

Chemical Analysis Report

SE-DIST-2024-03-15-02

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

Event Description: **SMP - Palm Beach/Broward (w nut Blank)**
Request ID: **RQ-2024-03-11-36**
Customer: **SE-DIST**
Project ID: **SMP**

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

Date Certified: 09-APR-2024 09:04



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.

EPA 200.8 Rev. 5.4: The copper result was confirmed in the undigested sample on 03/20/2024.

Sample Location: ICWW SOUTH OF HILLSBORO BLVD

Collection Date/Time: 03/14/2024 12:40

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476010	DEP SOP: NU-094-1	Color (true)	31	A	PCU	P442888	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P442883	
	EPA 300.0 Rev. 2.1	Chloride	8.8E+03		mg Cl/L	P443377	
		Sulfate	1.3E+03		mg SO4/L	P443380	
	SM 2320 B-2011	Total Alkalinity	128		mg CaCO3/L	P443078	
	SM 2540 C-2015	TDS	1.45E+04		mg/L	P443310	
	SM 2540 D-2015	TSS	6	IA	mg/L	P443258	
	SM 4500-F- C-2011	Fluoride	0.59		mg F/L	P443081	
2476011	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P443204	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.61		mg N/L	P443090	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.041		mg N/L	P443143	
	EPA 365.1 Rev. 2.0	Total-P	0.031		mg P/L	P443107	
	SM 5310 B-2014	Organic Carbon	10		mg C/L	P443564	
2476026	EPA 8270E	Aldrin	0.67	U	ng/L	P443008	
		Alpha-BHC	0.10	U	ng/L	P443008	
		Alpha-Chlordane	0.21	U	ng/L	P443008	
		PCB-1016	2.1	U	ng/L	P443008	
		Beta-BHC	0.10	U	ng/L	P443008	
		PCB-1221	2.1	U	ng/L	P443008	
		Beta-Cyfluthrin	1.3	U	ng/L	P443008	
		PCB-1232	2.1	U	ng/L	P443008	
		Bifenthrin	0.51	U	ng/L	P443008	
		PCB-1242	2.1	U	ng/L	P443008	
		PCB-1248	2.1	U	ng/L	P443008	
		Chlorothalonil	3.7	U	ng/L	P443008	
		PCB-1254	2.1	U	ng/L	P443008	
		Cis-Nonachlor	0.21	U	ng/L	P443008	
		PCB-1260	2.1	U	ng/L	P443008	
		Cypermethrin	1.5	U	ng/L	P443008	
		Dacthal	0.15	U	ng/L	P443008	
		DDD-p,p'	0.26	U	ng/L	P443008	
		DDE-p,p'	0.21	U	ng/L	P443008	
		DDT-p,p'	0.82	U	ng/L	P443008	
		Delta-BHC	0.41	U	ng/L	P443008	
		Deltamethrin	1.3	U	ng/L	P443008	
		Dichlobenil	0.26	U	ng/L	P443008	
		Dicofol	1.3	U	ng/L	P443008	
		Diieldrin	0.41	U	ng/L	P443008	
		Endosulfan I	0.41	U	ng/L	P443008	
		Endosulfan II	0.93	U	ng/L	P443008	
		Endosulfan Sulfate	0.31	U	ng/L	P443008	
		Endrin	0.93	U	ng/L	P443008	
		Endrin Aldehyde	0.77	U	ng/L	P443008	
		Endrin Ketone	0.41	U	ng/L	P443008	

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476026	EPA 8270E	Esfenvalerate	0.77	U	ng/L	P443008	CCV
		Ethalfuralin	0.15	U	ng/L	P443008	
		Fenpropathrin	0.26	U	ng/L	P443008	
		Gamma-BHC	0.13	U	ng/L	P443008	
		Gamma-Chlordane	0.21	U	ng/L	P443008	
		Heptachlor	0.21	U	ng/L	P443008	
		Heptachlor Epoxide	0.26	U	ng/L	P443008	
		Hexachlorobenzene**	1.0	U	ng/L	P443008	
		Kepone	14	UJ	ng/L	P443008	
		Lambda-Cyhalothrin	0.77	U	ng/L	P443008	
		Methoprene	0.77	U	ng/L	P443008	
		Methoxychlor	0.31	U	ng/L	P443008	
		MGK-264	0.21	U	ng/L	P443008	
		Mirex	0.36	U	ng/L	P443008	
		Oxychlordane	0.31	U	ng/L	P443008	
		Permethrin	1.6	U	ng/L	P443008	
		Phenothrin	0.93	U	ng/L	P443008	
		Piperonyl Butoxide	0.64	I	ng/L	P443008	
		Prallethrin	2.1	U	ng/L	P443008	
		Tau-Fluvalinate	0.26	U	ng/L	P443008	
		Tetramethrin	0.77	U	ng/L	P443008	
		Trans-Nonachlor	0.21	U	ng/L	P443008	
		Triclosan Methyl	0.15	U	ng/L	P443008	
		Trifluralin	0.21	U	ng/L	P443008	
	EPA 8276	Chlordane	2.1	U	ng/L	P443008	
		Toxaphene	15	U	ng/L	P443008	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: E 1 WEST AT GLADES

Collection Date/Time: 03/14/2024 13:15

Field ID: G3SE0033

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476006	DEP SOP: NU-094-1	Color (true)	31	A	PCU	P442887	
	EPA 180.1 Rev. 2.0	Turbidity	3.6		NTU	P442883	
	EPA 300.0 Rev. 2.1	Chloride	30		mg Cl/L	P443377	
		Sulfate	30		mg SO4/L	P443380	
	SM 2320 B-2011	Total Alkalinity	156		mg CaCO3/L	P443077	
	SM 2540 C-2015	TDS	274	A	mg/L	P443310	
	SM 2540 D-2015	TSS	7	IA	mg/L	P443257	
2476007	SM 4500-F- C-2011	Fluoride	0.23		mg F/L	P443080	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P443128	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P442911	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P443030	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P443138	
2476027	SM 5310 B-2014	Organic Carbon	9.8		mg C/L	P443085	
	EPA 200.7 Rev. 4.4	Calcium	72.7		mg/L	P442939	
		Iron	30	U	ug/L	P442939	
		Magnesium	4.40		mg/L	P442939	
		Potassium	6.5		mg/L	P442939	
		Sodium	19.5		mg/L	P442939	
		Strontium	630		ug/L	P442939	
		Tin	3.0	U	ug/L	P442939	
		Titanium	0.75	U	ug/L	P442939	
		Vanadium	2.1	I	ug/L	P442939	
		Zinc	5.0	U	ug/L	P442939	
	EPA 200.8 Rev. 5.4	Aluminum	22		ug/L	P442939	
		Antimony	0.25		ug/L	P442939	
		Arsenic	1.48		ug/L	P442939	
		Barium	16.0		ug/L	P442939	
		Beryllium	0.010	U	ug/L	P442939	
		Boron	50.6		ug/L	P442939	
		Cadmium	0.020	U	ug/L	P442939	
		Chromium	0.43	I	ug/L	P442939	
		Cobalt	0.048	I	ug/L	P442939	
		Copper	2.55		ug/L	P442939	
		Lead	0.20	U	ug/L	P442939	
		Manganese	13.5		ug/L	P442939	
		Molybdenum	1.05		ug/L	P442939	
		Nickel	0.50	U	ug/L	P442939	
		Selenium	0.20	U	ug/L	P442939	
		Silver	0.010	U	ug/L	P442939	
		Thallium	0.10	U	ug/L	P442939	
	SM 2340 B-2011	Hardness	200		mg/L	P442939	

Ref. Method and Comment:

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

SM 5310 B-2014: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: E 4 AT CLINT MOORE

Collection Date/Time: 03/14/2024 14:00

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476008	DEP SOP: NU-094-1	Color (true)	72		PCU	P442888	
	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P442883	
	EPA 300.0 Rev. 2.1	Chloride	38		mg Cl/L	P443377	
		Sulfate	8.5		mg SO4/L	P443380	
	SM 2320 B-2011	Total Alkalinity	173		mg CaCO3/L	P443077	
	SM 2540 C-2015	TDS	310		mg/L	P443310	
	SM 2540 D-2015	TSS	7	I	mg/L	P443257	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P443080	
2476009	EPA 350.1 Rev. 2.0	Ammonia-N	0.16		mg N/L	P443128	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P442978	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.059		mg N/L	P443030	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P443138	
	SM 5310 B-2014	Organic Carbon	14		mg C/L	P443085	
2476022	EPA 8321B	Aldicarb	0.020	U	ug/L	P442872	
		Aldicarb Sulfone	0.0020	U	ug/L	P442872	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P442872	MS
		Carbaryl	0.0020	U	ug/L	P442872	
		Carbofuran	0.0020	U	ug/L	P442872	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P442872	
		Methiocarb	0.0020	U	ug/L	P442872	
		Methomyl	0.0020	U	ug/L	P442872	
		Oxamyl	0.0020	U	ug/L	P442872	
		Propoxur	0.0020	U	ug/L	P442872	
2476023		2,4-D	0.0020	U	ug/L	P442750	
		Acesulfame K	0.10	U	ug/L	P442848	
		2,4,5-T	0.0040	U	ug/L	P442750	
		AMPA	0.13	I	ug/L	P442848	
		Acetaminophen	0.0080	U	ug/L	P442750	
		Acetamiprid	0.0020	U	ug/L	P442750	
		Endothall	0.25	U	ug/L	P442848	
		Glufosinate	0.10	U	ug/L	P442848	
		Glyphosate	0.49		ug/L	P442848	
		Afidopyropen	0.0020	U	ug/L	P442750	
		Bentazon	0.37		ug/L	P442750	
		Sucralose	0.17		ug/L	P442848	
		Benzovindiflupyr	0.0020	U	ug/L	P442750	
		Carbamazepine	8.0E-04	U	ug/L	P442750	
		Clothianidin	0.0020	U	ug/L	P442750	
		Dinotefuran	0.0020	U	ug/L	P442750	
		Diuron	0.020		ug/L	P442750	
		Fenuron	0.045	I	ug/L	P442750	
		Fluridone	0.070		ug/L	P442750	
		Imazapyr	0.16		ug/L	P442750	
		Hydrocodone	0.0020	U	ug/L	P442750	

