

Chemical Analysis Report

NW-DIST-2023-10-10-01

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

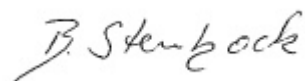
Event Description: **Niceville Run**
Request ID: **RQ-2023-10-09-47**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 02-NOV-2023 11:08



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: Metals, 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: Unnamed Lake

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

Field ID: G3NW0223

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443782	DEP SOP: NU-094-1	Color (true)	10		PCU	P436302	
	EPA 180.1 Rev. 2.0	Turbidity	0.90	I	NTU	P436306	
	EPA 300.0 Rev. 2.1	Chloride	6.5		mg Cl/L	P436650	
		Sulfate	4.7		mg SO4/L	P436660	
	SM 2320 B-2011	Total Alkalinity	5.3		mg CaCO3/L	P436416	
	SM 2540 C-2015	TDS	37		mg/L	P436766	RPD
	SM 2540 D-2015	TSS	3	I	mg/L	P436583	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P436607	
2443783	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P436424	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.31		mg N/L	P436428	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.25		mg N/L	P436382	
	EPA 365.1 Rev. 2.0	Total-P	0.006		mg P/L	P436351	
	SM 5310 B-2011	Organic Carbon	3.0		mg C/L	P436407	

Sample Location: Direct Runoff to Choctawhatchee Bay Below Oregon Drive **Collection Date/Time: 10/09/2023 11:20**

Field ID: G3NW0001

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443784	DEP SOP: NU-094-1	Color (true)	55		PCU	P436302	
	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P436306	
	EPA 300.0 Rev. 2.1	Chloride	1.5E+03		mg Cl/L	P436650	
		Sulfate	210		mg SO4/L	P436660	
	SM 2320 B-2011	Total Alkalinity	53	A	mg CaCO3/L	P436417	
	SM 2540 C-2015	TDS	2.52E+03		mg/L	P436766	RPD
	SM 2540 D-2015	TSS	21		mg/L	P436585	
	SM 4500-F- C-2011	Fluoride	0.15		mg F/L	P436803	
2443785	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P436423	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P436429	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.010		mg N/L	P437090	
	EPA 365.1 Rev. 2.0	Total-P	0.054		mg P/L	P436348	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P436408	

Ref. Method and Comment:

SM 2540 C-2015: The reported result is consistent with the conductivity measured in the laboratory, 4970 umhos/cm.

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

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Direct Runoff to Choctawhatchee Bay at City Park **Collection Date/Time: 10/09/2023 11:30**

Field ID: G3NW0002

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443786	DEP SOP: NU-094-1	Color (true)	42		PCU	P436302	
	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P436306	
	EPA 300.0 Rev. 2.1	Chloride	7.9E+03		mg Cl/L	P436650	
		Sulfate	1.1E+03		mg SO4/L	P436660	
	SM 2320 B-2011	Total Alkalinity	71		mg CaCO3/L	P436417	
	SM 2540 C-2015	TDS	1.26E+04		mg/L	P436766	RPD
	SM 2540 D-2015	TSS	12	I	mg/L	P436585	
	SM 4500-F- C-2011	Fluoride	0.48	I	mg F/L	P436579	
2443787	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P436423	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.89		mg N/L	P436429	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P437175	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P436348	
	SM 5310 B-2011	Organic Carbon	9.3		mg C/L	P436408	

Ref. Method and Comment:

SM 2540 C-2015: The reported result is consistent with the conductivity measured in the laboratory, 23500 umhos/cm.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The PQL was elevated because of sample matrix interference.

SM 4500-F- C-2011: Batch matrix spike recoveries and batch relative percent difference are unavailable because of analytical difficulties.

Sample Location: Gap Creek Powerline South of Overbrook Drive Collection Date/Time: 10/09/2023 12:40

Field ID: G3NW0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443819	EPA 8321B	Aldicarb	0.020	U	ug/L	P436137	MS
		Aldicarb Sulfone	0.0020	U	ug/L	P436137	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P436137	
		Carbaryl	0.0020	U	ug/L	P436137	
		Carbofuran	0.0020	U	ug/L	P436137	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P436137	
		Methiocarb	0.0020	U	ug/L	P436137	
		Methomyl	0.0020	U	ug/L	P436137	
		Oxamyl	0.0020	U	ug/L	P436137	
		Propoxur	0.0020	U	ug/L	P436137	
2443820		2,4-D	0.0020	U	ug/L	P436263	
		Acesulfame K	0.62		ug/L	P436195	
		2,4,5-T	0.0040	U	ug/L	P436263	
		AMPA	0.10	U	ug/L	P436195	
		Acetaminophen	0.0080	U	ug/L	P436263	
		Acetamiprid	0.0020	U	ug/L	P436263	
		Endothall	0.25	U	ug/L	P436195	
		Glufosinate	0.10	U	ug/L	P436195	
		Glyphosate	0.10	U	ug/L	P436195	
		Afidopyropen	0.0020	U	ug/L	P436263	
		Bentazon	0.0032		ug/L	P436263	
		Sucralose	0.31		ug/L	P436195	
		Benzovindiflupyr	0.0020	U	ug/L	P436263	
		Carbamazepine	8.0E-04	U	ug/L	P436263	
		Clothianidin	0.0020	U	ug/L	P436263	
		Dinotefuran	0.0020	U	ug/L	P436263	
		Diuron	0.0020	U	ug/L	P436263	
		Fenuron	0.032	U	ug/L	P436263	
		Fluridone	0.0031	I	ug/L	P436263	
		Imazapyr	0.0071	I	ug/L	P436263	
		Hydrocodone	0.0020	U	ug/L	P436263	
		Ibuprofen	0.080	U	ug/L	P436263	
		Imidacloprid	0.012		ug/L	P436263	
		Linuron	0.0040	U	ug/L	P436263	
		Mandestrobin	0.0020	U	ug/L	P436263	
		MCPP	0.0020	U	ug/L	P436263	
		Naproxen	0.0080	U	ug/L	P436263	
		Primidone	0.0040	U	ug/L	P436263	
		Pyraclostrobin	0.0020	U	ug/L	P436263	
		Silvex	0.0040	U	ug/L	P436263	
		Thiamethoxam	0.0020	U	ug/L	P436263	
		Tolfenpyrad	0.0020	U	ug/L	P436263	
		Triclopyr	0.0040	U	ug/L	P436263	
2443822	EPA 8270E	Aldrin	0.76	U	ng/L	P436250	

Field ID: G3NW0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443822	EPA 8270E	Alpha-BHC	0.12	U	ng/L	P436250	
		Alpha-Chlordane	0.23	U	ng/L	P436250	
		PCB-1016	2.3	U	ng/L	P436250	
		Beta-BHC	0.12	U	ng/L	P436250	
		PCB-1221	2.3	U	ng/L	P436250	
		Beta-Cyfluthrin	1.5	U	ng/L	P436250	
		PCB-1232	2.3	U	ng/L	P436250	
		Bifenthrin	0.59	U	ng/L	P436250	
		PCB-1242	2.3	U	ng/L	P436250	
		PCB-1248	2.3	U	ng/L	P436250	
		Chlorothalonil	4.2	U	ng/L	P436250	
		PCB-1254	2.3	U	ng/L	P436250	
		Cis-Nonachlor	0.23	U	ng/L	P436250	
		PCB-1260	2.3	U	ng/L	P436250	
		Cypermethrin	1.8	U	ng/L	P436250	
		Dacthal	0.18	U	ng/L	P436250	
		DDD-p,p'	0.29	U	ng/L	P436250	
		DDE-p,p'	0.23	U	ng/L	P436250	
		DDT-p,p'	1.1	I	ng/L	P436250	
		Delta-BHC	0.47	U	ng/L	P436250	RPD
		Deltamethrin	1.5	U	ng/L	P436250	
		Dichlobenil	0.29	U	ng/L	P436250	
		Dicofol	1.5	U	ng/L	P436250	
		Dieldrin	0.47	U	ng/L	P436250	
		Endosulfan I	0.47	U	ng/L	P436250	
		Endosulfan II	1.1	U	ng/L	P436250	
		Endosulfan Sulfate	0.35	U	ng/L	P436250	
		Endrin	1.1	U	ng/L	P436250	
		Endrin Aldehyde	0.88	U	ng/L	P436250	
		Endrin Ketone	0.47	U	ng/L	P436250	
		Esfenvalerate	0.88	U	ng/L	P436250	
		Ethalfuralin	0.18	U	ng/L	P436250	MS
		Fenpropathrin	0.29	U	ng/L	P436250	
		Gamma-BHC	0.15	U	ng/L	P436250	
		Gamma-Chlordane	0.23	U	ng/L	P436250	
		Heptachlor	0.23	U	ng/L	P436250	
		Heptachlor Epoxide	0.29	U	ng/L	P436250	
		Hexachlorobenzene**	1.2	U	ng/L	P436250	
		Kepone	16	UJ	ng/L	P436250	CCV
		Lambda-Cyhalothrin	0.88	U	ng/L	P436250	
		Methoprene	0.88	U	ng/L	P436250	
		Methoxychlor	0.35	U	ng/L	P436250	
		MGK-264	0.23	U	ng/L	P436250	
		Mirex	0.41	UJ	ng/L	P436250	LCS
		Oxychlordane	0.35	U	ng/L	P436250	

Field ID: G3NW0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443822	EPA 8270E	Permethrin	1.9	U	ng/L	P436250	
		Phenothrin	1.1	U	ng/L	P436250	
		Piperonyl Butoxide	0.18	U	ng/L	P436250	
		Prallethrin	2.3	U	ng/L	P436250	
		Tau-Fluvalinate	0.29	U	ng/L	P436250	
		Tetramethrin	0.88	U	ng/L	P436250	
		Trans-Nonachlor	0.23	U	ng/L	P436250	RPD
		Triclosan Methyl	0.18	U	ng/L	P436250	
		Trifluralin	0.23	U	ng/L	P436250	
		Chlordane	2.3	U	ng/L	P436250	
	EPA 8276	Toxaphene	18	U	ng/L	P436250	
		Oxybenzone**	12	U	ng/L	P436252	
2443823	EPA 8270E	Acetochlor	0.23	UQ	ng/L	P436600	
		Octinoxate**	170	U	ng/L	P436252	
		Alachlor	0.47	UQ	ng/L	P436600	MS
		Avobenzone**	120	U	ng/L	P436252	
		Ametryn	1.3	UQ	ng/L	P436600	
		Atrazine	1.9	Q	ng/L	P436600	
		PBDE-47**	4.6	U	ng/L	P436252	RPD
		Atrazine Desethyl	2.3	IQ	ng/L	P436600	
		PBDE-99**	5.8	U	ng/L	P436252	
		Azinphos Methyl	3.5	UQ	ng/L	P436600	
		Tri-o-cresyl Phosphate**	6.9	U	ng/L	P436252	
		Azoxystrobin	0.47	UQ	ng/L	P436600	
		Bromacil	0.70	UQ	ng/L	P436600	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	14	U	ng/L	P436252	
		Butylate	0.52	UQ	ng/L	P436600	
		Dechlorane Plus**	35	U	ng/L	P436252	
		Caffeine**	8.7	UQ	ng/L	P436600	
		Dechlorane 602**	5.8	U	ng/L	P436252	RPD
		Carbophenothion	0.58	UQ	ng/L	P436600	
		Dechlorane 603**	4.6	U	ng/L	P436252	
		Carfentrazone Ethyl	0.17	UQ	ng/L	P436600	
		Hexabromobenzene**	6.9	U	ng/L	P436252	
		Chlorfenapyr	0.35	UQ	ng/L	P436600	
		PBB-153**	6.9	U	ng/L	P436252	
		Chlorpyrifos Ethyl	0.35	UQ	ng/L	P436600	
		Pentabromotoluene**	3.5	U	ng/L	P436252	
		Chlorpyrifos Methyl	0.12	UQ	ng/L	P436600	
		Tris(2-chloroethyl) phosphate (TCEP)**	63	U	ng/L	P436252	RPD
		Coumaphos	1.2	UQ	ng/L	P436600	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	29	I	ng/L	P436252	
		Cyanazine	5.8	UQ	ng/L	P436600	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.9	U	ng/L	P436252	

Field ID: G3NW0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443823	EPA 8270E	Cyprodinil	0.23	UQ	ng/L	P436600	
		Tetradecachloro-m-terphenyl**	8.6	U	ng/L	P436252	
		Demeton	4.1	UQ	ng/L	P436600	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	69	U	ng/L	P436252	RPD
		Diazinon	0.15	UQ	ng/L	P436600	
		Difenoconazole	0.70	UQ	ng/L	P436600	
		Dimethenamid	0.12	UQ	ng/L	P436600	
		Dimethomorph	0.35	UQ	ng/L	P436600	MS
		Disulfoton	0.70	UQ	ng/L	P436600	
		Dithiopyr	1.2	UQ	ng/L	P436600	MS
		EPTC	0.58	UQ	ng/L	P436600	
		Ethion	0.35	UQ	ng/L	P436600	
		Ethoprop	0.15	UQ	ng/L	P436600	
		Etridiazole	0.12	UQ	ng/L	P436600	
		Fenamiphos	0.52	UQ	ng/L	P436600	
		Fenbuconazole	0.58	UQ	ng/L	P436600	
		Fipronil	2.0	Q	ng/L	P436600	
		Fipronil Desulfinyl**	0.70	Q	ng/L	P436600	
		Fipronil Sulfide	4.0	Q	ng/L	P436600	
		Fipronil Sulfone	6.6	Q	ng/L	P436600	
		Fluazifop-P-butyl	0.12	UQ	ng/L	P436600	
		Fludioxonil	0.12	UQ	ng/L	P436600	
		Flumioxazin	3.5	UQ	ng/L	P436600	
		Flutolanil	0.12	UQ	ng/L	P436600	
		Fluxapyroxad	0.29	UQ	ng/L	P436600	
		Fonofos	0.17	UQ	ng/L	P436600	
		Hexazinone	0.58	UQ	ng/L	P436600	
		Imazalil	0.76	UQ	ng/L	P436600	
		Iprodione	0.58	UQ	ng/L	P436600	RPD
		Loratadine**	0.35	UQ	ng/L	P436600	
		Malathion	0.41	UQ	ng/L	P436600	
		Metalaxyl	0.58	UQ	ng/L	P436600	
		Metolachlor	0.87	UQ	ng/L	P436600	RPD
		Metribuzin	0.47	UQ	ng/L	P436600	
		Mevinphos	1.2	UQ	ng/L	P436600	
		Molinate	0.29	UQJ	ng/L	P436600	LCS
		Myclobutanil	0.41	UQ	ng/L	P436600	
		Naled	2.9	UQ	ng/L	P436600	
		Napropamide	0.81	UQ	ng/L	P436600	
		Norflurazon	1.2	UQ	ng/L	P436600	
		Oxadiazon	0.41	UQ	ng/L	P436600	
		Oxyfluorfen	0.23	UQ	ng/L	P436600	
		Parathion Ethyl	0.17	UQ	ng/L	P436600	
		Parathion Methyl	0.23	UQ	ng/L	P436600	

