluazifop-P-butyl	51.9	57.2	44.7			24.5
	Fludioxonil	67.7	61.2	68.0			10.5
	Flumioxazin	110	163	125			26.1
	Flutolanil	67.0	52.4	52.5			0.274
	Fluxapyroxad	91.7	77.1	64.5			17.7
	Fonofos	75.3	60.6	81.9			30.0
	Gamma-BHC	80.4	115	91.4			23.0
	Gamma-Chlordane	63.0	64.3	46.1			29.6
	Heptachlor	53.4	56.9	56.4			0.808
	Heptachlor Epoxide	77.2	76.9	67.8			12.6
	Hexabromobenzene	92.0	51.3	111			73.5
	Hexachlorobenzene	51.9	81.0	57.8			33.6
	Hexazinone	89.2	77.0	78.4			1.77
	Imazalil	69.8	78.7	72.8			7.86
	Iprodione	108	90.2	93.6			3.78
	Kepone	53.5	93.4	54.8			52.1
	Lambda-Cyhalothrin	79.9	190	155			20.4
	Loratadine	105	200	201			0.109
	Malathion	125	106	125			17.0
	Metalaxyl	97.7	88.5	97.5			9.72
	Methoprene	42.6	47.4	41.9			12.4
	Methoxychlor	69.5	83.0	75.2			9.94
	Metolachlor	108	107	94.6			11.9
	Metribuzin	82.2	79.3	93.0			16.0
	Mevinphos	78.7	102	111			8.83
	MGK-264	49.2	57.9	55.7			3.83
	Mirex	59.2	86.7	68.8			23.0
	Molinate	56.0	58.6	66.4			12.6

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Myclobutanil	85.7	81.6	88.1			7.75
	Naled	27.6	24.3	30.9			23.9
	Napropamide	88.8	51.5	40.9			23.1
	Norflurazon	81.4	81.8	92.3			12.0
	Octinoxate	93.3	98.2	107			8.58
	Oxadiazon	82.0	73.8	79.9			7.97
	Oxybenzone	95.8	91.1	104			13.2
	Oxychlordane	53.2	47.8	47.4			0.863
	Oxyfluorfen	101	101	106			4.89
	Parathion Ethyl	86.5	83.2	84.6			1.67
	Parathion Methyl	99.7	109	128			15.8
	PBB-153	94.6	78.1	102			26.9
	PBDE-47	94.2	79.0	89.6			12.5
	PBDE-99	81.2	61.1	76.8			22.7
	PCB-1016	71.3	92.2	104			11.7
	PCB-1260	65.5	83.8	106			23.7
	Pendimethalin	104	95.3	102			6.39
	Pentabromotoluene	80.6	76.3	96.1			23.1
	Permethrin	60.2	75.7	79.4			4.69
	Phenothrin	79.0	115	107			6.97
	Phenytoin	63.1	22.3	18.3			19.9
	Phorate	65.7	83.9	85.8			2.24
	Piperonyl Butoxide	75.7	113	105			7.22
	Prallethrin	52.9	45.2	44.4			1.67
	Prodiamine	37.3	28.0	32.2			14.2
	Prometon	74.3	72.6	74.4			2.52
	Prometryn	71.5	61.0	74.6			20.0
	Pronamide	100	94.0	108			14.0
	Propanil	112	93.2	120			24.7
	Propargite	97.3	44.5	37.3			17.4
	Propiconazole	72.4	68.9	76.8			9.26
	Pyraflufen Ethyl	98.0	92.1	95.9			4.03
	Pyridaben	67.1	73.6	66.0			5.96
	Pyriproxyfen	73.2	67.9	53.1			24.5
	Simazine	71.9	64.7	73.8			13.1
	Stirophos	121	22.5	42.1			60.7
	Sulfentrazone	75.6	91.7	93.6			2.11
	Tau-Fluvalinate	76.3	148	138			6.75
	Tebuconazole	79.7	41.1	34.1			12.9
	Terbufos	95.2	93.9	108			13.5
	Terbuthylazine	81.6	68.2	90.9			28.5
	Tetradecachloro-m-terphenyl	113	128	108			16.5
	Tetramethrin	67.7	83.3	72.4			13.9
	Thiobencarb	89.4	64.7	78.5			19.4
	Trans-Nonachlor	56.2	71.5	45.6			44.3
	Tri-o-cresyl Phosphate	95.4	94.6	102			7.69
	Triadimefon	93.7	81.1	80.8			0.380
	Triclosan Methyl	69.8	81.1	69.3			15.7
	Trifluralin	66.4	54.2	56.2			3.71
	Tris(1-chloro-2-propyl) phosphate (TCPP)	102	80.7	81.0			0.399
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	89.3	96.8	90.8			6.41

