

Chemical Analysis Report

NE-DIST-2024-01-24-01

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

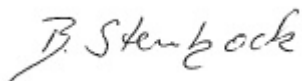
Event Description: **LSJR North 2 2024**
Request ID: **RQ-2024-01-22-27**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Marek Topolski, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 13-FEB-2024 14:28



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: LITTLE TROUT RIVER AT OLD KINGS RD

Collection Date/Time: 01/23/2024 10:00

Field ID: 20030739					Matrix: W-SURF-FRH		
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463002	DEP SOP: NU-094-1	Color (true)	250		PCU	P440385	
	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P440388	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P440677	
		Sulfate	3.1		mg SO4/L	P440680	
	SM 2320 B-2011	Total Alkalinity	10		mg CaCO3/L	P440871	
	SM 2540 C-2015	TDS	108		mg/L	P440826	
	SM 2540 D-2015	TSS	2	I	mg/L	P440743	
	SM 4500-F- C-2011	Fluoride	0.037	I	mg F/L	P440874	
2463003	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P440814	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.76		mg N/L	P440747	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P440835	
	EPA 365.1 Rev. 2.0	Total-P	0.033		mg P/L	P440466	
	SM 5310 B-2014	Organic Carbon	24		mg C/L	P440785	

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

Sample Location: RIBAUTL RIVER AT HARBOR VIEW BOAT RAMP

Collection Date/Time: 01/23/2024 11:05

Field ID: G2NE1161

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462998	DEP SOP: NU-094-1	Color (true)	95	A	PCU	P440386	
	EPA 180.1 Rev. 2.0	Turbidity	19		NTU	P440388	
	EPA 300.0 Rev. 2.1	Chloride	94		mg Cl/L	P440677	
		Sulfate	28		mg SO4/L	P440680	
	SM 2320 B-2011	Total Alkalinity	73		mg CaCO3/L	P440871	
	SM 2540 C-2015	TDS	300		mg/L	P440826	
	SM 2540 D-2015	TSS	19		mg/L	P440743	
	SM 4500-F- C-2011	Fluoride	0.10		mg F/L	P440874	
2463000	EPA 350.1 Rev. 2.0	Ammonia-N	0.070		mg N/L	P440814	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.61		mg N/L	P440747	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.094		mg N/L	P440835	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P440465	
	SM 5310 B-2014	Organic Carbon	15		mg C/L	P440785	

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

Sample Location: RIBAUTL RIVER AT US 1

Collection Date/Time: 01/23/2024 11:30

Field ID: 20030133

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462999	DEP SOP: NU-094-1	Color (true)	110		PCU	P440385	
	EPA 180.1 Rev. 2.0	Turbidity	7.4		NTU	P440388	
	EPA 300.0 Rev. 2.1	Chloride	23		mg Cl/L	P440677	
		Sulfate	21		mg SO4/L	P440680	
	SM 2320 B-2011	Total Alkalinity	69		mg CaCO3/L	P440871	
	SM 2540 C-2015	TDS	174		mg/L	P440826	
	SM 2540 D-2015	TSS	6	I	mg/L	P440743	
2463001	SM 4500-F- C-2011	Fluoride	0.091	I	mg F/L	P440874	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.078		mg N/L	P440814	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.62		mg N/L	P440747	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.081		mg N/L	P440835	
	EPA 365.1 Rev. 2.0	Total-P	0.058		mg P/L	P440466	
2463019	SM 5310 B-2014	Organic Carbon	14		mg C/L	P440785	
	EPA 200.7 Rev. 4.4	Calcium	33.0		mg/L	P440415	
		Chromium	1.0	U	ug/L	P440415	
		Iron	900		ug/L	P440415	
		Magnesium	5.42		mg/L	P440415	
		Potassium	2.0		mg/L	P440415	
		Sodium	16.8		mg/L	P440415	
		Strontium	203		ug/L	P440415	
		Tin	3.0	U	ug/L	P440415	
		Titanium	11.0		ug/L	P440415	
		Vanadium	2.0	U	ug/L	P440415	
	EPA 200.8 Rev. 5.4	Zinc	23		ug/L	P440415	
		Aluminum	405		ug/L	P440415	
		Antimony	0.23		ug/L	P440415	
		Arsenic	0.60		ug/L	P440415	
		Barium	29.5		ug/L	P440415	
		Beryllium	0.024	I	ug/L	P440415	
		Boron	42.1		ug/L	P440415	
		Cadmium	0.020	U	ug/L	P440415	
		Cobalt	0.140		ug/L	P440415	
		Copper	15.6		ug/L	P440415	
		Lead	0.54		ug/L	P440415	
		Manganese	22.9		ug/L	P440415	
		Molybdenum	0.52	I	ug/L	P440415	
		Nickel	0.77	I	ug/L	P440415	
		Selenium	0.20	U	ug/L	P440415	
		Silver	0.010	U	ug/L	P440415	
		Thallium	0.10	U	ug/L	P440415	
	SM 2340 B-2011	Hardness	105		mg/L	P440415	

Ref. Method and Comment:

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

EPA 200.8 Rev. 5.4: The copper result was confirmed in the undigested sample on 01/29/2024.

**Sample Location: MONCRIEF CR LEM TURNER RD BR
NORWOOD AVE**

Collection Date/Time: 01/23/2024 12:10

Field ID: 20030114

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2462996	DEP SOP: NU-094-1	Color (true)	35		PCU	P440385	
	EPA 180.1 Rev. 2.0	Turbidity	11		NTU	P440388	
	EPA 300.0 Rev. 2.1	Chloride	170		mg Cl/L	P440677	
		Sulfate	58		mg SO4/L	P440680	
	SM 2320 B-2011	Total Alkalinity	147		mg CaCO3/L	P440871	
	SM 2540 C-2015	TDS	483		mg/L	P440826	
	SM 2540 D-2015	TSS	8	I	mg/L	P440743	
	SM 4500-F- C-2011	Fluoride	0.17		mg F/L	P440874	
2462997	EPA 350.1 Rev. 2.0	Ammonia-N	0.24		mg N/L	P440814	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.82		mg N/L	P440747	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.33		mg N/L	P440835	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P440465	
	SM 5310 B-2014	Organic Carbon	7.4		mg C/L	P440712	
2463014	EPA 8321B	Aldicarb	0.020	U	ug/L	P440598	
		Aldicarb Sulfone	0.0020	U	ug/L	P440598	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P440598	
		Carbaryl	0.0020	U	ug/L	P440598	
		Carbofuran	0.0020	U	ug/L	P440598	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P440598	
		Methiocarb	0.0020	U	ug/L	P440598	
		Methomyl	0.0020	U	ug/L	P440598	
		Oxamyl	0.0020	U	ug/L	P440598	
		Propoxur	0.0020	U	ug/L	P440598	
2463015		2,4-D	2.2		ug/L	P440426	
		Acesulfame K	0.14	I	ug/L	P440203	
		2,4,5-T	0.0040	U	ug/L	P440426	
		AMPA	0.11	I	ug/L	P440203	
		Acetaminophen	0.059		ug/L	P440426	
		Acetamiprid	0.0020	U	ug/L	P440426	
		Endothall	0.25	U	ug/L	P440203	
		Glufosinate	0.10	U	ug/L	P440203	
		Glyphosate	0.17	I	ug/L	P440203	
		Afidopyropen	0.0020	U	ug/L	P440426	
		Bentazon	0.0060		ug/L	P440426	
		Sucralose	0.25		ug/L	P440203	
		Benzovindiflupyr	0.0020	U	ug/L	P440426	
		Carbamazepine	8.4E-04	I	ug/L	P440426	
		Clothianidin	0.0020	U	ug/L	P440426	
		Dinotefuran	0.0046	I	ug/L	P440426	
		Diuron	0.0057	I	ug/L	P440426	
		Fenuron	0.032	U	ug/L	P440426	
		Fluridone	8.0E-04	U	ug/L	P440426	
		Imazapyr	0.19		ug/L	P440426	

Field ID: 20030114

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463015	EPA 8321B	Hydrocodone	0.0020	U	ug/L	P440426	
		Ibuprofen	0.080	U	ug/L	P440426	
		Imidacloprid	0.012		ug/L	P440426	
		Linuron	0.0040	U	ug/L	P440426	
		Mandestrobin	0.0020	U	ug/L	P440426	
		MCP	0.0020	U	ug/L	P440426	
		Naproxen	0.0080	U	ug/L	P440426	
		Primidone	0.0040	U	ug/L	P440426	
		Pyraclostrobin	0.0020	U	ug/L	P440426	
		Silvex	0.0040	U	ug/L	P440426	
		Thiamethoxam	0.0020	U	ug/L	P440426	
		Tolfenpyrad	0.0020	U	ug/L	P440426	
		Triclopyr	0.0040	U	ug/L	P440426	
2463016	EPA 8270E	Aldrin	0.67	U	ng/L	P440412	
		Alpha-BHC	0.24	I	ng/L	P440412	
		Alpha-Chlordane	0.21	U	ng/L	P440412	
		PCB-1016	2.1	U	ng/L	P440412	
		Beta-BHC	0.10	U	ng/L	P440412	
		PCB-1221	2.1	U	ng/L	P440412	
		Beta-Cyfluthrin	1.3	U	ng/L	P440412	
		PCB-1232	2.1	U	ng/L	P440412	
		Bifenthrin	0.52	U	ng/L	P440412	
		PCB-1242	2.1	U	ng/L	P440412	
		PCB-1248	2.1	U	ng/L	P440412	
		Chlorothalonil	3.7	U	ng/L	P440412	
		PCB-1254	2.1	U	ng/L	P440412	
		Cis-Nonachlor	0.21	U	ng/L	P440412	
		PCB-1260	2.1	U	ng/L	P440412	
		Cypermethrin	1.5	U	ng/L	P440412	
		Dacthal	0.15	U	ng/L	P440412	
		DDD-p,p'	0.26	U	ng/L	P440412	
		DDE-p,p'	0.21	U	ng/L	P440412	
		DDT-p,p'	0.82	U	ng/L	P440412	
		Delta-BHC	0.99	I	ng/L	P440412	
		Deltamethrin	1.3	U	ng/L	P440412	
		Dichlobenil	0.26	U	ng/L	P440412	
		Dicofol	1.3	U	ng/L	P440412	
		Diieldrin	0.84	I	ng/L	P440412	
		Endosulfan I	0.41	U	ng/L	P440412	MS, RPD
		Endosulfan II	0.93	U	ng/L	P440412	
		Endosulfan Sulfate	0.31	UJ	ng/L	P440412	LCS, MS
		Endrin	0.93	U	ng/L	P440412	
		Endrin Aldehyde	0.77	U	ng/L	P440412	
		Endrin Ketone	0.41	U	ng/L	P440412	
		Esfenvalerate	0.77	U	ng/L	P440412	

Field ID: 20030114

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes		
2463016	EPA 8270E	Ethalfuralin	0.15	U	ng/L	P440412			
		Fenpropathrin	0.26	U	ng/L	P440412			
		Gamma-BHC	0.14	I	ng/L	P440412			
		Gamma-Chlordane	0.21	U	ng/L	P440412			
		Heptachlor	0.21	U	ng/L	P440412			
		Heptachlor Epoxide	0.29	I	ng/L	P440412	MS, RPD		
		Hexachlorobenzene**	1.0	U	ng/L	P440412			
		Kepone	14	U	ng/L	P440412			
		Lambda-Cyhalothrin	0.77	U	ng/L	P440412			
		Methoprene	0.77	U	ng/L	P440412			
		Methoxychlor	0.31	U	ng/L	P440412			
		MGK-264	0.21	UJ	ng/L	P440412	LCS, MS		
		Mirex	0.36	U	ng/L	P440412			
		Oxychlordane	0.31	U	ng/L	P440412	MS, RPD		
		Permethrin	1.6	U	ng/L	P440412			
		Phenothrin	0.93	U	ng/L	P440412			
		Piperonyl Butoxide	1.3		ng/L	P440412			
		Prallethrin	2.1	U	ng/L	P440412			
		Tau-Fluvalinate	0.26	U	ng/L	P440412			
		Tetramethrin	0.77	U	ng/L	P440412			
		Trans-Nonachlor	0.21	U	ng/L	P440412	MS		
		Triclosan Methyl	0.15	U	ng/L	P440412	MS, RPD		
		Trifluralin	0.21	U	ng/L	P440412			
			EPA 8276	Chlordane	2.1	U	ng/L	P440412	
				Toxaphene	33	I	ng/L	P440412	
2463017	EPA 8270E	Oxybenzone**	12	U	ng/L	P440184	RPD		
		Acetochlor	0.24	U	ng/L	P440184	RPD		
		Octinoxate**	180	U	ng/L	P440184			
		Alachlor	0.47	U	ng/L	P440184			
		Avobenzone**	120	U	ng/L	P440184			
		Ametryn	1.3	U	ng/L	P440184			
		Atrazine	10		ng/L	P440184			
		PBDE-47**	4.7	U	ng/L	P440184			
		Atrazine Desethyl	1.5	U	ng/L	P440184			
		PBDE-99**	5.9	U	ng/L	P440184			
		Azinphos Methyl	3.5	UJ	ng/L	P440184	CCV		
		Tri-o-cresyl Phosphate**	7.1	U	ng/L	P440184			
		Azoxystrobin	0.47	U	ng/L	P440184			
		Bromacil	16		ng/L	P440184			
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	14	U	ng/L	P440184			
		Butylate	0.53	U	ng/L	P440184	RPD		
		Dechlorane Plus**	35	U	ng/L	P440184			
		Caffeine**	64		ng/L	P440184			
		Dechlorane 602**	5.9	U	ng/L	P440184			