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476023	EPA 8321B	Ibuprofen	0.080	U	ug/L	P442750	
		Imidacloprid	0.0053	I	ug/L	P442750	
		Linuron	0.0040	U	ug/L	P442750	
		Mandestrobin	0.0020	U	ug/L	P442750	
		MCP	0.0027	I	ug/L	P442750	
		Naproxen	0.0080	U	ug/L	P442750	
		Primidone	0.0040	U	ug/L	P442750	
		Pyraclostrobin	0.0020	U	ug/L	P442750	
		Silvex	0.0040	U	ug/L	P442750	
		Thiamethoxam	0.0020	U	ug/L	P442750	
		Tolfenpyrad	0.0020	U	ug/L	P442750	
		Triclopyr	0.0040	U	ug/L	P442750	
2476024	EPA 8270E	Aldrin	0.67	U	ng/L	P443008	
		Alpha-BHC	0.10	U	ng/L	P443008	
		Alpha-Chlordane	0.21	U	ng/L	P443008	
		PCB-1016	2.1	U	ng/L	P443008	
		Beta-BHC	0.10	U	ng/L	P443008	
		PCB-1221	2.1	U	ng/L	P443008	
		Beta-Cyfluthrin	1.3	U	ng/L	P443008	
		PCB-1232	2.1	U	ng/L	P443008	
		Bifenthrin	0.51	U	ng/L	P443008	
		PCB-1242	2.1	U	ng/L	P443008	
		PCB-1248	2.1	U	ng/L	P443008	
		Chlorothalonil	3.7	U	ng/L	P443008	
		PCB-1254	2.1	U	ng/L	P443008	
		Cis-Nonachlor	0.21	U	ng/L	P443008	
		PCB-1260	2.1	U	ng/L	P443008	
		Cypermethrin	1.5	U	ng/L	P443008	
		Dacthal	0.15	U	ng/L	P443008	
		DDD-p,p'	0.26	U	ng/L	P443008	
		DDE-p,p'	0.21	U	ng/L	P443008	
		DDT-p,p'	0.82	U	ng/L	P443008	
		Delta-BHC	0.41	U	ng/L	P443008	
		Deltamethrin	1.3	U	ng/L	P443008	
		Dichlobenil	0.26	U	ng/L	P443008	
		Dicofol	1.3	U	ng/L	P443008	
		Dieldrin	0.41	U	ng/L	P443008	
		Endosulfan I	0.41	U	ng/L	P443008	
		Endosulfan II	0.93	U	ng/L	P443008	
		Endosulfan Sulfate	0.31	U	ng/L	P443008	
		Endrin	0.93	U	ng/L	P443008	
		Endrin Aldehyde	0.77	U	ng/L	P443008	
		Endrin Ketone	0.41	U	ng/L	P443008	
		Esfenvalerate	0.77	U	ng/L	P443008	
		Ethalfuralin	0.15	U	ng/L	P443008	

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476024	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P443008	CCV
		Gamma-BHC	0.13	U	ng/L	P443008	
		Gamma-Chlordane	0.21	U	ng/L	P443008	
		Heptachlor	0.21	U	ng/L	P443008	
		Heptachlor Epoxide	0.26	U	ng/L	P443008	
		Hexachlorobenzene**	1.0	U	ng/L	P443008	
		Kepone	14	UJ	ng/L	P443008	
		Lambda-Cyhalothrin	0.77	U	ng/L	P443008	
		Methoprene	0.77	U	ng/L	P443008	
		Methoxychlor	0.31	U	ng/L	P443008	
		MGK-264	0.21	U	ng/L	P443008	
		Mirex	0.36	U	ng/L	P443008	
		Oxychlordane	0.31	U	ng/L	P443008	
		Permethrin	1.6	U	ng/L	P443008	
		Phenothrin	0.93	U	ng/L	P443008	
		Piperonyl Butoxide	0.15	U	ng/L	P443008	
		Prallethrin	2.1	U	ng/L	P443008	
		Tau-Fluvalinate	0.26	U	ng/L	P443008	
		Tetramethrin	0.77	U	ng/L	P443008	
		Trans-Nonachlor	0.21	U	ng/L	P443008	
		Triclosan Methyl	0.15	U	ng/L	P443008	
		Trifluralin	0.21	U	ng/L	P443008	
		Chlordane	2.1	U	ng/L	P443008	
		Toxaphene	15	U	ng/L	P443008	
2476025	EPA 8270E	Oxybenzone**	10	U	ng/L	P443009	RPD
		Acetochlor	0.21	U	ng/L	P443009	
		Octinoxate**	150	U	ng/L	P443009	
		Alachlor	0.41	U	ng/L	P443009	
		Avobenzone**	100	U	ng/L	P443009	
		Ametryn	1.1	U	ng/L	P443009	
		Atrazine	0.21	U	ng/L	P443009	
		PBDE-47**	4.1	U	ng/L	P443009	
		Atrazine Desethyl	1.3	U	ng/L	P443009	
		PBDE-99**	5.1	U	ng/L	P443009	
		Azinphos Methyl	3.1	U	ng/L	P443009	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P443009	
		Azoxystrobin	17	J	ng/L	P443009	
		Bromacil	0.62	U	ng/L	P443009	
		2-Ethylhexyl	12	U	ng/L	P443009	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.46	U	ng/L	P443009	
		Dechlorane Plus**	31	U	ng/L	P443009	
		Caffeine**	7.7	U	ng/L	P443009	
		Dechlorane 602**	5.1	U	ng/L	P443009	
		Carbophenothion	0.51	U	ng/L	P443009	

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476025	EPA 8270E	Dechlorane 603**	4.1	U	ng/L	P443009	
		Carfentrazone Ethyl	0.15	U	ng/L	P443009	
		Hexabromobenzene**	6.2	UJ	ng/L	P443009	LCS
		Chlorfenapyr	0.31	U	ng/L	P443009	
		PBB-153**	6.2	U	ng/L	P443009	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P443009	
		Pentabromotoluene**	3.1	U	ng/L	P443009	
		Chlorpyrifos Methyl	0.10	U	ng/L	P443009	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	U	ng/L	P443009	RPD
		Coumaphos	1.1	U	ng/L	P443009	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P443009	
		Cyanazine	5.1	U	ng/L	P443009	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P443009	RPD
		Cyprodinil	0.21	U	ng/L	P443009	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P443009	
		Demeton	3.6	U	ng/L	P443009	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P443009	RPD
		Diazinon	0.13	U	ng/L	P443009	
		Difenoconazole	0.62	U	ng/L	P443009	
		Dimethenamid	0.10	U	ng/L	P443009	
		Dimethomorph	0.31	U	ng/L	P443009	
		Disulfoton	0.62	U	ng/L	P443009	
		Dithiopyr	1.0	U	ng/L	P443009	
		EPTC	10		ng/L	P443009	
		Ethion	0.31	U	ng/L	P443009	
		Ethoprop	4.6		ng/L	P443009	
		Etridiazole	0.10	U	ng/L	P443009	
		Fenamiphos	0.46	U	ng/L	P443009	
		Fenbuconazole	0.51	U	ng/L	P443009	
		Fipronil	0.55	I	ng/L	P443009	
		Fipronil Desulfinyl**	0.27	I	ng/L	P443009	
		Fipronil Sulfide	3.8		ng/L	P443009	
		Fipronil Sulfone	7.3		ng/L	P443009	
		Fluazifop-P-butyl	0.10	U	ng/L	P443009	
		Fludioxonil	51		ng/L	P443009	
		Flumioxazin	3.1	U	ng/L	P443009	
		Flutolanil	0.10	U	ng/L	P443009	
		Fluxapyroxad	3.8		ng/L	P443009	
		Fonofos	0.15	U	ng/L	P443009	
		Hexazinone	0.51	U	ng/L	P443009	
		Imazalil	0.67	U	ng/L	P443009	
		Iprodione	0.51	U	ng/L	P443009	
		Loratadine**	0.31	U	ng/L	P443009	
		Malathion	0.36	U	ng/L	P443009	

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476025	EPA 8270E	Metalaxyl	3.1		ng/L	P443009	
		Metolachlor	54		ng/L	P443009	
		Metribuzin	98		ng/L	P443009	
		Mevinphos	1.0	U	ng/L	P443009	
		Molinate	0.26	U	ng/L	P443009	
		Myclobutanil	0.36	U	ng/L	P443009	
		Naled	2.6	U	ng/L	P443009	
		Napropamide	5.9		ng/L	P443009	
		Norflurazon	1.0	U	ng/L	P443009	
		Oxadiazon	0.36	U	ng/L	P443009	
		Oxyfluorfen	0.21	U	ng/L	P443009	
		Parathion Ethyl	0.15	U	ng/L	P443009	
		Parathion Methyl	0.21	U	ng/L	P443009	
		Pendimethalin	23		ng/L	P443009	
		Phenytain**	5.5	U	ng/L	P443009	
		Phorate	0.26	U	ng/L	P443009	
		Prodiamine	0.21	U	ng/L	P443009	
		Prometon	3.1	U	ng/L	P443009	
		Prometryn	0.36	U	ng/L	P443009	
		Pronamide	0.10	U	ng/L	P443009	
		Propanil	0.10	U	ng/L	P443009	
		Propargite	0.82	U	ng/L	P443009	
		Propiconazole	0.62	U	ng/L	P443009	
		Pyraflufen Ethyl	0.31	U	ng/L	P443009	
		Pyridaben	1.4	U	ng/L	P443009	
		Pyriproxyfen	0.26	U	ng/L	P443009	
		Simazine	0.26	U	ng/L	P443009	
		Stirophos	0.41	U	ng/L	P443009	
		Sulfentrazone	1.4	U	ng/L	P443009	
		Tebuconazole	1.4	U	ng/L	P443009	
		Terbufos	0.21	U	ng/L	P443009	
		Terbuthylazine	0.21	U	ng/L	P443009	
		Thiobencarb	0.51	U	ng/L	P443009	
		Triadimefon	0.15	U	ng/L	P443009	

Ref. Method and Comment:

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

SM 5310 B-2014: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

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

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Estimation for azoxystrobin due to internal standard recovery exceeding control limits.

Sample Location: FB

Collection Date/Time: 03/14/2024 14:15

Field ID: FB_03142024

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476012	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P442888	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P442883	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P443377	
		Sulfate	0.20	U	mg SO4/L	P443380	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P443079	
	SM 2540 C-2015	TDS	15	U	mg/L	P443308	
	SM 2540 D-2015	TSS	2	U	mg/L	P443256	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P443099	
2476013	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P443128	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P442978	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P443031	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P443138	
	SM 5310 B-2014	Organic Carbon	0.50	U	mg C/L	P443246	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

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

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P442888

Component	Result	Code	Units
Color (true)	2.5	U	PCU

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

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P442939

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P442940

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P442939

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P442939

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P442940

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

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

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

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

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

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

Component	Result	Code	Units
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Quality Assurance Report
Method Blank Results

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

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443204

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

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

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442978

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443090

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443030

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

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

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443143

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443107

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443138

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

Reference Method: EPA 8270E
Batch ID: P443008

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P443008

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

Reference Method: EPA 8270E

Batch ID: P443009

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P443009

Component	Result	Code	Units
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P443009

Component	Result	Code	Units
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 8276

Batch ID: P443008

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

Reference Method: EPA 8321B

Batch ID: P442750

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

Reference Method: EPA 8321B

Batch ID: P442848

Component	Result	Code	Units
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Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P442848

