

Chemical Analysis Report

SE-DIST-2024-02-08-01

Florida DEP Laboratory
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DOH Accreditation E31780

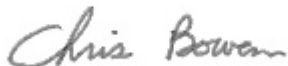
Event Description: **SMP - Palm Beach/Broward**
Request ID: **RQ-2024-02-05-24**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 06-MAR-2024 10:51



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: ICWW SOUTH OF HILLSBORO BLVD

Collection Date/Time: 02/07/2024 13:30

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2467190	DEP SOP: NU-094-1	Color (true)	32	A	PCU	P441149	
	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P441144	
	EPA 300.0 Rev. 2.1	Chloride	9.0E+03		mg Cl/L	P441881	
		Sulfate	1.4E+03		mg SO4/L	P441846	
	SM 2320 B-2011	Total Alkalinity	117		mg CaCO3/L	P441620	
	SM 2540 C-2015	TDS	1.55E+04		mg/L	P441653	
	SM 2540 D-2015	TSS	3	UA	mg/L	P441545	
	SM 4500-F- C-2011	Fluoride	0.68		mg F/L	P441625	
2467191	EPA 350.1 Rev. 2.0	Ammonia-N	0.029		mg N/L	P441226	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.49		mg N/L	P441264	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.036		mg N/L	P441247	
	EPA 365.1 Rev. 2.0	Total-P	0.029		mg P/L	P441357	
	SM 5310 B-2014	Organic Carbon	9.1		mg C/L	P441408	
2467212	EPA 8270E	Aldrin	0.66	U	ng/L	P441041	
		Alpha-BHC	0.10	U	ng/L	P441041	
		Alpha-Chlordane	0.20	U	ng/L	P441041	
		PCB-1016	2.0	U	ng/L	P441041	
		Beta-BHC	0.10	U	ng/L	P441041	
		PCB-1221	2.0	U	ng/L	P441041	
		Beta-Cyfluthrin	1.3	U	ng/L	P441041	
		PCB-1232	2.0	U	ng/L	P441041	
		Bifenthrin	0.51	U	ng/L	P441041	
		PCB-1242	2.0	U	ng/L	P441041	
		PCB-1248	2.0	U	ng/L	P441041	
		Chlorothalonil	3.6	U	ng/L	P441041	
		PCB-1254	2.0	U	ng/L	P441041	
		Cis-Nonachlor	0.20	U	ng/L	P441041	
		PCB-1260	2.0	U	ng/L	P441041	
		Cypermethrin	1.5	U	ng/L	P441041	
		Dacthal	0.15	U	ng/L	P441041	
		DDD-p,p'	0.25	U	ng/L	P441041	
		DDE-p,p'	0.20	U	ng/L	P441041	
		DDT-p,p'	0.81	U	ng/L	P441041	
		Delta-BHC	0.40	U	ng/L	P441041	
		Deltamethrin	1.3	U	ng/L	P441041	
		Dichlobenil	0.25	U	ng/L	P441041	
		Dicofol	1.3	UJ	ng/L	P441041	CCV
		Diieldrin	0.40	U	ng/L	P441041	
		Endosulfan I	0.40	UJ	ng/L	P441041	LCS, MS
		Endosulfan II	0.91	U	ng/L	P441041	
		Endosulfan Sulfate	0.30	U	ng/L	P441041	
		Endrin	0.91	U	ng/L	P441041	
		Endrin Aldehyde	0.76	U	ng/L	P441041	
		Endrin Ketone	0.40	U	ng/L	P441041	MS

Field ID: G4SE0147

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2467212	EPA 8270E	Esfenvalerate	0.76	U	ng/L	P441041	
		Ethalfuralin	0.15	U	ng/L	P441041	
		Fenpropathrin	0.25	U	ng/L	P441041	
		Gamma-BHC	0.13	UJ	ng/L	P441041	LCS
		Gamma-Chlordane	0.20	U	ng/L	P441041	MS
		Heptachlor	0.20	U	ng/L	P441041	
		Heptachlor Epoxide	0.25	UJ	ng/L	P441041	LCS, MS
		Hexachlorobenzene**	1.0	U	ng/L	P441041	
		Kepone	14	U	ng/L	P441041	
		Lambda-Cyhalothrin	0.76	U	ng/L	P441041	
		Methoprene	0.76	U	ng/L	P441041	
		Methoxychlor	0.30	U	ng/L	P441041	
		MGK-264	0.20	U	ng/L	P441041	
		Mirex	0.35	U	ng/L	P441041	
		Oxychlordane	0.30	UJ	ng/L	P441041	LCS, MS
		Permethrin	1.6	U	ng/L	P441041	
		Phenothrin	0.91	U	ng/L	P441041	
		Piperonyl Butoxide	0.76		ng/L	P441041	
		Prallethrin	2.0	U	ng/L	P441041	
		Tau-Fluvalinate	0.25	U	ng/L	P441041	
		Tetramethrin	0.76	U	ng/L	P441041	
		Trans-Nonachlor	0.20	U	ng/L	P441041	
		Triclosan Methyl	0.15	U	ng/L	P441041	MS
		Trifluralin	0.20	U	ng/L	P441041	
	EPA 8276	Chlordane	2.0	U	ng/L	P441041	
		Toxaphene	15	U	ng/L	P441041	

Ref. Method and Comment:
 EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.
 SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
 EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: E 1 WEST AT GLADES

Collection Date/Time: 02/07/2024 14:10

Field ID: G3SE0033

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2467186	DEP SOP: NU-094-1	Color (true)	32		PCU	P441149	
	EPA 180.1 Rev. 2.0	Turbidity	3.6		NTU	P441144	
	EPA 300.0 Rev. 2.1	Chloride	33		mg Cl/L	P441881	
		Sulfate	58		mg SO4/L	P441846	
	SM 2320 B-2011	Total Alkalinity	181		mg CaCO3/L	P441619	
	SM 2540 C-2015	TDS	329		mg/L	P441653	
	SM 2540 D-2015	TSS	4	I	mg/L	P441543	
	SM 4500-F- C-2011	Fluoride	0.29		mg F/L	P441623	MS
2467187	EPA 350.1 Rev. 2.0	Ammonia-N	0.096		mg N/L	P441225	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P441268	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.063		mg N/L	P441299	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P441360	
	SM 5310 B-2014	Organic Carbon	11		mg C/L	P441455	
2467215	EPA 200.7 Rev. 4.4	Calcium	96.3		mg/L	P441235	
		Iron	35	I	ug/L	P441235	
		Magnesium	6.08		mg/L	P441235	
		Potassium	11.2		mg/L	P441235	
		Sodium	23.5		mg/L	P441235	
		Strontium	757		ug/L	P441235	
		Tin	3.0	U	ug/L	P441235	
		Titanium	1.6	I	ug/L	P441235	
	EPA 200.8 Rev. 5.4	Vanadium	3.6	I	ug/L	P441235	
		Zinc	5.0	U	ug/L	P441235	
		Aluminum	38		ug/L	P441235	
		Antimony	0.36		ug/L	P441235	
		Arsenic	2.39		ug/L	P441235	
		Barium	18.1		ug/L	P441235	
		Beryllium	0.010	U	ug/L	P441235	
		Boron	61.7		ug/L	P441235	
		Cadmium	0.020	U	ug/L	P441235	
		Chromium	1.3	I	ug/L	P441235	
		Cobalt	0.065	I	ug/L	P441235	
		Copper	2.55		ug/L	P441235	
		Lead	0.20	U	ug/L	P441235	
		Manganese	8.85		ug/L	P441235	
		Molybdenum	1.46		ug/L	P441235	
		Nickel	0.72	I	ug/L	P441235	
		Selenium	0.22	I	ug/L	P441235	
		Silver	0.010	U	ug/L	P441235	
		Thallium	0.10	U	ug/L	P441235	
	SM 2340 B-2011	Hardness	265		mg/L	P441235	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