Field ID: 20030114

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463017	EPA 8270E	Carbophenothion	0.59	U	ng/L	P440184	
		Dechlorane 603**	4.7	U	ng/L	P440184	
		Carfentrazone Ethyl	0.18	U	ng/L	P440184	
		Hexabromobenzene**	7.1	U	ng/L	P440184	
		Chlorfenapyr	0.35	U	ng/L	P440184	
		PBB-153**	7.1	U	ng/L	P440184	
		Chlorpyrifos Ethyl	0.35	U	ng/L	P440184	
		Pentabromotoluene**	3.5	U	ng/L	P440184	RPD
		Chlorpyrifos Methyl	0.12	U	ng/L	P440184	
		Tris(2-chloroethyl) phosphate (TCEP)**	65	U	ng/L	P440184	RPD
		Coumaphos	1.2	UJ	ng/L	P440184	CCV
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	29	U	ng/L	P440184	RPD
		Cyanazine	5.9	U	ng/L	P440184	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	7.1	I	ng/L	P440184	RPD
		Cyprodinil	0.24	U	ng/L	P440184	
		Tetradecachloro-m-terphenyl**	8.8	U	ng/L	P440184	RPD
		Demeton	4.1	U	ng/L	P440184	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	71	U	ng/L	P440184	
		Diazinon	0.15	U	ng/L	P440184	
		Difenoconazole	0.71	U	ng/L	P440184	
		Dimethenamid	0.12	U	ng/L	P440184	
		Dimethomorph	0.35	UJ	ng/L	P440184	LCS, MS
		Disulfoton	0.71	U	ng/L	P440184	
		Dithiopyr	1.2	U	ng/L	P440184	
		EPTC	0.59	U	ng/L	P440184	
		Ethion	0.35	U	ng/L	P440184	
		Ethoprop	0.15	U	ng/L	P440184	
		Etridiazole	0.12	U	ng/L	P440184	
		Fenamiphos	0.53	U	ng/L	P440184	
		Fenbuconazole	0.59	U	ng/L	P440184	
		Fipronil	1.6		ng/L	P440184	
		Fipronil Desulfinyl**	1.1		ng/L	P440184	
		Fipronil Sulfide	1.6		ng/L	P440184	
		Fipronil Sulfone	4.0		ng/L	P440184	
		Fluazifop-P-butyl	0.12	UJ	ng/L	P440184	CCV
		Fludioxonil	0.12	U	ng/L	P440184	
		Flumioxazin	3.5	U	ng/L	P440184	
		Flutolanil	0.12	UJ	ng/L	P440184	LCS
		Fluxapyroxad	2.5		ng/L	P440184	
		Fonofos	0.18	U	ng/L	P440184	
		Hexazinone	0.59	U	ng/L	P440184	
		Imazalil	0.76	U	ng/L	P440184	
		Iprodione	0.59	U	ng/L	P440184	
		Loratadine**	0.35	UJ	ng/L	P440184	LCS

Field ID: 20030114

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463017	EPA 8270E	Malathion	0.41	U	ng/L	P440184	
		Metalaxyl	0.59	U	ng/L	P440184	
		Metolachlor	2.3	I	ng/L	P440184	
		Metribuzin	1.4	I	ng/L	P440184	
		Mevinphos	1.2	U	ng/L	P440184	
		Molinate	0.29	U	ng/L	P440184	
		Myclobutanil	0.44	I	ng/L	P440184	
		Naled	2.9	U	ng/L	P440184	
		Napropamide	0.82	U	ng/L	P440184	
		Norflurazon	1.2	U	ng/L	P440184	
		Oxadiazon	1.1	I	ng/L	P440184	
		Oxyfluorfen	0.24	U	ng/L	P440184	
		Parathion Ethyl	0.18	U	ng/L	P440184	RPD
		Parathion Methyl	0.24	U	ng/L	P440184	MS, RPD
		Pendimethalin	2.0	U	ng/L	P440184	
		Phenytain**	6.2	U	ng/L	P440184	
		Phorate	0.29	U	ng/L	P440184	
		Prodiamine	0.24	U	ng/L	P440184	
		Prometon	3.5	U	ng/L	P440184	
		Prometryn	0.41	U	ng/L	P440184	
		Pronamide	0.48	I	ng/L	P440184	
		Propanil	0.12	U	ng/L	P440184	
		Propargite	0.94	U	ng/L	P440184	
		Propiconazole	0.71	U	ng/L	P440184	
		Pyraflufen Ethyl	0.35	U	ng/L	P440184	
		Pyridaben	1.6	U	ng/L	P440184	
		Pyriproxyfen	0.29	U	ng/L	P440184	
		Simazine	1.4	I	ng/L	P440184	
		Stirophos	0.47	U	ng/L	P440184	
		Sulfentrazone	35		ng/L	P440184	
		Tebuconazole	2.5	I	ng/L	P440184	
		Terbufos	0.24	U	ng/L	P440184	
		Terbuthylazine	0.24	U	ng/L	P440184	
		Thiobencarb	0.59	U	ng/L	P440184	
		Triadimefon	0.18	U	ng/L	P440184	
2463018	EPA 200.7 Rev. 4.4	Calcium	68.1		mg/L	P440415	
		Chromium	1.0	U	ug/L	P440415	
		Iron	1.27E+03		ug/L	P440415	
		Magnesium	21.7		mg/L	P440415	
		Potassium	5.7		mg/L	P440415	
		Sodium	109		mg/L	P440415	
		Strontium	453		ug/L	P440415	
		Tin	3.0	U	ug/L	P440415	
		Titanium	2.5	I	ug/L	P440415	
		Vanadium	2.0	U	ug/L	P440415	

Field ID: 20030114

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463018	EPA 200.7 Rev. 4.4	Zinc	17	I	ug/L	P440415	
	EPA 200.8 Rev. 5.4	Aluminum	180		ug/L	P440415	
		Antimony	0.26		ug/L	P440415	
		Arsenic	0.92		ug/L	P440415	
		Barium	53.4		ug/L	P440415	
		Beryllium	0.023	I	ug/L	P440415	
		Boron	94.7		ug/L	P440415	
		Cadmium	0.025	I	ug/L	P440415	
		Cobalt	0.204		ug/L	P440415	
		Copper	1.37		ug/L	P440415	
		Lead	1.23		ug/L	P440415	
		Manganese	45.4		ug/L	P440415	
		Molybdenum	1.06		ug/L	P440415	
		Nickel	0.85	I	ug/L	P440415	
		Selenium	0.25	I	ug/L	P440415	
		Silver	0.010	U	ug/L	P440415	
		Thallium	0.10	U	ug/L	P440415	
	SM 2340 B-2011	Hardness	259		mg/L	P440415	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes 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.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P440385

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P440386

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440388

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440415

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Chromium	1.0	U	ug/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: P440415

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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440677

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440680

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440814

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440747

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440835

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440465

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440466

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

Reference Method: EPA 8270E
Batch ID: P440184

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzene	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P440184

Component	Result	Code	Units
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
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P440184

Component	Result	Code	Units
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoln	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stiophos	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
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8270E

Batch ID: P440412

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P440412

Component	Result	Code	Units
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P440412

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P440203

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: P440426

Component	Result	Code	Units
2,4-D	0.0048	I	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: EPA 8321B

Batch ID: P440598

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P440598

Component	Result	Code	Units
Propoxur	0.0020	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P440871

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

Reference Method: SM 2540 C-2015
Batch ID: P440826

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P440743

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P440874

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P440712

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

Reference Method: SM 5310 B-2014
Batch ID: P440785

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: P440385

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P440386

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: P440388

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440415

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	112		P	85 - 115
Chromium	102		P	85 - 115
Iron	112		P	85 - 115
Magnesium	112		P	85 - 115
Potassium	106		P	85 - 115
Sodium	107		P	85 - 115
Strontium	107		P	85 - 115
Tin	99.7		P	85 - 115
Titanium	104		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440415

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.9		P	85 - 115
Antimony	99.2		P	85 - 115
Arsenic	99.8		P	85 - 115
Barium	100		P	85 - 115
Beryllium	95.7		P	85 - 115
Boron	99.8		P	85 - 115
Cadmium	98.4		P	85 - 115
Cobalt	95.8		P	85 - 115
Copper	95.6		P	85 - 115
Lead	94.7		P	85 - 115
Manganese	96.2		P	85 - 115
Molybdenum	97.7		P	85 - 115
Nickel	108		P	85 - 115
Selenium	101		P	85 - 115
Silver	96.2		P	85 - 115
Thallium	96.5		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440677

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440680

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440814

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440747

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440835

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440465

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: P440466

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

Reference Method: EPA 8270E
Batch ID: P440184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	80.3		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	102		P	37 - 154
Acetochlor	109		P	64 - 124
Alachlor	111		P	61 - 118
Ametryn	146		P	47 - 158
Atrazine	105		P	68 - 121
Atrazine Desethyl	112		P	30 - 119
Avobenzone	124		P	48 - 193
Azinphos Methyl	146		P	30 - 194
Azoxystrobin	150		P	58 - 154

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P440184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bromacil	122		P	47 - 126
Butylate	62.1		P	31 - 83.0
Caffeine	117		P	10 - 180
Carbophenothion	127		P	59 - 133
Carfentrazone Ethyl	141		P	59 - 147
Chlorfenapyr	100		P	52 - 118
Chlorpyrifos Ethyl	111		P	59 - 119
Chlorpyrifos Methyl	117		P	65 - 123
Coumaphos	172		P	11 - 223
Cyanazine	224		P	63 - 250
Cyprodinil	114		P	52 - 143
Dechlorane 602	64.9		P	23 - 142
Dechlorane 603	102		P	51 - 171
Dechlorane Plus	105		P	46 - 161
Demeton	87.0		P	42 - 119
Diazinon	120		P	67 - 132
Difenoconazole	170		P	12 - 204
Dimethenamid	95.5		P	53 - 113
Dimethomorph	298		F	13 - 238
Disulfoton	125		P	56 - 126
Dithiopyr	114		P	58 - 127
EPTC	52.3		P	31 - 78.0
Ethion	39.1		P	24 - 127
Ethoprop	109		P	60 - 118
Etridiazole	70.8		P	32 - 91.0
Fenamiphos	98.5		P	54 - 129
Fenbuconazole	119		P	31 - 162
Fipronil	129		P	56 - 131
Fipronil Desulfinyl	111		P	58 - 132
Fipronil Sulfide	106		P	51 - 123
Fipronil Sulfone	109		P	50 - 125
Fluazifop-P-butyl	117		P	52 - 132
Fludioxonil	106		P	52 - 129
Flumioxazin	201		P	34 - 250
Flutolanil	134		F	45 - 128
Fluxapyroxad	92.6		P	31 - 150
Fonofos	112		P	60 - 116
Hexabromobenzene	98.4		P	52 - 165
Hexazinone	106		P	59 - 120
Imazalil	129		P	39 - 134
Iprodione	175		P	39 - 243
Loratadine	270		F	10 - 240
Malathion	124		P	53 - 145
Metalaxyl	95.6		P	59 - 120
Metolachlor	101		P	64 - 122
Metribuzin	126		P	33 - 128
Mevinphos	97.0		P	48 - 119
Molinate	66.5		P	42 - 89.0
Myclobutanil	109		P	54 - 129
Naled	54.1		P	10 - 138
Napropamide	65.3		P	40 - 122
Norflurazon	113		P	49 - 132