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P442872

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

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

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

Reference Method: SM 2320 B-2011
Batch ID: P443078

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

Reference Method: SM 2320 B-2011
Batch ID: P443079

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

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

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P443310

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

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

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P443257

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P443258

Component	Result	Code	Units
TSS	3	U	mg/L

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

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P443081

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P443099

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

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

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

Reference Method: SM 5310 B-2014
Batch ID: P443246

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

Reference Method: SM 5310 B-2014
Batch ID: P443564

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

Quality Assurance Report

Laboratory Control Sample Accuracy

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

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P442888

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.6		P	90 - 110

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

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P442939

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	108		P	80 - 120
Iron	113		P	80 - 120
Magnesium	114		P	80 - 120
Potassium	104		P	80 - 120
Sodium	103		P	80 - 120
Strontium	101		P	80 - 120
Tin	101		P	80 - 120
Titanium	103		P	80 - 120
Vanadium	101		P	80 - 120
Zinc	99.8		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P442940

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	102		P	85 - 115
Magnesium	98.8		P	85 - 115
Potassium	101		P	85 - 115
Sodium	102		P	85 - 115
Strontium	102		P	85 - 115
Tin	99.1		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P442939

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	104		P	85 - 115
Arsenic	99.0		P	85 - 115
Barium	104		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P442939

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beryllium	102		P	85 - 115
Boron	106		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	106		P	85 - 115
Cobalt	102		P	85 - 115
Copper	98.8		P	85 - 115
Lead	94.4		P	85 - 115
Manganese	104		P	85 - 115
Molybdenum	98.8		P	85 - 115
Nickel	98.6		P	85 - 115
Selenium	102		P	85 - 115
Silver	100		P	85 - 115
Thallium	95.2		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P442940

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	104		P	85 - 115
Antimony	107		P	85 - 115
Arsenic	100		P	85 - 115
Barium	106		P	85 - 115
Beryllium	98.6		P	85 - 115
Boron	107		P	85 - 115
Cadmium	105		P	85 - 115
Chromium	107		P	85 - 115
Cobalt	102		P	85 - 115
Copper	97.8		P	85 - 115
Lead	96.1		P	85 - 115
Manganese	105		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	99.4		P	85 - 115
Selenium	103		P	85 - 115
Silver	102		P	85 - 115
Thallium	98.6		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P443377

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

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P443380

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P443128

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report
Laboratory Control Sample Accuracy

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

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443204

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

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

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442978

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443090

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.7		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443030

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

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

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443143

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443107

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P443138

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

Reference Method: EPA 8270E

Batch ID: P443008

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	88.5		P	30 - 96.0
Alpha-BHC	91.6		P	70 - 109
Alpha-Chlordane	103		P	45 - 107
Beta-BHC	99.6		P	64 - 138
Beta-Cyfluthrin	96.3		P	17 - 141
Bifenthrin	90.1		P	10 - 113
Chlorothalonil	71.4		P	26 - 180
Cis-Nonachlor	86.4		P	37 - 102
Cypermethrin	90.0		P	20 - 133
Dacthal	107		P	69 - 114
DDD-p,p'	97.4		P	42 - 105
DDE-p,p'	82.2		P	42 - 106
DDT-p,p'	85.9		P	42 - 107
Delta-BHC	110		P	67 - 144
Deltamethrin	91.2		P	15 - 149
Dichlobenil	76.3		P	46 - 117
Dicofol	82.1		P	34 - 114
Dieldrin	107		P	50 - 108
Endosulfan I	83.9		P	55 - 104
Endosulfan II	87.3		P	51 - 111
Endosulfan Sulfate	115		P	56 - 121
Endrin	86.5		P	10 - 106
Endrin Aldehyde	110		P	34 - 114
Endrin Ketone	125		P	63 - 177
Esfenvalerate	90.5		P	29 - 143
Ethalfuralin	80.5		P	46 - 96.0
Fenpropathrin	93.6		P	28 - 115
Gamma-BHC	88.7		P	65 - 121
Gamma-Chlordane	101		P	39 - 103
Heptachlor	72.7		P	39 - 94.0
Heptachlor Epoxide	84.8		P	54 - 104
Hexachlorobenzene	89.3		P	36 - 100
Kepone	149		P	10 - 225
Lambda-Cyhalothrin	115		P	10 - 135
Methoprene	84.8		P	10 - 109
Methoxychlor	95.8		P	52 - 112
MGK-264	88.2		P	44 - 117
Mirex	83.4		P	20 - 90.0
Oxychlordane	84.3		P	44 - 102
PCB-1016	78.8		P	45 - 107
PCB-1260	62.7		P	40 - 118
Permethrin	91.7		P	18 - 135
Phenothrin	91.7		P	10 - 102
Piperonyl Butoxide	114		P	28 - 156
Prallethrin	91.2		P	28 - 113
Tau-Fluvalinate	92.3		P	10 - 123

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P443008

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Tetramethrin	100		P	18 - 158
Trans-Nonachlor	100		P	39 - 104
Triclosan Methyl	86.0		P	54 - 108
Trifluralin	90.3		P	46 - 97.0

Reference Method: EPA 8270E

Batch ID: P443009

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	56.3		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.4		P	37 - 154
Acetochlor	92.6		P	64 - 124
Alachlor	72.9		P	61 - 118
Ametryn	115		P	47 - 158
Atrazine	91.9		P	68 - 121
Atrazine Desethyl	83.0		P	30 - 119
Avobenzone	106		P	48 - 193
Azinphos Methyl	173		P	30 - 194
Azoxystrobin	88.7		P	58 - 154
Bromacil	92.9		P	47 - 126
Butylate	53.5		P	31 - 83.0
Caffeine	97.6		P	10 - 180
Carbophenothion	124		P	59 - 133
Carfentrazone Ethyl	136		P	59 - 147
Chlorfenapyr	90.3		P	52 - 118
Chlorpyrifos Ethyl	77.5		P	59 - 119
Chlorpyrifos Methyl	99.8		P	65 - 123
Coumaphos	122		P	11 - 223
Cyanazine	121		P	63 - 250
Cyprodinil	93.9		P	52 - 143
Dechlorane 602	70.3		P	23 - 142
Dechlorane 603	70.8		P	51 - 171
Dechlorane Plus	66.6		P	46 - 161
Demeton	66.8		P	42 - 119
Diazinon	105		P	67 - 132
Difenoconazole	155		P	12 - 204
Dimethenamid	101		P	53 - 113
Dimethomorph	91.7		P	13 - 238
Disulfoton	95.3		P	56 - 126
Dithiopyr	85.4		P	58 - 127
EPTC	47.8		P	31 - 78.0
Ethion	82.2		P	24 - 127
Ethoprop	75.5		P	60 - 118
Etridiazole	64.7		P	32 - 91.0
Fenamiphos	95.5		P	54 - 129
Fenbuconazole	98.4		P	31 - 162
Fipronil	74.4		P	56 - 131
Fipronil Desulfinyl	68.7		P	58 - 132
Fipronil Sulfide	61.1		P	51 - 123
Fipronil Sulfone	77.2		P	50 - 125
Fluazifop-P-butyl	85.5		P	52 - 132
Fludioxonil	94.5		P	52 - 129

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P443009

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Flumioxazin	83.1		P	34 - 250
Flutolanil	97.0		P	45 - 128
Fluxapyroxad	97.6		P	31 - 150
Fonofos	74.9		P	60 - 116
Hexabromobenzene	49.4		F	52 - 165
Hexazinone	94.1		P	59 - 120
Imazalil	86.8		P	39 - 134
Iprodione	110		P	39 - 243
Loratadine	162		P	10 - 240
Malathion	101		P	53 - 145
Metalaxyl	81.3		P	59 - 120
Metolachlor	91.1		P	64 - 122
Metribuzin	68.6		P	33 - 128
Mevinphos	83.0		P	48 - 119
Molinate	57.0		P	42 - 89.0
Myclobutanil	80.5		P	54 - 129
Naled	78.3		P	10 - 138
Napropamide	87.8		P	40 - 122
Norflurazon	111		P	49 - 132
Octinoxate	76.8		P	29 - 176
Oxadiazon	71.7		P	50 - 115
Oxybenzone	87.1		P	45 - 145
Oxyfluorfen	112		P	62 - 149
Parathion Ethyl	92.5		P	68 - 119
Parathion Methyl	95.5		P	68 - 147
PBB-153	70.7		P	42 - 179
PBDE-47	75.0		P	44 - 141
PBDE-99	77.9		P	36 - 141
Pendimethalin	91.8		P	59 - 158
Pentabromotoluene	68.4		P	58 - 148
Phenytoin	39.5		P	10 - 151
Phorate	81.8		P	44 - 124
Prodiamine	39.3		P	10 - 136
Prometon	93.0		P	45 - 131
Prometryn	95.6		P	52 - 140
Pronamide	108		P	70 - 129
Propanil	110		P	54 - 144
Propargite	86.7		P	10 - 191
Propiconazole	85.7		P	49 - 128
Pyraflufen Ethyl	91.8		P	46 - 141
Pyridaben	138		P	29 - 198
Pyriproxyfen	95.4		P	33 - 221
Simazine	93.7		P	62 - 119
Stirophos	104		P	13 - 144
Sulfentrazone	61.4		P	12 - 152
Tebuconazole	81.4		P	10 - 135
Terbufos	81.3		P	67 - 136
Terbuthylazine	74.0		P	66 - 113
Tetradecachloro-m-terphenyl	58.1		P	30 - 235
Thiobencarb	102		P	51 - 125
Tri-o-cresyl Phosphate	74.3		P	50 - 150
Triadimefon	94.9		P	57 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P443009

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Tris(1-chloro-2-propyl) phosphate (TCPP)	73.8		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	73.8		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	79.8		P	59 - 166

Reference Method: EPA 8276

Batch ID: P443008

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

Reference Method: EPA 8321B

Batch ID: P442750

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	106		P	40 - 150
2,4,5-T	93.0		P	40 - 150
Acetaminophen	80.4		P	30 - 150
Acetamiprid	84.2		P	40 - 150
Afidopyropen	68.3		P	30 - 150
Bentazon	115		P	30 - 150
Benzovindiflupyr	89.9		P	40 - 150
Carbamazepine	81.9		P	40 - 150
Clothianidin	96.6		P	40 - 150
Dinotefuran	101		P	40 - 150
Diuron	78.6		P	40 - 150
Fenuron	96.1		P	40 - 150
Fluridone	89.2		P	40 - 150
Hydrocodone	88.9		P	40 - 150
Ibuprofen	99.3		P	40 - 150
Imazapyr	104		P	40 - 150
Imidacloprid	94.8		P	40 - 150
Linuron	74.7		P	40 - 150
Mandestrobin	96.4		P	40 - 150
MCPP	99.3		P	40 - 150
Naproxen	71.5		P	40 - 150
Primidone	96.8		P	40 - 150
Pyraclostrobin	91.5		P	40 - 150
Silvex	103		P	40 - 150
Thiamethoxam	97.9		P	40 - 150
Tolfenpyrad	57.4		P	30 - 150
Triclopyr	102		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P442848

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P442848

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	100		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P442872

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

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

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

Reference Method: SM 2320 B-2011
Batch ID: P443078

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P443079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	92 - 105

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

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

Reference Method: SM 2540 C-2015
Batch ID: P443310

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

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

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P443257

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

Reference Method: SM 2540 D-2015
Batch ID: P443258

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	109		P	85 - 115

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

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

Reference Method: SM 4500-F- C-2011
Batch ID: P443081

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.6		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P443099