Sample Location: E 4 AT CLINT MOORE

Collection Date/Time: 02/07/2024 14:40

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Code
2467188	DEP SOP: NU-094-1	Color (true)	70		PCU	P441149	
	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P441144	
	EPA 300.0 Rev. 2.1	Chloride	38		mg Cl/L	P441881	
		Sulfate	9.9		mg SO4/L	P441846	
	SM 2320 B-2011	Total Alkalinity	172		mg CaCO3/L	P441619	
	SM 2540 C-2015	TDS	286		mg/L	P441653	
	SM 2540 D-2015	TSS	3	I	mg/L	P441543	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P441623	M
2467189	EPA 350.1 Rev. 2.0	Ammonia-N	0.19		mg N/L	P441225	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P441268	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10		mg N/L	P441390	
	EPA 365.1 Rev. 2.0	Total-P	0.090		mg P/L	P441361	
	SM 5310 B-2014	Organic Carbon	14		mg C/L	P441455	
2467205	EPA 8321B	Aldicarb	0.020	U	ug/L	P441099	
		Aldicarb Sulfone	0.0020	U	ug/L	P441099	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P441099	M
		Carbaryl	0.0020	U	ug/L	P441099	
		Carbofuran	0.0020	U	ug/L	P441099	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P441099	
		Methiocarb	0.0020	U	ug/L	P441099	
		Methomyl	0.0020	U	ug/L	P441099	
		Oxamyl	0.0020	U	ug/L	P441099	
		Propoxur	0.0020	U	ug/L	P441099	
2467206		2,4-D	0.0026	I	ug/L	P441220	
		Acesulfame K	0.10	U	ug/L	P441101	
		2,4,5-T	0.0040	U	ug/L	P441220	
		AMPA	0.26	I	ug/L	P441101	
		Acetaminophen	0.0080	U	ug/L	P441220	
		Acetamiprid	0.0020	U	ug/L	P441220	
		Endothall	0.25	U	ug/L	P441101	
		Glufosinate	0.10	U	ug/L	P441101	
		Glyphosate	1.0		ug/L	P441101	
		Afidopyropen	0.0020	U	ug/L	P441220	
		Bentazon	0.19		ug/L	P441220	
		Sucralose	0.20		ug/L	P441101	
		Benzovindiflupyr	0.0020	U	ug/L	P441220	
		Carbamazepine	8.0E-04	U	ug/L	P441220	
		Clothianidin	0.0020	U	ug/L	P441220	
		Dinotefuran	0.0020	U	ug/L	P441220	
		Diuron	0.017		ug/L	P441220	
		Fenuron	0.032	U	ug/L	P441220	
		Fluridone	0.059		ug/L	P441220	
		Imazapyr	0.082		ug/L	P441220	
		Hydrocodone	0.0020	U	ug/L	P441220	

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2467206	EPA 8321B	Ibuprofen	0.080	U	ug/L	P441220	
		Imidacloprid	0.0082		ug/L	P441220	
		Linuron	0.0040	U	ug/L	P441220	
		Mandestrobin	0.0020	U	ug/L	P441220	
		MCP	0.0020	U	ug/L	P441220	
		Naproxen	0.0080	U	ug/L	P441220	
		Primidone	0.0040	U	ug/L	P441220	
		Pyraclostrobin	0.0020	U	ug/L	P441220	
		Silvex	0.0040	U	ug/L	P441220	
		Thiamethoxam	0.0020	U	ug/L	P441220	
		Tolfenpyrad	0.0020	U	ug/L	P441220	
		Triclopyr	0.0040	U	ug/L	P441220	
2467210	EPA 8270E	Aldrin	0.66	U	ng/L	P441041	
		Alpha-BHC	0.10	U	ng/L	P441041	
		Alpha-Chlordane	0.20	U	ng/L	P441041	
		PCB-1016	2.0	U	ng/L	P441041	
		Beta-BHC	0.10	U	ng/L	P441041	
		PCB-1221	2.0	U	ng/L	P441041	
		Beta-Cyfluthrin	1.3	U	ng/L	P441041	
		PCB-1232	2.0	U	ng/L	P441041	
		Bifenthrin	0.51	U	ng/L	P441041	
		PCB-1242	2.0	U	ng/L	P441041	
		PCB-1248	2.0	U	ng/L	P441041	
		Chlorothalonil	3.7	U	ng/L	P441041	
		PCB-1254	2.0	U	ng/L	P441041	
		Cis-Nonachlor	0.20	U	ng/L	P441041	
		PCB-1260	2.0	U	ng/L	P441041	
		Cypermethrin	1.5	U	ng/L	P441041	
		Dacthal	0.15	U	ng/L	P441041	
		DDD-p,p'	0.26	U	ng/L	P441041	
		DDE-p,p'	0.20	U	ng/L	P441041	
		DDT-p,p'	0.82	U	ng/L	P441041	
		Delta-BHC	0.41	U	ng/L	P441041	
		Deltamethrin	1.3	U	ng/L	P441041	
		Dichlobenil	0.26	U	ng/L	P441041	
		Dicofol	1.3	UJ	ng/L	P441041	CCV
		Dieldrin	0.41	U	ng/L	P441041	
		Endosulfan I	0.41	UJ	ng/L	P441041	LCS, MS
		Endosulfan II	0.92	U	ng/L	P441041	
		Endosulfan Sulfate	0.31	U	ng/L	P441041	
		Endrin	0.92	U	ng/L	P441041	
		Endrin Aldehyde	0.77	U	ng/L	P441041	
		Endrin Ketone	0.41	U	ng/L	P441041	MS
		Esfenvalerate	0.77	U	ng/L	P441041	
		Ethalfuralin	0.15	U	ng/L	P441041	