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P440184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Octinoxate	101		P	29 - 176
Oxadiazon	95.3		P	50 - 115
Oxybenzone	99.3		P	45 - 145
Oxyfluorfen	120		P	62 - 149
Parathion Ethyl	107		P	68 - 119
Parathion Methyl	111		P	68 - 147
PBB-153	105		P	42 - 179
PBDE-47	85.8		P	44 - 141
PBDE-99	90.1		P	36 - 141
Pendimethalin	94.7		P	59 - 158
Pentabromotoluene	89.8		P	58 - 148
Phenytoln	33.8		P	10 - 151
Phorate	104		P	44 - 124
Prodiamine	42.7		P	10 - 136
Prometon	105		P	45 - 131
Prometryn	126		P	52 - 140
Pronamide	119		P	70 - 129
Propanil	124		P	54 - 144
Propargite	71.0		P	10 - 191
Propiconazole	87.0		P	49 - 128
Pyraflufen Ethyl	125		P	46 - 141
Pyridaben	164		P	29 - 198
Pyriproxyfen	93.7		P	33 - 221
Simazine	108		P	62 - 119
Stiophos	70.9		P	13 - 144
Sulfentrazone	118		P	12 - 152
Tebuconazole	51.2		P	10 - 135
Terbufos	115		P	67 - 136
Terbutylazine	105		P	66 - 113
Tetradecachloro-m-terphenyl	147		P	30 - 235
Thiobencarb	111		P	51 - 125
Tri-o-cresyl Phosphate	88.6		P	50 - 150
Triadimefon	101		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	107		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	105		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	119		P	59 - 166

Reference Method: EPA 8270E
Batch ID: P440412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	64.4		P	30 - 96.0
Alpha-BHC	81.4		P	70 - 109
Alpha-Chlordane	103		P	45 - 107
Beta-BHC	96.5		P	64 - 138
Beta-Cyfluthrin	108		P	17 - 141
Bifenthrin	37.3		P	10 - 113
Chlorothalonil	102		P	26 - 180
Cis-Nonachlor	57.0		P	37 - 102
Cypermethrin	58.2		P	20 - 133
Dacthal	95.5		P	69 - 114
DDD-p,p'	57.7		P	42 - 105

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P440412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDE-p,p'	57.7		P	42 - 106
DDT-p,p'	71.4		P	42 - 107
Delta-BHC	71.7		P	67 - 144
Deltamethrin	125		P	15 - 149
Dichlobenil	90.0		P	46 - 117
Dicofol	72.7		P	34 - 114
Dieldrin	85.1		P	50 - 108
Endosulfan I	88.0		P	55 - 104
Endosulfan II	86.2		P	51 - 111
Endosulfan Sulfate	127		F	56 - 121
Endrin	94.5		P	10 - 106
Endrin Aldehyde	93.1		P	34 - 114
Endrin Ketone	101		P	63 - 177
Esfenvalerate	103		P	29 - 143
Ethalfuralin	91.6		P	46 - 96.0
Fenpropathrin	41.9		P	28 - 115
Gamma-BHC	80.4		P	65 - 121
Gamma-Chlordane	62.5		P	39 - 103
Heptachlor	47.6		P	39 - 94.0
Heptachlor Epoxide	101		P	54 - 104
Hexachlorobenzene	48.8		P	36 - 100
Kepone	129		P	10 - 225
Lambda-Cyhalothrin	67.9		P	10 - 135
Methoprene	38.5		P	10 - 109
Methoxychlor	64.7		P	52 - 112
MGK-264	129		F	44 - 117
Mirex	36.8		P	20 - 90.0
Oxychlordane	83.4		P	44 - 102
PCB-1016	73.3		P	45 - 107
PCB-1260	77.4		P	40 - 118
Permethrin	97.2		P	18 - 135
Phenothrin	71.1		P	10 - 102
Piperonyl Butoxide	105		P	28 - 156
Prallethrin	110		P	28 - 113
Tau-Fluvalinate	51.9		P	10 - 123
Tetramethrin	103		P	18 - 158
Trans-Nonachlor	78.6		P	39 - 104
Triclosan Methyl	94.2		P	54 - 108
Trifluralin	92.1		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P440412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	101		P	52 - 117
Toxaphene	110		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P440203

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	106		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P440203

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	101		P	40 - 160
Endothall	101		P	40 - 160
Glufosinate	99.5		P	40 - 160
Glyphosate	99.2		P	40 - 160
Sucralose	106		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440426

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	123		P	40 - 150
2,4,5-T	105		P	40 - 150
Acetaminophen	92.3		P	30 - 150
Acetamiprid	95.2		P	40 - 150
Afidopyropen	75.3		P	30 - 150
Bentazon	96.0		P	30 - 150
Benzovindiflupyr	92.6		P	40 - 150
Carbamazepine	87.5		P	40 - 150
Clothianidin	99.1		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	86.0		P	40 - 150
Fenuron	100		P	40 - 150
Fluridone	96.7		P	40 - 150
Hydrocodone	115		P	40 - 150
Ibuprofen	79.1		P	40 - 150
Imazapyr	97.1		P	40 - 150
Imidacloprid	97.0		P	40 - 150
Linuron	81.4		P	40 - 150
Mandestrobin	95.6		P	40 - 150
MCPP	97.9		P	40 - 150
Naproxen	72.6		P	40 - 150
Primidone	90.6		P	40 - 150
Pyraclostrobin	93.9		P	40 - 150
Silvex	92.1		P	40 - 150
Thiamethoxam	108		P	40 - 150
Tolfenpyrad	61.8		P	30 - 150
Triclopyr	116		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	93.4		P	40 - 150
Aldicarb	70.7		P	30 - 150
Aldicarb Sulfone	107		P	40 - 150
Aldicarb Sulfoxide	130		P	40 - 150
Carbaryl	99.3		P	40 - 150
Carbofuran	92.4		P	40 - 150
Methiocarb	78.8		P	40 - 150
Methomyl	102		P	40 - 150
Oxamyl	101		P	40 - 150
Propoxur	91.5		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P440871

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.0		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P440826

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.4		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P440743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	97.6		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P440874

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

Reference Method: SM 5310 B-2014
Batch ID: P440712

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.6		P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P440785

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440415

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462861	Calcium	109		P	80 - 120
2462861	Chromium	101	99.1	P/P	80 - 120
2462861	Iron	116		P	80 - 120
2462861	Magnesium	114		P	80 - 120
2462861	Potassium	108	108	P/P	80 - 120
2462861	Sodium	107		P	80 - 120
2462861	Strontium	106	107	P/P	80 - 120
2462861	Tin	92.5	92.9	P/P	80 - 120
2462861	Titanium	102	102	P/P	80 - 120
2462861	Vanadium	101	102	P/P	80 - 120
2462861	Zinc	97.1	97.5	P/P	80 - 120
2463076	Calcium	110		P	80 - 120
2463076	Chromium	99.4		P	80 - 120
2463076	Iron	113		P	80 - 120
2463076	Magnesium	112		P	80 - 120
2463076	Potassium	105		P	80 - 120
2463076	Sodium	109		P	80 - 120
2463076	Strontium	105		P	80 - 120
2463076	Tin	94.9		P	80 - 120
2463076	Titanium	97.7		P	80 - 120
2463076	Vanadium	101		P	80 - 120
2463076	Zinc	99.7		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440415

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462861	Aluminum	98.7	99.0	P/P	80 - 120
2462861	Antimony	102	101	P/P	80 - 120
2462861	Arsenic	101	100	P/P	80 - 120
2462861	Barium	101	100	P/P	80 - 120
2462861	Beryllium	97.1	95.3	P/P	80 - 120
2462861	Boron	101	105	P/P	80 - 120
2462861	Cadmium	101	101	P/P	80 - 120
2462861	Cobalt	95.3	95.2	P/P	80 - 120
2462861	Copper	93.1	92.9	P/P	80 - 120
2462861	Lead	96.1	96.3	P/P	80 - 120
2462861	Manganese	98.1	99.0	P/P	80 - 120
2462861	Molybdenum	102	101	P/P	80 - 120
2462861	Nickel	95.4	95.8	P/P	80 - 120
2462861	Selenium	103	100	P/P	80 - 120
2462861	Silver	94.8	93.7	P/P	80 - 120
2462861	Thallium	103	102	P/P	80 - 120
2463076	Aluminum	97.8		P	80 - 120
2463076	Antimony	99.3		P	80 - 120
2463076	Arsenic	95.8		P	80 - 120
2463076	Barium	99.5		P	80 - 120
2463076	Beryllium	90.5		P	80 - 120
2463076	Boron	103		P	80 - 120
2463076	Cadmium	98.9		P	80 - 120
2463076	Cobalt	93.3		P	80 - 120
2463076	Copper	91.2		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440415

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463076	Lead	93.8		P	80 - 120
2463076	Manganese	97.1		P	80 - 120
2463076	Molybdenum	98.1		P	80 - 120
2463076	Nickel	91.2		P	80 - 120
2463076	Selenium	99.6		P	80 - 120
2463076	Silver	94.1		P	80 - 120
2463076	Thallium	96.8		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440677

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462635	Chloride	101		P	90 - 110
2463053	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440680

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462635	Sulfate	99.1		P	90 - 110
2463053	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2461495	Ammonia-N	94.4	93.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462954	Kjeldahl Nitrogen	104	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440835

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462927	NO2NO3-N	97.0	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440465

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462951	Total-P	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440466

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463059	Total-P	103	103	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P440184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462399	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	62.9	72.5	P/P	50 - 150
2462399	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	75.4	88.9	P/P	29 - 155
2462399	Acetochlor	73.2	99.0	P/P	60 - 124
2462399	Alachlor	76.8	88.2	P/P	54 - 122
2462399	Ametryn	101	131	P/P	51 - 208
2462399	Atrazine	71.0	84.6	P/P	57 - 131
2462399	Atrazine Desethyl	109	123	P/P	13 - 124
2462399	Avobenzone	84.7	117	P/P	35 - 187
2462399	Azinphos Methyl	101	112	P/P	43 - 276
2462399	Azoxystrobin	92.0	114	P/P	52 - 300
2462399	Bromacil	85.9	116	P/P	44 - 134
2462399	Butylate	32.7	55.4	P/P	23 - 82.0
2462399	Caffeine	121	141	P/P	10 - 277
2462399	Carbophenothion	95.6	107	P/P	47 - 135
2462399	Carfentrazone Ethyl	103	120	P/P	46 - 147
2462399	Chlorfenapyr	68.1	67.0	P/P	43 - 114
2462399	Chlorpyrifos Ethyl	74.2	88.6	P/P	47 - 124
2462399	Chlorpyrifos Methyl	78.8	96.3	P/P	60 - 135
2462399	Coumaphos	136	112	P/P	10 - 222
2462399	Cyanazine	161	192	P/P	10 - 257
2462399	Cyprodinil	78.6	102	P/P	42 - 148
2462399	Dechlorane 602	57.1	72.9	P/P	14 - 133
2462399	Dechlorane 603	72.5	96.5	P/P	18 - 191
2462399	Dechlorane Plus	74.6	92.1	P/P	23 - 154
2462399	Demeton	60.6	77.4	P/P	41 - 137
2462399	Diazinon	80.8	94.6	P/P	64 - 139
2462399	Difenoconazole	122	141	P/P	46 - 254
2462399	Dimethenamid	72.1	86.6	P/P	47 - 117
2462399	Dimethomorph	204	259	P/F	14 - 255
2462399	Disulfoton	83.3	109	P/P	52 - 130
2462399	Dithiopyr	82.4	99.3	P/P	40 - 121
2462399	EPTC	31.0	48.5	P/P	19 - 78.0
2462399	Ethion	47.2	55.7	P/P	12 - 124
2462399	Ethoprop	80.7	103	P/P	68 - 144
2462399	Etridiazole	44.4	64.7	P/P	26 - 96.0
2462399	Fenamiphos	75.3	105	P/P	41 - 129
2462399	Fenbuconazole	87.3	85.4	P/P	26 - 169
2462399	Fipronil	74.2	91.2	P/P	46 - 145
2462399	Fipronil Desulfinyl	91.4	103	P/P	47 - 136
2462399	Fipronil Sulfide	67.1	79.6	P/P	41 - 127
2462399	Fipronil Sulfone	89.6	92.0	P/P	35 - 133
2462399	Fluazifop-P-butyl	107	118	P/P	46 - 131
2462399	Fludioxonil	79.8	90.0	P/P	51 - 124
2462399	Flumioxazin	157	176	P/P	10 - 289
2462399	Flutolanil	91.0	105	P/P	34 - 130
2462399	Fluxapyroxad	81.9	91.6	P/P	10 - 197
2462399	Fonofos	73.5	77.6	P/P	42 - 131
2462399	Hexabromobenzene	74.2	95.4	P/P	47 - 178
2462399	Hexazinone	74.0	93.4	P/P	64 - 125
2462399	Imazalil	124	138	P/P	37 - 252
2462399	Iprodione	137	153	P/P	34 - 265
2462399	Loratadine	144	204	P/P	20 - 231