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.5		P	94 - 106

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

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

Reference Method: SM 5310 B-2014
Batch ID: P443246

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

Reference Method: SM 5310 B-2014
Batch ID: P443564

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P442939

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475519	Calcium	105		P	80 - 120
2475519	Iron	110	108	P/P	80 - 120
2475519	Magnesium	110	108	P/P	80 - 120
2475519	Potassium	102	101	P/P	80 - 120
2475519	Sodium	101		P	80 - 120
2475519	Strontium	98.9	98.6	P/P	80 - 120
2475519	Tin	97.6	96.7	P/P	80 - 120
2475519	Titanium	100	101	P/P	80 - 120
2475519	Vanadium	101	99.8	P/P	80 - 120
2475519	Zinc	98.3	97.5	P/P	80 - 120
2475956	Calcium	103		P	80 - 120
2475956	Iron	111		P	80 - 120
2475956	Magnesium	102		P	80 - 120
2475956	Potassium	100		P	80 - 120
2475956	Sodium	106		P	80 - 120
2475956	Strontium	100		P	80 - 120
2475956	Tin	99.5		P	80 - 120
2475956	Titanium	102		P	80 - 120
2475956	Vanadium	98.5		P	80 - 120
2475956	Zinc	95.7		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P442940

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476028	Iron	97.6	97.7	P/P	70 - 130
2476028	Tin	77.9	79.2	P/P	70 - 130
2476028	Titanium	101	100	P/P	70 - 130
2476028	Vanadium	103	104	P/P	70 - 130
2476028	Zinc	105	105	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P442939

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475519	Aluminum	97.7	102	P/P	80 - 120
2475519	Antimony	105	107	P/P	80 - 120
2475519	Arsenic	99.1	101	P/P	80 - 120
2475519	Barium	104	108	P/P	80 - 120
2475519	Beryllium	101	105	P/P	80 - 120
2475519	Boron	107	108	P/P	80 - 120
2475519	Cadmium	103	106	P/P	80 - 120
2475519	Chromium	106	108	P/P	80 - 120
2475519	Cobalt	101	103	P/P	80 - 120
2475519	Copper	96.8	100	P/P	80 - 120
2475519	Lead	95.0	96.9	P/P	80 - 120
2475519	Manganese	101	110	P/P	80 - 120
2475519	Molybdenum	101	102	P/P	80 - 120
2475519	Nickel	98.8	101	P/P	80 - 120
2475519	Selenium	103	105	P/P	80 - 120
2475519	Silver	102	103	P/P	80 - 120
2475519	Thallium	96.5	98.9	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P442939

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475956	Aluminum	103		P	80 - 120
2475956	Antimony	109		P	80 - 120
2475956	Arsenic	101		P	80 - 120
2475956	Barium	108		P	80 - 120
2475956	Beryllium	99.2		P	80 - 120
2475956	Boron	107		P	80 - 120
2475956	Cadmium	106		P	80 - 120
2475956	Chromium	114		P	80 - 120
2475956	Cobalt	101		P	80 - 120
2475956	Copper	98.4		P	80 - 120
2475956	Lead	96.6		P	80 - 120
2475956	Manganese	107		P	80 - 120
2475956	Molybdenum	104		P	80 - 120
2475956	Nickel	98.8		P	80 - 120
2475956	Selenium	104		P	80 - 120
2475956	Silver	103		P	80 - 120
2475956	Thallium	99.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P442940

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476028	Aluminum	108	110	P/P	70 - 130
2476028	Antimony	105	105	P/P	70 - 130
2476028	Arsenic	108	109	P/P	70 - 130
2476028	Barium	103	104	P/P	70 - 130
2476028	Beryllium	93.1	90.1	P/P	70 - 130
2476028	Boron	111	117	P/P	70 - 130
2476028	Cadmium	94.8	99.4	P/P	70 - 130
2476028	Chromium	99.2	99.5	P/P	70 - 130
2476028	Cobalt	109	107	P/P	70 - 130
2476028	Copper	104	111	P/P	70 - 130
2476028	Lead	100	102	P/P	70 - 130
2476028	Manganese	93.6	94.7	P/P	70 - 130
2476028	Molybdenum	111	112	P/P	70 - 130
2476028	Nickel	106	106	P/P	70 - 130
2476028	Selenium	104	103	P/P	70 - 130
2476028	Silver	91.6	91.3	P/P	70 - 130
2476028	Thallium	100	102	P/P	70 - 130

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

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

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

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

Quality Assurance Report Matrix Spike Accuracy

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

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

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

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443204

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476326	Ammonia-N	99.6	101	P/P	90 - 110

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

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442978

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476009	Kjeldahl Nitrogen	103	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443090

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2474580	Kjeldahl Nitrogen	104	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443030

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475779	NO2NO3-N	98.0	98.0	P/P	90 - 110

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

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443143

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475162	NO2NO3-N	91.5	93.0	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443107

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2475996	Total-P	99.7	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443138

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476009	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P443008

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P443008

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

Reference Method: EPA 8270E
Batch ID: P443009

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P443009

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P443009

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

Reference Method: EPA 8276

Batch ID: P443008

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

Reference Method: EPA 8321B

Batch ID: P442750

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

Reference Method: EPA 8321B

Batch ID: P442848

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P442848

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

Reference Method: EPA 8321B
Batch ID: P442872

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

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

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

Reference Method: SM 4500-F- C-2011
Batch ID: P443081

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2472303	Fluoride	98.7	100	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P443246

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476217	Organic Carbon	98.6	99.8	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P443564

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477263	Organic Carbon	95.4	94.0	P/P	85 - 115

Quality Assurance Report Precision

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

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P442888

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476010	Color (true)	6.93	Sample	P	0 - 20

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

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P442939

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475519	Calcium	0.381	Spike	P	0 - 20
2475519	Iron	0.742	Spike	P	0 - 20
2475519	Magnesium	0.854	Spike	P	0 - 20
2475519	Potassium	1.50	Spike	P	0 - 20
2475519	Sodium	0.372	Spike	P	0 - 20
2475519	Strontium	0.321	Spike	P	0 - 20
2475519	Tin	0.901	Spike	P	0 - 20
2475519	Titanium	0.992	Spike	P	0 - 20
2475519	Vanadium	0.943	Spike	P	0 - 20
2475519	Zinc	0.794	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P442940

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476028	Calcium	1.22	Spike	P	0 - 20
2476028	Iron	0.0659	Spike	P	0 - 20
2476028	Magnesium	2.13	Spike	P	0 - 20
2476028	Potassium	2.25	Spike	P	0 - 20
2476028	Sodium	3.75	Spike	P	0 - 20
2476028	Strontium	0.495	Spike	P	0 - 20
2476028	Tin	1.65	Spike	P	0 - 20
2476028	Titanium	0.545	Spike	P	0 - 20
2476028	Vanadium	1.26	Spike	P	0 - 20
2476028	Zinc	0.349	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P442939

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475519	Aluminum	3.15	Spike	P	0 - 20
2475519	Antimony	2.46	Spike	P	0 - 20
2475519	Arsenic	2.03	Spike	P	0 - 20
2475519	Barium	2.59	Spike	P	0 - 20
2475519	Beryllium	4.25	Spike	P	0 - 20
2475519	Boron	0.569	Spike	P	0 - 20
2475519	Cadmium	3.25	Spike	P	0 - 20
2475519	Chromium	1.83	Spike	P	0 - 20
2475519	Cobalt	2.24	Spike	P	0 - 20
2475519	Copper	3.42	Spike	P	0 - 20
2475519	Lead	1.91	Spike	P	0 - 20
2475519	Manganese	2.92	Spike	P	0 - 20
2475519	Molybdenum	1.20	Spike	P	0 - 20
2475519	Nickel	2.61	Spike	P	0 - 20
2475519	Selenium	1.90	Spike	P	0 - 20
2475519	Silver	1.79	Spike	P	0 - 20
2475519	Thallium	2.49	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P442940

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476028	Aluminum	2.03	Spike	P	0 - 20
2476028	Antimony	0.375	Spike	P	0 - 20
2476028	Arsenic	1.06	Spike	P	0 - 20
2476028	Barium	0.702	Spike	P	0 - 20
2476028	Beryllium	3.32	Spike	P	0 - 20
2476028	Boron	0.702	Spike	P	0 - 20
2476028	Cadmium	4.65	Spike	P	0 - 20
2476028	Chromium	0.275	Spike	P	0 - 20
2476028	Cobalt	2.10	Spike	P	0 - 20
2476028	Copper	5.38	Spike	P	0 - 20
2476028	Lead	1.13	Spike	P	0 - 20
2476028	Manganese	1.10	Spike	P	0 - 20
2476028	Molybdenum	0.631	Spike	P	0 - 20
2476028	Nickel	0.0196	Spike	P	0 - 20
2476028	Selenium	1.41	Spike	P	0 - 20
2476028	Silver	0.239	Spike	P	0 - 20
2476028	Thallium	1.24	Spike	P	0 - 20

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

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

Quality Assurance Report Precision

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

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

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

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443204

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476326	Ammonia-N	0.900	Spike	P	0 - 20

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

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442978

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476009	Kjeldahl Nitrogen	1.63	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443090

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2474580	Kjeldahl Nitrogen	0.850	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443030

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475779	NO2NO3-N	0.0	Spike	P	0 - 20

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

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

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475162	NO2NO3-N	1.63	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443107

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475996	Total-P	1.49	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443138

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476009	Total-P	0.613	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P443008

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475508	Aldrin	8.79	Spike	P	0 - 41
2475508	Alpha-BHC	8.06	Spike	P	0 - 25
2475508	Alpha-Chlordane	16.4	Spike	P	0 - 32
2475508	Beta-BHC	0.142	Spike	P	0 - 33
2475508	Beta-Cyfluthrin	12.4	Spike	P	0 - 43
2475508	Bifenthrin	13.8	Spike	P	0 - 52
2475508	Chlorothalonil	13.5	Spike	P	0 - 82
2475508	Cis-Nonachlor	17.2	Spike	P	0 - 33
2475508	Cypermethrin	15.6	Spike	P	0 - 51
2475508	Dacthal	5.82	Spike	P	0 - 27
2475508	DDD-p,p'	5.53	Spike	P	0 - 39
2475508	DDE-p,p'	21.5	Spike	P	0 - 31
2475508	DDT-p,p'	11.2	Spike	P	0 - 29
2475508	Delta-BHC	8.73	Spike	P	0 - 35
2475508	Deltamethrin	9.42	Spike	P	0 - 100
2475508	Dichlobenil	9.96	Spike	P	0 - 40
2475508	Dicofol	10.0	Spike	P	0 - 37
2475508	Dieldrin	14.5	Spike	P	0 - 27
2475508	Endosulfan I	13.5	Spike	P	0 - 23
2475508	Endosulfan II	4.28	Spike	P	0 - 34
2475508	Endosulfan Sulfate	4.24	Spike	P	0 - 36
2475508	Endrin	16.5	Spike	P	0 - 45
2475508	Endrin Aldehyde	11.7	Spike	P	0 - 76
2475508	Endrin Ketone	3.07	Spike	P	0 - 43
2475508	Esfenvalerate	6.74	Spike	P	0 - 51
2475508	Ethalfuralin	7.79	Spike	P	0 - 22
2475508	Fenpropathrin	20.6	Spike	P	0 - 49
2475508	Gamma-BHC	11.6	Spike	P	0 - 28
2475508	Gamma-Chlordane	6.26	Spike	P	0 - 40
2475508	Heptachlor	18.0	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P443008