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2467210	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P441041	
		Gamma-BHC	0.13	UJ	ng/L	P441041	LCS
		Gamma-Chlordane	0.20	U	ng/L	P441041	MS
		Heptachlor	0.20	U	ng/L	P441041	
		Heptachlor Epoxide	0.26	UJ	ng/L	P441041	LCS, MS
		Hexachlorobenzene**	1.0	U	ng/L	P441041	
		Kepone	14	U	ng/L	P441041	
		Lambda-Cyhalothrin	0.77	U	ng/L	P441041	
		Methoprene	0.77	U	ng/L	P441041	
		Methoxychlor	0.31	U	ng/L	P441041	
		MGK-264	0.20	U	ng/L	P441041	
		Mirex	0.36	U	ng/L	P441041	
		Oxychlordane	0.31	UJ	ng/L	P441041	LCS, MS
		Permethrin	1.6	U	ng/L	P441041	
		Phenothrin	0.92	U	ng/L	P441041	
		Piperonyl Butoxide	0.15	U	ng/L	P441041	
		Prallethrin	2.0	U	ng/L	P441041	
		Tau-Fluvalinate	0.26	U	ng/L	P441041	
		Tetramethrin	0.77	U	ng/L	P441041	
		Trans-Nonachlor	0.20	U	ng/L	P441041	
		Triclosan Methyl	0.15	U	ng/L	P441041	MS
		Trifluralin	0.20	U	ng/L	P441041	
		Chlordane	2.0	U	ng/L	P441041	
		Toxaphene	15	U	ng/L	P441041	
2467211	EPA 8270E	Oxybenzone**	10	U	ng/L	P441143	
		Acetochlor	0.21	U	ng/L	P441143	
		Octinoxate**	150	U	ng/L	P441143	
		Alachlor	0.41	U	ng/L	P441143	
		Avobenzone**	100	U	ng/L	P441143	
		Ametryn	1.3	I	ng/L	P441143	
		Atrazine	12		ng/L	P441143	
		PBDE-47**	4.1	U	ng/L	P441143	
		Atrazine Desethyl	1.3	U	ng/L	P441143	
		PBDE-99**	5.2	U	ng/L	P441143	
		Azinphos Methyl	3.1	U	ng/L	P441143	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P441143	
		Azoxystrobin	0.41	U	ng/L	P441143	
		Bromacil	0.62	U	ng/L	P441143	
		2-Ethylhexyl	12	U	ng/L	P441143	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.46	U	ng/L	P441143	
		Dechlorane Plus**	31	U	ng/L	P441143	
		Caffeine**	9.0	I	ng/L	P441143	
		Dechlorane 602**	5.2	U	ng/L	P441143	
		Carbophenothion	0.52	U	ng/L	P441143	

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2467211	EPA 8270E	Dechlorane 603**	4.1	U	ng/L	P441143	
		Carfentrazone Ethyl	0.15	U	ng/L	P441143	
		Hexabromobenzene**	6.2	U	ng/L	P441143	
		Chlorfenapyr	0.31	U	ng/L	P441143	
		PBB-153**	6.2	U	ng/L	P441143	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P441143	
		Pentabromotoluene**	3.1	U	ng/L	P441143	
		Chlorpyrifos Methyl	0.10	U	ng/L	P441143	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	U	ng/L	P441143	RPD
		Coumaphos	1.1	U	ng/L	P441143	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P441143	
		Cyanazine	5.2	U	ng/L	P441143	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.9	I	ng/L	P441143	
		Cyprodinil	0.21	U	ng/L	P441143	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P441143	
		Demeton	3.6	U	ng/L	P441143	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P441143	MS
		Diazinon	0.13	U	ng/L	P441143	
		Difenoconazole	0.62	U	ng/L	P441143	
		Dimethenamid	0.10	U	ng/L	P441143	
		Dimethomorph	0.31	U	ng/L	P441143	
		Disulfoton	0.62	U	ng/L	P441143	
		Dithiopyr	1.0	UJ	ng/L	P441143	CCV, MS
		EPTC	0.52	U	ng/L	P441143	
		Ethion	0.31	U	ng/L	P441143	
		Ethoprop	0.13	U	ng/L	P441143	
		Etridiazole	0.10	U	ng/L	P441143	
		Fenamiphos	0.46	U	ng/L	P441143	MS
		Fenbuconazole	0.52	U	ng/L	P441143	
		Fipronil	0.40	I	ng/L	P441143	
		Fipronil Desulfinyl**	0.13	I	ng/L	P441143	
		Fipronil Sulfide	0.50	I	ng/L	P441143	
		Fipronil Sulfone	1.1		ng/L	P441143	
		Fluazifop-P-butyl	0.10	U	ng/L	P441143	RPD
		Fludioxonil	0.10	U	ng/L	P441143	
		Flumioxazin	3.1	U	ng/L	P441143	
		Flutolanil	2.2		ng/L	P441143	
		Fluxapyroxad	0.26	U	ng/L	P441143	
		Fonofos	0.15	U	ng/L	P441143	
		Hexazinone	0.52	U	ng/L	P441143	
		Imazalil	0.67	U	ng/L	P441143	
		Iprodione	0.52	U	ng/L	P441143	
		Loratadine**	0.31	U	ng/L	P441143	
		Malathion	0.36	U	ng/L	P441143	

Field ID: G3SE0019

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2467211	EPA 8270E	Metalaxyl	2.4	I	ng/L	P441143	
		Metolachlor	0.77	U	ng/L	P441143	
		Metribuzin	1.0	I	ng/L	P441143	
		Mevinphos	1.0	U	ng/L	P441143	
		Molinate	0.26	U	ng/L	P441143	
		Myclobutanil	0.36	U	ng/L	P441143	
		Naled	2.6	U	ng/L	P441143	
		Napropamide	0.72	U	ng/L	P441143	
		Norflurazon	1.0	U	ng/L	P441143	
		Oxadiazon	20		ng/L	P441143	
		Oxyfluorfen	0.21	U	ng/L	P441143	
		Parathion Ethyl	0.15	U	ng/L	P441143	
		Parathion Methyl	0.21	U	ng/L	P441143	
		Pendimethalin	1.8	U	ng/L	P441143	MS
		Phenytol**	5.5	U	ng/L	P441143	
		Phorate	0.26	U	ng/L	P441143	
		Prodiamine	0.21	U	ng/L	P441143	
		Prometon	3.1	U	ng/L	P441143	
		Prometryn	0.36	U	ng/L	P441143	RPD
		Pronamide	0.10	U	ng/L	P441143	
		Propanil	0.10	UJ	ng/L	P441143	LCS
		Propargite	0.82	U	ng/L	P441143	
		Propiconazole	0.62	U	ng/L	P441143	
		Pyraflufen Ethyl	0.31	U	ng/L	P441143	
		Pyridaben	1.4	U	ng/L	P441143	
		Pyriproxyfen	0.26	U	ng/L	P441143	
		Simazine	0.26	U	ng/L	P441143	
		Stirophos	0.41	U	ng/L	P441143	
		Sulfentrazone	1.4	U	ng/L	P441143	
		Tebuconazole	1.4	U	ng/L	P441143	
		Terbufos	0.21	U	ng/L	P441143	
		Terbutylazine	0.21	U	ng/L	P441143	
		Thiobencarb	0.52	U	ng/L	P441143	
		Triadimefon	0.15	U	ng/L	P441143	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for sucralose could not be assessed due to a high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: SOSPIRO AT LAS OLAS