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P440184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462399	Malathion	88.2	101	P/P	34 - 164
2462399	Metalaxyl	67.6	90.7	P/P	49 - 125
2462399	Metolachlor	72.8	81.9	P/P	54 - 125
2462399	Metribuzin	82.7	104	P/P	51 - 139
2462399	Mevinphos	73.4	90.9	P/P	46 - 130
2462399	Molinate	43.2	56.7	P/P	39 - 93.0
2462399	Myclobutanil	83.3	98.0	P/P	50 - 130
2462399	Naled	37.9	53.8	P/P	10 - 150
2462399	Napropamide	74.2	76.9	P/P	10 - 109
2462399	Norflurazon	89.3	71.0	P/P	36 - 134
2462399	Octinoxate	73.8	102	P/P	18 - 170
2462399	Oxadiazon	64.1	73.4	P/P	43 - 112
2462399	Oxybenzone	79.2	119	P/P	33 - 154
2462399	Oxyfluorfen	96.5	115	P/P	62 - 154
2462399	Parathion Ethyl	66.2	105	P/P	65 - 120
2462399	Parathion Methyl	61.0	121	F/P	77 - 185
2462399	PBB-153	74.7	85.6	P/P	23 - 193
2462399	PBDE-47	67.0	93.3	P/P	31 - 139
2462399	PBDE-99	68.6	85.7	P/P	24 - 138
2462399	Pendimethalin	79.7	106	P/P	50 - 146
2462399	Pentabromotoluene	68.0	95.9	P/P	54 - 152
2462399	Phenytoin	32.7	45.0	P/P	10 - 157
2462399	Phorate	73.2	88.9	P/P	54 - 161
2462399	Prodiamine	47.1	55.5	P/P	29 - 160
2462399	Prometon	89.9	105	P/P	38 - 145
2462399	Prometryn	94.3	114	P/P	32 - 151
2462399	Pronamide	91.3	109	P/P	61 - 140
2462399	Propanil	92.3	112	P/P	50 - 147
2462399	Propargite	69.1	73.8	P/P	10 - 190
2462399	Propiconazole	65.6	50.4	P/P	30 - 146
2462399	Pyraflufen Ethyl	78.1	59.5	P/P	30 - 147
2462399	Pyridaben	133	163	P/P	15 - 195
2462399	Pyriproxyfen	75.4	83.3	P/P	31 - 218
2462399	Simazine	73.8	81.0	P/P	45 - 139
2462399	Stirophos	73.5	58.4	P/P	10 - 134
2462399	Sulfentrazone	82.5	94.3	P/P	53 - 186
2462399	Tebuconazole	49.9	48.6	P/P	10 - 133
2462399	Terbufos	74.5	94.2	P/P	65 - 151
2462399	Terbutylazine	71.6	88.6	P/P	62 - 117
2462399	Tetradecachloro-m-terphenyl	81.2	130	P/P	10 - 260
2462399	Thiobencarb	83.5	95.8	P/P	48 - 122
2462399	Tri-o-cresyl Phosphate	59.7	51.1	P/P	32 - 151
2462399	Triadimefon	73.9	89.5	P/P	46 - 124
2462399	Tris(1-chloro-2-propyl) phosphate (TCPP)	80.1	112	P/P	51 - 154
2462399	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	71.4	103	P/P	59 - 147
2462399	Tris(2-chloroethyl) phosphate (TCEP)	94.7	132	P/P	65 - 156

Reference Method: EPA 8270E

Batch ID: P440412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462903	Aldrin	72.7	56.8	P/P	24 - 81.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P440412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462903	Alpha-BHC	65.0	70.8	P/P	65 - 110
2462903	Alpha-Chlordane	118	76.1	P/P	43 - 119
2462903	Beta-BHC	116	107	P/P	54 - 165
2462903	Beta-Cyfluthrin	106	90.1	P/P	27 - 165
2462903	Bifenthrin	48.8	46.7	P/P	17 - 117
2462903	Chlorothalonil	43.1	56.6	P/P	10 - 255
2462903	Cis-Nonachlor	69.5	72.4	P/P	34 - 98.0
2462903	Cypermethrin	74.4	58.5	P/P	25 - 143
2462903	Dacthal	73.3	95.8	P/P	55 - 139
2462903	DDD-p,p'	65.0	58.2	P/P	30 - 109
2462903	DDE-p,p'	83.2	71.0	P/P	35 - 106
2462903	DDT-p,p'	62.7	73.9	P/P	41 - 101
2462903	Delta-BHC	67.6	67.3	P/P	58 - 165
2462903	Deltamethrin	80.9	132	P/P	10 - 194
2462903	Dichlobenil	52.1	54.0	P/P	22 - 114
2462903	Dicofol	63.8	73.3	P/P	17 - 133
2462903	Dieldrin	126	109	P/P	45 - 129
2462903	Endosulfan I	109	83.3	F/P	49 - 104
2462903	Endosulfan II	99.8	96.8	P/P	37 - 117
2462903	Endosulfan Sulfate	119	134	P/F	38 - 128
2462903	Endrin	81.4	97.1	P/P	35 - 116
2462903	Endrin Aldehyde	82.9	73.5	P/P	19 - 108
2462903	Endrin Ketone	89.7	103	P/P	44 - 134
2462903	Esfenvalerate	96.4	110	P/P	27 - 176
2462903	Ethalfuralin	82.3	86.4	P/P	49 - 100
2462903	Fenpropathrin	54.0	47.6	P/P	34 - 117
2462903	Gamma-BHC	88.2	82.6	P/P	59 - 129
2462903	Gamma-Chlordane	106	94.0	P/P	33 - 107
2462903	Heptachlor	49.7	52.0	P/P	37 - 94.0
2462903	Heptachlor Epoxide	125	77.8	F/P	38 - 118
2462903	Hexachlorobenzene	45.8	47.4	P/P	35 - 97.0
2462903	Kepone	101	94.6	P/P	10 - 221
2462903	Lambda-Cyhalothrin	48.7	61.2	P/P	23 - 190
2462903	Methoprene	61.3	50.5	P/P	21 - 109
2462903	Methoxychlor	72.0	68.7	P/P	46 - 118
2462903	MGK-264	137	93.9	F/P	39 - 122
2462903	Mirex	45.7	44.7	P/P	25 - 90.0
2462903	Oxychlordane	114	82.0	F/P	42 - 100
2462903	Permethrin	83.3	92.8	P/P	33 - 181
2462903	Phenothrin	88.0	74.3	P/P	12 - 125
2462903	Piperonyl Butoxide	114	108	P/P	10 - 178
2462903	Prallethrin	108	79.3	P/P	24 - 122
2462903	Tau-Fluvalinate	47.9	74.0	P/P	13 - 151
2462903	Tetramethrin	82.2	80.8	P/P	16 - 172
2462903	Trans-Nonachlor	107	111	F/F	39 - 100
2462903	Triclosan Methyl	135	91.2	F/P	43 - 110
2462903	Trifluralin	75.0	86.7	P/P	45 - 94.0
2463408	PCB-1016	71.6	63.3	P/P	45 - 107
2463408	PCB-1260	77.6	66.6	P/P	40 - 112

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P440412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463408	Chlordane	94.0	85.2	P/P	43 - 123
2463408	Toxaphene	94.5	87.6	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P440203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462397	Acesulfame K	105	106	P/P	40 - 150
2462397	AMPA	106	108	P/P	40 - 160
2462397	Endothall	107	108	P/P	40 - 160
2462397	Glufosinate	104	109	P/P	40 - 160
2462397	Glyphosate	104	101	P/P	40 - 160
2462397	Sucralose	96.9	99.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440426

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462667	2,4,5-T	91.9	84.9	P/P	40 - 150
2462667	Acetamiprid	96.3	98.7	P/P	40 - 150
2462667	Afidopyropen	94.4	97.6	P/P	30 - 150
2462667	Benzovindiflupyr	91.4	106	P/P	40 - 150
2462667	Carbamazepine	87.7	93.5	P/P	40 - 150
2462667	Clothianidin	111	119	P/P	40 - 150
2462667	Dinotefuran	111	123	P/P	40 - 150
2462667	Diuron	83.3	84.7	P/P	40 - 150
2462667	Fenuron	91.8	91.6	P/P	40 - 150
2462667	Fluridone	90.7	98.5	P/P	40 - 150
2462667	Hydrocodone	98.6	116	P/P	40 - 150
2462667	Ibuprofen	81.1	74.2	P/P	40 - 150
2462667	Imazapyr	99.2	109	P/P	40 - 150
2462667	Imidacloprid	127	133	P/P	40 - 150
2462667	Linuron	84.0	85.1	P/P	40 - 150
2462667	Mandestrobin	99.4	110	P/P	40 - 150
2462667	MCPP	91.9	93.9	P/P	40 - 150
2462667	Naproxen	76.2	73.5	P/P	40 - 150
2462667	Primidone	95.9	106	P/P	40 - 150
2462667	Pyraclostrobin	86.5	99.0	P/P	40 - 150
2462667	Silvex	80.9	84.9	P/P	40 - 150
2462667	Thiamethoxam	121	118	P/P	40 - 150
2462667	Tolfenpyrad	53.1	68.2	P/P	30 - 150
2462667	Triclopyr	90.9	89.8	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464029	3-Hydroxycarbofuran	95.4	79.3	P/P	40 - 150
2464029	Aldicarb	56.2	62.2	P/P	30 - 150
2464029	Aldicarb Sulfone	101	103	P/P	40 - 150
2464029	Aldicarb Sulfoxide	54.6	57.4	P/P	40 - 150
2464029	Carbaryl	92.8	88.6	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P440598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464029	Carbofuran	86.3	84.1	P/P	40 - 150
2464029	Methiocarb	83.9	74.5	P/P	40 - 150
2464029	Methomyl	92.6	92.3	P/P	40 - 150
2464029	Oxamyl	96.3	97.1	P/P	40 - 150
2464029	Propoxur	87.3	80.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P440874

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462866	Fluoride	102	100	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P440712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462951	Organic Carbon	99.3	99.6	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P440785

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463000	Organic Carbon	96.8	99.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P440385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462948	Color (true)	5.48	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P440386

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462998	Color (true)	1.39	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440388

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462842	Turbidity	6.49	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440415

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462861	Calcium	1.27	Spike	P	0 - 20
2462861	Chromium	1.78	Spike	P	0 - 20
2462861	Iron	0.583	Spike	P	0 - 20
2462861	Magnesium	0.0865	Spike	P	0 - 20
2462861	Potassium	0.0949	Spike	P	0 - 20
2462861	Sodium	1.20	Spike	P	0 - 20
2462861	Strontium	0.819	Spike	P	0 - 20
2462861	Tin	0.444	Spike	P	0 - 20
2462861	Titanium	0.400	Spike	P	0 - 20
2462861	Vanadium	0.555	Spike	P	0 - 20
2462861	Zinc	0.382	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440415