Field ID: G3NW0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443823	EPA 8270E	Pendimethalin	2.0	UQ	ng/L	P436600	
		Phenytain**	6.2	UQ	ng/L	P436600	
		Phorate	0.29	UQ	ng/L	P436600	MS
		Prodiamine	0.23	UQ	ng/L	P436600	
		Prometon	3.5	UQ	ng/L	P436600	
		Prometryn	0.41	UQ	ng/L	P436600	
		Pronamide	0.12	UQ	ng/L	P436600	
		Propanil	0.12	UQ	ng/L	P436600	
		Propargite	0.93	UQ	ng/L	P436600	
		Propiconazole	0.70	UQ	ng/L	P436600	
		Pyraflufen Ethyl	0.35	UQ	ng/L	P436600	
		Pyridaben	1.6	UQ	ng/L	P436600	
		Pyriproxyfen	0.29	UQ	ng/L	P436600	
		Simazine	0.29	UQ	ng/L	P436600	
		Stirophos	0.47	UQ	ng/L	P436600	
		Sulfentrazone	5.2	IQ	ng/L	P436600	
		Tebuconazole	1.6	UQ	ng/L	P436600	
		Terbufos	0.23	UQ	ng/L	P436600	
		Terbuthylazine	0.23	UQ	ng/L	P436600	
		Thiobencarb	0.58	UQ	ng/L	P436600	RPD
		Triadimefon	0.17	UQ	ng/L	P436600	

Ref. Method and Comment:
 EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.
 EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
 EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Sample expired for preparation due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Gap Creek South of Gail La Rue Cul De Sac

Collection Date/Time: 10/09/2023 12:20

Field ID: G3NW0208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443821	EPA 8321B	2,4-D	0.0020	U	ug/L	P436263	
		Acesulfame K	0.16	I	ug/L	P436195	
		2,4,5-T	0.0040	U	ug/L	P436263	
		AMPA	0.10	U	ug/L	P436195	
		Acetaminophen	0.0080	U	ug/L	P436263	
		Acetamiprid	0.0020	U	ug/L	P436263	
		Endothall	0.25	U	ug/L	P436195	
		Glufosinate	0.10	U	ug/L	P436195	
		Glyphosate	0.10	U	ug/L	P436195	
		Afidopyropen	0.0020	U	ug/L	P436263	
		Bentazon	0.0041		ug/L	P436263	
		Sucralose	0.19		ug/L	P436195	
		Benzovindiflupyr	0.0020	U	ug/L	P436263	
		Carbamazepine	8.0E-04	U	ug/L	P436263	
		Clothianidin	0.0020	U	ug/L	P436263	
		Dinotefuran	0.0020	U	ug/L	P436263	
		Diuron	0.0020	U	ug/L	P436263	
		Fenuron	0.032	U	ug/L	P436263	
		Fluridone	8.0E-04	U	ug/L	P436263	
		Imazapyr	0.013	I	ug/L	P436263	
		Hydrocodone	0.0020	U	ug/L	P436263	
		Ibuprofen	0.080	U	ug/L	P436263	
		Imidacloprid	0.0025	I	ug/L	P436263	
		Linuron	0.0040	U	ug/L	P436263	
		Mandestrobin	0.0020	U	ug/L	P436263	
		MCPP	0.0020	U	ug/L	P436263	
		Naproxen	0.0080	U	ug/L	P436263	
		Primidone	0.0040	U	ug/L	P436263	
		Pyraclostrobin	0.0020	U	ug/L	P436263	
		Silvex	0.0040	U	ug/L	P436263	
		Thiamethoxam	0.0020	U	ug/L	P436263	
		Tolfenpyrad	0.0020	U	ug/L	P436263	
		Triclopyr	0.0040	U	ug/L	P436263	
2443825	EPA 200.7 Rev. 4.4	Calcium	16.3		mg/L	P436354	
		Iron	680		ug/L	P436354	
		Magnesium	1.76		mg/L	P436354	
		Potassium	0.75	I	mg/L	P436354	
		Sodium	11.2		mg/L	P436354	
		Strontium	88.2		ug/L	P436354	
		Tin	3.0	U	ug/L	P436354	
		Titanium	0.75	U	ug/L	P436354	
		Vanadium	2.0	U	ug/L	P436354	
		Zinc	5.0	U	ug/L	P436354	
	EPA 200.8 Rev. 5.4	Aluminum	91		ug/L	P436354	

Field ID: G3NW0208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443825	EPA 200.8 Rev. 5.4	Antimony	0.050	U	ug/L	P436354	
		Arsenic	0.50		ug/L	P436354	
		Barium	15.9		ug/L	P436354	
		Beryllium	0.010	U	ug/L	P436354	
		Boron	35.2		ug/L	P436354	
		Cadmium	0.020	U	ug/L	P436354	
		Chromium	0.40	U	ug/L	P436354	
		Cobalt	0.090		ug/L	P436354	
		Copper	0.40	U	ug/L	P436354	
		Lead	0.20	U	ug/L	P436354	
		Manganese	17.6		ug/L	P436354	
		Molybdenum	0.15	U	ug/L	P436354	
		Nickel	0.50	U	ug/L	P436354	
		Selenium	0.20	U	ug/L	P436354	
		Silver	0.010	U	ug/L	P436354	
		Thallium	0.10	U	ug/L	P436354	
	SM 2340 B-2011	Hardness	47.9		mg/L	P436354	

Ref. Method and Comment:
 EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: FB

Collection Date/Time: 10/09/2023 12:50

Field ID: FB_10092023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443788	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P436302	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P436306	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P436650	
		Sulfate	0.20	U	mg SO4/L	P436660	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P436416	
	SM 2540 C-2015	TDS	15	U	mg/L	P436766	RPD
	SM 2540 D-2015	TSS	2	U	mg/L	P436583	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P436607	
2443789	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P436424	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P436635	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P436641	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P436351	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P436658	
2443824	EPA 8270E	Aldrin	0.70	U	ng/L	P436250	
		Alpha-BHC	0.11	U	ng/L	P436250	
		Alpha-Chlordane	0.22	U	ng/L	P436250	
		PCB-1016	2.2	U	ng/L	P436250	
		Beta-BHC	0.11	U	ng/L	P436250	
		PCB-1221	2.2	U	ng/L	P436250	
		Beta-Cyfluthrin	1.3	U	ng/L	P436250	
		PCB-1232	2.2	U	ng/L	P436250	
		Bifenthrin	0.54	U	ng/L	P436250	
		PCB-1242	2.2	U	ng/L	P436250	
		PCB-1248	2.2	U	ng/L	P436250	
		Chlorothalonil	3.9	UJ	ng/L	P436250	CCV
		PCB-1254	2.2	U	ng/L	P436250	
		Cis-Nonachlor	0.22	U	ng/L	P436250	
		PCB-1260	2.2	U	ng/L	P436250	
		Cypermethrin	1.6	U	ng/L	P436250	
		Dacthal	0.16	U	ng/L	P436250	
		DDD-p,p'	0.27	U	ng/L	P436250	
		DDE-p,p'	0.22	U	ng/L	P436250	
		DDT-p,p'	0.86	U	ng/L	P436250	
		Delta-BHC	0.43	U	ng/L	P436250	RPD
		Deltamethrin	1.3	U	ng/L	P436250	
		Dichlobenil	0.27	U	ng/L	P436250	
		Dicofol	1.3	U	ng/L	P436250	
		Diieldrin	0.43	U	ng/L	P436250	
		Endosulfan I	0.43	U	ng/L	P436250	
		Endosulfan II	0.97	U	ng/L	P436250	
		Endosulfan Sulfate	0.32	U	ng/L	P436250	
		Endrin	0.97	U	ng/L	P436250	
		Endrin Aldehyde	0.81	U	ng/L	P436250	
		Endrin Ketone	0.43	U	ng/L	P436250	

Field ID: FB_10092023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443824	EPA 8270E	Esfenvalerate	0.81	U	ng/L	P436250	
		Ethalfuralin	0.16	U	ng/L	P436250	MS
		Fenpropathrin	0.27	U	ng/L	P436250	
		Gamma-BHC	0.13	U	ng/L	P436250	
		Gamma-Chlordane	0.22	U	ng/L	P436250	
		Heptachlor	0.22	U	ng/L	P436250	
		Heptachlor Epoxide	0.27	U	ng/L	P436250	
		Hexachlorobenzene**	1.1	U	ng/L	P436250	
		Kepone	15	U	ng/L	P436250	
		Lambda-Cyhalothrin	0.81	U	ng/L	P436250	
		Methoprene	0.81	U	ng/L	P436250	
		Methoxychlor	0.32	U	ng/L	P436250	
		MGK-264	0.22	U	ng/L	P436250	
		Mirex	0.38	UJ	ng/L	P436250	LCS
		Oxychlordane	0.32	U	ng/L	P436250	
		Permethrin	1.7	U	ng/L	P436250	
		Phenothrin	0.97	U	ng/L	P436250	
		Piperonyl Butoxide	0.16	U	ng/L	P436250	
		Prallethrin	2.2	U	ng/L	P436250	
		Tau-Fluvalinate	0.27	U	ng/L	P436250	
		Tetramethrin	0.81	U	ng/L	P436250	
		Trans-Nonachlor	0.22	U	ng/L	P436250	RPD
		Triclosan Methyl	0.16	U	ng/L	P436250	
		Trifluralin	0.22	U	ng/L	P436250	
		Chlordane	2.2	UJ	ng/L	P436250	SUR
		Toxaphene	16	UJ	ng/L	P436250	SUR
2443826	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P436354	
		Iron	30	U	ug/L	P436354	
		Magnesium	0.040	U	mg/L	P436354	
		Potassium	0.30	U	mg/L	P436354	
		Sodium	0.50	U	mg/L	P436354	
		Strontium	2.0	U	ug/L	P436354	
		Tin	3.0	U	ug/L	P436354	
		Titanium	0.75	U	ug/L	P436354	
		Vanadium	2.0	U	ug/L	P436354	
		Zinc	5.0	U	ug/L	P436354	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P436354	
		Antimony	0.050	U	ug/L	P436354	
		Arsenic	0.050	U	ug/L	P436354	
		Barium	0.20	U	ug/L	P436354	
		Beryllium	0.010	U	ug/L	P436354	
		Boron	2.0	U	ug/L	P436354	
		Cadmium	0.020	U	ug/L	P436354	
		Chromium	0.40	U	ug/L	P436354	
		Cobalt	0.020	U	ug/L	P436354	

Field ID: FB_10092023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443826	EPA 200.8 Rev. 5.4	Copper	0.40	U	ug/L	P436354	
		Lead	0.20	U	ug/L	P436354	
		Manganese	0.10	U	ug/L	P436354	
		Molybdenum	0.15	U	ug/L	P436354	
		Nickel	0.50	U	ug/L	P436354	
		Selenium	0.20	U	ug/L	P436354	
		Silver	0.010	U	ug/L	P436354	
		Thallium	0.10	U	ug/L	P436354	

Ref. Method and Comment:
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P436302

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436306

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436354

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436354

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436650

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436660

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436423

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436424

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436428

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436429

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436635

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436382

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436641

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437090

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437175

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436348

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436351

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

Reference Method: EPA 8270E
Batch ID: P436250

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436250

Component	Result	Code	Units
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P436252

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Avobenzone	100	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Octinoxate	150	U	ng/L
Oxybenzone	10	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8270E

Batch ID: P436600

Component	Result	Code	Units
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436600

Component	Result	Code	Units
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436600

Component	Result	Code	Units
Oxadiazon	0.35	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Pendimethalin	1.7	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiatamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Thiobencarb	0.50	U	ng/L
Triadimefon	0.15	U	ng/L

Reference Method: EPA 8276

Batch ID: P436250

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

Reference Method: EPA 8321B

Batch ID: P436137

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

Reference Method: EPA 8321B

Batch ID: P436195

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P436195

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: P436263

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

Reference Method: SM 2320 B-2011

Batch ID: P436416

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

Reference Method: SM 2320 B-2011

Batch ID: P436417

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2015
Batch ID: P436766

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P436583

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P436585

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P436579

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P436607

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P436803

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P436407

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

Reference Method: SM 5310 B-2011
Batch ID: P436408

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

Reference Method: SM 5310 B-2011
Batch ID: P436658

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: P436302

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436306

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436354

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	96.4		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	88.6		P	85 - 115
Sodium	104		P	85 - 115
Strontium	108		P	85 - 115
Tin	101		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436354