Collection Date/Time: 02/07/2024 12:15

Field ID: G4SE0032

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2469116	EPA 200.7 Rev. 4.4	Calcium	300		mg/L	P441286	
		Iron	110	I	ug/L	P441286	
		Magnesium	870		mg/L	P441286	
		Potassium	287		mg/L	P441286	
		Sodium	6.50E+03		mg/L	P441286	
		Strontium	4.32E+03		ug/L	P441286	
		Tin	60	U	ug/L	P441286	
		Titanium	3.0	I	ug/L	P441286	MS
		Vanadium	6.0	U	ug/L	P441286	
		Zinc	16	I	ug/L	P441286	
	EPA 200.8 Rev. 5.4	Aluminum	20	U	ug/L	P441286	
		Antimony	0.20	U	ug/L	P441286	
		Arsenic	1.69		ug/L	P441286	
		Barium	16.6		ug/L	P441286	
		Beryllium	0.040	U	ug/L	P441286	
		Boron	2.85E+03		ug/L	P441286	
		Cadmium	0.080	U	ug/L	P441286	
		Chromium	4.0	U	ug/L	P441286	
		Cobalt	0.15	I	ug/L	P441286	
		Copper	9.5		ug/L	P441286	
		Lead	0.80	U	ug/L	P441286	
		Manganese	3.6		ug/L	P441286	
		Molybdenum	7.5		ug/L	P441286	
		Nickel	5.1	I	ug/L	P441286	
		Selenium	0.80	U	ug/L	P441286	
		Silver	0.040	U	ug/L	P441286	
		Thallium	0.40	U	ug/L	P441286	
	SM 2340 B-2011	Hardness	4.33E+03		mg/L	P441286	

Ref. Method and Comment:
 EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium, potassium, sodium and strontium are unavailable because of high analyte concentration in the QC sample.
 EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable because of high analyte concentration in the QC sample. The copper result was confirmed in the undigested sample on 02/20/2024.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P441149

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441144

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441235

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: P441286

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: P441235

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441235

Component	Result	Code	Units
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: P441286

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: P441846

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441881

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441225

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441226

Component	Result	Code	Units
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Quality Assurance Report
Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441226

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441264

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441268

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441247

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441299

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441390

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441357

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441360

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441361

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P441041

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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P441041

Component	Result	Code	Units
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: P441143

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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P441143

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P441143

Component	Result	Code	Units
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: P441041

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

Reference Method: EPA 8321B
Batch ID: P441099

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

Reference Method: EPA 8321B
Batch ID: P441101

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: P441220

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P441220

Component	Result	Code	Units
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P441619

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

Reference Method: SM 2320 B-2011
Batch ID: P441620

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

Reference Method: SM 2540 C-2015
Batch ID: P441653

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P441543

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P441545

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P441623

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P441625

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P441408

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

Reference Method: SM 5310 B-2014
Batch ID: P441455

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: P441149

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441144

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441235

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	109		P	85 - 115
Iron	114		P	85 - 115
Magnesium	108		P	85 - 115
Potassium	102		P	85 - 115
Sodium	104		P	85 - 115
Strontium	97.1		P	85 - 115
Tin	97.4		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	96.7		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441286

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	94.7		P	80 - 120
Iron	100		P	80 - 120
Magnesium	95.6		P	80 - 120
Potassium	102		P	85 - 115
Sodium	101		P	85 - 115
Strontium	100		P	85 - 115
Tin	96.2		P	80 - 120
Titanium	101		P	80 - 120
Vanadium	98.2		P	80 - 120
Zinc	92.1		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441235

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	103		P	85 - 115
Barium	101		P	85 - 115
Beryllium	97.2		P	85 - 115
Boron	105		P	85 - 115
Cadmium	99.4		P	85 - 115
Chromium	104		P	85 - 115
Cobalt	102		P	85 - 115
Copper	102		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441235

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lead	95.8		P	85 - 115
Manganese	103		P	85 - 115
Molybdenum	99.5		P	85 - 115
Nickel	102		P	85 - 115
Selenium	104		P	85 - 115
Silver	104		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441286

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	106		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	97.8		P	85 - 115
Barium	103		P	85 - 115
Beryllium	90.8		P	85 - 115
Boron	112		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	105		P	85 - 115
Cobalt	98.7		P	85 - 115
Copper	97.4		P	85 - 115
Lead	97.7		P	85 - 115
Manganese	103		P	85 - 115
Molybdenum	99.3		P	85 - 115
Nickel	97.9		P	85 - 115
Selenium	102		P	85 - 115
Silver	98.9		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441846

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441881

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441225

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441226

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: P441226

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441264

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441268

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441247

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441299

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441390

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441357

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441360

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441361

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P441041

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	86.3		P	30 - 96.0
Alpha-BHC	95.8		P	70 - 109
Alpha-Chlordane	76.0		P	45 - 107
Beta-BHC	125		P	64 - 138
Beta-Cyfluthrin	54.7		P	17 - 141
Bifenthrin	49.9		P	10 - 113
Chlorothalonil	77.1		P	26 - 180
Cis-Nonachlor	78.6		P	37 - 102
Cypermethrin	41.1		P	20 - 133
Dacthal	83.6		P	69 - 114
DDD-p,p'	64.2		P	42 - 105
DDE-p,p'	75.3		P	42 - 106
DDT-p,p'	77.4		P	42 - 107
Delta-BHC	95.7		P	67 - 144
Deltamethrin	61.9		P	15 - 149
Dichlobenil	47.9		P	46 - 117
Dicofol	50.7		P	34 - 114
Dieldrin	78.2		P	50 - 108
Endosulfan I	113		F	55 - 104
Endosulfan II	102		P	51 - 111
Endosulfan Sulfate	89.9		P	56 - 121
Endrin	87.5		P	10 - 106
Endrin Aldehyde	51.7		P	34 - 114
Endrin Ketone	153		P	63 - 177
Esfenvalerate	55.2		P	29 - 143
Ethalfuralin	78.8		P	46 - 96.0
Fenpropathrin	61.2		P	28 - 115
Gamma-BHC	49.4		F	65 - 121
Gamma-Chlordane	93.2		P	39 - 103
Heptachlor	71.2		P	39 - 94.0
Heptachlor Epoxide	111		F	54 - 104
Hexachlorobenzene	54.6		P	36 - 100
Kepone	112		P	10 - 225
Lambda-Cyhalothrin	54.8		P	10 - 135
Methoprene	45.1		P	10 - 109
Methoxychlor	81.2		P	52 - 112
MGK-264	73.0		P	44 - 117
Mirex	62.6		P	20 - 90.0
Oxychlordane	105		F	44 - 102
PCB-1016	83.3		P	45 - 107
PCB-1260	80.2		P	40 - 118
Permethrin	55.8		P	18 - 135
Phenothrin	43.4		P	10 - 102
Piperonyl Butoxide	70.2		P	28 - 156
Prallethrin	72.2		P	28 - 113
Tau-Fluvalinate	42.2		P	10 - 123
Tetramethrin	58.9		P	18 - 158
Trans-Nonachlor	80.0		P	39 - 104
Triclosan Methyl	102		P	54 - 108
Trifluralin	83.4		P	46 - 97.0