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462861	Aluminum	0.308	Spike	P	0 - 20
2462861	Antimony	0.485	Spike	P	0 - 20
2462861	Arsenic	0.984	Spike	P	0 - 20
2462861	Barium	0.626	Spike	P	0 - 20
2462861	Beryllium	1.91	Spike	P	0 - 20
2462861	Boron	3.18	Spike	P	0 - 20
2462861	Cadmium	0.654	Spike	P	0 - 20
2462861	Cobalt	0.114	Spike	P	0 - 20
2462861	Copper	0.261	Spike	P	0 - 20
2462861	Lead	0.218	Spike	P	0 - 20
2462861	Manganese	0.797	Spike	P	0 - 20
2462861	Molybdenum	0.749	Spike	P	0 - 20
2462861	Nickel	0.391	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440415

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462861	Selenium	2.41	Spike	P	0 - 20
2462861	Silver	1.15	Spike	P	0 - 20
2462861	Thallium	0.460	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440677

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462635	Chloride	1.03	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440680

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462635	Sulfate	0.611	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2461495	Ammonia-N	0.650	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462954	Kjeldahl Nitrogen	0.390	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440835

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462927	NO2NO3-N	0.593	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440465

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462951	Total-P	1.28	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440466

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
--------------------------	-----------	-----------	-------------------	-----------	----------------

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440466

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463059	Total-P	0.246	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P440184

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462399	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	14.3	Spike	P	0 - 30
2462399	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	16.5	Spike	P	0 - 35
2462399	Acetochlor	30.0	Spike	F	0 - 28
2462399	Alachlor	13.8	Spike	P	0 - 30
2462399	Ametryn	26.0	Spike	P	0 - 32
2462399	Atrazine	17.5	Spike	P	0 - 33
2462399	Atrazine Desethyl	12.7	Spike	P	0 - 36
2462399	Avobenzone	32.4	Spike	P	0 - 35
2462399	Azinphos Methyl	9.93	Spike	P	0 - 62
2462399	Azoxystrobin	21.1	Spike	P	0 - 39
2462399	Bromacil	29.5	Spike	P	0 - 33
2462399	Butylate	51.6	Spike	F	0 - 51
2462399	Caffeine	13.7	Spike	P	0 - 100
2462399	Carbophenothion	10.9	Spike	P	0 - 34
2462399	Carfentrazone Ethyl	15.2	Spike	P	0 - 33
2462399	Chlorfenapyr	1.54	Spike	P	0 - 28
2462399	Chlorpyrifos Ethyl	17.6	Spike	P	0 - 31
2462399	Chlorpyrifos Methyl	20.1	Spike	P	0 - 27
2462399	Coumaphos	19.7	Spike	P	0 - 62
2462399	Cyanazine	17.8	Spike	P	0 - 48
2462399	Cyprodinil	25.6	Spike	P	0 - 29
2462399	Dechlorane 602	24.4	Spike	P	0 - 60
2462399	Dechlorane 603	28.4	Spike	P	0 - 40
2462399	Dechlorane Plus	21.0	Spike	P	0 - 38
2462399	Demeton	24.2	Spike	P	0 - 33
2462399	Diazinon	15.7	Spike	P	0 - 32
2462399	Difenoconazole	14.7	Spike	P	0 - 71
2462399	Dimethenamid	18.2	Spike	P	0 - 60
2462399	Dimethomorph	23.7	Spike	P	0 - 61
2462399	Disulfoton	26.9	Spike	P	0 - 30
2462399	Dithiopyr	18.6	Spike	P	0 - 28
2462399	EPTC	44.1	Spike	P	0 - 56
2462399	Ethion	16.5	Spike	P	0 - 79
2462399	Ethoprop	24.2	Spike	P	0 - 31
2462399	Etridiazole	37.3	Spike	P	0 - 43
2462399	Fenamiphos	32.9	Spike	P	0 - 43
2462399	Fenbuconazole	2.26	Spike	P	0 - 79
2462399	Fipronil	20.6	Spike	P	0 - 46
2462399	Fipronil Desulfanyl	11.7	Spike	P	0 - 36
2462399	Fipronil Sulfide	17.1	Spike	P	0 - 34
2462399	Fipronil Sulfone	2.69	Spike	P	0 - 47
2462399	Fluazifop-P-butyl	10.2	Spike	P	0 - 38
2462399	Fludioxonil	12.1	Spike	P	0 - 29
2462399	Flumioxazin	11.6	Spike	P	0 - 63

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P440184

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462399	Flutolanil	14.7	Spike	P	0 - 36
2462399	Fluxapyroxad	11.1	Spike	P	0 - 65
2462399	Fonofos	5.43	Spike	P	0 - 35
2462399	Hexabromobenzene	25.0	Spike	P	0 - 41
2462399	Hexazinone	23.2	Spike	P	0 - 31
2462399	Imazalil	10.3	Spike	P	0 - 52
2462399	Iprodione	11.3	Spike	P	0 - 49
2462399	Loratadine	34.5	Spike	P	0 - 59
2462399	Malathion	13.7	Spike	P	0 - 77
2462399	Metalaxyl	29.3	Spike	P	0 - 76
2462399	Metolachlor	11.7	Spike	P	0 - 29
2462399	Metribuzin	22.9	Spike	P	0 - 51
2462399	Mevinphos	21.3	Spike	P	0 - 31
2462399	Molinate	27.0	Spike	P	0 - 39
2462399	Myclobutanil	16.2	Spike	P	0 - 34
2462399	Naled	34.8	Spike	P	0 - 37
2462399	Napropamide	3.65	Spike	P	0 - 100
2462399	Norflurazon	22.8	Spike	P	0 - 54
2462399	Octinoxate	31.7	Spike	P	0 - 35
2462399	Oxadiazon	13.6	Spike	P	0 - 34
2462399	Oxybenzone	40.5	Spike	F	0 - 35
2462399	Oxyfluorfen	17.7	Spike	P	0 - 28
2462399	Parathion Ethyl	45.2	Spike	F	0 - 31
2462399	Parathion Methyl	66.2	Spike	F	0 - 29
2462399	PBB-153	13.6	Spike	P	0 - 49
2462399	PBDE-47	32.8	Spike	P	0 - 36
2462399	PBDE-99	22.2	Spike	P	0 - 46
2462399	Pendimethalin	28.2	Spike	P	0 - 31
2462399	Pentabromotoluene	34.1	Spike	F	0 - 16
2462399	Phenytoin	31.5	Spike	P	0 - 100
2462399	Phorate	19.4	Spike	P	0 - 36
2462399	Prodiamine	16.3	Spike	P	0 - 68
2462399	Prometon	15.8	Spike	P	0 - 35
2462399	Prometryn	19.0	Spike	P	0 - 33
2462399	Pronamide	17.6	Spike	P	0 - 24
2462399	Propanil	19.1	Spike	P	0 - 28
2462399	Propargite	6.61	Spike	P	0 - 53
2462399	Propiconazole	26.2	Spike	P	0 - 44
2462399	Pyraflufen Ethyl	27.1	Spike	P	0 - 61
2462399	Pyridaben	20.4	Spike	P	0 - 43
2462399	Pyriproxyfen	9.87	Spike	P	0 - 82
2462399	Simazine	9.22	Spike	P	0 - 29
2462399	Stirophos	22.9	Spike	P	0 - 100
2462399	Sulfentrazone	13.3	Spike	P	0 - 64
2462399	Tebuconazole	2.64	Spike	P	0 - 76
2462399	Terbufos	23.3	Spike	P	0 - 29
2462399	Terbuthylazine	21.3	Spike	P	0 - 28
2462399	Tetradecachloro-m-terphenyl	46.3	Spike	F	0 - 42
2462399	Thiobencarb	13.6	Spike	P	0 - 26
2462399	Tri-o-cresyl Phosphate	15.5	Spike	P	0 - 24
2462399	Triadimefon	19.0	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P440184

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462399	Tris(1-chloro-2-propyl) phosphate (TCPP)	33.0	Spike	F	0 - 30
2462399	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	36.3	Spike	F	0 - 22
2462399	Tris(2-chloroethyl) phosphate (TCEP)	33.0	Spike	F	0 - 15

Reference Method: EPA 8270E

Batch ID: P440412

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462903	Aldrin	24.6	Spike	P	0 - 41
2462903	Alpha-BHC	8.52	Spike	P	0 - 25
2462903	Alpha-Chlordane	21.6	Spike	P	0 - 32
2462903	Beta-BHC	8.01	Spike	P	0 - 33
2462903	Beta-Cyfluthrin	16.3	Spike	P	0 - 43
2462903	Bifenthrin	4.35	Spike	P	0 - 52
2462903	Chlorothalonil	27.2	Spike	P	0 - 82
2462903	Cis-Nonachlor	4.12	Spike	P	0 - 33
2462903	Cypermethrin	24.0	Spike	P	0 - 51
2462903	Dacthal	26.6	Spike	P	0 - 27
2462903	DDD-p,p'	11.1	Spike	P	0 - 39
2462903	DDE-p,p'	15.8	Spike	P	0 - 31
2462903	DDT-p,p'	16.3	Spike	P	0 - 29
2462903	Delta-BHC	0.472	Spike	P	0 - 35
2462903	Deltamethrin	47.7	Spike	P	0 - 100
2462903	Dichlobenil	3.19	Spike	P	0 - 40
2462903	Dicofol	13.8	Spike	P	0 - 37
2462903	Dieldrin	12.5	Spike	P	0 - 27
2462903	Endosulfan I	27.2	Spike	F	0 - 23
2462903	Endosulfan II	3.05	Spike	P	0 - 34
2462903	Endosulfan Sulfate	12.1	Spike	P	0 - 36
2462903	Endrin	17.6	Spike	P	0 - 45
2462903	Endrin Aldehyde	12.0	Spike	P	0 - 76
2462903	Endrin Ketone	13.6	Spike	P	0 - 43
2462903	Esfenvalerate	13.6	Spike	P	0 - 51
2462903	Ethalfuralin	4.88	Spike	P	0 - 22
2462903	Fenpropathrin	12.6	Spike	P	0 - 49
2462903	Gamma-BHC	6.49	Spike	P	0 - 28
2462903	Gamma-Chlordane	9.46	Spike	P	0 - 40
2462903	Heptachlor	4.49	Spike	P	0 - 29
2462903	Heptachlor Epoxide	39.7	Spike	F	0 - 33
2462903	Hexachlorobenzene	3.36	Spike	P	0 - 36
2462903	Kepone	6.14	Spike	P	0 - 85
2462903	Lambda-Cyhalothrin	22.6	Spike	P	0 - 55
2462903	Methoprene	19.3	Spike	P	0 - 53
2462903	Methoxychlor	4.80	Spike	P	0 - 50
2462903	MGK-264	37.3	Spike	P	0 - 43
2462903	Mirex	2.14	Spike	P	0 - 40
2462903	Oxychlordane	32.3	Spike	F	0 - 31
2462903	Permethrin	10.8	Spike	P	0 - 50
2462903	Phenothrin	16.9	Spike	P	0 - 58
2462903	Piperonyl Butoxide	5.93	Spike	P	0 - 100