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.4		P	85 - 115
Antimony	98.2		P	85 - 115
Arsenic	99.6		P	85 - 115
Barium	102		P	85 - 115
Beryllium	97.3		P	85 - 115
Boron	105		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	101		P	85 - 115
Copper	97.5		P	85 - 115
Lead	94.3		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	97.3		P	85 - 115
Nickel	99.3		P	85 - 115
Selenium	98.5		P	85 - 115
Silver	108		P	85 - 115
Thallium	99.9		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436650

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436660

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436423

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436424

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436428

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436429

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436635

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436382

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436641

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437090

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P437175

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P436348

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P436351

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

Reference Method: EPA 8270E

Batch ID: P436250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	86.3		P	30 - 96.0
Alpha-BHC	94.8		P	70 - 109
Alpha-Chlordane	99.1		P	45 - 107
Beta-BHC	95.0		P	64 - 138
Beta-Cyfluthrin	140		P	17 - 141
Bifenthrin	102		P	10 - 113
Chlorothalonil	112		P	26 - 180
Cis-Nonachlor	101		P	37 - 102
Cypermethrin	97.5		P	20 - 133
Dacthal	114		P	69 - 114
DDD-p,p'	96.7		P	42 - 105
DDE-p,p'	80.4		P	42 - 106
DDT-p,p'	102		P	42 - 107
Delta-BHC	101		P	67 - 144
Deltamethrin	148		P	15 - 149
Dichlobenil	108		P	46 - 117
Dicofol	95.2		P	34 - 114
Dieldrin	80.6		P	50 - 108
Endosulfan I	96.8		P	55 - 104
Endosulfan II	110		P	51 - 111
Endosulfan Sulfate	103		P	56 - 121
Endrin	78.0		P	10 - 106
Endrin Aldehyde	95.1		P	34 - 114
Endrin Ketone	102		P	63 - 177
Esfenvalerate	136		P	29 - 143
Ethalfuralin	92.2		P	46 - 96.0
Fenpropathrin	95.7		P	28 - 115
Gamma-BHC	77.8		P	65 - 121
Gamma-Chlordane	103		P	39 - 103
Heptachlor	63.0		P	39 - 94.0
Heptachlor Epoxide	103		P	54 - 104
Hexachlorobenzene	96.1		P	36 - 100
Kepone	85.3		P	10 - 225
Lambda-Cyhalothrin	112		P	10 - 135

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methoprene	84.4		P	10 - 109
Methoxychlor	93.6		P	52 - 112
MGK-264	113		P	44 - 117
Mirex	98.1		F	20 - 90.0
Oxychlordane	77.2		P	44 - 102
PCB-1016	88.0		P	45 - 107
PCB-1260	82.6		P	40 - 118
Permethrin	129		P	18 - 135
Phenothrin	95.4		P	10 - 102
Piperonyl Butoxide	147		P	28 - 156
Prallethrin	109		P	28 - 113
Tau-Fluvalinate	105		P	10 - 123
Tetramethrin	112		P	18 - 158
Trans-Nonachlor	100		P	39 - 104
Triclosan Methyl	81.6		P	54 - 108
Trifluralin	95.3		P	46 - 97.0

Reference Method: EPA 8270E

Batch ID: P436252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	75.1		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107		P	37 - 154
Avobenzone	119		P	48 - 193
Dechlorane 602	80.1		P	23 - 142
Dechlorane 603	111		P	51 - 171
Dechlorane Plus	94.8		P	46 - 161
Hexabromobenzene	120		P	52 - 165
Octinoxate	145		P	29 - 176
Oxybenzone	123		P	45 - 145
PBB-153	108		P	42 - 179
PBDE-47	102		P	44 - 141
PBDE-99	94.9		P	36 - 141
Pentabromotoluene	115		P	58 - 148
Tetradecachloro-m-terphenyl	109		P	30 - 235
Tri-o-cresyl Phosphate	123		P	50 - 150
Tris(1-chloro-2-propyl) phosphate (TCPP)	140		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	109		P	59 - 166

Reference Method: EPA 8270E

Batch ID: P436600

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	96.6		P	64 - 124
Alachlor	99.8		P	61 - 118
Ametryn	106		P	47 - 158
Atrazine	89.3		P	68 - 121
Atrazine Desethyl	79.0		P	30 - 119
Azinphos Methyl	93.7		P	30 - 194
Azoxystrobin	86.7		P	58 - 154
Bromacil	77.9		P	47 - 126

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P436600

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Butylate	42.7		P	31 - 83.0
Caffeine	88.2		P	10 - 180
Carbophenothion	90.0		P	59 - 133
Carfentrazone Ethyl	97.3		P	59 - 147
Chlorfenapyr	65.2		P	52 - 118
Chlorpyrifos Ethyl	86.4		P	59 - 119
Chlorpyrifos Methyl	83.0		P	65 - 123
Coumaphos	76.4		P	11 - 223
Cyanazine	113		P	63 - 250
Cyprodinil	83.7		P	52 - 143
Demeton	54.6		P	42 - 119
Diazinon	95.9		P	67 - 132
Difenoconazole	99.2		P	12 - 204
Dimethenamid	74.7		P	53 - 113
Dimethomorph	139		P	13 - 238
Disulfoton	94.6		P	56 - 126
Dithiopyr	69.5		P	58 - 127
EPTC	38.8		P	31 - 78.0
Ethion	74.4		P	24 - 127
Ethoprop	74.0		P	60 - 118
Etridiazole	41.9		P	32 - 91.0
Fenamiphos	80.7		P	54 - 129
Fenbuconazole	58.4		P	31 - 162
Fipronil	77.3		P	56 - 131
Fipronil Desulfinyl	76.7		P	58 - 132
Fipronil Sulfide	65.6		P	51 - 123
Fipronil Sulfone	70.8		P	50 - 125
Fluazifop-P-butyl	75.3		P	52 - 132
Fludioxonil	68.5		P	52 - 129
Flumioxazin	97.7		P	34 - 250
Flutolanil	67.1		P	45 - 128
Fluxapyroxad	82.7		P	31 - 150
Fonofos	88.2		P	60 - 116
Hexazinone	86.4		P	59 - 120
Imazalil	86.1		P	39 - 134
Iprodione	80.4		P	39 - 243
Loratadine	112		P	10 - 240
Malathion	93.1		P	53 - 145
Metalaxyl	81.1		P	59 - 120
Metolachlor	87.2		P	64 - 122
Metribuzin	87.0		P	33 - 128
Mevinphos	89.4		P	48 - 119
Molinate	39.0		F	42 - 89.0
Myclobutanil	69.0		P	54 - 129
Naled	36.6		P	10 - 138
Napropamide	80.0		P	40 - 122
Norflurazon	98.3		P	49 - 132
Oxadiazon	64.9		P	50 - 115
Oxyfluorfen	91.1		P	62 - 149
Parathion Ethyl	87.0		P	68 - 119
Parathion Methyl	95.4		P	68 - 147
Pendimethalin	87.7		P	59 - 158

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436600

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phenytoin	115		P	10 - 151
Phorate	110		P	44 - 124
Prodiamine	44.1		P	10 - 136
Prometon	108		P	45 - 131
Prometryn	83.6		P	52 - 140
Pronamide	99.3		P	70 - 129
Propanil	89.8		P	54 - 144
Propargite	68.0		P	10 - 191
Propiconazole	69.7		P	49 - 128
Pyraflufen Ethyl	93.3		P	46 - 141
Pyridaben	95.8		P	29 - 198
Pyriproxyfen	67.6		P	33 - 221
Simazine	87.3		P	62 - 119
Stirophos	61.9		P	13 - 144
Sulfentrazone	59.2		P	12 - 152
Tebuconazole	76.4		P	10 - 135
Terbufos	87.7		P	67 - 136
Terbutylazine	67.5		P	66 - 113
Thiobencarb	72.8		P	51 - 125
Triadimefon	65.3		P	57 - 118

Reference Method: EPA 8276

Batch ID: P436250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	71.7		P	52 - 117
Toxaphene	83.8		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P436137

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	72.3		P	40 - 150
Aldicarb	66.5		P	30 - 150
Aldicarb Sulfone	88.6		P	40 - 150
Aldicarb Sulfoxide	100		P	40 - 150
Carbaryl	73.5		P	40 - 150
Carbofuran	85.9		P	40 - 150
Methiocarb	61.3		P	40 - 150
Methomyl	74.7		P	40 - 150
Oxamyl	81.4		P	40 - 150
Propoxur	80.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436195

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	106		P	40 - 150
AMPA	93.4		P	40 - 150
Endothall	90.0		P	40 - 150
Glufosinate	78.2		P	40 - 150
Glyphosate	73.9		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P436195

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	91.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P436263

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	70.4		P	40 - 150
2,4,5-T	67.7		P	40 - 150
Acetaminophen	80.7		P	30 - 150
Acetamiprid	81.7		P	40 - 150
Afidopyropen	69.0		P	30 - 150
Bentazon	107		P	30 - 150
Benzovindiflupyr	67.1		P	40 - 150
Carbamazepine	69.6		P	40 - 150
Clothianidin	82.6		P	40 - 150
Dinotefuran	96.1		P	40 - 150
Diuron	64.4		P	40 - 150
Fenuron	83.4		P	40 - 150
Fluridone	69.6		P	40 - 150
Hydrocodone	86.3		P	40 - 150
Ibuprofen	49.7		P	40 - 150
Imazapyr	75.0		P	40 - 150
Imidacloprid	78.8		P	40 - 150
Linuron	57.4		P	40 - 150
Mandestrobin	59.4		P	40 - 150
MCPP	80.1		P	40 - 150
Naproxen	52.1		P	40 - 150
Primidone	79.1		P	40 - 150
Pyraclostrobin	68.8		P	40 - 150
Silvex	72.8		P	40 - 150
Thiamethoxam	80.8		P	40 - 150
Tolfenpyrad	45.5		P	30 - 150
Triclopyr	69.5		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P436416

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.5		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P436417

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.2		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P436766

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	106		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P436583

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	108		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P436585

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	104		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P436579

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

Reference Method: SM 4500-F- C-2011
Batch ID: P436607

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

Reference Method: SM 4500-F- C-2011
Batch ID: P436803

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

Reference Method: SM 5310 B-2011
Batch ID: P436407

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.4		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P436408

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.2		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P436658

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P436354

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443758	Calcium	102	105	P/P	80 - 120
2443758	Iron	94.8	95.2	P/P	80 - 120
2443758	Magnesium	104	107	P/P	80 - 120
2443758	Potassium	94.4	96.1	P/P	80 - 120
2443758	Sodium	100		P	80 - 120
2443758	Strontium	106	106	P/P	80 - 120
2443758	Tin	99.2	103	P/P	80 - 120
2443758	Titanium	101	103	P/P	80 - 120
2443758	Vanadium	101	102	P/P	80 - 120
2443758	Zinc	97.6	101	P/P	80 - 120
2443919	Calcium	94.2		P	80 - 120
2443919	Iron	95.7		P	80 - 120
2443919	Magnesium	94.7		P	80 - 120
2443919	Potassium	104		P	80 - 120
2443919	Sodium	105		P	80 - 120
2443919	Strontium	107		P	80 - 120
2443919	Tin	101		P	80 - 120
2443919	Titanium	102		P	80 - 120
2443919	Vanadium	102		P	80 - 120
2443919	Zinc	99.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436354

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443758	Aluminum	99.3	102	P/P	80 - 120
2443758	Antimony	98.9	98.3	P/P	80 - 120
2443758	Arsenic	99.7	99.0	P/P	80 - 120
2443758	Barium	99.1	101	P/P	80 - 120
2443758	Beryllium	96.4	92.5	P/P	80 - 120
2443758	Boron	105	103	P/P	80 - 120
2443758	Cadmium	100	101	P/P	80 - 120
2443758	Chromium	99.9	98.8	P/P	80 - 120
2443758	Cobalt	99.4	99.7	P/P	80 - 120
2443758	Copper	98.8	100	P/P	80 - 120
2443758	Lead	94.5	96.0	P/P	80 - 120
2443758	Manganese	98.7	99.3	P/P	80 - 120
2443758	Molybdenum	99.0	98.3	P/P	80 - 120
2443758	Nickel	98.5	97.8	P/P	80 - 120
2443758	Selenium	98.7	97.1	P/P	80 - 120
2443758	Silver	108	107	P/P	80 - 120
2443758	Thallium	99.9	101	P/P	80 - 120
2443919	Aluminum	98.8		P	80 - 120
2443919	Antimony	100		P	80 - 120
2443919	Arsenic	98.1		P	80 - 120
2443919	Barium	99.6		P	80 - 120
2443919	Beryllium	96.0		P	80 - 120
2443919	Boron	102		P	80 - 120
2443919	Cadmium	103		P	80 - 120
2443919	Chromium	103		P	80 - 120
2443919	Cobalt	97.0		P	80 - 120
2443919	Copper	93.3		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436354

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443919	Lead	95.8		P	80 - 120
2443919	Manganese	103		P	80 - 120
2443919	Molybdenum	99.3		P	80 - 120
2443919	Nickel	94.7		P	80 - 120
2443919	Selenium	92.7		P	80 - 120
2443919	Silver	107		P	80 - 120
2443919	Thallium	101		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443726	Chloride	102		P	90 - 110
2443854	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436660

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443726	Sulfate	101		P	90 - 110
2443854	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436423

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443476	Ammonia-N	97.0	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436424

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443730	Ammonia-N	97.8	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436428