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441143

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	56.6		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.1		P	37 - 154
Acetochlor	90.4		P	64 - 124
Alachlor	96.4		P	61 - 118
Ametryn	116		P	47 - 158
Atrazine	92.9		P	68 - 121
Atrazine Desethyl	102		P	30 - 119
Avobenzone	140		P	48 - 193
Azinphos Methyl	172		P	30 - 194
Azoxystrobin	94.4		P	58 - 154
Bromacil	94.8		P	47 - 126
Butylate	66.1		P	31 - 83.0
Caffeine	92.7		P	10 - 180
Carbophenothion	117		P	59 - 133
Carfentrazone Ethyl	131		P	59 - 147
Chlorfenapyr	82.3		P	52 - 118
Chlorpyrifos Ethyl	111		P	59 - 119
Chlorpyrifos Methyl	114		P	65 - 123
Coumaphos	116		P	11 - 223
Cyanazine	97.7		P	63 - 250
Cyprodinil	92.7		P	52 - 143
Dechlorane 602	100		P	23 - 142
Dechlorane 603	93.5		P	51 - 171
Dechlorane Plus	102		P	46 - 161
Demeton	75.7		P	42 - 119
Diazinon	97.1		P	67 - 132
Difenoconazole	111		P	12 - 204
Dimethenamid	88.5		P	53 - 113
Dimethomorph	114		P	13 - 238
Disulfoton	102		P	56 - 126
Dithiopyr	92.4		P	58 - 127
EPTC	63.2		P	31 - 78.0
Ethion	84.7		P	24 - 127
Ethoprop	90.8		P	60 - 118
Etridiazole	64.6		P	32 - 91.0
Fenamiphos	97.2		P	54 - 129
Fenbuconazole	102		P	31 - 162
Fipronil	80.7		P	56 - 131
Fipronil Desulfinyl	113		P	58 - 132
Fipronil Sulfide	96.2		P	51 - 123
Fipronil Sulfone	90.4		P	50 - 125
Fluazifop-P-butyl	96.9		P	52 - 132
Fludioxonil	97.0		P	52 - 129
Flumioxazin	142		P	34 - 250
Flutolanil	113		P	45 - 128
Fluxapyroxad	96.8		P	31 - 150
Fonofos	92.2		P	60 - 116
Hexabromobenzene	78.9		P	52 - 165
Hexazinone	94.7		P	59 - 120
Imazalil	97.4		P	39 - 134
Iprodione	96.6		P	39 - 243
Loratadine	109		P	10 - 240

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441143

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Malathion	106		P	53 - 145
Metalaxyl	94.2		P	59 - 120
Metolachlor	105		P	64 - 122
Metribuzin	106		P	33 - 128
Mevinphos	96.1		P	48 - 119
Molinate	63.9		P	42 - 89.0
Myclobutanil	92.3		P	54 - 129
Naled	58.4		P	10 - 138
Napropamide	103		P	40 - 122
Norflurazon	89.1		P	49 - 132
Octinoxate	125		P	29 - 176
Oxadiazon	83.9		P	50 - 115
Oxybenzone	123		P	45 - 145
Oxyfluorfen	123		P	62 - 149
Parathion Ethyl	109		P	68 - 119
Parathion Methyl	113		P	68 - 147
PBB-153	92.2		P	42 - 179
PBDE-47	115		P	44 - 141
PBDE-99	95.0		P	36 - 141
Pendimethalin	145		P	59 - 158
Pentabromotoluene	85.8		P	58 - 148
Phenytoin	48.2		P	10 - 151
Phorate	93.3		P	44 - 124
Prodiamine	47.6		P	10 - 136
Prometon	101		P	45 - 131
Prometryn	127		P	52 - 140
Pronamide	115		P	70 - 129
Propanil	161		F	54 - 144
Propargite	71.9		P	10 - 191
Propiconazole	82.4		P	49 - 128
Pyraflufen Ethyl	86.1		P	46 - 141
Pyridaben	119		P	29 - 198
Pyriproxyfen	110		P	33 - 221
Simazine	107		P	62 - 119
Stirophos	120		P	13 - 144
Sulfentrazone	69.2		P	12 - 152
Tebuconazole	87.3		P	10 - 135
Terbufos	98.0		P	67 - 136
Terbutylazine	82.0		P	66 - 113
Tetradecachloro-m-terphenyl	80.6		P	30 - 235
Thiobencarb	113		P	51 - 125
Tri-o-cresyl Phosphate	123		P	50 - 150
Triadimefon	106		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	117		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	122		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	125		P	59 - 166

Reference Method: EPA 8276
Batch ID: P441041

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	92.2		P	52 - 117

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P441041

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Toxaphene	93.1		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P441099

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	78.8		P	40 - 150
Aldicarb	59.4		P	30 - 150
Aldicarb Sulfone	91.3		P	40 - 150
Aldicarb Sulfoxide	98.1		P	40 - 150
Carbaryl	65.8		P	40 - 150
Carbofuran	72.7		P	40 - 150
Methiocarb	64.5		P	40 - 150
Methomyl	85.3		P	40 - 150
Oxamyl	89.1		P	40 - 150
Propoxur	61.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441101

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	116		P	40 - 150
AMPA	106		P	40 - 160
Endothall	88.2		P	40 - 160
Glufosinate	101		P	40 - 160
Glyphosate	97.0		P	40 - 160
Sucralose	105		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441220

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	70.8		P	40 - 150
2,4,5-T	68.5		P	40 - 150
Acetaminophen	77.6		P	30 - 150
Acetamiprid	69.0		P	40 - 150
Afidopyropen	60.2		P	30 - 150
Bentazon	68.7		P	30 - 150
Benzovindiflupyr	77.5		P	40 - 150
Carbamazepine	73.1		P	40 - 150
Clothianidin	79.6		P	40 - 150
Dinotefuran	89.3		P	40 - 150
Diuron	69.4		P	40 - 150
Fenuron	83.7		P	40 - 150
Fluridone	80.3		P	40 - 150
Hydrocodone	85.8		P	40 - 150
Ibuprofen	78.9		P	40 - 150
Imazapyr	69.9		P	40 - 150
Imidacloprid	79.9		P	40 - 150
Linuron	73.3		P	40 - 150
Mandestrobin	73.7		P	40 - 150
MCPP	65.1		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P441220

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naproxen	77.8		P	40 - 150
Primidone	70.0		P	40 - 150
Pyraclostrobin	74.8		P	40 - 150
Silvex	56.5		P	40 - 150
Thiamethoxam	85.8		P	40 - 150
Tolfenpyrad	49.0		P	30 - 150
Triclopyr	66.4		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P441619

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.7		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P441620

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.4		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P441653