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Tris(2-chloroethyl) phosphate (TCEP)	98.7	98.7	84.5			15.5
EPA 8276	Chlordane	59.2	47.4	42.8			10.3
	Toxaphene	64.1	58.9	59.9			1.57
EPA 8321B	2,4-D	106	108	100			7.28
	2,4,5-T	94.0	110	91.1			19.1
	3-Hydroxycarbofuran	54.2	68.7	70.1			1.93
	Acesulfame K	135	131	132			0.457
	Acetaminophen	49.1	51.3	49.6			3.29
	Acetamiprid	79.2	86.8	67.5			24.9
	Afidopyropen	62.2	54.5	70.5			25.5
	Aldicarb	40.7	59.6	53.7			10.5
	Aldicarb Sulfone	77.9	86.2	83.5			3.18
	Aldicarb Sulfoxide	93.0	31.8	25.2			23.2
	AMPA	85.7	87.7	90.5			3.15
	Bentazon	110	104	110			5.26
	Benzovindiflupyr	64.4	94.4	85.9			9.51
	Carbamazepine	67.4	85.8	73.3			15.8
	Carbaryl	77.8	69.2	53.9			25.0
	Carbofuran	69.8	62.4	63.4			1.54
	Clothianidin	84.1	91.3	96.8			5.86
	Dinotefuran	86.0	95.1	89.8			5.66
	Diuron	51.7	46.7	74.1			45.4
	Endothall	102	99.0	110			10.3
	Fenuron	72.2	73.4	70.7			3.80
	Fluridone	73.1	73.8	73.5			0.429
	Glufosinate	90.5	78.2	82.3			5.07
	Glyphosate	93.6	80.3	85.9			6.81
	Hydrocodone	86.2	82.8	84.7			2.30
	Ibuprofen	85.3	64.3	79.9			21.7
	Imazapyr	88.9	113	107			5.47
	Imidacloprid	79.6	98.8	126			22.2
	Linuron	82.7	63.6	65.4			2.75
	Mandestrobin	78.8	91.3	87.2			4.60
	MCPP	95.8	112	105			6.42
	Methiocarb	65.1	78.8	91.0			14.4
	Methomyl	76.4	74.8	70.5			5.91
	Naproxen	70.7	75.3	67.2			11.3
	Oxamyl	70.9	76.1	80.3			5.47
	Primidone	77.1	90.0	68.7			26.8
	Propoxur	66.3	64.7	67.8			4.70
	Pyraclostrobin	87.0	89.3	89.7			0.421
	Silvex	96.2	109	97.2			11.1
	Sucralose	110	125	104			16.5
	Thiamethoxam	83.2	98.5	102			3.19
	Tolfenpyrad	60.4	56.0	54.2			3.28
	Triclopyr	93.5	121	96.7			22.2
SM 2320 B-2011	Total Alkalinity	98.9				1.19	
SM 2540 C-2015	TDS	94.2				0.587	
SM 2540 D-2015	TSS	88.8					
SM 4500-F- C-2011	Fluoride	101	102	103			0.492
SM 5310 B-2011	Organic Carbon	96.3	96.3				

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2417321, 2417323, 2417325
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2417321, 2417323, 2417325
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2417321, 2417323, 2417325
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2417321, 2417323, 2417325
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2417322, 2417324, 2417326
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2417322, 2417324, 2417326
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2417322, 2417324, 2417326
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2417322, 2417324, 2417326
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2417342
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2417341
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2417342
EPA 8270E	PCBs in water matrices by GC/MS/MS	2417341
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2417341
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2417339
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2417337, 2417338, 2417340
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2417321, 2417323, 2417325
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2417321, 2417323, 2417325
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2417321, 2417323, 2417325
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2417321, 2417323, 2417325
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2417322, 2417324, 2417326