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443795	Kjeldahl Nitrogen	100	95.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443660	Kjeldahl Nitrogen	97.3	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436382

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441614	NO2NO3-N	95.5		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436641

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2442732	NO2NO3-N	96.0	97.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437090

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445190	NO2NO3-N	99.5	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437175

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443787	NO2NO3-N	97.7	98.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436348

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443955	Total-P	96.4	96.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436351

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443858	Total-P	102	103	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P436250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443478	Aldrin	63.5	67.3	P/P	24 - 81.0
2443478	Alpha-BHC	88.8	84.9	P/P	65 - 110
2443478	Alpha-Chlordane	78.3	97.8	P/P	43 - 119
2443478	Beta-BHC	95.4	117	P/P	54 - 165
2443478	Beta-Cyfluthrin	70.6	96.2	P/P	27 - 165
2443478	Bifenthrin	84.9	95.6	P/P	17 - 117
2443478	Chlorothalonil	21.7	12.3	P/P	10 - 255
2443478	Cis-Nonachlor	60.5	63.6	P/P	34 - 98.0
2443478	Cypermethrin	55.4	64.9	P/P	25 - 143
2443478	Dacthal	72.8	86.3	P/P	55 - 139
2443478	DDD-p,p'	69.6	89.0	P/P	30 - 109
2443478	DDE-p,p'	73.0	85.0	P/P	35 - 106
2443478	DDT-p,p'	88.4	88.2	P/P	41 - 101
2443478	Delta-BHC	59.6	86.7	P/P	58 - 165
2443478	Deltamethrin	99.4	122	P/P	10 - 194
2443478	Dichlobenil	45.8	55.9	P/P	22 - 114
2443478	Dicofol	76.2	78.3	P/P	17 - 133
2443478	Dieldrin	77.3	89.7	P/P	45 - 129
2443478	Endosulfan I	74.9	89.4	P/P	49 - 104
2443478	Endosulfan II	63.5	70.1	P/P	37 - 117
2443478	Endosulfan Sulfate	55.5	53.3	P/P	38 - 128
2443478	Endrin	66.8	89.0	P/P	35 - 116

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443478	Endrin Aldehyde	57.3	42.8	P/P	19 - 108
2443478	Endrin Ketone	80.4	78.6	P/P	44 - 134
2443478	Esfenvalerate	87.5	102	P/P	27 - 176
2443478	Ethalfuralin	106	92.1	F/P	49 - 100
2443478	Fenpropathrin	83.6	101	P/P	34 - 117
2443478	Gamma-BHC	64.5	66.7	P/P	59 - 129
2443478	Gamma-Chlordane	79.6	84.3	P/P	33 - 107
2443478	Heptachlor	86.3	81.1	P/P	37 - 94.0
2443478	Heptachlor Epoxide	77.7	95.1	P/P	38 - 118
2443478	Hexachlorobenzene	67.3	67.9	P/P	35 - 97.0
2443478	Kepone	47.2	57.7	P/P	10 - 221
2443478	Lambda-Cyhalothrin	69.5	83.7	P/P	23 - 190
2443478	Methoprene	76.9	84.7	P/P	21 - 109
2443478	Methoxychlor	84.0	88.9	P/P	46 - 118
2443478	MGK-264	93.4	113	P/P	39 - 122
2443478	Mirex	54.2	53.1	P/P	25 - 90.0
2443478	Oxychlordane	89.4	97.6	P/P	42 - 100
2443478	Permethrin	79.1	77.6	P/P	33 - 181
2443478	Phenothrin	74.0	77.4	P/P	12 - 125
2443478	Piperonyl Butoxide	98.7	99.2	P/P	10 - 178
2443478	Prallethrin	43.5	57.9	P/P	24 - 122
2443478	Tau-Fluvalinate	75.8	97.3	P/P	13 - 151
2443478	Tetramethrin	92.0	117	P/P	16 - 172
2443478	Trans-Nonachlor	61.9	95.1	P/P	39 - 100
2443478	Triclosan Methyl	76.4	93.3	P/P	43 - 110
2443478	Trifluralin	64.7	74.8	P/P	45 - 94.0
2443896	PCB-1016	104	89.8	P/P	45 - 107
2443896	PCB-1260	101	89.5	P/P	40 - 112

Reference Method: EPA 8270E

Batch ID: P436252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443920	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	61.7	84.8	P/P	50 - 150
2443920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101	130	P/P	29 - 155
2443920	Avobenzene	110	142	P/P	35 - 187
2443920	Dechlorane 602	54.1	104	P/P	14 - 133
2443920	Dechlorane 603	93.4	117	P/P	18 - 191
2443920	Dechlorane Plus	81.5	110	P/P	23 - 154
2443920	Hexabromobenzene	108	123	P/P	47 - 178
2443920	Octinoxate	128	163	P/P	18 - 170
2443920	Oxybenzone	113	126	P/P	33 - 154
2443920	PBB-153	90.1	119	P/P	23 - 193
2443920	PBDE-47	79.6	122	P/P	31 - 139
2443920	PBDE-99	74.8	113	P/P	24 - 138
2443920	Pentabromotoluene	105	115	P/P	54 - 152
2443920	Tetradecachloro-m-terphenyl	124	153	P/P	10 - 260
2443920	Tri-o-cresyl Phosphate	101	123	P/P	32 - 151
2443920	Tris(1-chloro-2-propyl) phosphate (TCPP)	127	151	P/P	51 - 154
2443920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.2	101	P/P	59 - 147
2443920	Tris(2-chloroethyl) phosphate (TCEP)	102	128	P/P	65 - 156

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445279	Acetochlor	78.9	83.3	P/P	60 - 124
2445279	Alachlor	145	139	F/F	54 - 122
2445279	Ametryn	52.2	53.5	P/P	51 - 208
2445279	Azinphos Methyl	51.4	58.9	P/P	43 - 276
2445279	Butylate	37.2	40.1	P/P	23 - 82.0
2445279	Caffeine	122	119	P/P	10 - 277
2445279	Carbophenothion	48.0	53.8	P/P	47 - 135
2445279	Carfentrazone Ethyl	46.8	57.3	P/P	46 - 147
2445279	Chlorfenapyr	70.6	77.7	P/P	43 - 114
2445279	Chlorpyrifos Ethyl	78.6	85.2	P/P	47 - 124
2445279	Chlorpyrifos Methyl	65.5	68.5	P/P	60 - 135
2445279	Coumaphos	57.8	64.0	P/P	10 - 222
2445279	Cyanazine	65.6	46.8	P/P	10 - 257
2445279	Cyprodinil	75.9	84.3	P/P	42 - 148
2445279	Demeton	135	137	P/P	41 - 137
2445279	Diazinon	81.6	76.6	P/P	64 - 139
2445279	Difenoconazole	142	144	P/P	46 - 254
2445279	Dimethenamid	61.5	58.8	P/P	47 - 117
2445279	Dimethomorph	243	303	P/F	14 - 255
2445279	Disulfoton	79.3	76.8	P/P	52 - 130
2445279	Dithiopyr	22.1	25.3	F/F	40 - 121
2445279	EPTC	35.4	38.3	P/P	19 - 78.0
2445279	Ethion	41.4	35.5	P/P	12 - 124
2445279	Ethoprop	102	113	P/P	68 - 144
2445279	Etridiazole	29.7	29.5	P/P	26 - 96.0
2445279	Fenamiphos	107	101	P/P	41 - 129
2445279	Fenbuconazole	65.4	79.6	P/P	26 - 169
2445279	Fipronil Desulfinyl	48.1	53.2	P/P	47 - 136
2445279	Fipronil Sulfide	47.4	46.1	P/P	41 - 127
2445279	Fluazifop-P-butyl	54.6	77.6	P/P	46 - 131
2445279	Flumioxazin	112	167	P/P	10 - 289
2445279	Flutolanil	62.5	71.4	P/P	34 - 130
2445279	Fluxapyroxad	54.0	44.6	P/P	10 - 197
2445279	Fonofos	95.8	113	P/P	42 - 131
2445279	Hexazinone	116	90.8	P/P	64 - 125
2445279	Imazalil	45.7	47.6	P/P	37 - 252
2445279	Loratadine	154	152	P/P	20 - 231
2445279	Malathion	70.8	77.7	P/P	34 - 164
2445279	Metalaxyl	53.8	52.2	P/P	49 - 125
2445279	Mevinphos	119	117	P/P	46 - 130
2445279	Molinate	43.5	44.0	P/P	39 - 93.0
2445279	Myclobutanil	61.9	61.0	P/P	50 - 130
2445279	Naled	67.6	60.9	P/P	10 - 150
2445279	Napropamide	45.0	39.1	P/P	10 - 109
2445279	Norflurazon	51.6	41.4	P/P	36 - 134
2445279	Parathion Ethyl	69.2	92.6	P/P	65 - 120
2445279	Parathion Methyl	107	88.4	P/P	77 - 185
2445279	Pendimethalin	75.8	84.8	P/P	50 - 146
2445279	Phenytoin	122	130	P/P	10 - 157
2445279	Phorate	215	201	F/F	54 - 161
2445279	Prometryn	75.0	73.2	P/P	32 - 151
2445279	Pronamide	83.7	76.0	P/P	61 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445279	Propanil	103	84.6	P/P	50 - 147
2445279	Propargite	73.7	59.3	P/P	10 - 190
2445279	Pyraflufen Ethyl	50.4	52.1	P/P	30 - 147
2445279	Pyridaben	52.2	56.0	P/P	15 - 195
2445279	Pyriproxyfen	44.7	45.0	P/P	31 - 218
2445279	Simazine	91.6	99.2	P/P	45 - 139
2445279	Stiropfos	37.7	45.7	P/P	10 - 134
2445279	Terbufos	136	139	P/P	65 - 151
2445279	Terbuthylazine	66.0	65.8	P/P	62 - 117
2445279	Thiobencarb	80.7	113	P/P	48 - 122
2445279	Triadimefon	74.8	73.4	P/P	46 - 124

Reference Method: EPA 8276

Batch ID: P436250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443896	Chlordane	80.5	72.4	P/P	43 - 123
2443896	Toxaphene	85.1	74.9	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P436137

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443202	3-Hydroxycarbofuran	83.1	87.1	P/P	40 - 150
2443202	Aldicarb	69.0	57.9	P/P	30 - 150
2443202	Aldicarb Sulfone	93.8	91.0	P/P	40 - 150
2443202	Aldicarb Sulfoxide	39.4	36.3	F/F	40 - 150
2443202	Carbaryl	57.6	54.4	P/P	40 - 150
2443202	Carbofuran	62.1	57.4	P/P	40 - 150
2443202	Methiocarb	59.3	47.1	P/P	40 - 150
2443202	Methomyl	68.0	65.0	P/P	40 - 150
2443202	Oxamyl	77.2	75.7	P/P	40 - 150
2443202	Propoxur	57.8	54.8	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436195

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443120	Acesulfame K	130	137	P/P	40 - 150
2443120	AMPA	84.8	82.8	P/P	40 - 150
2443120	Endothall	98.1	94.5	P/P	40 - 150
2443120	Glufosinate	78.9	77.4	P/P	40 - 150
2443120	Glyphosate	102	118	P/P	40 - 150
2443120	Sucralose	107	96.5	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436263

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443453	2,4-D	70.5	87.1	P/P	40 - 150
2443453	2,4,5-T	79.0	87.0	P/P	40 - 150
2443453	Acetaminophen	94.7	91.2	P/P	30 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P436263

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443453	Acetamiprid	62.1	58.2	P/P	40 - 150
2443453	Afidopyropen	63.3	62.9	P/P	30 - 150
2443453	Benzovindiflupyr	60.5	71.3	P/P	40 - 150
2443453	Carbamazepine	49.7	49.5	P/P	40 - 150
2443453	Clothianidin	76.7	73.5	P/P	40 - 150
2443453	Dinotefuran	76.6	79.8	P/P	40 - 150
2443453	Diuron	49.2	46.8	P/P	40 - 150
2443453	Fenuron	45.5	44.5	P/P	40 - 150
2443453	Fluridone	59.4	62.9	P/P	40 - 150
2443453	Hydrocodone	63.2	62.6	P/P	40 - 150
2443453	Ibuprofen	63.1	60.2	P/P	40 - 150
2443453	Imazapyr	83.7	90.6	P/P	40 - 150
2443453	Imidacloprid	101	101	P/P	40 - 150
2443453	Linuron	49.2	48.4	P/P	40 - 150
2443453	Mandestrobin	48.8	63.9	P/P	40 - 150
2443453	MCCP	94.7	103	P/P	40 - 150
2443453	Naproxen	70.3	69.6	P/P	40 - 150
2443453	Primidone	72.8	75.1	P/P	40 - 150
2443453	Pyraclostrobin	60.9	68.1	P/P	40 - 150
2443453	Silvex	81.1	88.6	P/P	40 - 150
2443453	Thiamethoxam	79.0	74.6	P/P	40 - 150
2443453	Tolfenpyrad	46.3	51.4	P/P	30 - 150
2443453	Triclopyr	82.9	89.9	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P436607

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444038	Fluoride	102	102	P/P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P436407

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443729	Organic Carbon	93.8	95.5	P/P	85 - 115

Reference Method: SM 5310 B-2011

Batch ID: P436408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443785	Organic Carbon	94.9	96.5	P/P	85 - 115

Reference Method: SM 5310 B-2011

Batch ID: P436658

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444488	Organic Carbon	95.0	97.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436302

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443726	Color (true)	2.55	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443727	Turbidity	7.46	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436354