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

Reference Method: SM 2540 D-2015
Batch ID: P441543

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

Reference Method: SM 2540 D-2015
Batch ID: P441545

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

Reference Method: SM 4500-F- C-2011
Batch ID: P441623

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	104		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P441625

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	105		P	94 - 106

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2014
Batch ID: P441408

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

Reference Method: SM 5310 B-2014
Batch ID: P441455

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441235

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467221	Calcium	106		P	80 - 120
2467221	Iron	114	113	P/P	80 - 120
2467221	Magnesium	106		P	80 - 120
2467221	Potassium	102		P	80 - 120
2467221	Sodium	103		P	80 - 120
2467221	Strontium	95.0	94.4	P/P	80 - 120
2467221	Tin	94.0	93.1	P/P	80 - 120
2467221	Titanium	102	99.1	P/P	80 - 120
2467221	Vanadium	101	99.6	P/P	80 - 120
2467221	Zinc	94.2	93.4	P/P	80 - 120
2467412	Calcium	109		P	80 - 120
2467412	Iron	114		P	80 - 120
2467412	Magnesium	113		P	80 - 120
2467412	Potassium	101		P	80 - 120
2467412	Sodium	104		P	80 - 120
2467412	Strontium	95.8		P	80 - 120
2467412	Tin	94.8		P	80 - 120
2467412	Titanium	99.3		P	80 - 120
2467412	Vanadium	102		P	80 - 120
2467412	Zinc	97.6		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441286

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467558	Iron	95.9	97.7	P/P	80 - 120
2467558	Tin	86.6	90.4	P/P	80 - 120
2467558	Titanium	73.4	81.7	F/P	80 - 120
2467558	Vanadium	102	104	P/P	80 - 120
2467558	Zinc	92.1	92.0	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441235

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467221	Aluminum	100	102	P/P	80 - 120
2467221	Antimony	104	102	P/P	80 - 120
2467221	Arsenic	104	105	P/P	80 - 120
2467221	Barium	104	102	P/P	80 - 120
2467221	Beryllium	97.5	97.8	P/P	80 - 120
2467221	Boron	103	105	P/P	80 - 120
2467221	Cadmium	102	102	P/P	80 - 120
2467221	Chromium	105	104	P/P	80 - 120
2467221	Cobalt	102	103	P/P	80 - 120
2467221	Copper	102	102	P/P	80 - 120
2467221	Lead	96.9	96.9	P/P	80 - 120
2467221	Manganese	104	105	P/P	80 - 120
2467221	Molybdenum	102	103	P/P	80 - 120
2467221	Nickel	103	104	P/P	80 - 120
2467221	Selenium	103	104	P/P	80 - 120
2467221	Silver	103	102	P/P	80 - 120
2467221	Thallium	104	104	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441235

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467412	Aluminum	102		P	80 - 120
2467412	Antimony	102		P	80 - 120
2467412	Arsenic	102		P	80 - 120
2467412	Barium	102		P	80 - 120
2467412	Beryllium	97.4		P	80 - 120
2467412	Boron	104		P	80 - 120
2467412	Cadmium	103		P	80 - 120
2467412	Chromium	104		P	80 - 120
2467412	Cobalt	102		P	80 - 120
2467412	Copper	101		P	80 - 120
2467412	Lead	98.1		P	80 - 120
2467412	Manganese	104		P	80 - 120
2467412	Molybdenum	101		P	80 - 120
2467412	Nickel	103		P	80 - 120
2467412	Selenium	103		P	80 - 120
2467412	Silver	104		P	80 - 120
2467412	Thallium	104		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441286

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467558	Aluminum	116	112	P/P	70 - 130
2467558	Antimony	107	105	P/P	70 - 130
2467558	Arsenic	104	103	P/P	70 - 130
2467558	Barium	106	104	P/P	70 - 130
2467558	Beryllium	90.9	89.3	P/P	70 - 130
2467558	Cadmium	101	95.5	P/P	70 - 130
2467558	Chromium	105	105	P/P	70 - 130
2467558	Cobalt	102	99.7	P/P	70 - 130
2467558	Copper	101	99.8	P/P	70 - 130
2467558	Lead	105	103	P/P	70 - 130
2467558	Manganese	102	100	P/P	70 - 130
2467558	Molybdenum	112	110	P/P	70 - 130
2467558	Nickel	99.2	99.8	P/P	70 - 130
2467558	Selenium	105	104	P/P	70 - 130
2467558	Silver	88.6	87.3	P/P	70 - 130
2467558	Thallium	106	106	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467588	Sulfate	108		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441881

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467405	Chloride	93.7		P	90 - 110
2467544	Chloride	95.4		P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441225

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467062	Ammonia-N	96.2	95.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441226

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467161	Ammonia-N	102	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441264

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467191	Kjeldahl Nitrogen	102	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441268

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467134	Kjeldahl Nitrogen	108	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441247

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467162	NO2NO3-N	102	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441299

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467187	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441390

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467959	NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441357

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467164	Total-P	97.0	95.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467187	Total-P	102	103	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441361

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467313	Total-P	105	101	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P441041

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466705	Aldrin	71.9	67.0	P/P	24 - 81.0
2466705	Alpha-BHC	96.3	85.2	P/P	65 - 110
2466705	Alpha-Chlordane	70.2	53.6	P/P	43 - 119
2466705	Beta-BHC	97.2	99.8	P/P	54 - 165
2466705	Beta-Cyfluthrin	88.8	84.7	P/P	27 - 165
2466705	Bifenthrin	75.9	62.8	P/P	17 - 117
2466705	Chlorothalonil	106	91.0	P/P	10 - 255
2466705	Cis-Nonachlor	64.6	59.8	P/P	34 - 98.0
2466705	Cypermethrin	79.7	73.5	P/P	25 - 143
2466705	Dacthal	73.7	70.9	P/P	55 - 139
2466705	DDD-p,p'	55.6	49.4	P/P	30 - 109
2466705	DDE-p,p'	66.1	60.1	P/P	35 - 106
2466705	DDT-p,p'	77.2	64.0	P/P	41 - 101
2466705	Delta-BHC	97.7	99.4	P/P	58 - 165
2466705	Deltamethrin	113	97.7	P/P	10 - 194
2466705	Dichlobenil	23.1	22.9	P/P	22 - 114
2466705	Dicofol	58.1	48.7	P/P	17 - 133
2466705	Dieldrin	66.7	64.5	P/P	45 - 129
2466705	Endosulfan I	155	146	F/F	49 - 104
2466705	Endosulfan II	90.2	88.1	P/P	37 - 117
2466705	Endosulfan Sulfate	71.0	69.4	P/P	38 - 128
2466705	Endrin	75.8	71.9	P/P	35 - 116
2466705	Endrin Aldehyde	23.8	25.3	P/P	19 - 108
2466705	Endrin Ketone	203	177	F/F	44 - 134
2466705	Esfenvalerate	96.0	87.0	P/P	27 - 176
2466705	Ethalfuralin	69.5	65.2	P/P	49 - 100
2466705	Fenpropathrin	78.7	71.1	P/P	34 - 117
2466705	Gamma-BHC	68.3	69.7	P/P	59 - 129
2466705	Gamma-Chlordane	132	95.7	F/P	33 - 107
2466705	Heptachlor	78.1	67.8	P/P	37 - 94.0
2466705	Heptachlor Epoxide	152	126	F/F	38 - 118
2466705	Hexachlorobenzene	41.6	42.4	P/P	35 - 97.0
2466705	Kepone	57.0	56.5	P/P	10 - 221
2466705	Lambda-Cyhalothrin	82.3	77.4	P/P	23 - 190
2466705	Methoprene	78.5	64.2	P/P	21 - 109
2466705	Methoxychlor	97.2	86.5	P/P	46 - 118
2466705	MGK-264	72.3	65.2	P/P	39 - 122
2466705	Mirex	58.8	47.4	P/P	25 - 90.0
2466705	Oxychlordane	163	136	F/F	42 - 100
2466705	Permethrin	87.2	76.5	P/P	33 - 181
2466705	Phenothrin	80.5	67.8	P/P	12 - 125
2466705	Piperonyl Butoxide	92.1	74.4	P/P	10 - 178
2466705	Prallethrin	77.6	65.3	P/P	24 - 122
2466705	Tau-Fluvalinate	73.0	65.9	P/P	13 - 151
2466705	Tetramethrin	101	90.8	P/P	16 - 172
2466705	Trans-Nonachlor	67.6	61.2	P/P	39 - 100