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

Reference Method: EPA 8270E
Batch ID: P443009

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475498	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	43.9	Spike	F	0 - 30
2475498	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	7.27	Spike	P	0 - 35
2475498	Acetochlor	7.03	Spike	P	0 - 28
2475498	Alachlor	3.45	Spike	P	0 - 30
2475498	Ametryn	6.52	Spike	P	0 - 32
2475498	Atrazine	2.97	Spike	P	0 - 33
2475498	Atrazine Desethyl	1.37	Spike	P	0 - 36
2475498	Avobenzene	7.31	Spike	P	0 - 35
2475498	Azinphos Methyl	0.770	Spike	P	0 - 62
2475498	Azoxystrobin	13.9	Spike	P	0 - 39
2475498	Bromacil	10.6	Spike	P	0 - 33
2475498	Butylate	9.35	Spike	P	0 - 51
2475498	Caffeine	13.2	Spike	P	0 - 100
2475498	Carbophenothion	24.2	Spike	P	0 - 34
2475498	Carfentrazone Ethyl	25.5	Spike	P	0 - 33
2475498	Chlorfenapyr	3.01	Spike	P	0 - 28
2475498	Chlorpyrifos Ethyl	0.367	Spike	P	0 - 31
2475498	Chlorpyrifos Methyl	0.971	Spike	P	0 - 27
2475498	Coumaphos	4.96	Spike	P	0 - 62
2475498	Cyanazine	2.59	Spike	P	0 - 48
2475498	Cyprodinil	23.6	Spike	P	0 - 29
2475498	Dechlorane 602	18.1	Spike	P	0 - 60
2475498	Dechlorane 603	22.6	Spike	P	0 - 40
2475498	Dechlorane Plus	18.0	Spike	P	0 - 38
2475498	Demeton	2.42	Spike	P	0 - 33

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P443009

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475498	Diazinon	14.9	Spike	P	0 - 32
2475498	Difenoconazole	14.4	Spike	P	0 - 71
2475498	Dimethenamid	0.599	Spike	P	0 - 60
2475498	Dimethomorph	31.3	Spike	P	0 - 61
2475498	Disulfoton	10.9	Spike	P	0 - 30
2475498	Dithiopyr	8.23	Spike	P	0 - 28
2475498	EPTC	7.67	Spike	P	0 - 56
2475498	Ethion	22.8	Spike	P	0 - 79
2475498	Ethoprop	2.45	Spike	P	0 - 31
2475498	Etridiazole	19.9	Spike	P	0 - 43
2475498	Fenamiphos	0.825	Spike	P	0 - 43
2475498	Fenbuconazole	11.4	Spike	P	0 - 79
2475498	Fipronil	29.7	Spike	P	0 - 46
2475498	Fipronil Desulfinyl	32.8	Spike	P	0 - 36
2475498	Fipronil Sulfide	3.03	Spike	P	0 - 34
2475498	Fipronil Sulfone	15.2	Spike	P	0 - 47
2475498	Fluazifop-P-butyl	10.2	Spike	P	0 - 38
2475498	Fludioxonil	3.42	Spike	P	0 - 29
2475498	Flumioxazin	9.71	Spike	P	0 - 63
2475498	Flutolanil	0.574	Spike	P	0 - 36
2475498	Fluxapyroxad	18.4	Spike	P	0 - 65
2475498	Fonofos	3.67	Spike	P	0 - 35
2475498	Hexabromobenzene	18.6	Spike	P	0 - 41
2475498	Hexazinone	4.64	Spike	P	0 - 31
2475498	Imazalil	10.4	Spike	P	0 - 52
2475498	Iprodione	23.1	Spike	P	0 - 49
2475498	Loratadine	4.13	Spike	P	0 - 59
2475498	Malathion	3.97	Spike	P	0 - 77
2475498	Metalaxyl	3.05	Spike	P	0 - 76
2475498	Metolachlor	4.13	Spike	P	0 - 29
2475498	Metribuzin	6.97	Spike	P	0 - 51
2475498	Mevinphos	2.70	Spike	P	0 - 31
2475498	Molinate	6.19	Spike	P	0 - 39
2475498	Myclobutanil	4.63	Spike	P	0 - 34
2475498	Naled	7.57	Spike	P	0 - 37
2475498	Napropamide	20.7	Spike	P	0 - 100
2475498	Norflurazon	26.9	Spike	P	0 - 54
2475498	Octinoxate	3.84	Spike	P	0 - 35
2475498	Oxadiazon	4.86	Spike	P	0 - 34
2475498	Oxybenzone	8.50	Spike	P	0 - 35
2475498	Oxyfluorfen	0.402	Spike	P	0 - 28
2475498	Parathion Ethyl	9.13	Spike	P	0 - 31
2475498	Parathion Methyl	17.1	Spike	P	0 - 29
2475498	PBB-153	9.27	Spike	P	0 - 49
2475498	PBDE-47	14.6	Spike	P	0 - 36
2475498	PBDE-99	14.4	Spike	P	0 - 46
2475498	Pendimethalin	8.28	Spike	P	0 - 31
2475498	Pentabromotoluene	2.92	Spike	P	0 - 16
2475498	Phenytoin	41.4	Spike	P	0 - 100
2475498	Phorate	2.99	Spike	P	0 - 36
2475498	Prodiamine	5.62	Spike	P	0 - 68

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P443009

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

Reference Method: EPA 8276
Batch ID: P443008

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

Reference Method: EPA 8321B
Batch ID: P442750

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475183	2,4-D	14.1	Spike	P	0 - 30
2475183	2,4,5-T	13.2	Spike	P	0 - 30
2475183	Acetaminophen	2.86	Spike	P	0 - 30
2475183	Acetamiprid	10.4	Spike	P	0 - 30
2475183	Afidopyropen	1.55	Spike	P	0 - 30
2475183	Bentazon	14.2	Spike	P	0 - 30
2475183	Benzovindiflupyr	9.58	Spike	P	0 - 30
2475183	Carbamazepine	5.90	Spike	P	0 - 30
2475183	Clothianidin	15.2	Spike	P	0 - 30
2475183	Dinotefuran	5.26	Spike	P	0 - 30
2475183	Diuron	3.16	Spike	P	0 - 30
2475183	Fenuron	12.8	Spike	P	0 - 30
2475183	Fluridone	12.5	Spike	P	0 - 30
2475183	Hydrocodone	8.61	Spike	P	0 - 30
2475183	Ibuprofen	12.5	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P442750

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475183	Imazapyr	2.68	Spike	P	0 - 30
2475183	Imidacloprid	13.5	Spike	P	0 - 30
2475183	Linuron	17.8	Spike	P	0 - 30
2475183	Mandestrobin	7.13	Spike	P	0 - 30
2475183	MCPPP	2.91	Spike	P	0 - 30
2475183	Naproxen	4.64	Spike	P	0 - 30
2475183	Primidone	10.5	Spike	P	0 - 30
2475183	Pyraclostrobin	9.95	Spike	P	0 - 30
2475183	Silvex	6.09	Spike	P	0 - 30
2475183	Thiamethoxam	6.95	Spike	P	0 - 30
2475183	Tolfenpyrad	12.2	Spike	P	0 - 30
2475183	Triclopyr	2.93	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P442848

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

Reference Method: EPA 8321B
Batch ID: P442872

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

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

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

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Reference Method: SM 2320 B-2011
Batch ID: P443078

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2475379	Total Alkalinity	3.82	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P443079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476178	Total Alkalinity	2.75	Sample	P	0 - 3.9

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

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

Reference Method: SM 2540 C-2015
Batch ID: P443310

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476006	TDS	2.92	Sample	P	0 - 10

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

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

Reference Method: SM 4500-F- C-2011
Batch ID: P443081

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2472303	Fluoride	0.960	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P443099

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476207	Fluoride	0.516	Spike	P	0 - 1.9

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

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

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Reference Method: SM 5310 B-2014
Batch ID: P443246

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476217	Organic Carbon	0.933	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P443564

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477263	Organic Carbon	1.10	Spike	P	0 - 15

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

Quality Assurance Report

Surrogates

Lab Sample ID: 2476022

Field Sample ID: G3SE0019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	63.9	P	30 - 160

Lab Sample ID: 2476023

Field Sample ID: G3SE0019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	71.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	71.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	64.1	P	30 - 160
EPA 8321B	Diuron-d6	64.5	P	30 - 160
EPA 8321B	Endothall-d6	94.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	95.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.8	P	30 - 160
EPA 8321B	Primidone-d5	86.1	P	30 - 160
EPA 8321B	Sucralose-d6	120	P	30 - 160

Lab Sample ID: 2476024

Field Sample ID: G3SE0019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	96.3	P	37 - 129
EPA 8270E	Decachlorobiphenyl	89.4	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	60.5	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	77.6	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	67.8	P	23 - 110
EPA 8276	PCNB	92.8	P	51 - 130

Lab Sample ID: 2476025

Field Sample ID: G3SE0019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	87.2	P	20 - 200
EPA 8270E	Simazine-d10	86.3	P	58 - 137
EPA 8270E	Terbufos-d10	78.3	P	50 - 134
EPA 8270E	Terphenyl-d14	94.7	P	44 - 134

Lab Sample ID: 2476026

Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	105	P	37 - 129
EPA 8270E	Decachlorobiphenyl	83.5	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	49.8	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	65.2	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	63.6	P	23 - 110
EPA 8276	PCNB	82.7	P	51 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A124787

Included Lab Sample IDs: 2476006, 2476008, 2476010, 2476012

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	97.5	P/P	95 - 105
Turbidity	98.5	98.0	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A124789

Included Lab Sample IDs: 2476006, 2476008, 2476010, 2476012

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	94.0	98.7	P/P	90 - 110
Color (true)	96.1	94.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A124796

Included Lab Sample IDs: 2476023

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

Reference Method: EPA 8321B

Run ID: A124818

Included Lab Sample IDs: 2476023

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

Reference Method: EPA 8321B

Run ID: A124832

Included Lab Sample IDs: 2476023

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.2	95.2	P/P	50 - 150
2,4,5-T	86.1	106	P/P	50 - 150
Acetaminophen	113	112	P/P	60 - 160
Acetamiprid	116	114	P/P	50 - 150
Afidopyropen	109	114	P/P	50 - 150
Benzovindiflupyr	100	110	P/P	50 - 150
Carbamazepine	113	110	P/P	60 - 150
Clothianidin	109	117	P/P	60 - 150
Dinotefuran	110	109	P/P	50 - 150
Diuron	124	108	P/P	60 - 160
Fenuron	107	111	P/P	60 - 150
Fluridone	114	105	P/P	60 - 160
Hydrocodone	111	116	P/P	60 - 150
Ibuprofen	63.8	98.0	P/P	50 - 160
Imazapyr	95.6	99.7	P/P	50 - 150
Imidacloprid	107	103	P/P	60 - 150
Linuron	110	108	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A124832
Included Lab Sample IDs: 2476023