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P440412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462903	Prallethrin	30.2	Spike	P	0 - 39
2462903	Tau-Fluvalinate	42.7	Spike	P	0 - 54
2462903	Tetramethrin	1.67	Spike	P	0 - 51
2462903	Trans-Nonachlor	2.80	Spike	P	0 - 39
2462903	Triclosan Methyl	38.6	Spike	F	0 - 31
2462903	Trifluralin	14.5	Spike	P	0 - 22
2463408	PCB-1016	12.3	Spike	P	0 - 25
2463408	PCB-1260	15.3	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P440412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463408	Chlordane	9.84	Spike	P	0 - 28
2463408	Toxaphene	7.56	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P440203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462397	Acesulfame K	0.982	Spike	P	0 - 30
2462397	AMPA	2.02	Spike	P	0 - 30
2462397	Endothall	0.904	Spike	P	0 - 30
2462397	Glufosinate	4.69	Spike	P	0 - 30
2462397	Glyphosate	3.19	Spike	P	0 - 30
2462397	Sucralose	2.71	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P440426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462667	2,4-D	7.56	Spike	P	0 - 30
2462667	2,4,5-T	7.93	Spike	P	0 - 30
2462667	Acetaminophen	23.5	Spike	P	0 - 30
2462667	Acetamiprid	2.41	Spike	P	0 - 30
2462667	Afidopyropen	3.33	Spike	P	0 - 30
2462667	Bentazon	25.4	Spike	P	0 - 30
2462667	Benzovindiflupyr	14.4	Spike	P	0 - 30
2462667	Carbamazepine	6.42	Spike	P	0 - 30
2462667	Clothianidin	6.74	Spike	P	0 - 30
2462667	Dinotefuran	9.81	Spike	P	0 - 30
2462667	Diuron	1.70	Spike	P	0 - 30
2462667	Fenuron	0.218	Spike	P	0 - 30
2462667	Fluridone	8.18	Spike	P	0 - 30
2462667	Hydrocodone	16.3	Spike	P	0 - 30
2462667	Ibuprofen	8.87	Spike	P	0 - 30
2462667	Imazapyr	6.61	Spike	P	0 - 30
2462667	Imidacloprid	3.62	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P440426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462667	Linuron	1.19	Spike	P	0 - 30
2462667	Mandestrobin	10.2	Spike	P	0 - 30
2462667	MCCP	2.08	Spike	P	0 - 30
2462667	Naproxen	2.85	Spike	P	0 - 30
2462667	Primidone	9.77	Spike	P	0 - 30
2462667	Pyraclostrobin	13.5	Spike	P	0 - 30
2462667	Silvex	4.81	Spike	P	0 - 30
2462667	Thiamethoxam	1.88	Spike	P	0 - 30
2462667	Tolfenpyrad	25.1	Spike	P	0 - 30
2462667	Triclopyr	1.27	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P440598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464029	3-Hydroxycarbofuran	18.3	Spike	P	0 - 30
2464029	Aldicarb	10.1	Spike	P	0 - 30
2464029	Aldicarb Sulfone	2.14	Spike	P	0 - 30
2464029	Aldicarb Sulfoxide	4.95	Spike	P	0 - 30
2464029	Carbaryl	4.68	Spike	P	0 - 30
2464029	Carbofuran	2.62	Spike	P	0 - 30
2464029	Methiocarb	11.9	Spike	P	0 - 30
2464029	Methomyl	0.350	Spike	P	0 - 30
2464029	Oxamyl	0.828	Spike	P	0 - 30
2464029	Propoxur	7.79	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P440871

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462866	Total Alkalinity	0.297	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P440826

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462946	TDS	0.851	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P440874

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462866	Fluoride	0.973	Spike	P	0 - 1.9

Quality Assurance Report
Precision

Reference Method: SM 5310 B-2014
Batch ID: P440712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462951	Organic Carbon	0.285	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P440785

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463000	Organic Carbon	2.17	Spike	P	0 - 15

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

Quality Assurance Report

Surrogates

Lab Sample ID: 2463014

Field Sample ID: 20030114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	89.6	P	30 - 160

Lab Sample ID: 2463015

Field Sample ID: 20030114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	86.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	79.0	P	30 - 160
EPA 8321B	Diuron-d6	61.3	P	30 - 160
EPA 8321B	Endothall-d6	105	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.0	P	30 - 160
EPA 8321B	Primidone-d5	88.8	P	30 - 160
EPA 8321B	Sucralose-d6	76.4	P	30 - 160

Lab Sample ID: 2463016

Field Sample ID: 20030114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	80.2	P	37 - 129
EPA 8270E	Decachlorobiphenyl	60.1	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	41.4	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	52.1	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	44.3	P	23 - 110
EPA 8276	PCNB	101	P	51 - 130

Lab Sample ID: 2463017

Field Sample ID: 20030114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	88.1	P	20 - 200
EPA 8270E	Simazine-d10	103	P	58 - 137
EPA 8270E	Terbufos-d10	82.8	P	50 - 134
EPA 8270E	Terphenyl-d14	106	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A123798

Included Lab Sample IDs: 2462996, 2462998, 2462999, 2463002

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A123800

Included Lab Sample IDs: 2462996, 2462998, 2462999, 2463002

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.5	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A123812

Included Lab Sample IDs: 2463015

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	124	113	P/P	60 - 160
Sucralose	101	105	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A123813

Included Lab Sample IDs: 2463015

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	99.6	98.5	P/P	60 - 160
Endothall	103	99.9	P/P	60 - 160
Glufosinate	101	105	P/P	60 - 160
Glyphosate	106	108	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A123873

Included Lab Sample IDs: 2463018, 2463019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.1	97.7	P/P	90 - 110
Antimony	98.6	99.5	P/P	90 - 110
Arsenic	96.3	94.6	P/P	90 - 110
Barium	98.8	97.8	P/P	90 - 110
Beryllium	96.5	93.8	P/P	90 - 110
Boron	99.6	98.0	P/P	90 - 110
Cadmium	96.7	97.4	P/P	90 - 110
Cobalt	93.5	91.9	P/P	90 - 110
Copper	93.0	91.4	P/P	90 - 110
Lead	94.3	92.6	P/P	90 - 110
Manganese	96.4	94.3	P/P	90 - 110
Molybdenum	97.1	95.9	P/P	90 - 110
Nickel	93.8	91.5	P/P	90 - 110
Selenium	98.6	96.1	P/P	90 - 110
Silver	97.1	96.7	P/P	90 - 110
Thallium	97.4	95.6	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A123877
Included Lab Sample IDs: 2462997, 2463000, 2463001

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A123884
Included Lab Sample IDs: 2463003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	98.8	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A123893
Included Lab Sample IDs: 2463016

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	95.0		P	80 - 120
PCB-1260	96.9		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A123903
Included Lab Sample IDs: 2463018, 2463019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	110	110	P/P	90 - 110
Chromium	103	104	P/P	90 - 110
Chromium	104	103	P/P	90 - 110
Magnesium	110	110	P/P	90 - 110
Potassium	104	105	P/P	90 - 110
Potassium	105	104	P/P	90 - 110
Sodium	104	104	P/P	90 - 110
Sodium	104	106	P/P	90 - 110
Strontium	107	107	P/P	90 - 110
Strontium	107	109	P/P	90 - 110
Tin	101	102	P/P	90 - 110
Tin	102	101	P/P	90 - 110
Titanium	104	104	P/P	90 - 110
Titanium	105	104	P/P	90 - 110
Vanadium	104	104	P/P	90 - 110
Vanadium	104	104	P/P	90 - 110
Zinc	105	107	P/P	90 - 110
Zinc	107	105	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A123904
Included Lab Sample IDs: 2463016

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.3		P	80 - 120
Toxaphene	98.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A123908

Included Lab Sample IDs: 2462996, 2462998, 2462999, 2463002

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Chloride	101	101	P/P	90 - 110
Sulfate	101	99.4	P/P	90 - 110
Sulfate	101	101	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A123912

Included Lab Sample IDs: 2463016

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	92.2		P	80 - 120
Alpha-BHC	93.3		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	106		P	80 - 120
Bifenthrin	107		P	80 - 120
Chlorothalonil	98.7		P	80 - 120
Cis-Nonachlor	113		P	80 - 120
Cypermethrin	105		P	80 - 120
Dacthal	92.1		P	80 - 120
DDD-p,p'	113		P	80 - 120
DDE-p,p'	113		P	80 - 120
DDT-p,p'	99.6		P	80 - 120
Delta-BHC	99.5		P	80 - 120
Deltamethrin	95.8		P	80 - 120
Dichlobenil	84.5		P	80 - 120
Dicofol	103		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	95.0		P	80 - 120
Endosulfan II	97.0		P	80 - 120
Endosulfan Sulfate	106		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	93.6		P	80 - 120
Endrin Ketone	106		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	96.0		P	80 - 120
Fenpropathrin	117		P	80 - 120
Gamma-BHC	88.3		P	80 - 120
Gamma-Chlordane	94.1		P	80 - 120
Heptachlor	88.4		P	80 - 120
Heptachlor Epoxide	89.6		P	80 - 120
Hexachlorobenzene	96.4		P	80 - 120
Kepone	107		P	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoprene	95.6		P	80 - 120
Methoxychlor	117		P	80 - 120
MGK-264	100		P	80 - 120
Mirex	95.2		P	80 - 120
Oxychlordane	86.0		P	80 - 120
Permethrin	104		P	80 - 120
Phenothrin	95.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123912
Included Lab Sample IDs: 2463016

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Piperonyl Butoxide	115		P	80 - 120
Prallethrin	102		P	80 - 120
Tau-Fluvalinate	106		P	80 - 120
Tetramethrin	94.2		P	80 - 120
Trans-Nonachlor	93.5		P	80 - 120
Triclosan Methyl	87.7		P	80 - 120
Trifluralin	108		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123914
Included Lab Sample IDs: 2463017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	96.6		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.0		P	80 - 120
Avobenzone	104		P	80 - 120
Dechlorane 602	103		P	80 - 120
Dechlorane 603	97.4		P	80 - 120
Dechlorane Plus	98.5		P	80 - 120
Hexabromobenzene	94.7		P	80 - 120
Octinoxate	106		P	80 - 120
Oxybenzone	109		P	80 - 120
PBB-153	97.8		P	80 - 120
PBDE-47	104		P	80 - 120
PBDE-99	102		P	80 - 120
Pentabromotoluene	102		P	80 - 120
Tetradecachloro-m-terphenyl	90.7		P	80 - 120
Tri-o-cresyl Phosphate	116		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	108		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	107		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	110		P	80 - 120

Reference Method: SM 5310 B-2014
Run ID: A123916
Included Lab Sample IDs: 2462997

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	121	P/P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A123937
Included Lab Sample IDs: 2463018, 2463019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	104	P/P	95 - 105
Iron	104	105	P/P	95 - 105
Magnesium	104	105	P/P	95 - 105

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2014

Run ID: A123942

Included Lab Sample IDs: 2463000, 2463001, 2463003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	97.0	P/P	85 - 115

Reference Method: EPA 8321B

Run ID: A123947

Included Lab Sample IDs: 2463015

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	116	105	P/P	50 - 150
2,4,5-T	93.8	76.5	P/P	50 - 150
3-Hydroxycarbofuran	105	108	P/P	60 - 150
Acetaminophen	108	108	P/P	60 - 160
Acetamiprid	113	114	P/P	50 - 150
Afidopyropen	125	107	P/P	50 - 150
Aldicarb	113	102	P/P	60 - 150
Aldicarb Sulfone	108	109	P/P	50 - 150
Aldicarb Sulfoxide	106	111	P/P	50 - 150
Bentazon	103	100	P/P	50 - 160
Benzovindiflupyr	104	109	P/P	50 - 150
Carbamazepine	111	109	P/P	60 - 150
Carbaryl	108	105	P/P	60 - 150
Carbofuran	114	116	P/P	50 - 150
Clothianidin	105	109	P/P	60 - 150
Dinotefuran	105	117	P/P	50 - 150
Diuron	111	109	P/P	60 - 160
Fenuron	109	109	P/P	60 - 150
Fluridone	109	124	P/P	60 - 160
Hydrocodone	120	126	P/P	60 - 150
Ibuprofen	79.1	104	P/P	50 - 160
Imazapyr	84.3	77.5	P/P	50 - 150
Imidacloprid	99.3	101	P/P	60 - 150
Linuron	102	103	P/P	60 - 150
Mandestrobin	113	115	P/P	50 - 150
MCPP	93.0	86.5	P/P	50 - 150
Methiocarb	103	105	P/P	50 - 150
Methomyl	110	107	P/P	50 - 150
Naproxen	123	66.4	P/P	50 - 160
Oxamyl	106	114	P/P	50 - 150
Primidone	102	99.6	P/P	60 - 150
Propoxur	116	111	P/P	50 - 150
Pyraclostrobin	115	112	P/P	60 - 150
Silvex	103	79.5	P/P	50 - 150
Thiamethoxam	113	114	P/P	50 - 150
Tolfenpyrad	109	108	P/P	60 - 150
Triclopyr	89.9	91.5	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A123952

Included Lab Sample IDs: 2462997, 2463000, 2463001, 2463003

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A123952

Included Lab Sample IDs: 2462997, 2463000, 2463001, 2463003

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A123956

Included Lab Sample IDs: 2462997, 2463000, 2463001, 2463003

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

Reference Method: SM 2320 B-2011

Run ID: A123977

Included Lab Sample IDs: 2462996, 2462998, 2462999, 2463002

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.1	94.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A123977