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P441041

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466705	Triclosan Methyl	129	107	F/P	43 - 110
2466705	Trifluralin	81.4	69.8	P/P	45 - 94.0
2467402	PCB-1016	82.7	83.1	P/P	45 - 107
2467402	PCB-1260	60.0	59.7	P/P	40 - 112

Reference Method: EPA 8270E

Batch ID: P441143

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467403	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	43.1	33.1	F/F	50 - 150
2467403	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	84.4	86.0	P/P	29 - 155
2467403	Acetochlor	96.3	90.9	P/P	60 - 124
2467403	Alachlor	93.7	88.3	P/P	54 - 122
2467403	Ametryn	120	94.1	P/P	51 - 208
2467403	Atrazine	116	86.6	P/P	57 - 131
2467403	Atrazine Desethyl	109	104	P/P	13 - 124
2467403	Avobenzene	99.6	98.1	P/P	35 - 187
2467403	Azinphos Methyl	165	171	P/P	43 - 276
2467403	Azoxystrobin	113	106	P/P	52 - 300
2467403	Bromacil	108	95.0	P/P	44 - 134
2467403	Butylate	71.9	47.9	P/P	23 - 82.0
2467403	Caffeine	108	112	P/P	10 - 277
2467403	Carbophenothion	107	119	P/P	47 - 135
2467403	Carfentrazone Ethyl	120	117	P/P	46 - 147
2467403	Chlorfenapyr	81.5	71.0	P/P	43 - 114
2467403	Chlorpyrifos Ethyl	111	112	P/P	47 - 124
2467403	Chlorpyrifos Methyl	133	119	P/P	60 - 135
2467403	Coumaphos	91.7	106	P/P	10 - 222
2467403	Cyanazine	126	124	P/P	10 - 257
2467403	Cyprodinil	114	89.5	P/P	42 - 148
2467403	Dechlorane 602	49.2	59.8	P/P	14 - 133
2467403	Dechlorane 603	99.3	90.5	P/P	18 - 191
2467403	Dechlorane Plus	84.2	87.2	P/P	23 - 154
2467403	Demeton	73.6	67.7	P/P	41 - 137
2467403	Diazinon	112	101	P/P	64 - 139
2467403	Difenoconazole	85.8	80.7	P/P	46 - 254
2467403	Dimethenamid	98.6	91.2	P/P	47 - 117
2467403	Dimethomorph	128	112	P/P	14 - 255
2467403	Disulfoton	123	111	P/P	52 - 130
2467403	Dithiopyr	139	112	F/P	40 - 121
2467403	EPTC	65.8	42.1	P/P	19 - 78.0
2467403	Ethion	48.6	63.6	P/P	12 - 124
2467403	Ethoprop	104	93.2	P/P	68 - 144
2467403	Etridiazole	66.3	46.0	P/P	26 - 96.0
2467403	Fenamiphos	132	116	F/P	41 - 129
2467403	Fenbuconazole	66.2	81.4	P/P	26 - 169
2467403	Fipronil	93.4	70.2	P/P	46 - 145
2467403	Fipronil Desulfinyl	111	82.2	P/P	47 - 136
2467403	Fipronil Sulfide	105	77.9	P/P	41 - 127
2467403	Fipronil Sulfone	61.9	56.0	P/P	35 - 133
2467403	Fluazifop-P-butyl	95.3	56.4	P/P	46 - 131
2467403	Fludioxonil	83.4	92.2	P/P	51 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P441143

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467403	Flumioxazin	87.8	80.4	P/P	10 - 289
2467403	Flutolanil	111	113	P/P	34 - 130
2467403	Fluxapyroxad	70.6	89.5	P/P	10 - 197
2467403	Fonofos	111	86.3	P/P	42 - 131
2467403	Hexabromobenzene	93.1	132	P/P	47 - 178
2467403	Hexazinone	98.1	95.8	P/P	64 - 125
2467403	Imazalil	84.0	86.7	P/P	37 - 252
2467403	Iprodione	94.2	90.0	P/P	34 - 265
2467403	Loratadine	120	89.3	P/P	20 - 231
2467403	Malathion	115	106	P/P	34 - 164
2467403	Metaxyl	84.5	73.6	P/P	49 - 125
2467403	Metolachlor	113	100	P/P	54 - 125
2467403	Metribuzin	111	96.5	P/P	51 - 139
2467403	Mevinphos	112	97.2	P/P	46 - 130
2467403	Molinate	67.0	58.2	P/P	39 - 93.0
2467403	Myclobutanil	92.7	85.1	P/P	50 - 130
2467403	Naled	58.8	55.6	P/P	10 - 150
2467403	Napropamide	65.2	70.7	P/P	10 - 109
2467403	Norflurazon	70.4	72.7	P/P	36 - 134
2467403	Octinoxate	108	100	P/P	18 - 170
2467403	Oxadiazon	86.3	68.3	P/P	43 - 112
2467403	Oxybenzone	107	89.3	P/P	33 - 154
2467403	Oxyfluorfen	119	124	P/P	62 - 154
2467403	Parathion Ethyl	89.6	96.3	P/P	65 - 120
2467403	Parathion Methyl	124	120	P/P	77 - 185
2467403	PBB-153	93.8	88.3	P/P	23 - 193
2467403	PBDE-47	94.1	90.2	P/P	31 - 139
2467403	PBDE-99	77.9	78.7	P/P	24 - 138
2467403	Pendimethalin	166	142	F/P	50 - 146
2467403	Pentabromotoluene	90.3	79.3	P/P	54 - 152
2467403	Phenytoin	60.1	68.2	P/P	10 - 157
2467403	Phorate	95.0	95.5	P/P	54 - 161
2467403	Prodiamine	71.3	58.5	P/P	29 - 160
2467403	Prometon	111	108	P/P	38 - 145
2467403	Prometryn	146	91.9	P/P	32 - 151
2467403	Pronamide	112	106	P/P	61 - 140
2467403	Propanil	136	146	P/P	50 - 147
2467403	Propargite	48.8	54.4	P/P	10 - 190
2467403	Propiconazole	72.9	75.6	P/P	30 - 146
2467403	Pyraflufen Ethyl	64.0	81.7	P/P	30 - 147
2467403	Pyridaben	97.3	97.3	P/P	15 - 195
2467403	Pyriproxyfen	88.1	85.9	P/P	31 - 218
2467403	Simazine	137	94.8	P/P	45 - 139
2467403	Stirophos	69.0	37.4	P/P	10 - 134
2467403	Sulfentrazone	72.1	60.7	P/P	53 - 186
2467403	Tebuconazole	42.4	54.6	P/P	10 - 133
2467403	Terbufos	114	88.6	P/P	65 - 151
2467403	Terbutylazine	93.3	82.0	P/P	62 - 117
2467403	Tetradecachloro-m-terphenyl	143	96.4	P/P	10 - 260
2467403	Thiobencarb	109	102	P/P	48 - 122
2467403	Tri-o-cresyl Phosphate	107	92.7	P/P	32 - 151
2467403	Triadimefon	98.1	102	P/P	46 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P441143