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443758	Calcium	1.94	Spike	P	0 - 20
2443758	Iron	0.435	Spike	P	0 - 20
2443758	Magnesium	2.14	Spike	P	0 - 20
2443758	Potassium	1.86	Spike	P	0 - 20
2443758	Sodium	0.773	Spike	P	0 - 20
2443758	Strontium	0.288	Spike	P	0 - 20
2443758	Tin	3.84	Spike	P	0 - 20
2443758	Titanium	2.15	Spike	P	0 - 20
2443758	Vanadium	1.72	Spike	P	0 - 20
2443758	Zinc	3.44	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436354

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443758	Aluminum	2.12	Spike	P	0 - 20
2443758	Antimony	0.559	Spike	P	0 - 20
2443758	Arsenic	0.672	Spike	P	0 - 20
2443758	Barium	0.978	Spike	P	0 - 20
2443758	Beryllium	3.57	Spike	P	0 - 20
2443758	Boron	2.29	Spike	P	0 - 20
2443758	Cadmium	0.211	Spike	P	0 - 20
2443758	Chromium	1.08	Spike	P	0 - 20
2443758	Cobalt	0.214	Spike	P	0 - 20
2443758	Copper	1.45	Spike	P	0 - 20
2443758	Lead	1.56	Spike	P	0 - 20
2443758	Manganese	0.512	Spike	P	0 - 20
2443758	Molybdenum	0.642	Spike	P	0 - 20
2443758	Nickel	0.702	Spike	P	0 - 20
2443758	Selenium	1.56	Spike	P	0 - 20
2443758	Silver	1.10	Spike	P	0 - 20
2443758	Thallium	1.47	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443726	Chloride	1.17	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436660

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443726	Sulfate	2.39	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436423

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443476	Ammonia-N	0.584	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436424

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443730	Ammonia-N	2.63	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443795	Kjeldahl Nitrogen	3.13	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443660	Kjeldahl Nitrogen	8.97	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436635

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444251	Kjeldahl Nitrogen	5.95	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436382

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441614	NO2NO3-N	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436641

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2442732	NO2NO3-N	0.939	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437090

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445190	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437175

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443787	NO2NO3-N	0.491	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436348

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443955	Total-P	0.388	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436351

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443858	Total-P	1.21	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P436250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443478	Aldrin	5.78	Spike	P	0 - 41
2443478	Alpha-BHC	4.47	Spike	P	0 - 25
2443478	Alpha-Chlordane	22.1	Spike	P	0 - 32
2443478	Beta-BHC	19.5	Spike	P	0 - 33
2443478	Beta-Cyfluthrin	30.7	Spike	P	0 - 43
2443478	Bifenthrin	11.9	Spike	P	0 - 52
2443478	Chlorothalonil	55.2	Spike	P	0 - 82
2443478	Cis-Nonachlor	5.07	Spike	P	0 - 33
2443478	Cypermethrin	15.7	Spike	P	0 - 51
2443478	Dacthal	16.9	Spike	P	0 - 27
2443478	DDD-p,p'	24.5	Spike	P	0 - 39
2443478	DDE-p,p'	15.1	Spike	P	0 - 31
2443478	DDT-p,p'	0.162	Spike	P	0 - 29
2443478	Delta-BHC	35.6	Spike	F	0 - 35
2443478	Deltamethrin	20.5	Spike	P	0 - 100
2443478	Dichlobenil	19.9	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P436250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443478	Dicofol	2.80	Spike	P	0 - 37
2443478	Dieldrin	14.8	Spike	P	0 - 27
2443478	Endosulfan I	17.6	Spike	P	0 - 23
2443478	Endosulfan II	9.87	Spike	P	0 - 34
2443478	Endosulfan Sulfate	4.07	Spike	P	0 - 36
2443478	Endrin	28.5	Spike	P	0 - 45
2443478	Endrin Aldehyde	29.1	Spike	P	0 - 76
2443478	Endrin Ketone	2.27	Spike	P	0 - 43
2443478	Esfenvalerate	15.3	Spike	P	0 - 51
2443478	Ethalfuralin	14.4	Spike	P	0 - 22
2443478	Fenpropathrin	18.9	Spike	P	0 - 49
2443478	Gamma-BHC	3.27	Spike	P	0 - 28
2443478	Gamma-Chlordane	5.76	Spike	P	0 - 40
2443478	Heptachlor	6.19	Spike	P	0 - 29
2443478	Heptachlor Epoxide	20.1	Spike	P	0 - 33
2443478	Hexachlorobenzene	1.01	Spike	P	0 - 36
2443478	Kepone	20.1	Spike	P	0 - 85
2443478	Lambda-Cyhalothrin	18.4	Spike	P	0 - 55
2443478	Methoprene	9.58	Spike	P	0 - 53
2443478	Methoxychlor	5.61	Spike	P	0 - 50
2443478	MGK-264	18.9	Spike	P	0 - 43
2443478	Mirex	2.08	Spike	P	0 - 40
2443478	Oxychlordane	8.71	Spike	P	0 - 31
2443478	Permethrin	1.85	Spike	P	0 - 50
2443478	Phenothrin	4.46	Spike	P	0 - 58
2443478	Piperonyl Butoxide	0.474	Spike	P	0 - 100
2443478	Prallethrin	21.0	Spike	P	0 - 39
2443478	Tau-Fluvalinate	24.8	Spike	P	0 - 54
2443478	Tetramethrin	23.8	Spike	P	0 - 51
2443478	Trans-Nonachlor	42.3	Spike	F	0 - 39
2443478	Triclosan Methyl	19.8	Spike	P	0 - 31
2443478	Trifluralin	14.5	Spike	P	0 - 22
2443896	PCB-1016	14.3	Spike	P	0 - 25
2443896	PCB-1260	12.3	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P436252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443920	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	31.6	Spike	F	0 - 30
2443920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	25.2	Spike	P	0 - 35
2443920	Avobenzene	25.5	Spike	P	0 - 35
2443920	Dechlorane 602	62.9	Spike	F	0 - 60
2443920	Dechlorane 603	22.6	Spike	P	0 - 40
2443920	Dechlorane Plus	30.1	Spike	P	0 - 38
2443920	Hexabromobenzene	12.8	Spike	P	0 - 41
2443920	Octinoxate	23.6	Spike	P	0 - 35
2443920	Oxybenzone	11.1	Spike	P	0 - 35
2443920	PBB-153	27.7	Spike	P	0 - 49
2443920	PBDE-47	41.7	Spike	F	0 - 36

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P436252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443920	PBDE-99	40.6	Spike	P	0 - 46
2443920	Pentabromotoluene	9.70	Spike	P	0 - 16
2443920	Tetradecachloro-m-terphenyl	20.5	Spike	P	0 - 42
2443920	Tri-o-cresyl Phosphate	19.3	Spike	P	0 - 24
2443920	Tris(1-chloro-2-propyl) phosphate (TCPP)	16.8	Spike	P	0 - 30
2443920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	7.71	Spike	P	0 - 22
2443920	Tris(2-chloroethyl) phosphate (TCEP)	23.0	Spike	F	0 - 15

Reference Method: EPA 8270E

Batch ID: P436600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445279	Acetochlor	5.40	Spike	P	0 - 28
2445279	Alachlor	4.14	Spike	P	0 - 30
2445279	Ametryn	1.39	Spike	P	0 - 32
2445279	Atrazine	8.56	Spike	P	0 - 33
2445279	Atrazine Desethyl	0.366	Spike	P	0 - 36
2445279	Azinphos Methyl	13.6	Spike	P	0 - 62
2445279	Azoxystrobin	10.3	Spike	P	0 - 39
2445279	Bromacil	12.5	Spike	P	0 - 33
2445279	Butylate	7.69	Spike	P	0 - 51
2445279	Caffeine	3.16	Spike	P	0 - 100
2445279	Carbophenothion	11.4	Spike	P	0 - 34
2445279	Carfentrazone Ethyl	20.2	Spike	P	0 - 33
2445279	Chlorfenapyr	9.53	Spike	P	0 - 28
2445279	Chlorpyrifos Ethyl	8.07	Spike	P	0 - 31
2445279	Chlorpyrifos Methyl	4.56	Spike	P	0 - 27
2445279	Coumaphos	10.1	Spike	P	0 - 62
2445279	Cyanazine	33.4	Spike	P	0 - 48
2445279	Cyprodinil	10.5	Spike	P	0 - 29
2445279	Demeton	1.70	Spike	P	0 - 33
2445279	Diazinon	6.26	Spike	P	0 - 32
2445279	Difenoconazole	1.38	Spike	P	0 - 71
2445279	Dimethenamid	4.51	Spike	P	0 - 60
2445279	Dimethomorph	22.1	Spike	P	0 - 61
2445279	Disulfoton	3.17	Spike	P	0 - 30
2445279	Dithiopyr	13.5	Spike	P	0 - 28
2445279	EPTC	7.95	Spike	P	0 - 56
2445279	Ethion	15.1	Spike	P	0 - 79
2445279	Ethoprop	9.56	Spike	P	0 - 31
2445279	Etridiazole	0.781	Spike	P	0 - 43
2445279	Fenamiphos	5.95	Spike	P	0 - 43
2445279	Fenbuconazole	12.0	Spike	P	0 - 79
2445279	Fipronil	8.14	Spike	P	0 - 46
2445279	Fipronil Desulfanyl	5.92	Spike	P	0 - 36
2445279	Fipronil Sulfide	0.610	Spike	P	0 - 34
2445279	Fipronil Sulfone	21.5	Spike	P	0 - 47
2445279	Fluazifop-P-butyl	34.8	Spike	P	0 - 38
2445279	Fludioxonil	1.23	Spike	P	0 - 29
2445279	Flumioxazin	39.5	Spike	P	0 - 63

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P436600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445279	Flutolanil	13.3	Spike	P	0 - 36
2445279	Fluxapyroxad	19.1	Spike	P	0 - 65
2445279	Fonofos	16.5	Spike	P	0 - 35
2445279	Hexazinone	24.1	Spike	P	0 - 31
2445279	Imazalil	3.95	Spike	P	0 - 52
2445279	Iprodione	80.2	Spike	F	0 - 49
2445279	Loratadine	0.771	Spike	P	0 - 59
2445279	Malathion	9.27	Spike	P	0 - 77
2445279	Metaxyl	2.87	Spike	P	0 - 76
2445279	Metolachlor	35.0	Spike	F	0 - 29
2445279	Metribuzin	26.5	Spike	P	0 - 51
2445279	Mevinphos	2.04	Spike	P	0 - 31
2445279	Molinate	1.20	Spike	P	0 - 39
2445279	Myclobutanil	1.23	Spike	P	0 - 34
2445279	Naled	10.5	Spike	P	0 - 37
2445279	Napropamide	14.1	Spike	P	0 - 100
2445279	Norflurazon	18.3	Spike	P	0 - 54
2445279	Oxadiazon	19.9	Spike	P	0 - 34
2445279	Oxyfluorfen	25.9	Spike	P	0 - 28
2445279	Parathion Ethyl	29.0	Spike	P	0 - 31
2445279	Parathion Methyl	18.7	Spike	P	0 - 29
2445279	Pendimethalin	11.2	Spike	P	0 - 31
2445279	Phenytoin	6.93	Spike	P	0 - 100
2445279	Phorate	6.84	Spike	P	0 - 36
2445279	Prodiamine	12.1	Spike	P	0 - 68
2445279	Prometon	33.0	Spike	P	0 - 35
2445279	Prometryn	2.45	Spike	P	0 - 33
2445279	Pronamide	9.70	Spike	P	0 - 24
2445279	Propanil	19.4	Spike	P	0 - 28
2445279	Propargite	21.6	Spike	P	0 - 53
2445279	Propiconazole	13.6	Spike	P	0 - 44
2445279	Pyraflufen Ethyl	3.33	Spike	P	0 - 61
2445279	Pyridaben	6.92	Spike	P	0 - 43
2445279	Pyriproxyfen	0.578	Spike	P	0 - 82
2445279	Simazine	7.90	Spike	P	0 - 29
2445279	Stirophos	19.2	Spike	P	0 - 100
2445279	Sulfentrazone	26.4	Spike	P	0 - 64
2445279	Tebuconazole	17.3	Spike	P	0 - 76
2445279	Terbufos	1.99	Spike	P	0 - 29
2445279	Terbutylazine	0.306	Spike	P	0 - 28
2445279	Thiobencarb	33.1	Spike	F	0 - 26
2445279	Triadimefon	1.88	Spike	P	0 - 40

Reference Method: EPA 8276
Batch ID: P436250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443896	Chlordane	10.6	Spike	P	0 - 28
2443896	Toxaphene	12.7	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P436137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443202	3-Hydroxycarbofuran	4.73	Spike	P	0 - 30
2443202	Aldicarb	17.5	Spike	P	0 - 30
2443202	Aldicarb Sulfone	3.09	Spike	P	0 - 30
2443202	Aldicarb Sulfoxide	8.14	Spike	P	0 - 30
2443202	Carbaryl	5.72	Spike	P	0 - 30
2443202	Carbofuran	7.74	Spike	P	0 - 30
2443202	Methiocarb	22.8	Spike	P	0 - 30
2443202	Methomyl	4.52	Spike	P	0 - 30
2443202	Oxamyl	1.92	Spike	P	0 - 30
2443202	Propoxur	5.26	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436195