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mandestrobin	108	115	P/P	50 - 150
MCPD	90.5	94.4	P/P	50 - 150
Naproxen	101	101	P/P	50 - 160
Primidone	103	90.6	P/P	60 - 150
Pyraclostrobin	107	112	P/P	60 - 150
Silvex	88.0	101	P/P	50 - 150
Thiamethoxam	126	126	P/P	50 - 150
Tolfenpyrad	107	106	P/P	60 - 150
Triclopyr	95.3	75.5	P/P	50 - 150

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A124845
Included Lab Sample IDs: 2476028

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	100	P/P	90 - 110
Iron	99.6	98.9	P/P	90 - 110
Magnesium	98.8	98.2	P/P	90 - 110
Potassium	104	105	P/P	90 - 110
Strontium	102	102	P/P	90 - 110
Tin	104	101	P/P	90 - 110
Titanium	100	101	P/P	90 - 110
Vanadium	100	99.1	P/P	90 - 110
Zinc	102	102	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A124847
Included Lab Sample IDs: 2476027, 2476028

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	104	104	P/P	90 - 110
Aluminum	104	102	P/P	90 - 110
Antimony	102	103	P/P	90 - 110
Antimony	102	100	P/P	90 - 110
Arsenic	100	100	P/P	90 - 110
Arsenic	96.7	98.1	P/P	90 - 110
Barium	103	104	P/P	90 - 110
Barium	104	104	P/P	90 - 110
Beryllium	100	98.5	P/P	90 - 110
Beryllium	100	99.2	P/P	90 - 110
Boron	102	99.9	P/P	90 - 110
Boron	99.9	98.7	P/P	90 - 110
Cadmium	101	99.9	P/P	90 - 110
Cadmium	101	101	P/P	90 - 110
Chromium	101	102	P/P	90 - 110
Chromium	102	103	P/P	90 - 110
Cobalt	103	103	P/P	90 - 110
Cobalt	97.8	98.7	P/P	90 - 110
Copper	102	102	P/P	90 - 110
Copper	96.4	96.4	P/P	90 - 110
Lead	94.9	95.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A124847

Included Lab Sample IDs: 2476027, 2476028

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	95.3	95.4	P/P	90 - 110
Manganese	101	102	P/P	90 - 110
Manganese	103	102	P/P	90 - 110
Molybdenum	99.0	99.6	P/P	90 - 110
Molybdenum	99.6	100	P/P	90 - 110
Nickel	102	102	P/P	90 - 110
Nickel	95.9	96.5	P/P	90 - 110
Selenium	103	104	P/P	90 - 110
Selenium	104	102	P/P	90 - 110
Silver	100	99.5	P/P	90 - 110
Silver	99.3	101	P/P	90 - 110
Thallium	99.1	99.5	P/P	90 - 110
Thallium	99.4	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A124849

Included Lab Sample IDs: 2476007, 2476009, 2476013

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124860

Included Lab Sample IDs: 2476007

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A124866

Included Lab Sample IDs: 2476028

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sodium	98.9	100	P/P	95 - 105

Reference Method: SM 2320 B-2011

Run ID: A124874

Included Lab Sample IDs: 2476006, 2476008, 2476010, 2476012

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.0	97.1	P/P	90 - 110
Total Alkalinity	96.1	96.9	P/P	90 - 110
Total Alkalinity	96.9	95.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A124874

Included Lab Sample IDs: 2476006, 2476008, 2476010

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

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A124874

Included Lab Sample IDs: 2476006, 2476008, 2476010

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

Reference Method: SM 5310 B-2014

Run ID: A124877

Included Lab Sample IDs: 2476007, 2476009

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A124879

Included Lab Sample IDs: 2476027

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	103	P/P	90 - 110
Iron	100	101	P/P	90 - 110
Magnesium	101	102	P/P	90 - 110
Potassium	99.3	101	P/P	90 - 110
Sodium	98.3	98.9	P/P	90 - 110
Strontium	98.2	98.0	P/P	90 - 110
Tin	101	101	P/P	90 - 110
Titanium	101	101	P/P	90 - 110
Vanadium	99.1	99.2	P/P	90 - 110
Zinc	98.8	98.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A124880

Included Lab Sample IDs: 2476012

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A124892

Included Lab Sample IDs: 2476007, 2476009, 2476013

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124898

Included Lab Sample IDs: 2476009, 2476013

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.6	98.5	P/P	90 - 110
Kjeldahl Nitrogen	98.5	98.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A124899
Included Lab Sample IDs: 2476011

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

Reference Method: EPA 8321B
Run ID: A124914
Included Lab Sample IDs: 2476022

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	101	103	P/P	60 - 150
Aldicarb	101	104	P/P	60 - 150
Aldicarb Sulfone	94.3	99.0	P/P	50 - 150
Aldicarb Sulfoxide	95.0	97.7	P/P	50 - 150
Bentazon	127	114	P/P	50 - 160
Carbaryl	98.9	99.1	P/P	60 - 150
Carbofuran	100	101	P/P	50 - 150
Methiocarb	96.0	97.7	P/P	50 - 150
Methomyl	102	99.9	P/P	50 - 150
Oxamyl	99.2	95.7	P/P	50 - 150
Propoxur	101	100	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A124928
Included Lab Sample IDs: 2476007, 2476009

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A124932
Included Lab Sample IDs: 2476011

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	98.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A124942
Included Lab Sample IDs: 2476011, 2476013

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	98.5	P/P	90 - 110
Total-P	98.2	99.2	P/P	90 - 110

Reference Method: SM 5310 B-2014
Run ID: A124956
Included Lab Sample IDs: 2476013

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.4	100	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124958
Included Lab Sample IDs: 2476025

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A124972
Included Lab Sample IDs: 2476011

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

Reference Method: EPA 8270E
Run ID: A124983
Included Lab Sample IDs: 2476025

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124983
Included Lab Sample IDs: 2476025

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Difenoconazole	101		P	80 - 120
Dimethenamid	98.2		P	80 - 120
Dimethomorph	86.2		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	99.7		P	80 - 120
Ethion	89.1		P	80 - 120
Ethoprop	95.7		P	80 - 120
Etridiazole	108		P	80 - 120
Fenamiphos	88.4		P	80 - 120
Fenbuconazole	89.6		P	80 - 120
Fipronil	87.7		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	89.2		P	80 - 120
Fipronil Sulfone	92.4		P	80 - 120
Fluazifop-P-butyl	84.1		P	80 - 120
Fludioxonil	114		P	80 - 120
Flumioxazin	104		P	80 - 120
Flutolanil	98.2		P	80 - 120
Fluxapyroxad	96.9		P	80 - 120
Fonofos	90.9		P	80 - 120
Hexazinone	97.0		P	80 - 120
Imazalil	98.4		P	80 - 120
Iprodione	92.7		P	80 - 120
Loratadine	87.3		P	80 - 120
Malathion	85.4		P	80 - 120
Metalaxyl	87.3		P	80 - 120
Metolachlor	98.7		P	80 - 120
Metribuzin	105		P	80 - 120
Mevinphos	97.9		P	80 - 120
Molinate	90.0		P	80 - 120
Myclobutanil	84.6		P	80 - 120
Naled	95.0		P	80 - 120
Napropamide	96.3		P	80 - 120
Norflurazon	98.0		P	80 - 120
Oxadiazon	95.0		P	80 - 120
Oxyfluorfen	107		P	80 - 120
Parathion Ethyl	99.8		P	80 - 120
Parathion Methyl	82.7		P	80 - 120
Pendimethalin	99.8		P	80 - 120
Phenytoin	103		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	120		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	87.7		P	80 - 120
Pronamide	98.4		P	80 - 120
Propanil	99.0		P	80 - 120
Propargite	91.4		P	80 - 120
Propiconazole	81.4		P	80 - 120
Pyraflufen Ethyl	100		P	80 - 120
Pyridaben	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124983
Included Lab Sample IDs: 2476025

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyriproxyfen	95.7		P	80 - 120
Simazine	87.6		P	80 - 120
Stirophos	105		P	80 - 120
Sulfentrazone	104		P	80 - 120
Tebuconazole	98.1		P	80 - 120
Terbufos	96.6		P	80 - 120
Terbuthylazine	84.3		P	80 - 120
Thiobencarb	99.5		P	80 - 120
Triadimefon	102		P	80 - 120

Reference Method: EPA 8276
Run ID: A125009
Included Lab Sample IDs: 2476024, 2476026

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

Reference Method: EPA 8270E
Run ID: A125011
Included Lab Sample IDs: 2476024, 2476026

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A125011

Included Lab Sample IDs: 2476024, 2476026

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-Chlordane	98.9		P	80 - 120
Heptachlor	100		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	100		P	80 - 120
Kepone	60.8*		F	80 - 120
Lambda-Cyhalothrin	95.4		P	80 - 120
Methoprene	101		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	101		P	80 - 120
Mirex	102		P	80 - 120
Oxychlordane	99.3		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	99.4		P	80 - 120
Piperonyl Butoxide	98.2		P	80 - 120
Prallethrin	99.2		P	80 - 120
Tau-Fluvalinate	94.3		P	80 - 120
Tetramethrin	98.2		P	80 - 120
Trans-Nonachlor	99.7		P	80 - 120
Triclosan Methyl	102		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8270E

Run ID: A125015

Included Lab Sample IDs: 2476024, 2476026

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A125018

Included Lab Sample IDs: 2476006, 2476008, 2476010, 2476012

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

Reference Method: SM 5310 B-2014

Run ID: A125084

Included Lab Sample IDs: 2476011

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	124	100	P/P	70 - 130

* 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)	94.4				5.60	
	Color (true)	98.6				6.93	
EPA 180.1 Rev. 2.0	Turbidity	102				1.85	
EPA 200.7 Rev. 4.4	Calcium	108	105	103			0.381
	Calcium	102					1.22
	Iron	113	110	108	111		0.742
	Iron	102	97.6	97.7			0.0659
	Magnesium	114	110	108	102		0.854
	Magnesium	98.8					2.13
	Potassium	104	102	101	100		1.50
	Potassium	101					2.25
	Sodium	103	101	106			0.372
	Sodium	102					3.75
	Strontium	101	98.9	98.6	100		0.321
	Strontium	102					0.495
	Tin	101	97.6	96.7	99.5		0.901
	Tin	99.1	77.9	79.2			1.65
	Titanium	103	100	101	102		0.992
	Titanium	101	101	100			0.545
	Vanadium	101	101	99.8	98.5		0.943
	Vanadium	101	103	104			1.26
	Zinc	99.8	98.3	97.5	95.7		0.794
	Zinc	105	105	105			0.349
EPA 200.8 Rev. 5.4	Aluminum	103	97.7	102	103		3.15
	Aluminum	104	108	110			2.03
	Antimony	104	105	107	109		2.46
	Antimony	107	105	105			0.375
	Arsenic	99.0	99.1	101	101		2.03
	Arsenic	100	108	109			1.06
	Barium	104	104	108	108		2.59
	Barium	106	103	104			0.702
	Beryllium	102	101	105	99.2		4.25
	Beryllium	98.6	93.1	90.1			3.32
	Boron	106	107	108	107		0.569
	Boron	107	111	117			0.702
	Cadmium	102	103	106	106		3.25
	Cadmium	105	94.8	99.4			4.65
	Chromium	106	106	108	114		1.83
	Chromium	107	99.2	99.5			0.275
	Cobalt	102	101	103	101		2.24
	Cobalt	102	109	107			2.10
	Copper	98.8	96.8	100	98.4		3.42
	Copper	97.8	104	111			5.38
	Lead	94.4	95.0	96.9	96.6		1.91
	Lead	96.1	100	102			1.13
	Manganese	104	101	110	107		2.92
	Manganese	105	93.6	94.7			1.10
	Molybdenum	98.8	101	102	104		1.20
	Molybdenum	101	111	112			0.631
	Nickel	98.6	98.8	101	98.8		2.61
	Nickel	99.4	106	106			0.0196
	Selenium	102	103	105	104		1.90
	Selenium	103	104	103			1.41
	Silver	100	102	103	103		1.79