Included Lab Sample IDs: 2462996, 2462998, 2462999, 2463002

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124001

Included Lab Sample IDs: 2462997, 2463000, 2463001, 2463003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.8	91.4	P/P	90 - 110
Kjeldahl Nitrogen	96.3	93.8	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A124003

Included Lab Sample IDs: 2463017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.5		P	80 - 120
Alachlor	91.2		P	80 - 120
Ametryn	107		P	80 - 120
Atrazine	89.8		P	80 - 120
Atrazine Desethyl	99.8		P	80 - 120
Azinphos Methyl	71.4*		F	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	96.1		P	80 - 120
Caffeine	96.1		P	80 - 120
Carbophenothion	98.2		P	80 - 120
Carfentrazone Ethyl	102		P	80 - 120
Chlorfenapyr	80.4		P	80 - 120
Chlorpyrifos Ethyl	88.1		P	80 - 120
Chlorpyrifos Methyl	95.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124003
Included Lab Sample IDs: 2463017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Coumaphos	136*		F	80 - 120
Cyanazine	80.5		P	80 - 120
Cyprodinil	116		P	80 - 120
Demeton	98.1		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	115		P	80 - 120
Dimethenamid	94.8		P	80 - 120
Dimethomorph	97.0		P	80 - 120
Disulfoton	97.0		P	80 - 120
Dithiopyr	112		P	80 - 120
EPTC	102		P	80 - 120
Ethion	92.2		P	80 - 120
Ethoprop	94.8		P	80 - 120
Etridiazole	99.5		P	80 - 120
Fenamiphos	94.5		P	80 - 120
Fenbuconazole	83.4		P	80 - 120
Fipronil	113		P	80 - 120
Fipronil Desulfinyl	93.5		P	80 - 120
Fipronil Sulfide	99.5		P	80 - 120
Fipronil Sulfone	105		P	80 - 120
Fluazifop-P-butyl	135*		F	80 - 120
Fludioxonil	100		P	80 - 120
Flumioxazin	105		P	80 - 120
Flutolanil	98.8		P	80 - 120
Fluxapyroxad	111		P	80 - 120
Fonofos	93.5		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	105		P	80 - 120
Iprodione	109		P	80 - 120
Loratadine	84.0		P	80 - 120
Malathion	85.6		P	80 - 120
Metaxyl	88.1		P	80 - 120
Metolachlor	98.8		P	80 - 120
Metribuzin	105		P	80 - 120
Mevinphos	95.9		P	80 - 120
Molinate	87.7		P	80 - 120
Myclobutanil	87.3		P	80 - 120
Naled	118		P	80 - 120
Napropamide	95.2		P	80 - 120
Norflurazon	98.8		P	80 - 120
Oxadiazon	99.1		P	80 - 120
Oxyfluorfen	109		P	80 - 120
Parathion Ethyl	95.9		P	80 - 120
Parathion Methyl	82.3		P	80 - 120
Pendimethalin	88.4		P	80 - 120
Phenytoin	105		P	80 - 120
Phorate	94.7		P	80 - 120
Prodiamine	104		P	80 - 120
Prometon	105		P	80 - 120
Prometryn	99.0		P	80 - 120
Pronamide	97.2		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A124003
Included Lab Sample IDs: 2463017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propanil	91.8		P	80 - 120
Propargite	105		P	80 - 120
Propiconazole	86.5		P	80 - 120
Pyraflufen Ethyl	110		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	97.8		P	80 - 120
Simazine	84.9		P	80 - 120
Stirophos	94.0		P	80 - 120
Sulfentrazone	104		P	80 - 120
Tebuconazole	99.1		P	80 - 120
Terbufos	98.2		P	80 - 120
Terbuthylazine	94.1		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	93.9		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	101				5.48	
	Color (true)	101				1.39	
EPA 180.1 Rev. 2.0	Turbidity	104				6.49	
EPA 200.7 Rev. 4.4	Calcium	112	109	110			1.27
	Chromium	102	101	99.1	99.4		1.78
	Iron	112	116	113			0.583
	Magnesium	112	114	112			0.0865
	Potassium	106	108	108	105		0.0949
	Sodium	107	107	109			1.20
	Strontium	107	106	107	105		0.819
	Tin	99.7	92.5	92.9	94.9		0.444
	Titanium	104	102	102	97.7		0.400
	Vanadium	103	101	102	101		0.555
	Zinc	101	97.1	97.5	99.7		0.382
EPA 200.8 Rev. 5.4	Aluminum	98.9	98.7	99.0	97.8		0.308
	Antimony	99.2	102	101	99.3		0.485
	Arsenic	99.8	101	100	95.8		0.984
	Barium	100	101	100	99.5		0.626
	Beryllium	95.7	97.1	95.3	90.5		1.91
	Boron	99.8	101	105	103		3.18
	Cadmium	98.4	101	101	98.9		0.654
	Cobalt	95.8	95.3	95.2	93.3		0.114
	Copper	95.6	93.1	92.9	91.2		0.261
	Lead	94.7	96.1	96.3	93.8		0.218
	Manganese	96.2	98.1	99.0	97.1		0.797
	Molybdenum	97.7	102	101	98.1		0.749
	Nickel	108	95.4	95.8	91.2		0.391
	Selenium	101	103	100	99.6		2.41
	Silver	96.2	94.8	93.7	94.1		1.15
	Thallium	96.5	103	102	96.8		0.460
EPA 300.0 Rev. 2.1	Chloride	102	101	104		1.03	
	Sulfate	102	99.1	104		0.611	
EPA 350.1 Rev. 2.0	Ammonia-N	98.0	94.4	93.6			0.650
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.5	104	104			0.390
EPA 353.2 Rev. 2.0	NO2NO3-N	101	97.0	98.0			0.593
EPA 365.1 Rev. 2.0	Total-P	103	104	103			1.28
	Total-P	102	103	103			0.246
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntyphenol (UV-328)	80.3	72.5	62.9			14.3
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	102	75.4	88.9			16.5
	Acetochlor	109	73.2	99.0			30.0
	Alachlor	111	76.8	88.2			13.8
	Aldrin	64.4	72.7	56.8			24.6
	Alpha-BHC	81.4	65.0	70.8			8.52
	Alpha-Chlordane	103	118	76.1			21.6
	Ametryn	146	101	131			26.0
	Atrazine	105	71.0	84.6			17.5
	Atrazine Desethyl	112	109	123			12.7
	Avobenzone	124	84.7	117			32.4
	Azinphos Methyl	146	101	112			9.93
	Azoxystrobin	150	92.0	114			21.1
	Beta-BHC	96.5	116	107			8.01

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Beta-Cyfluthrin	108	106	90.1			16.3
	Bifenthrin	37.3	48.8	46.7			4.35
	Bromacil	122	85.9	116			29.5
	Butylate	62.1	32.7	55.4			51.6
	Caffeine	117	121	141			13.7
	Carbophenothion	127	95.6	107			10.9
	Carfentrazone Ethyl	141	103	120			15.2
	Chlorfenapyr	100	68.1	67.0			1.54
	Chlorothalonil	102	43.1	56.6			27.2
	Chlorpyrifos Ethyl	111	74.2	88.6			17.6
	Chlorpyrifos Methyl	117	78.8	96.3			20.1
	Cis-Nonachlor	57.0	69.5	72.4			4.12
	Coumaphos	172	136	112			19.7
	Cyanazine	224	161	192			17.8
	Cypermethrin	58.2	74.4	58.5			24.0
	Cyprodinil	114	78.6	102			25.6
	Dacthal	95.5	73.3	95.8			26.6
	DDD-p,p'	57.7	65.0	58.2			11.1
	DDE-p,p'	57.7	83.2	71.0			15.8
	DDT-p,p'	71.4	62.7	73.9			16.3
	Dechlorane 602	64.9	57.1	72.9			24.4
	Dechlorane 603	102	72.5	96.5			28.4
	Dechlorane Plus	105	74.6	92.1			21.0
	Delta-BHC	71.7	67.6	67.3			0.472
	Deltamethrin	125	80.9	132			47.7
	Demeton	87.0	60.6	77.4			24.2
	Diazinon	120	80.8	94.6			15.7
	Dichlobenil	90.0	52.1	54.0			3.19
	Dicofol	72.7	63.8	73.3			13.8
	Dieldrin	85.1	126	109			12.5
	Difenoconazole	170	122	141			14.7
	Dimethenamid	95.5	72.1	86.6			18.2
	Dimethomorph	298	204	259			23.7
	Disulfoton	125	83.3	109			26.9
	Dithiopyr	114	82.4	99.3			18.6
	Endosulfan I	88.0	109	83.3			27.2
	Endosulfan II	86.2	99.8	96.8			3.05
	Endosulfan Sulfate	127	119	134			12.1
	Endrin	94.5	81.4	97.1			17.6
	Endrin Aldehyde	93.1	82.9	73.5			12.0
	Endrin Ketone	101	89.7	103			13.6
	EPTC	52.3	31.0	48.5			44.1
	Esfenvalerate	103	96.4	110			13.6
	Ethalfuralin	91.6	82.3	86.4			4.88
	Ethion	39.1	47.2	55.7			16.5
	Ethoprop	109	80.7	103			24.2
	Etridiazole	70.8	44.4	64.7			37.3
	Fenamiphos	98.5	75.3	105			32.9
	Fenbuconazole	119	87.3	85.4			2.26
	Fenpropathrin	41.9	54.0	47.6			12.6
	Fipronil	129	74.2	91.2			20.6
	Fipronil Desulfinyl	111	91.4	103			11.7
	Fipronil Sulfide	106	67.1	79.6			17.1
	Fipronil Sulfone	109	89.6	92.0			2.69