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	06/14/2023			06/14/2023 15:16	Anna M. Plaviak	2417321
	06/14/2023			06/14/2023 15:20	Anna M. Plaviak	2417323
	06/14/2023			06/14/2023 15:21	Anna M. Plaviak	2417325
EPA 180.1 Rev. 2.0	06/14/2023			06/14/2023 12:52	Alexis Price	2417321
	06/14/2023			06/14/2023 12:56	Alexis Price	2417323
	06/14/2023			06/14/2023 12:57	Alexis Price	2417325
EPA 300.0 Rev. 2.1	06/14/2023			06/20/2023 04:42	James L Waggerby	2417321
	06/14/2023			06/20/2023 04:57	James L Waggerby	2417323
	06/14/2023			06/20/2023 05:12	James L Waggerby	2417325
EPA 350.1 Rev. 2.0	06/14/2023			06/16/2023 12:45	Khloe J Berg	2417322
	06/14/2023			06/16/2023 12:47	Khloe J Berg	2417324
	06/14/2023			06/16/2023 12:48	Khloe J Berg	2417326
EPA 351.2 Rev. 2.0	06/14/2023	06/21/2023 10:13	Samantha L Bates	06/22/2023 10:29	Samantha L Bates	2417322
	06/14/2023	06/21/2023 10:13	Samantha L Bates	06/22/2023 10:30	Samantha L Bates	2417324
	06/14/2023	06/21/2023 10:13	Samantha L Bates	06/22/2023 10:40	Samantha L Bates	2417326
EPA 353.2 Rev. 2.0	06/14/2023			06/20/2023 08:42	Beverly Y. Sanders	2417322
	06/14/2023			06/20/2023 08:44	Beverly Y. Sanders	2417324
	06/14/2023			06/20/2023 08:45	Beverly Y. Sanders	2417326
EPA 365.1 Rev. 2.0	06/14/2023	06/16/2023 15:00	Alexis Price	06/19/2023 11:37	Chandler E Cox	2417322
	06/14/2023	06/16/2023 15:00	Alexis Price	06/19/2023 11:38	Chandler E Cox	2417324
	06/14/2023	06/16/2023 15:00	Alexis Price	06/19/2023 11:39	Chandler E Cox	2417326
EPA 8270E	06/14/2023	06/16/2023 08:00	Fe-Val Siddell	06/21/2023 00:11	Michael Poppell	2417341
	06/14/2023	06/16/2023 08:00	Fe-Val Siddell	06/21/2023 00:49	Lipi Saha	2417341
	06/14/2023	07/06/2023 08:00	Rasheda Ghaffari	07/08/2023 18:02	Michael Poppell	2417342
	06/14/2023	07/06/2023 08:00	Rasheda Ghaffari	07/10/2023 20:02	Arthur Maknenko	2417342
	06/14/2023	07/06/2023 08:00	Rasheda Ghaffari	07/11/2023 16:35	Michael Poppell	2417342
EPA 8276	06/14/2023	06/16/2023 08:00	Fe-Val Siddell	06/23/2023 02:54	Lipi Saha	2417341
EPA 8321B	06/14/2023	06/14/2023 14:00	Touraj Touran	06/14/2023 20:21	Touraj Touran	2417337
	06/14/2023	06/14/2023 14:00	Touraj Touran	06/14/2023 20:34	Touraj Touran	2417338
	06/14/2023	06/14/2023 14:00	Touraj Touran	06/14/2023 20:48	Touraj Touran	2417340
	06/14/2023	06/14/2023 14:00	Touraj Touran	06/15/2023 00:56	Touraj Touran	2417340
	06/14/2023	06/14/2023 14:00	Touraj Touran	06/16/2023 12:17	Touraj Touran	2417337
	06/14/2023	06/14/2023 14:00	Touraj Touran	06/16/2023 12:31	Touraj Touran	2417338
	06/14/2023	06/14/2023 14:00	Touraj Touran	06/16/2023 12:45	Touraj Touran	2417340
	06/14/2023	06/19/2023 09:00	Hoor Shaik	06/20/2023 18:37	Juyoung Kim	2417337
	06/14/2023	06/19/2023 09:00	Hoor Shaik	06/20/2023 18:56	Juyoung Kim	2417338
	06/14/2023	06/19/2023 09:00	Hoor Shaik	06/20/2023 19:15	Juyoung Kim	2417340
	06/14/2023	06/19/2023 09:00	Hoor Shaik	06/21/2023 10:55	Juyoung Kim	2417337
	06/14/2023	06/20/2023 08:30	Hoor Shaik	06/21/2023 00:34	Juyoung Kim	2417339
SM 2320 B-2011	06/14/2023			06/21/2023 03:29	Dale L. Simmons	2417321

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-2011	06/14/2023			06/21/2023 03:43	Dale L. Simmons	2417323
	06/14/2023			06/21/2023 03:57	Dale L. Simmons	2417325
SM 2540 C-2015	06/14/2023			06/15/2023 16:20	Dana G. Hughes	2417321, 2417323, 2417325
SM 2540 D-2015	06/14/2023			06/15/2023 16:20	Dana G. Hughes	2417321, 2417323, 2417325
SM 4500-F- C-2011	06/14/2023			06/21/2023 03:29	Dale L. Simmons	2417321
	06/14/2023			06/21/2023 03:43	Dale L. Simmons	2417323
	06/14/2023			06/21/2023 03:57	Dale L. Simmons	2417325
SM 5310 B-2011	06/14/2023			06/20/2023 02:23	Elise M. Gillis	2417322
	06/14/2023			06/20/2023 03:24	Elise M. Gillis	2417324
	06/14/2023			06/20/2023 03:42	Elise M. Gillis	2417326