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 200.8 Rev. 5.4	Silver	102	91.6	91.3	99.3		0.239
	Thallium	95.2	96.5	98.9			2.49
	Thallium	98.6	100	102			1.24
EPA 300.0 Rev. 2.1	Chloride	107	105	107		0.422	
	Sulfate	108	104	106		0.319	
EPA 350.1 Rev. 2.0	Ammonia-N	94.8	99.6	100			0.401
	Ammonia-N	94.8	99.6	101			0.900
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	107	102			2.52
	Kjeldahl Nitrogen	95.8	103	106			1.63
	Kjeldahl Nitrogen	99.7	104	103			0.850
EPA 353.2 Rev. 2.0	NO2NO3-N	100	98.0	98.0			0.0
	NO2NO3-N	99.5	95.6	95.2			0.414
	NO2NO3-N	98.0	91.5	93.0			1.63
EPA 365.1 Rev. 2.0	Total-P	103	99.7	101			1.49
	Total-P	100	103	104			0.613
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	56.3	80.3	51.4			43.9
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.4	86.5	80.4			7.27
	Acetochlor	92.6	88.1	82.1			7.03
	Alachlor	72.9	73.6	76.1			3.45
	Aldrin	88.5	45.8	50.0			8.79
	Alpha-BHC	91.6	77.3	83.8			8.06
	Alpha-Chlordane	103	67.6	79.6			16.4
	Ametryn	115	108	99.6			6.52
	Atrazine	91.9					2.97
	Atrazine Desethyl	83.0					1.37
	Avobenzone	106	124	115			7.31
	Azinphos Methyl	173	180	179			0.770
	Azoxystrobin	88.7	88.9	105			13.9
	Beta-BHC	99.6	95.5	95.3			0.142
	Beta-Cyfluthrin	96.3	90.2	102			12.4
	Bifenthrin	90.1	66.1	75.9			13.8
	Bromacil	92.9	96.4	81.4			10.6
	Butylate	53.5	51.5	56.6			9.35
	Caffeine	97.6	83.4	102			13.2
	Carbophenothion	124	110	86.3			24.2
	Carfentrazone Ethyl	136	122	94.7			25.5
	Chlorfenapyr	90.3	103	100			3.01
	Chlorothalonil	71.4	88.1	76.9			13.5
	Chlorpyrifos Ethyl	77.5	75.5	75.8			0.367
	Chlorpyrifos Methyl	99.8	101	102			0.971
	Cis-Nonachlor	86.4	49.1	58.4			17.2
	Coumaphos	122	136	129			4.96
	Cyanazine	121	126	130			2.59
	Cypermethrin	90.0	80.9	94.6			15.6
	Cyprodinil	93.9	119	93.8			23.6
	Dacthal	107	73.9	78.4			5.82
	DDD-p,p'	97.4	63.7	67.3			5.53
	DDE-p,p'	82.2	48.3	59.9			21.5
	DDT-p,p'	85.9	61.7	69.0			11.2
	Dechlorane 602	70.3	68.1	56.9			18.1
	Dechlorane 603	70.8	66.1	52.7			22.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Dechlorane Plus	66.6	59.2	49.4		18.0
	Delta-BHC	110	113	104		8.73
	Deltamethrin	91.2	106	116		9.42
	Demeton	66.8	73.8	72.1		2.42
	Diazinon	105	101	86.9		14.9
	Dichlobenil	76.3	35.1	38.8		9.96
	Dicofol	82.1	58.2	64.4		10.0
	Dieldrin	107	68.2	78.9		14.5
	Difenoconazole	155	164	189		14.4
	Dimethenamid	101	93.4	92.8		0.599
	Dimethomorph	91.7	88.9	122		31.3
	Disulfoton	95.3	97.4	87.4		10.9
	Dithiopyr	85.4	98.2	89.5		8.23
	Endosulfan I	83.9	54.2	62.1		13.5
	Endosulfan II	87.3	58.4	61.0		4.28
	Endosulfan Sulfate	115	90.0	86.2		4.24
	Endrin	86.5	52.2	61.5		16.5
	Endrin Aldehyde	110	60.7	68.2		11.7
	Endrin Ketone	125	97.2	94.2		3.07
	EPTC	47.8	45.1	48.6		7.67
	Esfenvalerate	90.5	101	108		6.74
	Ethalfuralin	80.5	63.3	68.4		7.79
	Ethion	82.2	81.7	65.0		22.8
	Ethoprop	75.5	87.3	89.5		2.45
	Etridiazole	64.7	70.4	57.6		19.9
	Fenamiphos	95.5	73.8	73.2		0.825
	Fenbuconazole	98.4	98.8	88.1		11.4
	Fenpropathrin	93.6	61.7	75.9		20.6
	Fipronil	74.4	107	72.3		29.7
	Fipronil Desulfinyl	68.7	57.9	99.4		32.8
	Fipronil Sulfide	61.1	76.0	71.9		3.03
	Fipronil Sulfone	77.2				15.2
	Fluazifop-P-butyl	85.5	92.0	83.1		10.2
	Fludioxonil	94.5	94.4	97.7		3.42
	Flumioxazin	83.1	86.1	96.6		9.71
	Flutolanil	97.0	94.5	94.0		0.574
	Fluxapyroxad	97.6	96.7	78.1		18.4
	Fonofos	74.9	84.3	87.4		3.67
	Gamma-BHC	88.7	76.9	86.3		11.6
	Gamma-Chlordane	101	63.0	67.0		6.26
	Heptachlor	72.7	47.3	56.6		18.0
	Heptachlor Epoxide	84.8	50.3	60.8		18.9
	Hexabromobenzene	49.4	62.3	75.1		18.6
	Hexachlorobenzene	89.3	61.5	68.6		10.9
	Hexazinone	94.1	93.4	88.3		4.64
	Imazalil	86.8	94.8	85.4		10.4
	Iprodione	110	120	94.8		23.1
	Kepone	149	139	113		20.3
	Lambda-Cyhalothrin	115	98.3	111		11.9
	Loratadine	162	166	173		4.13
	Malathion	101	99.7	104		3.97
	Metalaxyl	81.3	82.9	80.4		3.05
	Methoprene	84.8	53.3	60.1		12.0
	Methoxychlor	95.8	74.2	81.7		9.65

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Metolachlor	91.1				4.13
	Metribuzin	68.6	93.7	87.4		6.97
	Mevinphos	83.0	92.8	95.3		2.70
	MGK-264	88.2	53.4	62.3		15.4
	Mirex	83.4	46.2	58.6		23.7
	Molinate	57.0	59.6	63.5		6.19
	Myclobutanil	80.5	93.4	86.7		4.63
	Naled	78.3	83.8	77.7		7.57
	Napropamide	87.8	101	82.3		20.7
	Norflurazon	111	104	79.5		26.9
	Octinoxate	76.8	78.6	81.6		3.84
	Oxadiazon	71.7	76.0	71.8		4.86
	Oxybenzone	87.1	88.1	95.9		8.50
	Oxychlordane	84.3	61.9	73.6		17.2
	Oxyfluorfen	112	112	112		0.402
	Parathion Ethyl	92.5	106	97.1		9.13
	Parathion Methyl	95.5	83.8	99.4		17.1
	PBB-153	70.7	81.0	73.8		9.27
	PBDE-47	75.0	81.3	70.3		14.6
	PBDE-99	77.9	83.8	72.6		14.4
	PCB-1016	78.8	71.1	66.6		6.52
	PCB-1260	62.7	59.9	56.6		5.64
	Pendimethalin	91.8	109	100		8.28
	Pentabromotoluene	68.4	72.5	74.7		2.92
	Permethrin	91.7	84.9	101		17.0
	Phenothrin	91.7	68.7	68.5		0.253
	Phenytoin	39.5	82.8	54.4		41.4
	Phorate	81.8	89.1	91.8		2.99
	Piperonyl Butoxide	114	106	102		4.06
	Prallethrin	91.2	53.6	56.5		5.36
	Prodiamine	39.3	70.6	65.6		5.62
	Prometon	93.0	118	110		6.42
	Prometryn	95.6	105	121		13.9
	Pronamide	108	110	99.0		10.4
	Propanil	110	118	100		16.0
	Propargite	86.7	88.9	61.3		36.8
	Propiconazole	85.7	96.4	91.0		3.15
	Pyraflufen Ethyl	91.8	87.2	79.8		8.81
	Pyridaben	138	151	143		5.57
	Pyriproxyfen	95.4	95.5	71.4		29.0
	Simazine	93.7				1.93
	Stirophos	104	114	90.4		23.4
	Sulfentrazone	61.4				11.0
	Tau-Fluvalinate	92.3	106	113		6.59
	Tebuconazole	81.4	97.3	60.4		46.7
	Terbufos	81.3	85.5	92.6		8.00
	Terbutylazine	74.0	79.3	81.9		3.23
	Tetradecachloro-m-terphenyl	58.1	66.4	62.7		5.68
	Tetramethrin	100	69.0	74.4		7.53
	Thiobencarb	102	98.6	89.5		9.68
	Trans-Nonachlor	100	61.4	66.6		8.07
	Tri-o-cresyl Phosphate	74.3	102	76.8		28.2
	Triadimefon	94.9	91.5	80.1		12.0
	Triclosan Methyl	86.0	51.3	62.7		20.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Trifluralin	90.3	58.0	66.9			14.3
	Tris(1-chloro-2-propyl) phosphate (TCPP)	73.8	88.3	72.4			16.6
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	73.8	97.9	75.1			24.7
	Tris(2-chloroethyl) phosphate (TCEP)	79.8	105	86.9			19.0
EPA 8276	Chlordane	83.1	81.1	70.6			13.9
	Toxaphene	89.0	86.2	76.9			11.4
EPA 8321B	2,4-D	106	100	115			14.1
	2,4,5-T	93.0	78.3	89.3			13.2
	3-Hydroxycarbofuran	55.2	68.6	60.5			12.4
	Acesulfame K	100	101	102			0.851
	Acetaminophen	80.4	76.2	79.2			2.86
	Acetamiprid	84.2	84.5	93.7			10.4
	Afidopyropen	68.3	84.3	85.6			1.55
	Aldicarb	47.5	46.3	50.1			7.85
	Aldicarb Sulfone	80.2	59.6	60.8			2.03
	Aldicarb Sulfoxide	103	26.7	25.7			3.82
	AMPA	98.6	91.1	90.1			1.05
	Bentazon	115	98.3	113			14.2
	Benzovindiflupyr	89.9	86.1	94.7			9.58
	Carbamazepine	81.9	78.1	82.9			5.90
	Carbaryl	77.6	65.2	58.2			10.6
	Carbofuran	73.7	56.3	56.6			0.557
	Clothianidin	96.6	86.2	100			15.2
	Dinotefuran	101	94.3	99.4			5.26
	Diuron	78.6	84.8	82.2			3.16
	Endothall	86.1	88.5	85.1			3.90
	Fenuron	96.1	85.0	96.7			12.8
	Fluridone	89.2	87.4	99.1			12.5
	Glufosinate	87.7	95.0	97.3			2.32
	Glyphosate	97.9	93.8	98.8			5.18
	Hydrocodone	88.9	87.3	95.2			8.61
	Ibuprofen	99.3	57.8	51.0			12.5
	Imazapyr	104	102	105			2.68
	Imidacloprid	94.8	85.9	98.3			13.5
	Linuron	74.7	77.6	92.8			17.8
	Mandestrobin	96.4	90.2	96.9			7.13
	MCPP	99.3	92.3	95.0			2.91
	Methiocarb	72.9	81.8	68.7			17.4
	Methomyl	81.8	61.7	61.5			0.184
	Naproxen	71.5	74.6	78.1			4.64
	Oxamyl	84.5	65.9	65.9			0.0519
	Primidone	96.8	82.4	91.5			10.5
	Propoxur	60.6	48.1	41.5			14.6
	Pyraclostrobin	91.5	86.8	95.9			9.95
	Silvex	103	96.2	102			6.09
	Sucralose	100	99.2	101			2.05
	Thiamethoxam	97.9	90.3	96.8			6.95
	Tolfenpyrad	57.4	53.9	60.9			12.2
	Triclopyr	102	84.2	86.7			2.93
SM 2320 B-2011	Total Alkalinity	98.1				2.50	
	Total Alkalinity	100				3.82	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 2320 B-2011	Total Alkalinity	102			2.75	
SM 2540 C-2015	TDS	94.8			0.587	
	TDS	102			2.92	
SM 2540 D-2015	TSS	102				
	TSS	102				
	TSS	109				
SM 4500-F- C-2011	Fluoride	97.1	98.8	98.8		0.0
	Fluoride	97.6	98.7	100		0.960
	Fluoride	97.5				0.516
SM 5310 B-2014	Organic Carbon	99.9				1.02
	Organic Carbon	98.1	98.6	99.8		0.933
	Organic Carbon	96.6	95.4	94.0		1.10