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443120	Acesulfame K	5.11	Spike	P	0 - 30
2443120	AMPA	2.10	Spike	P	0 - 30
2443120	Endothall	3.74	Spike	P	0 - 30
2443120	Glufosinate	1.83	Spike	P	0 - 30
2443120	Glyphosate	14.9	Spike	P	0 - 30
2443120	Sucralose	9.69	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443453	2,4-D	11.6	Spike	P	0 - 30
2443453	2,4,5-T	9.63	Spike	P	0 - 30
2443453	Acetaminophen	3.78	Spike	P	0 - 30
2443453	Acetamiprid	6.53	Spike	P	0 - 30
2443453	Afidopyropen	0.699	Spike	P	0 - 30
2443453	Bentazon	5.33	Spike	P	0 - 30
2443453	Benzovindiflupyr	16.4	Spike	P	0 - 30
2443453	Carbamazepine	0.369	Spike	P	0 - 30
2443453	Clothianidin	4.29	Spike	P	0 - 30
2443453	Dinotefuran	3.98	Spike	P	0 - 30
2443453	Diuron	4.96	Spike	P	0 - 30
2443453	Fenuron	2.19	Spike	P	0 - 30
2443453	Fluridone	4.19	Spike	P	0 - 30
2443453	Hydrocodone	0.928	Spike	P	0 - 30
2443453	Ibuprofen	4.79	Spike	P	0 - 30
2443453	Imazapyr	6.51	Spike	P	0 - 30
2443453	Imidacloprid	0.0601	Spike	P	0 - 30
2443453	Linuron	1.64	Spike	P	0 - 30
2443453	Mandestrobin	26.8	Spike	P	0 - 30
2443453	MCPP	8.13	Spike	P	0 - 30
2443453	Naproxen	1.00	Spike	P	0 - 30
2443453	Primidone	3.06	Spike	P	0 - 30
2443453	Pyraclostrobin	11.1	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P436263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443453	Silvex	8.89	Spike	P	0 - 30
2443453	Thiamethoxam	5.66	Spike	P	0 - 30
2443453	Tolfenpyrad	10.5	Spike	P	0 - 30
2443453	Triclopyr	8.07	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P436416

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444038	Total Alkalinity	0.985	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P436417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443784	Total Alkalinity	0.756	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P436766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443373	TDS	11.4	Sample	F	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P436583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443373	TSS	6.56	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436607

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444038	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P436803

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445672	Fluoride	0.947	Spike	P	0 - 1.9

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P436407

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443729	Organic Carbon	1.44	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P436408

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443785	Organic Carbon	1.35	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P436658

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444488	Organic Carbon	1.30	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2443819
Field Sample ID: G3NW0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	72.3	P	30 - 160

Lab Sample ID: 2443820
Field Sample ID: G3NW0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	105	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	55.1	P	30 - 160
EPA 8321B	Diuron-d6	48.8	P	30 - 160
EPA 8321B	Endothall-d6	93.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	73.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.5	P	30 - 160
EPA 8321B	Primidone-d5	78.7	P	30 - 160
EPA 8321B	Sucralose-d6	104	P	30 - 160

Lab Sample ID: 2443821
Field Sample ID: G3NW0208

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	115	P	30 - 160
EPA 8321B	Acetaminophen-d4	109	P	30 - 160
EPA 8321B	Carbamazepine-d10	47.2	P	30 - 160
EPA 8321B	Diuron-d6	40.4	P	30 - 160
EPA 8321B	Endothall-d6	94.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	54.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.9	P	30 - 160
EPA 8321B	Primidone-d5	66.2	P	30 - 160
EPA 8321B	Sucralose-d6	92.3	P	30 - 160

Lab Sample ID: 2443822
Field Sample ID: G3NW0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	118	P	37 - 129
EPA 8270E	Decachlorobiphenyl	71.5	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	62.2	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	62.9	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	62.6	P	28 - 102
EPA 8276	PCNB	109	P	49 - 115

Lab Sample ID: 2443823
Field Sample ID: G3NW0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	84.8	P	20 - 200
EPA 8270E	Simazine-d10	89.0	P	58 - 137
EPA 8270E	Terbufos-d10	101	P	50 - 134
EPA 8270E	Terphenyl-d14	91.4	P	44 - 134

Quality Assurance Report Surrogates

Lab Sample ID: 2443824

Field Sample ID: FB_10092023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	120	P	37 - 129
EPA 8270E	Decachlorobiphenyl	85.5	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	72.4	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	71.0	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	55.0	P	28 - 102
EPA 8276	PCNB	123	F	49 - 115

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A122053

Included Lab Sample IDs: 2443782, 2443784, 2443786, 2443788

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122054

Included Lab Sample IDs: 2443782, 2443784, 2443786, 2443788

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

Reference Method: EPA 8321B

Run ID: A122058

Included Lab Sample IDs: 2443820, 2443821

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	116	129	P/P	60 - 160
Sucralose	103	102	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A122059

Included Lab Sample IDs: 2443820, 2443821

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.2	103	P/P	60 - 160
Endothall	83.0	74.7	P/P	60 - 160
Glufosinate	88.7	80.3	P/P	60 - 160
Glyphosate	87.3	81.6	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122094

Included Lab Sample IDs: 2443783

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.5	97.0	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A122112

Included Lab Sample IDs: 2443783, 2443785, 2443787

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	92.4	P/P	90 - 110
Organic Carbon	96.4	95.2	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A122114

Included Lab Sample IDs: 2443782, 2443784, 2443786, 2443788

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	92.5	98.4	P/P	90 - 110
Total Alkalinity	95.0	97.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A122114

Included Lab Sample IDs: 2443782, 2443788

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122117

Included Lab Sample IDs: 2443783, 2443785, 2443787, 2443789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	99.9	P/P	90 - 110
Ammonia-N	99.6	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122135

Included Lab Sample IDs: 2443787

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	99.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122139

Included Lab Sample IDs: 2443783

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.4	102	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122142

Included Lab Sample IDs: 2443825, 2443826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.9	98.9	P/P	90 - 110
Aluminum	99.9	99.9	P/P	90 - 110
Antimony	96.3	98.6	P/P	90 - 110
Antimony	97.8	96.3	P/P	90 - 110
Arsenic	97.2	95.1	P/P	90 - 110
Arsenic	98.9	97.2	P/P	90 - 110
Barium	97.6	96.9	P/P	90 - 110
Barium	99.6	97.6	P/P	90 - 110
Beryllium	97.5	96.5	P/P	90 - 110
Beryllium	98.5	97.5	P/P	90 - 110
Boron	98.0	101	P/P	90 - 110
Cadmium	99.0	99.3	P/P	90 - 110
Cadmium	99.3	101	P/P	90 - 110
Chromium	100	106	P/P	90 - 110
Chromium	102	100	P/P	90 - 110
Cobalt	101	98.5	P/P	90 - 110
Cobalt	98.5	96.9	P/P	90 - 110
Copper	96.4	90.6	P/P	90 - 110
Copper	96.5	96.4	P/P	90 - 110
Lead	93.8	93.8	P/P	90 - 110
Lead	94.5	93.8	P/P	90 - 110
Manganese	101	98.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122142

Included Lab Sample IDs: 2443825, 2443826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Manganese	98.9	106	P/P	90 - 110
Molybdenum	98.6	98.8	P/P	90 - 110
Molybdenum	98.8	98.4	P/P	90 - 110
Nickel	97.1	94.1	P/P	90 - 110
Nickel	99.7	97.1	P/P	90 - 110
Selenium	98.0	97.3	P/P	90 - 110
Selenium	98.1	98.0	P/P	90 - 110
Silver	101	101	P/P	90 - 110
Silver	101	101	P/P	90 - 110
Thallium	98.0	98.2	P/P	90 - 110
Thallium	99.0	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122149

Included Lab Sample IDs: 2443783, 2443785, 2443789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.0	97.2	P/P	90 - 110
Total-P	97.8	98.5	P/P	90 - 110
Total-P	98.5	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122171

Included Lab Sample IDs: 2443785, 2443787

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

Reference Method: EPA 8321B

Run ID: A122173

Included Lab Sample IDs: 2443820, 2443821

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	84.8	88.9	P/P	50 - 150
2,4,5-T	90.7	79.0	P/P	50 - 150
Acetaminophen	107	98.7	P/P	60 - 160
Acetamiprid	105	106	P/P	50 - 150
Afidopyropen	98.2	88.7	P/P	50 - 150
Bentazon	104	108	P/P	50 - 160
Benzovindiflupyr	87.0	115	P/P	50 - 150
Carbamazepine	110	105	P/P	60 - 150
Clothianidin	102	107	P/P	60 - 150
Dinotefuran	115	112	P/P	50 - 150
Diuron	111	109	P/P	60 - 160
Fenuron	111	104	P/P	60 - 150
Fluridone	107	109	P/P	60 - 160
Hydrocodone	105	91.7	P/P	60 - 150
Ibuprofen	79.7	108	P/P	50 - 160
Imazapyr	95.8	93.1	P/P	50 - 150
Imidacloprid	99.5	97.7	P/P	60 - 150
Linuron	100	102	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A122173

Included Lab Sample IDs: 2443820, 2443821

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mandestrobin	76.3	106	P/P	50 - 150
MCPD	99.1	96.0	P/P	50 - 150
Naproxen	108	63.9	P/P	50 - 160
Primidone	96.8	98.3	P/P	60 - 150
Pyraclostrobin	91.3	113	P/P	60 - 150
Silvex	92.6	94.3	P/P	50 - 150
Thiamethoxam	103	103	P/P	50 - 150
Tolfenpyrad	95.5	110	P/P	60 - 150
Triclopyr	88.5	80.5	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122183

Included Lab Sample IDs: 2443826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	104	100	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A122184

Included Lab Sample IDs: 2443786

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122206

Included Lab Sample IDs: 2443789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO ₂ NO ₃ -N	102	100	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A122209

Included Lab Sample IDs: 2443782, 2443784, 2443786, 2443788

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	99.6	P/P	90 - 110
Sulfate	101	99.6	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A122210

Included Lab Sample IDs: 2443789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.3	96.5	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A122235

Included Lab Sample IDs: 2443825, 2443826

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A122235

Included Lab Sample IDs: 2443825, 2443826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	92.9	90.2	P/P	90 - 110
Iron	92.1	91.8	P/P	90 - 110
Iron	93.7	91.7	P/P	90 - 110
Magnesium	93.5	91.1	P/P	90 - 110
Potassium	95.0	94.7	P/P	90 - 110
Potassium	96.6	94.3	P/P	90 - 110
Sodium	100	100	P/P	90 - 110
Sodium	102	100	P/P	90 - 110
Strontium	106	105	P/P	90 - 110
Strontium	107	106	P/P	90 - 110
Tin	99.5	98.6	P/P	90 - 110
Tin	100	99.0	P/P	90 - 110
Titanium	100	100	P/P	90 - 110
Titanium	99.2	99.2	P/P	90 - 110
Vanadium	98.7	99.0	P/P	90 - 110
Vanadium	99.6	99.8	P/P	90 - 110
Zinc	100	99.4	P/P	90 - 110
Zinc	99.1	99.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A122245

Included Lab Sample IDs: 2443823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	96.8		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.4		P	80 - 120
Avobenzone	94.0		P	80 - 120
Dechlorane 602	96.9		P	80 - 120
Dechlorane 603	93.2		P	80 - 120
Dechlorane Plus	94.0		P	80 - 120
Hexabromobenzene	92.3		P	80 - 120
Octinoxate	92.5		P	80 - 120
Oxybenzone	101		P	80 - 120
PBB-153	91.8		P	80 - 120
PBDE-47	93.6		P	80 - 120
PBDE-99	95.6		P	80 - 120
Pentabromotoluene	104		P	80 - 120
Tetradecachloro-m-terphenyl	90.8		P	80 - 120
Tri-o-cresyl Phosphate	98.5		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	92.9		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.7		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	93.2		P	80 - 120

Reference Method: SM 4500-F- C-2011

Run ID: A122259

Included Lab Sample IDs: 2443784

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A122271

Included Lab Sample IDs: 2443825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	104	P/P	90 - 110
Magnesium	102	103	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A122273

Included Lab Sample IDs: 2443822, 2443824

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.5		P	80 - 120
Toxaphene	92.2		P	80 - 120

Reference Method: EPA 8270E

Run ID: A122301

Included Lab Sample IDs: 2443822

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	104		P	80 - 120
Beta-BHC	89.7		P	80 - 120
Beta-Cyfluthrin	113		P	80 - 120
Bifenthrin	94.1		P	80 - 120
Chlorothalonil	117		P	80 - 120
Cis-Nonachlor	108		P	80 - 120
Cypermethrin	101		P	80 - 120
Dacthal	99.9		P	80 - 120
DDD-p,p'	95.4		P	80 - 120
DDE-p,p'	88.9		P	80 - 120
DDT-p,p'	96.6		P	80 - 120
Delta-BHC	112		P	80 - 120
Deltamethrin	115		P	80 - 120
Dichlobenil	93.8		P	80 - 120
Dicofol	104		P	80 - 120
Dieldrin	89.8		P	80 - 120
Endosulfan I	105		P	80 - 120
Endosulfan II	110		P	80 - 120
Endosulfan Sulfate	95.6		P	80 - 120
Endrin	96.4		P	80 - 120
Endrin Aldehyde	94.7		P	80 - 120
Endrin Ketone	106		P	80 - 120
Esfenvalerate	107		P	80 - 120
Ethalfuralin	99.0		P	80 - 120
Fenpropathrin	102		P	80 - 120
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	105		P	80 - 120
Heptachlor	92.3		P	80 - 120
Heptachlor Epoxide	105		P	80 - 120
Hexachlorobenzene	93.9		P	80 - 120
Kepone	57.3*		F	80 - 120
Lambda-Cyhalothrin	115		P	80 - 120
Methoprene	87.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122301
Included Lab Sample IDs: 2443822