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Fluazifop-P-butyl	117	107	118			10.2
	Fludioxonil	106	79.8	90.0			12.1
	Flumioxazin	201	157	176			11.6
	Flutolanil	134	91.0	105			14.7
	Fluxapyroxad	92.6	81.9	91.6			11.1
	Fonofos	112	73.5	77.6			5.43
	Gamma-BHC	80.4	88.2	82.6			6.49
	Gamma-Chlordane	62.5	106	94.0			9.46
	Heptachlor	47.6	49.7	52.0			4.49
	Heptachlor Epoxide	101	125	77.8			39.7
	Hexabromobenzene	98.4	74.2	95.4			25.0
	Hexachlorobenzene	48.8	45.8	47.4			3.36
	Hexazinone	106	74.0	93.4			23.2
	Imazalil	129	124	138			10.3
	Iprodione	175	137	153			11.3
	Kepone	129	101	94.6			6.14
	Lambda-Cyhalothrin	67.9	48.7	61.2			22.6
	Loratadine	270	144	204			34.5
	Malathion	124	88.2	101			13.7
	Metalaxyl	95.6	67.6	90.7			29.3
	Methoprene	38.5	61.3	50.5			19.3
	Methoxychlor	64.7	72.0	68.7			4.80
	Metolachlor	101	72.8	81.9			11.7
	Metribuzin	126	82.7	104			22.9
	Mevinphos	97.0	73.4	90.9			21.3
	MGK-264	129	137	93.9			37.3
	Mirex	36.8	45.7	44.7			2.14
	Molinate	66.5	43.2	56.7			27.0
	Myclobutanil	109	83.3	98.0			16.2
	Naled	54.1	37.9	53.8			34.8
	Napropamide	65.3	74.2	76.9			3.65
	Norflurazon	113	89.3	71.0			22.8
	Octinoxate	101	73.8	102			31.7
	Oxadiazon	95.3	64.1	73.4			13.6
	Oxybenzone	99.3	79.2	119			40.5
	Oxychlordane	83.4	114	82.0			32.3
	Oxyfluorfen	120	96.5	115			17.7
	Parathion Ethyl	107	66.2	105			45.2
	Parathion Methyl	111	61.0	121			66.2
	PBB-153	105	74.7	85.6			13.6
	PBDE-47	85.8	67.0	93.3			32.8
	PBDE-99	90.1	68.6	85.7			22.2
	PCB-1016	73.3	71.6	63.3			12.3
	PCB-1260	77.4	77.6	66.6			15.3
	Pendimethalin	94.7	79.7	106			28.2
	Pentabromotoluene	89.8	68.0	95.9			34.1
	Permethrin	97.2	83.3	92.8			10.8
	Phenothrin	71.1	88.0	74.3			16.9
	Phenytain	33.8	32.7	45.0			31.5
	Phorate	104	73.2	88.9			19.4
	Piperonyl Butoxide	105	114	108			5.93
	Prallethrin	110	108	79.3			30.2
	Prodimamine	42.7	47.1	55.5			16.3
	Prometon	105	89.9	105			15.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Prometryn	126	94.3	114			19.0
	Pronamide	119	91.3	109			17.6
	Propanil	124	92.3	112			19.1
	Propargite	71.0	69.1	73.8			6.61
	Propiconazole	87.0	65.6	50.4			26.2
	Pyraflufen Ethyl	125	78.1	59.5			27.1
	Pyridaben	164	133	163			20.4
	Pyriproxyfen	93.7	75.4	83.3			9.87
	Simazine	108	73.8	81.0			9.22
	Stirophos	70.9	73.5	58.4			22.9
	Sulfentrazone	118	82.5	94.3			13.3
	Tau-Fluvalinate	51.9	47.9	74.0			42.7
	Tebuconazole	51.2	48.6	49.9			2.64
	Terbufos	115	94.2	74.5			23.3
	Terbutylazine	105	88.6	71.6			21.3
	Tetradecachloro-m-terphenyl	147	130	81.2			46.3
	Tetramethrin	103	82.2	80.8			1.67
	Thiobencarb	111	95.8	83.5			13.6
	Trans-Nonachlor	78.6	107	111			2.80
	Tri-o-cresyl Phosphate	88.6	59.7	51.1			15.5
	Triadimefon	101	89.5	73.9			19.0
	Triclosan Methyl	94.2	135	91.2			38.6
	Trifluralin	92.1	75.0	86.7			14.5
	Tris(1-chloro-2-propyl) phosphate (TCPP)	107	80.1	112			33.0
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	105	103	71.4			36.3
	Tris(2-chloroethyl) phosphate (TCEP)	119	94.7	132			33.0
EPA 8276	Chlordane	101	94.0	85.2			9.84
	Toxaphene	110	94.5	87.6			7.56
EPA 8321B	2,4-D	123					7.56
	2,4,5-T	105	91.9	84.9			7.93
	3-Hydroxycarbofuran	93.4	95.4	79.3			18.3
	Acesulfame K	106	105	106			0.982
	Acetaminophen	92.3					23.5
	Acetamiprid	95.2	96.3	98.7			2.41
	Afidopyropen	75.3	94.4	97.6			3.33
	Aldicarb	70.7	56.2	62.2			10.1
	Aldicarb Sulfone	107	101	103			2.14
	Aldicarb Sulfoxide	130	54.6	57.4			4.95
	AMPA	101	106	108			2.02
	Bentazon	96.0					25.4
	Benzovindiflupyr	92.6	91.4	106			14.4
	Carbamazepine	87.5	87.7	93.5			6.42
	Carbaryl	99.3	92.8	88.6			4.68
	Carbofuran	92.4	86.3	84.1			2.62
	Clothianidin	99.1	119	111			6.74
	Dinotefuran	108	123	111			9.81
	Diuron	86.0	83.3	84.7			1.70
	Endothall	101	107	108			0.904
	Fenuron	100	91.6	91.8			0.218
	Fluridone	96.7	90.7	98.5			8.18
	Glufosinate	99.5	104	109			4.69

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Glyphosate	99.2	104	101		3.19
	Hydrocodone	115	116	98.6		16.3
	Ibuprofen	79.1	81.1	74.2		8.87
	Imazapyr	97.1	99.2	109		6.61
	Imidacloprid	97.0	133	127		3.62
	Linuron	81.4	84.0	85.1		1.19
	Mandestrobin	95.6	99.4	110		10.2
	MCPP	97.9	91.9	93.9		2.08
	Methiocarb	78.8	83.9	74.5		11.9
	Methomyl	102	92.6	92.3		0.350
	Naproxen	72.6	76.2	73.5		2.85
	Oxamyl	101	96.3	97.1		0.828
	Primidone	90.6	106	95.9		9.77
	Propoxur	91.5	87.3	80.8		7.79
	Pyraclostrobin	93.9	86.5	99.0		13.5
	Silvex	92.1	80.9	84.9		4.81
	Sucralose	106	96.9	99.6		2.71
	Thiamethoxam	108	118	121		1.88
	Tolfenpyrad	61.8	53.1	68.2		25.1
	Triclopyr	116	90.9	89.8		1.27
SM 2320 B-2011	Total Alkalinity	97.0				0.297
SM 2540 C-2015	TDS	96.4				0.851
SM 2540 D-2015	TSS	97.6				
SM 4500-F- C-2011	Fluoride	98.8	102	100		0.973
SM 5310 B-2014	Organic Carbon	99.6	99.3	99.6		0.285
	Organic Carbon	98.1	96.8	99.8		2.17

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2462996, 2462998, 2462999, 2463002
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2462996, 2462998, 2462999, 2463002
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2463018, 2463019
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2463018, 2463019
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2462996, 2462998, 2462999, 2463002
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2462996, 2462998, 2462999, 2463002
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2462997, 2463000, 2463001, 2463003
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2462997, 2463000, 2463001, 2463003
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2462997, 2463000, 2463001, 2463003
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2462997, 2463000, 2463001, 2463003
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2463017
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2463016
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2463017
EPA 8270E	PCBs in water matrices by GC/MS/MS	2463016
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2463016
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2463014
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2463015
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2462996, 2462998, 2462999, 2463002
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2463018, 2463019
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2462996, 2462998, 2462999, 2463002

Reference Method Descriptions

Method	Description	Associated Samples
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2462996, 2462998, 2462999, 2463002
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2462996, 2462998, 2462999, 2463002
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2462997, 2463000, 2463001, 2463003

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	01/24/2024			01/24/2024 14:38	Samantha L Bates	2462996, 2462999
	01/24/2024			01/24/2024 14:44	Samantha L Bates	2462998
	01/24/2024			01/24/2024 14:48	Samantha L Bates	2463002
EPA 180.1 Rev. 2.0	01/24/2024			01/24/2024 12:15	Dipa Joshi	2462996
	01/24/2024			01/24/2024 12:16	Dipa Joshi	2462998
	01/24/2024			01/24/2024 12:18	Dipa Joshi	2462999
EPA 200.7 Rev. 4.4	01/24/2024			01/24/2024 12:19	Dipa Joshi	2463002
	01/24/2024	01/25/2024 10:45	George D Taylor	01/29/2024 18:18	Chase Roberts	2463018
	01/24/2024	01/25/2024 10:45	George D Taylor	01/29/2024 18:58	Chase Roberts	2463019
EPA 200.8 Rev. 5.4	01/24/2024	01/25/2024 10:45	George D Taylor	01/31/2024 13:04	Chase Roberts	2463018
	01/24/2024	01/25/2024 10:45	George D Taylor	01/31/2024 13:17	Chase Roberts	2463019
	01/24/2024	01/25/2024 10:45	George D Taylor	01/26/2024 17:36	Conrad Hartmann	2463018
EPA 300.0 Rev. 2.1	01/24/2024	01/25/2024 10:45	George D Taylor	01/26/2024 17:45	Conrad Hartmann	2463019
	01/24/2024			01/30/2024 07:24	James L Waggeberby	2462996
	01/24/2024			01/30/2024 08:10	James L Waggeberby	2462998
EPA 350.1 Rev. 2.0	01/24/2024			01/30/2024 08:25	James L Waggeberby	2462999
	01/24/2024			01/30/2024 08:39	James L Waggeberby	2463002
	01/24/2024			02/01/2024 12:28	Khloe J Berg	2463001
EPA 351.2 Rev. 2.0	01/24/2024			02/01/2024 12:29	Khloe J Berg	2463003
	01/24/2024			02/01/2024 14:35	Khloe J Berg	2462997
	01/24/2024			02/01/2024 14:36	Khloe J Berg	2463000
EPA 353.2 Rev. 2.0	01/24/2024	02/01/2024 15:35	Samantha L Bates	02/05/2024 11:45	Samantha L Bates	2462997
	01/24/2024	02/01/2024 15:35	Samantha L Bates	02/05/2024 11:50	Samantha L Bates	2463000
	01/24/2024	02/01/2024 15:35	Samantha L Bates	02/05/2024 11:51	Samantha L Bates	2463001
EPA 365.1 Rev. 2.0	01/24/2024	02/01/2024 15:35	Samantha L Bates	02/05/2024 11:53	Samantha L Bates	2463003
	01/24/2024			01/31/2024 13:55	Fadila Guebre	2462997
	01/24/2024			01/31/2024 13:57	Fadila Guebre	2463000
EPA 8270E	01/24/2024			01/31/2024 13:58	Fadila Guebre	2463001
	01/24/2024			01/31/2024 13:59	Fadila Guebre	2463003
	01/24/2024	01/26/2024 13:30	Simonne.V. Calhoun	01/29/2024 11:10	Chandler E Cox	2462997
EPA 8276	01/24/2024	01/26/2024 13:30	Simonne.V. Calhoun	01/29/2024 11:11	Chandler E Cox	2463000
	01/24/2024	01/26/2024 13:30	Simonne.V. Calhoun	01/29/2024 11:18	Chandler E Cox	2463001
	01/24/2024	01/26/2024 13:30	Simonne.V. Calhoun	01/29/2024 15:17	Chandler E Cox	2463003
EPA 8321B	01/24/2024	01/25/2024 08:00	Rasheda Ghaffari	01/30/2024 20:12	Arthur Maknenko	2463017
	01/24/2024	01/25/2024 08:00	Rasheda Ghaffari	02/01/2024 21:33	Vandana T. Nagar	2463017
	01/24/2024	01/26/2024 08:00	Fe-Val Siddell	01/30/2024 01:56	Lipi Saha	2463016
EPA 8276	01/24/2024	01/26/2024 08:00	Fe-Val Siddell	01/30/2024 20:21	Julie Wi	2463016
	01/24/2024	01/26/2024 08:00	Fe-Val Siddell	01/30/2024 18:04	Arthur Maknenko	2463016
	01/24/2024	01/24/2024 13:00	Samatha Luckman	01/24/2024 20:38	Samatha Luckman	2463015
EPA 8321B	01/24/2024	01/24/2024 13:00	Samatha Luckman	01/25/2024 00:37	Samatha Luckman	2463015
	01/24/2024	01/24/2024 13:00	Samatha Luckman	01/25/2024 00:37	Samatha Luckman	2463015

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	01/24/2024	01/29/2024 08:45	Hoor Shaik	02/01/2024 01:01	Juyoung Kim	2463015
	01/24/2024	01/29/2024 08:45	Hoor Shaik	02/01/2024 11:56	Juyoung Kim	2463015
	01/24/2024	01/30/2024 09:00	Hoor Shaik	01/31/2024 21:10	Juyoung Kim	2463014
SM 2320 B-2011	01/24/2024			01/31/2024 21:38	Dale L. Simmons	2462996
	01/24/2024			01/31/2024 21:50	Dale L. Simmons	2462998
	01/24/2024			01/31/2024 22:02	Dale L. Simmons	2462999
	01/24/2024			01/31/2024 22:15	Dale L. Simmons	2463002
SM 2340 B-2011	01/24/2024			01/29/2024 18:18	Chase Roberts	2463018
	01/24/2024			01/31/2024 13:17	Chase Roberts	2463019
	01/24/2024			01/26/2024 15:06	Yijie Li	2462996, 2462998, 2462999, 2463002
SM 2540 C-2015	01/24/2024			01/26/2024 15:06	Yijie Li	2462996, 2462998, 2462999, 2463002
SM 4500-F- C-2011	01/24/2024			01/31/2024 21:38	Dale L. Simmons	2462996
	01/24/2024			01/31/2024 21:50	Dale L. Simmons	2462998
	01/24/2024			01/31/2024 22:02	Dale L. Simmons	2462999
	01/24/2024			01/31/2024 22:15	Dale L. Simmons	2463002
SM 5310 B-2014	01/24/2024			01/30/2024 08:36	Khloe J Berg	2462997
	01/24/2024			01/31/2024 21:29	Khloe J Berg	2463000
	01/24/2024			01/31/2024 22:15	Khloe J Berg	2463001
	01/24/2024			01/31/2024 22:30	Khloe J Berg	2463003