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2476006, 2476008, 2476010, 2476012
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2476006, 2476008, 2476010, 2476012
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2476027, 2476028
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2476027, 2476028
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2476006, 2476008, 2476010, 2476012
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2476006, 2476008, 2476010, 2476012
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2476007, 2476009, 2476011, 2476013
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2476007, 2476009, 2476011, 2476013
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2476007, 2476009, 2476011, 2476013
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2476007, 2476009, 2476011, 2476013
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2476025
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2476024, 2476026
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2476025
EPA 8270E	PCBs in water matrices by GC/MS/MS	2476024, 2476026
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2476024, 2476026
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2476022
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2476023
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2476006, 2476008, 2476010, 2476012
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2476027, 2476028
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2476006, 2476008, 2476010, 2476012
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2476006, 2476008, 2476010, 2476012
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2476006, 2476008, 2476010, 2476012
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2476007, 2476009, 2476011, 2476013

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	03/15/2024			03/15/2024 14:34	Samantha L Bates	2476006
	03/15/2024			03/15/2024 14:37	Samantha L Bates	2476008, 2476010
	03/15/2024			03/15/2024 14:38	Samantha L Bates	2476012
	03/15/2024			03/15/2024 14:09	Khloe J Berg	2476006
EPA 180.1 Rev. 2.0	03/15/2024			03/15/2024 14:11	Khloe J Berg	2476008
	03/15/2024			03/15/2024 14:14	Khloe J Berg	2476010
	03/15/2024			03/15/2024 14:17	Khloe J Berg	2476012
	03/15/2024			03/15/2024 14:17	Khloe J Berg	2476012
EPA 200.7 Rev. 4.4	03/15/2024	03/18/2024 13:15	George D Taylor	03/20/2024 17:38	Conrad Hartmann	2476027
	03/15/2024	03/18/2024 13:25	George D Taylor	03/19/2024 19:57	Chase Roberts	2476028
	03/15/2024	03/18/2024 13:25	George D Taylor	03/19/2024 21:10	Chase Roberts	2476028
	03/15/2024	03/18/2024 13:25	George D Taylor	03/20/2024 13:45	Chase Roberts	2476028
EPA 200.8 Rev. 5.4	03/15/2024	03/18/2024 13:15	George D Taylor	03/19/2024 19:52	Emily M Philpot	2476027
	03/15/2024	03/18/2024 13:25	George D Taylor	03/19/2024 21:46	Emily M Philpot	2476028
	03/15/2024	03/18/2024 13:25	George D Taylor	03/19/2024 23:11	Emily M Philpot	2476028
EPA 300.0 Rev. 2.1	03/15/2024			03/26/2024 15:10	Samantha L Bates	2476006
	03/15/2024			03/26/2024 15:25	Samantha L Bates	2476008
	03/15/2024			03/26/2024 15:41	Samantha L Bates	2476010
	03/15/2024			03/26/2024 15:56	Samantha L Bates	2476012
EPA 350.1 Rev. 2.0	03/15/2024			03/21/2024 14:12	Khloe J Berg	2476007
	03/15/2024			03/21/2024 14:14	Khloe J Berg	2476009
	03/15/2024			03/21/2024 14:15	Khloe J Berg	2476013
	03/15/2024			03/22/2024 12:06	Ping Hua	2476011
EPA 351.2 Rev. 2.0	03/15/2024	03/18/2024 12:02	Simonne.V. Calhoun	03/20/2024 11:57	Samantha L Bates	2476007
	03/15/2024	03/20/2024 11:28	Robyn Blevins	03/21/2024 12:04	Robyn Blevins	2476009
	03/15/2024	03/20/2024 11:28	Robyn Blevins	03/21/2024 12:12	Robyn Blevins	2476013
	03/15/2024	03/21/2024 11:05	Simonne.V. Calhoun	03/25/2024 12:02	Samantha L Bates	2476011
EPA 353.2 Rev. 2.0	03/15/2024			03/19/2024 15:12	Fadila Guebre	2476007
	03/15/2024			03/19/2024 15:13	Fadila Guebre	2476009
	03/15/2024			03/19/2024 15:28	Fadila Guebre	2476013
	03/15/2024			03/21/2024 12:40	Fadila Guebre	2476011
EPA 365.1 Rev. 2.0	03/15/2024	03/21/2024 15:05	Josephine W Gitau	03/22/2024 11:40	Elise M. Gillis	2476009
	03/15/2024	03/21/2024 15:05	Josephine W Gitau	03/22/2024 11:44	Elise M. Gillis	2476007
	03/15/2024	03/21/2024 15:05	Josephine W Gitau	03/22/2024 16:00	Elise M. Gillis	2476011
	03/15/2024	03/21/2024 15:05	Josephine W Gitau	03/22/2024 16:35	Elise M. Gillis	2476013
EPA 8270E	03/15/2024	03/18/2024 07:00	Rasheda Ghaffari	03/21/2024 20:55	Julie Wi	2476025
	03/15/2024	03/18/2024 07:00	Rasheda Ghaffari	03/24/2024 01:38	Arthur Maknenko	2476025
	03/15/2024	03/21/2024 07:57	Rasheda Ghaffari	03/23/2024 05:48	Kenedi Mills	2476024
	03/15/2024	03/21/2024 07:57	Rasheda Ghaffari	03/23/2024 06:21	Kenedi Mills	2476026
	03/15/2024	03/21/2024 07:57	Rasheda Ghaffari	03/26/2024 05:30	Kenedi Mills	2476024
	03/15/2024	03/21/2024 07:57	Rasheda Ghaffari	03/26/2024 05:59	Kenedi Mills	2476026

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8276	03/15/2024	03/21/2024 07:57	Rasheda Ghaffari	03/24/2024 15:38	Arthur Maknenko	2476024
	03/15/2024	03/21/2024 07:57	Rasheda Ghaffari	03/24/2024 16:34	Arthur Maknenko	2476026
EPA 8321B	03/15/2024	03/15/2024 13:00	Hoor Shaik	03/16/2024 03:30	Juyoung Kim	2476023
	03/15/2024	03/15/2024 13:00	Hoor Shaik	03/20/2024 21:35	Juyoung Kim	2476023
	03/15/2024	03/15/2024 13:50	Hana Lee	03/15/2024 21:16	Hana Lee	2476023
	03/15/2024	03/15/2024 13:50	Hana Lee	03/18/2024 16:21	Hana Lee	2476023
	03/15/2024	03/19/2024 09:00	Hoor Shaik	03/21/2024 02:02	Juyoung Kim	2476022
SM 2320 B-2011	03/15/2024			03/20/2024 03:19	Dale L. Simmons	2476006
	03/15/2024			03/20/2024 03:32	Dale L. Simmons	2476008
	03/15/2024			03/20/2024 07:18	Dale L. Simmons	2476010
	03/15/2024			03/20/2024 09:05	Dale L. Simmons	2476012
SM 2340 B-2011	03/15/2024			03/19/2024 21:10	Chase Roberts	2476028
	03/15/2024			03/20/2024 17:38	Conrad Hartmann	2476027
SM 2540 C-2015	03/15/2024			03/19/2024 14:07	Yijie Li	2476006, 2476008, 2476010, 2476012
SM 2540 D-2015	03/15/2024			03/19/2024 14:07	Yijie Li	2476006, 2476008, 2476010, 2476012
SM 4500-F- C-2011	03/15/2024			03/20/2024 03:19	Dale L. Simmons	2476006
	03/15/2024			03/20/2024 03:32	Dale L. Simmons	2476008
	03/15/2024			03/20/2024 05:51	Dale L. Simmons	2476010
	03/15/2024			03/20/2024 19:21	Dale L. Simmons	2476012
SM 5310 B-2014	03/15/2024			03/20/2024 13:35	Jessica K Wilks	2476007
	03/15/2024			03/20/2024 13:49	Jessica K Wilks	2476009
	03/15/2024			03/22/2024 04:05	Jessica K Wilks	2476013
	03/15/2024			03/30/2024 07:57	Jessica K Wilks	2476011