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoxychlor	94.8		P	80 - 120
MGK-264	95.2		P	80 - 120
Mirex	110		P	80 - 120
Oxychlordane	91.5		P	80 - 120
Permethrin	108		P	80 - 120
Phenothrin	107		P	80 - 120
Piperonyl Butoxide	94.7		P	80 - 120
Prallethrin	97.9		P	80 - 120
Tau-Fluvalinate	108		P	80 - 120
Tetramethrin	85.5		P	80 - 120
Trans-Nonachlor	116		P	80 - 120
Triclosan Methyl	94.0		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122357
Included Lab Sample IDs: 2443823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	88.7		P	80 - 120
Alachlor	97.4		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	104		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Azoxystrobin	95.5		P	80 - 120
Bromacil	100		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	108		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	103		P	80 - 120
Chlorfenapyr	92.6		P	80 - 120
Chlorpyrifos Ethyl	92.8		P	80 - 120
Chlorpyrifos Methyl	105		P	80 - 120
Coumaphos	93.6		P	80 - 120
Cyanazine	87.9		P	80 - 120
Cyprodinil	109		P	80 - 120
Demeton	109		P	80 - 120
Diazinon	96.1		P	80 - 120
Difenoconazole	99.3		P	80 - 120
Dimethenamid	105		P	80 - 120
Dimethomorph	96.2		P	80 - 120
Disulfoton	96.5		P	80 - 120
Dithiopyr	108		P	80 - 120
EPTC	97.5		P	80 - 120
Ethion	86.6		P	80 - 120
Ethoprop	82.6		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	101		P	80 - 120
Fenbuconazole	96.0		P	80 - 120
Fipronil	88.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122357
Included Lab Sample IDs: 2443823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil Desulfinyl	112		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	103		P	80 - 120
Fluazifop-P-butyl	98.2		P	80 - 120
Fludioxonil	95.6		P	80 - 120
Flumioxazin	95.5		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	105		P	80 - 120
Fonofos	94.2		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	98.2		P	80 - 120
Iprodione	86.3		P	80 - 120
Loratadine	94.1		P	80 - 120
Malathion	86.4		P	80 - 120
Metalaxyl	94.9		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	82.6		P	80 - 120
Molinate	85.2		P	80 - 120
Myclobutanil	98.8		P	80 - 120
Naled	102		P	80 - 120
Napropamide	99.1		P	80 - 120
Norflurazon	95.0		P	80 - 120
Oxadiazon	118		P	80 - 120
Oxyfluorfen	107		P	80 - 120
Parathion Ethyl	96.5		P	80 - 120
Parathion Methyl	103		P	80 - 120
Pendimethalin	106		P	80 - 120
Phenytol	101		P	80 - 120
Phorate	88.3		P	80 - 120
Prodiamine	111		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	103		P	80 - 120
Pronamide	100		P	80 - 120
Propanil	99.2		P	80 - 120
Propargite	100		P	80 - 120
Propiconazole	92.4		P	80 - 120
Pyraflufen Ethyl	97.4		P	80 - 120
Pyridaben	99.0		P	80 - 120
Pyriproxyfen	102		P	80 - 120
Simazine	105		P	80 - 120
Stirophos	93.1		P	80 - 120
Sulfentrazone	112		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	91.7		P	80 - 120
Terbutylazine	91.3		P	80 - 120
Thiobencarb	107		P	80 - 120
Triadimefon	109		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A122359

Included Lab Sample IDs: 2443822, 2443824

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	111		P	80 - 120
PCB-1260	100		P	80 - 120

Reference Method: EPA 8270E

Run ID: A122400

Included Lab Sample IDs: 2443824

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	108		P	80 - 120
Alpha-BHC	105		P	80 - 120
Alpha-Chlordane	109		P	80 - 120
Beta-BHC	104		P	80 - 120
Beta-Cyfluthrin	109		P	80 - 120
Bifenthrin	96.9		P	80 - 120
Chlorothalonil	65.1*		F	80 - 120
Cis-Nonachlor	117		P	80 - 120
Cypermethrin	97.4		P	80 - 120
Dacthal	112		P	80 - 120
DDD-p,p'	111		P	80 - 120
DDE-p,p'	119		P	80 - 120
DDT-p,p'	88.1		P	80 - 120
Delta-BHC	80.1		P	80 - 120
Deltamethrin	94.5		P	80 - 120
Dichlobenil	97.1		P	80 - 120
Dicofol	96.7		P	80 - 120
Dieldrin	115		P	80 - 120
Endosulfan I	85.1		P	80 - 120
Endosulfan II	118		P	80 - 120
Endosulfan Sulfate	96.6		P	80 - 120
Endrin	117		P	80 - 120
Endrin Aldehyde	115		P	80 - 120
Endrin Ketone	111		P	80 - 120
Esfenvalerate	86.2		P	80 - 120
Ethalfuralin	109		P	80 - 120
Fenpropathrin	90.6		P	80 - 120
Gamma-BHC	120		P	80 - 120
Gamma-Chlordane	108		P	80 - 120
Heptachlor	117		P	80 - 120
Heptachlor Epoxide	95.1		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	102		P	80 - 120
Lambda-Cyhalothrin	95.4		P	80 - 120
Methoprene	111		P	80 - 120
Methoxychlor	86.9		P	80 - 120
MGK-264	110		P	80 - 120
Mirex	106		P	80 - 120
Oxychlordane	111		P	80 - 120
Permethrin	94.8		P	80 - 120
Phenothrin	112		P	80 - 120
Piperonyl Butoxide	96.2		P	80 - 120
Prallethrin	113		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122400
Included Lab Sample IDs: 2443824

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tau-Fluvalinate	91.9		P	80 - 120
Tetramethrin	90.9		P	80 - 120
Trans-Nonachlor	111		P	80 - 120
Triclosan Methyl	90.4		P	80 - 120
Trifluralin	111		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A122410
Included Lab Sample IDs: 2443785

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A122452
Included Lab Sample IDs: 2443787

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	99.5	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	101					2.55	
EPA 180.1 Rev. 2.0	Turbidity	104					7.46	
EPA 200.7 Rev. 4.4	Calcium	104	94.2	102	105			1.94
	Iron	96.4	94.8	95.2	95.7			0.435
	Magnesium	105	94.7	104	107			2.14
	Potassium	88.6	94.4	96.1	104			1.86
	Sodium	104	100	105				0.773
	Strontium	108	106	106	107			0.288
	Tin	101	99.2	103	101			3.84
	Titanium	102	101	103	102			2.15
	Vanadium	102	101	102	102			1.72
	Zinc	101	97.6	101	99.3			3.44
EPA 200.8 Rev. 5.4	Aluminum	99.4	99.3	102	98.8			2.12
	Antimony	98.2	98.9	98.3	100			0.559
	Arsenic	99.6	99.7	99.0	98.1			0.672
	Barium	102	99.1	101	99.6			0.978
	Beryllium	97.3	96.4	92.5	96.0			3.57
	Boron	105	105	103	102			2.29
	Cadmium	101	100	101	103			0.211
	Chromium	101	99.9	98.8	103			1.08
	Cobalt	101	99.4	99.7	97.0			0.214
	Copper	97.5	98.8	100	93.3			1.45
	Lead	94.3	94.5	96.0	95.8			1.56
	Manganese	101	98.7	99.3	103			0.512
	Molybdenum	97.3	99.0	98.3	99.3			0.642
	Nickel	99.3	98.5	97.8	94.7			0.702
	Selenium	98.5	98.7	97.1	92.7			1.56
	Silver	108	107	108	107			1.10
	Thallium	99.9	99.9	101	101			1.47
EPA 300.0 Rev. 2.1	Chloride	99.8	102	101			1.17	
	Sulfate	100	101	100			2.39	
EPA 350.1 Rev. 2.0	Ammonia-N	101	97.0	97.8				0.584
	Ammonia-N	101	97.8	101				2.63
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	100	95.1				3.13
	Kjeldahl Nitrogen	98.0	97.3	107				8.97
	Kjeldahl Nitrogen	104						5.95
EPA 353.2 Rev. 2.0	NO2NO3-N	97.5	95.5					0.0
	NO2NO3-N	99.0	96.0	97.5				0.939
	NO2NO3-N	102	99.5	99.5				0.0
	NO2NO3-N	100	97.7	98.2				0.491
EPA 365.1 Rev. 2.0	Total-P	103	96.4	96.7				0.388
	Total-P	105	102	103				1.21
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	75.1	61.7	84.8				31.6
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107	101	130				25.2
	Acetochlor	96.6	78.9	83.3				5.40
	Alachlor	99.8	145	139				4.14
	Aldrin	86.3	63.5	67.3				5.78
	Alpha-BHC	94.8	88.8	84.9				4.47
	Alpha-Chlordane	99.1	78.3	97.8				22.1
	Ametryn	106	52.2	53.5				1.39
	Atrazine	89.3						8.56

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Atrazine Desethyl	79.0				0.366
	Avobenzone	119	110	142		25.5
	Azinphos Methyl	93.7	51.4	58.9		13.6
	Azoxystrobin	86.7				10.3
	Beta-BHC	95.0	95.4	117		19.5
	Beta-Cyfluthrin	140	70.6	96.2		30.7
	Bifenthrin	102	84.9	95.6		11.9
	Bromacil	77.9				12.5
	Butylate	42.7	37.2	40.1		7.69
	Caffeine	88.2	122	119		3.16
	Carbophenothion	90.0	48.0	53.8		11.4
	Carfentrazone Ethyl	97.3	46.8	57.3		20.2
	Chlorfenapyr	65.2	70.6	77.7		9.53
	Chlorothalonil	112	21.7	12.3		55.2
	Chlorpyrifos Ethyl	86.4	78.6	85.2		8.07
	Chlorpyrifos Methyl	83.0	65.5	68.5		4.56
	Cis-Nonachlor	101	60.5	63.6		5.07
	Coumaphos	76.4	57.8	64.0		10.1
	Cyanazine	113	65.6	46.8		33.4
	Cypermethrin	97.5	55.4	64.9		15.7
	Cyprodinil	83.7	75.9	84.3		10.5
	Dacthal	114	72.8	86.3		16.9
	DDD-p,p'	96.7	69.6	89.0		24.5
	DDE-p,p'	80.4	73.0	85.0		15.1
	DDT-p,p'	102	88.4	88.2		0.162
	Dechlorane 602	80.1	54.1	104		62.9
	Dechlorane 603	111	93.4	117		22.6
	Dechlorane Plus	94.8	81.5	110		30.1
	Delta-BHC	101	59.6	86.7		35.6
	Deltamethrin	148	99.4	122		20.5
	Demeton	54.6	135	137		1.70
	Diazinon	95.9	81.6	76.6		6.26
	Dichlobenil	108	45.8	55.9		19.9
	Dicofol	95.2	76.2	78.3		2.80
	Dieldrin	80.6	77.3	89.7		14.8
	Difenoconazole	99.2	142	144		1.38
	Dimethenamid	74.7	61.5	58.8		4.51
	Dimethomorph	139	243	303		22.1
	Disulfoton	94.6	79.3	76.8		3.17
	Dithiopyr	69.5	22.1	25.3		13.5
	Endosulfan I	96.8	74.9	89.4		17.6
	Endosulfan II	110	63.5	70.1		9.87
	Endosulfan Sulfate	103	55.5	53.3		4.07
	Endrin	78.0	66.8	89.0		28.5
	Endrin Aldehyde	95.1	57.3	42.8		29.1
	Endrin Ketone	102	80.4	78.6		2.27
	EPTC	38.8	35.4	38.3		7.95
	Esfenvalerate	136	87.5	102		15.3
	Ethalfuralin	92.2	106	92.1		14.4
	Ethion	74.4	41.4	35.5		15.1
	Ethoprop	74.0	102	113		9.56
	Etridiazole	41.9	29.7	29.5		0.781
	Fenamiphos	80.7	107	101		5.95
	Fenbuconazole	58.4	65.4	79.6		12.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Fenpropathrin	95.7	83.6	101		18.9
	Fipronil	77.3				8.14
	Fipronil Desulfinyl	76.7	48.1	53.2		5.92
	Fipronil Sulfide	65.6	47.4	46.1		0.610
	Fipronil Sulfone	70.8				21.5
	Fluazifop-P-butyl	75.3	54.6	77.6		34.8
	Fludioxonil	68.5				1.23
	Flumioxazin	97.7	112	167		39.5
	Flutolanil	67.1	62.5	71.4		13.3
	Fluxapyroxad	82.7	54.0	44.6		19.1
	Fonofos	88.2	95.8	113		16.5
	Gamma-BHC	77.8	64.5	66.7		3.27
	Gamma-Chlordane	103	79.6	84.3		5.76
	Heptachlor	63.0	86.3	81.1		6.19
	Heptachlor Epoxide	103	77.7	95.1		20.1
	Hexabromobenzene	120	108	123		12.8
	Hexachlorobenzene	96.1	67.3	67.9		1.01
	Hexazinone	86.4	116	90.8		24.1
	Imazalil	86.1	45.7	47.6		3.95
	Iprodione	80.4				80.2
	Kepone	85.3	47.2	57.7		20.1
	Lambda-Cyhalothrin	112	69.5	83.7		18.4
	Loratadine	112	154	152		0.771
	Malathion	93.1	70.8	77.7		9.27
	Metalaxyl	81.1	53.8	52.2		2.87
	Methoprene	84.4	76.9	84.7		9.58
	Methoxychlor	93.6	84.0	88.9		5.61
	Metolachlor	87.2				35.0
	Metribuzin	87.0				26.5
	Mevinphos	89.4	119	117		2.04
	MGK-264	113	93.4	113		18.9
	Mirex	98.1	53.1	54.2		2.08
	Molinate	39.0	43.5	44.0		1.20
	Myclobutanil	69.0	61.9	61.0		1.23
	Naled	36.6	67.6	60.9		10.5
	Napropamide	80.0	45.0	39.1		14.1
	Norflurazon	98.3	51.6	41.4		18.3
	Octinoxate	145	128	163		23.6
	Oxadiazon	64.9				19.9
	Oxybenzone	123	113	126		11.1
	Oxychlordane	77.2	97.6	89.4		8.71
	Oxyfluorfen	91.1				25.9
	Parathion Ethyl	87.0	69.2	92.6		29.0
	Parathion Methyl	95.4	107	88.4		18.7
	PBB-153	108	90.1	119		27.7
	PBDE-47	102	79.6	122		41.7
	PBDE-99	94.9	74.8	113		40.6
	PCB-1016	88.0	104	89.8		14.3
	PCB-1260	82.6	101	89.5		12.3
	Pendimethalin	87.7	75.8	84.8		11.2
	Pentabromotoluene	115	105	115		9.70
	Permethrin	129	77.6	79.1		1.85
	Phenothrin	95.4	77.4	74.0		4.46
	Phenytol	115	122	130		6.93

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Phorate	110	215	201		6.84
	Piperonyl Butoxide	147	99.2	98.7		0.474
	Prallethrin	109	57.9	43.5		21.0
	Prodiamine	44.1				12.1
	Prometon	108				33.0
	Prometryn	83.6	75.0	73.2		2.45
	Pronamide	99.3	83.7	76.0		9.70
	Propanil	89.8	103	84.6		19.4
	Propargite	68.0	73.7	59.3		21.6
	Propiconazole	69.7				13.6
	Pyraflufen Ethyl	93.3	50.4	52.1		3.33
	Pyridaben	95.8	52.2	56.0		6.92
	Pyriproxyfen	67.6	44.7	45.0		0.578
	Simazine	87.3	91.6	99.2		7.90
	Stirophos	61.9	37.7	45.7		19.2
	Sulfentrazone	59.2				26.4
	Tau-Fluvalinate	105	97.3	75.8		24.8
	Tebuconazole	76.4				17.3
	Terbufos	87.7	136	139		1.99
	Terbutylazine	67.5	66.0	65.8		0.306
	Tetradecachloro-m-terphenyl	109	124	153		20.5
	Tetramethrin	112	117	92.0		23.8
	Thiobencarb	72.8	80.7	113		33.1
	Trans-Nonachlor	100	95.1	61.9		42.3
	Tri-o-cresyl Phosphate	123	101	123		19.3
	Triadimefon	65.3	74.8	73.4		1.88
	Triclosan Methyl	81.6	93.3	76.4		19.8
	Trifluralin	95.3	74.8	64.7		14.5
	Tris(1-chloro-2-propyl) phosphate (TCPP)	140	127	151		16.8
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106	93.2	101		7.71
	Tris(2-chloroethyl) phosphate (TCEP)	109	102	128		23.0
EPA 8276	Chlordane	71.7	80.5	72.4		10.6
	Toxaphene	83.8	85.1	74.9		12.7
EPA 8321B	2,4-D	70.4	70.5	87.1		11.6
	2,4,5-T	67.7	79.0	87.0		9.63
	3-Hydroxycarbofuran	72.3	83.1	87.1		4.73
	Acesulfame K	106	130	137		5.11
	Acetaminophen	80.7	94.7	91.2		3.78
	Acetamiprid	81.7	62.1	58.2		6.53
	Afidopyropen	69.0	63.3	62.9		0.699
	Aldicarb	66.5	69.0	57.9		17.5
	Aldicarb Sulfone	88.6	93.8	91.0		3.09
	Aldicarb Sulfoxide	100	39.4	36.3		8.14
	AMPA	93.4	84.8	82.8		2.10
	Bentazon	107				5.33
	Benzovindiflupyr	67.1	60.5	71.3		16.4
	Carbamazepine	69.6	49.7	49.5		0.369
	Carbaryl	73.5	57.6	54.4		5.72
	Carbofuran	85.9	62.1	57.4		7.74
	Clothianidin	82.6	76.7	73.5		4.29
	Dinotefuran	96.1	76.6	79.8		3.98

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Diuron	64.4	49.2	46.8		4.96
	Endothall	90.0	98.1	94.5		3.74
	Fenuron	83.4	45.5	44.5		2.19
	Fluridone	69.6	59.4	62.9		4.19
	Glufosinate	78.2	78.9	77.4		1.83
	Glyphosate	73.9	102	118		14.9
	Hydrocodone	86.3	63.2	62.6		0.928
	Ibuprofen	49.7	63.1	60.2		4.79
	Imazapyr	75.0	83.7	90.6		6.51
	Imidacloprid	78.8	101	101		0.0601
	Linuron	57.4	49.2	48.4		1.64
	Mandestrobin	59.4	48.8	63.9		26.8
	MCPP	80.1	94.7	103		8.13
	Methiocarb	61.3	59.3	47.1		22.8
	Methomyl	74.7	68.0	65.0		4.52
	Naproxen	52.1	70.3	69.6		1.00
	Oxamyl	81.4	77.2	75.7		1.92
	Primidone	79.1	72.8	75.1		3.06
	Propoxur	80.6	57.8	54.8		5.26
	Pyraclostrobin	68.8	60.9	68.1		11.1
	Silvex	72.8	81.1	88.6		8.89
	Sucralose	91.3	107	96.5		9.69
	Thiamethoxam	80.8	79.0	74.6		5.66
	Tolfenpyrad	45.5	46.3	51.4		10.5
	Triclopyr	69.5	82.9	89.9		8.07
SM 2320 B-2011	Total Alkalinity	97.5			0.985	
	Total Alkalinity	99.2			0.756	
SM 2540 C-2015	TDS	106			11.4	
SM 2540 D-2015	TSS	108			6.56	
	TSS	104				
SM 4500-F- C-2011	Fluoride	101				
	Fluoride	101	102	102		0.0
	Fluoride	99.7				0.947
SM 5310 B-2011	Organic Carbon	97.4	93.8	95.5		1.44
	Organic Carbon	96.2	94.9	96.5		1.35
	Organic Carbon	95.6	95.0	97.1		1.30

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2443782, 2443784, 2443786, 2443788
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2443782, 2443784, 2443786, 2443788
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2443825, 2443826
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2443825, 2443826
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2443782, 2443784, 2443786, 2443788
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2443782, 2443784, 2443786, 2443788
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2443783, 2443785, 2443787, 2443789
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2443783, 2443785, 2443787, 2443789
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2443783, 2443785, 2443787, 2443789
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2443783, 2443785, 2443787, 2443789
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2443823

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2443822, 2443824
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2443823
EPA 8270E	PCBs in water matrices by GC/MS/MS	2443822, 2443824
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2443822, 2443824
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2443819
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2443820, 2443821
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2443782, 2443784, 2443786, 2443788
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2443825
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2443782, 2443784, 2443786, 2443788
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2443782, 2443784, 2443786, 2443788
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2443782, 2443784, 2443786, 2443788
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2443783, 2443785, 2443787, 2443789

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	10/10/2023			10/10/2023 15:26	Chandler E Cox	2443782
	10/10/2023			10/10/2023 15:27	Chandler E Cox	2443784
	10/10/2023			10/10/2023 15:28	Chandler E Cox	2443786, 2443788
EPA 180.1 Rev. 2.0	10/10/2023			10/10/2023 14:25	Khloe J Berg	2443782, 2443784
	10/10/2023			10/10/2023 14:27	Khloe J Berg	2443786
	10/10/2023			10/10/2023 14:29	Khloe J Berg	2443788
EPA 200.7 Rev. 4.4	10/10/2023	10/11/2023 12:15	George D Taylor	10/19/2023 01:01	Samatha Luckman	2443826
	10/10/2023	10/11/2023 12:15	George D Taylor	10/19/2023 04:22	Samatha Luckman	2443825
	10/10/2023	10/11/2023 12:15	George D Taylor	10/20/2023 16:45	Samatha Luckman	2443825
EPA 200.8 Rev. 5.4	10/10/2023	10/11/2023 12:15	George D Taylor	10/12/2023 15:22	Conrad Hartmann	2443826
	10/10/2023	10/11/2023 12:15	George D Taylor	10/12/2023 18:04	Conrad Hartmann	2443825
	10/10/2023	10/11/2023 12:15	George D Taylor	10/16/2023 20:42	Conrad Hartmann	2443826
EPA 300.0 Rev. 2.1	10/10/2023			10/17/2023 00:05	James L Waggeberby	2443782
	10/10/2023			10/17/2023 00:20	James L Waggeberby	2443784
	10/10/2023			10/17/2023 00:35	James L Waggeberby	2443786
	10/10/2023			10/17/2023 00:51	James L Waggeberby	2443788
EPA 350.1 Rev. 2.0	10/10/2023			10/12/2023 13:23	Khloe J Berg	2443785
	10/10/2023			10/12/2023 13:24	Khloe J Berg	2443787
	10/10/2023			10/12/2023 13:50	Khloe J Berg	2443783, 2443789
EPA 351.2 Rev. 2.0	10/10/2023	10/12/2023 13:00	Simonne.V. Calhoun	10/13/2023 10:19	Samantha L Bates	2443783
	10/10/2023	10/12/2023 13:00	Simonne.V. Calhoun	10/16/2023 14:09	Samantha L Bates	2443785
	10/10/2023	10/12/2023 13:00	Simonne.V. Calhoun	10/16/2023 14:11	Samantha L Bates	2443787
	10/10/2023	10/18/2023 11:29	Ping Hua	10/19/2023 11:26	Ping Hua	2443789
EPA 353.2 Rev. 2.0	10/10/2023			10/11/2023 14:52	Fadila Guebre	2443783
	10/10/2023			10/17/2023 10:57	Anna M. Plaviak	2443789
	10/10/2023			10/25/2023 16:32	Fadila Guebre	2443785
	10/10/2023			10/30/2023 13:15	Fadila Guebre	2443787
EPA 365.1 Rev. 2.0	10/10/2023	10/11/2023 13:38	Adam P Silver	10/13/2023 10:41	James L Waggeberby	2443787
	10/10/2023	10/11/2023 13:38	Adam P Silver	10/13/2023 13:34	James L Waggeberby	2443785
	10/10/2023	10/11/2023 13:38	Adam P Silver	10/13/2023 14:11	James L Waggeberby	2443789
	10/10/2023	10/11/2023 13:38	Adam P Silver	10/13/2023 14:20	James L Waggeberby	2443783
EPA 8270E	10/10/2023	10/11/2023 08:30	Rasheda Ghaffari	10/17/2023 00:33	Arthur Maknenko	2443823
	10/10/2023	10/12/2023 08:30	Rasheda Ghaffari	10/20/2023 21:51	Julie Wi	2443822
	10/10/2023	10/12/2023 08:30	Rasheda Ghaffari	10/24/2023 00:35	Lipi Saha	2443822
	10/10/2023	10/12/2023 08:30	Rasheda Ghaffari	10/24/2023 01:05	Lipi Saha	2443824
	10/10/2023	10/12/2023 08:30	Rasheda Ghaffari	10/26/2023 03:46	Julie Wi	2443824
	10/10/2023	10/17/2023 08:30	Rasheda Ghaffari	10/20/2023 17:22	Vandana T. Nagar	2443823
EPA 8276	10/10/2023	10/12/2023 08:30	Rasheda Ghaffari	10/20/2023 14:51	Arthur Maknenko	2443822
	10/10/2023	10/12/2023 08:30	Rasheda Ghaffari	10/20/2023 15:49	Arthur Maknenko	2443824
EPA 8321B	10/10/2023	10/10/2023 12:00	Hana Lee	10/10/2023 13:59	Tae K Lee	2443820

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	10/10/2023	10/10/2023 12:00	Hana Lee	10/10/2023 14:13	Tae K Lee	2443821
	10/10/2023	10/10/2023 12:00	Hana Lee	10/11/2023 00:00	Tae K Lee	2443820
	10/10/2023	10/10/2023 12:00	Hana Lee	10/11/2023 00:13	Tae K Lee	2443821
	10/10/2023	10/10/2023 12:30	Hoor Shaik	10/10/2023 21:43	Juyoung Kim	2443819
	10/10/2023	10/11/2023 12:00	Hoor Shaik	10/13/2023 18:22	Juyoung Kim	2443820
	10/10/2023	10/11/2023 12:00	Hoor Shaik	10/13/2023 18:40	Juyoung Kim	2443821
SM 2320 B-2011	10/10/2023			10/12/2023 00:26	Dale L. Simmons	2443782
	10/10/2023			10/12/2023 00:34	Dale L. Simmons	2443788
	10/10/2023			10/12/2023 04:51	Dale L. Simmons	2443784
	10/10/2023			10/12/2023 05:04	Dale L. Simmons	2443786
SM 2340 B-2011	10/10/2023			10/20/2023 16:45	Samatha Luckman	2443825
SM 2540 C-2015	10/10/2023			10/11/2023 15:58	Yijie Li	2443782, 2443784, 2443786, 2443788
SM 2540 D-2015	10/10/2023			10/11/2023 15:58	Yijie Li	2443782, 2443784, 2443786, 2443788
SM 4500-F- C-2011	10/10/2023			10/12/2023 00:26	Dale L. Simmons	2443782
	10/10/2023			10/12/2023 00:34	Dale L. Simmons	2443788
	10/10/2023			10/16/2023 23:34	Adam P Silver	2443786
	10/10/2023			10/20/2023 03:46	Dale L. Simmons	2443784
SM 5310 B-2011	10/10/2023			10/11/2023 22:06	Elise M. Gillis	2443783
	10/10/2023			10/12/2023 00:30	Elise M. Gillis	2443785
	10/10/2023			10/12/2023 01:23	Elise M. Gillis	2443787
	10/10/2023			10/16/2023 19:54	Khloe J Berg	2443789