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467403	Tris(1-chloro-2-propyl) phosphate (TCPP)	122	97.8	P/P	51 - 154
2467403	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	121	104	P/P	59 - 147
2467403	Tris(2-chloroethyl) phosphate (TCEP)	134	108	P/P	65 - 156

Reference Method: EPA 8276
Batch ID: P441041

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467402	Chlordane	77.8	93.4	P/P	43 - 123
2467402	Toxaphene	77.4	92.7	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P441099

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466833	3-Hydroxycarbofuran	73.1	66.9	P/P	40 - 150
2466833	Aldicarb	68.3	52.1	P/P	30 - 150
2466833	Aldicarb Sulfone	89.9	82.7	P/P	40 - 150
2466833	Aldicarb Sulfoxide	31.9	33.1	F/F	40 - 150
2466833	Carbaryl	64.4	65.1	P/P	40 - 150
2466833	Carbofuran	65.2	61.4	P/P	40 - 150
2466833	Methiocarb	64.9	62.0	P/P	40 - 150
2466833	Methomyl	77.4	72.5	P/P	40 - 150
2466833	Oxamyl	84.4	79.5	P/P	40 - 150
2466833	Propoxur	60.2	58.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441101

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466866	Acesulfame K	133	139	P/P	40 - 150
2466866	AMPA	106	106	P/P	40 - 160
2466866	Endothall	98.8	99.3	P/P	40 - 160
2466866	Glufosinate	101	104	P/P	40 - 160
2466866	Glyphosate	100	103	P/P	40 - 160

Reference Method: EPA 8321B
Batch ID: P441220

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467206	2,4-D	59.3	61.4	P/P	40 - 150
2467206	2,4,5-T	55.1	54.3	P/P	40 - 150
2467206	Acetaminophen	80.1	87.4	P/P	30 - 150
2467206	Acetamiprid	59.1	66.0	P/P	40 - 150
2467206	Afidopyropen	60.4	67.2	P/P	30 - 150
2467206	Benzovindiflupyr	75.6	86.2	P/P	40 - 150
2467206	Carbamazepine	62.2	65.6	P/P	40 - 150
2467206	Clothianidin	78.7	79.5	P/P	40 - 150
2467206	Dinotefuran	81.1	91.2	P/P	40 - 150
2467206	Diuron	56.0	60.5	P/P	40 - 150
2467206	Fenuron	99.5	102	P/P	40 - 150
2467206	Hydrocodone	68.7	74.3	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P441220

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467206	Ibuprofen	90.8	108	P/P	40 - 150
2467206	Imidacloprid	96.9	108	P/P	40 - 150
2467206	Linuron	61.3	64.9	P/P	40 - 150
2467206	Mandestrobin	74.6	80.4	P/P	40 - 150
2467206	MCP	61.9	69.9	P/P	40 - 150
2467206	Naproxen	134	114	P/P	40 - 150
2467206	Primidone	68.4	78.2	P/P	40 - 150
2467206	Pyraclostrobin	76.7	89.4	P/P	40 - 150
2467206	Silvex	55.5	56.6	P/P	40 - 150
2467206	Thiamethoxam	75.5	84.9	P/P	40 - 150
2467206	Tolfenpyrad	46.7	57.9	P/P	30 - 150
2467206	Triclopyr	53.3	53.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P441623

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467031	Fluoride	107	107	F/F	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P441625

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466692	Fluoride	104	105	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P441408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467191	Organic Carbon	90.2	90.5	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P441455

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467062	Organic Carbon	100	99.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P441149

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467190	Color (true)	7.58	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467030	Turbidity	3.19	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441235

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467221	Calcium	0.0995	Spike	P	0 - 20
2467221	Iron	0.788	Spike	P	0 - 20
2467221	Magnesium	0.136	Spike	P	0 - 20
2467221	Potassium	0.0867	Spike	P	0 - 20
2467221	Sodium	0.0566	Spike	P	0 - 20
2467221	Strontium	0.606	Spike	P	0 - 20
2467221	Tin	1.01	Spike	P	0 - 20
2467221	Titanium	2.99	Spike	P	0 - 20
2467221	Vanadium	0.921	Spike	P	0 - 20
2467221	Zinc	0.762	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441286

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467558	Calcium	0.470	Spike	P	0 - 20
2467558	Iron	1.54	Spike	P	0 - 20
2467558	Magnesium	2.13	Spike	P	0 - 20
2467558	Potassium	1.13	Spike	P	0 - 20
2467558	Sodium	1.36	Spike	P	0 - 20
2467558	Strontium	0.854	Spike	P	0 - 20
2467558	Tin	4.27	Spike	P	0 - 20
2467558	Titanium	6.61	Spike	P	0 - 20
2467558	Vanadium	2.61	Spike	P	0 - 20
2467558	Zinc	0.102	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441235

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467221	Aluminum	1.57	Spike	P	0 - 20
2467221	Antimony	1.25	Spike	P	0 - 20
2467221	Arsenic	0.526	Spike	P	0 - 20
2467221	Barium	1.45	Spike	P	0 - 20
2467221	Beryllium	0.325	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441235

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467221	Boron	1.43	Spike	P	0 - 20
2467221	Cadmium	0.132	Spike	P	0 - 20
2467221	Chromium	1.02	Spike	P	0 - 20
2467221	Cobalt	0.183	Spike	P	0 - 20
2467221	Copper	0.220	Spike	P	0 - 20
2467221	Lead	0.00103	Spike	P	0 - 20
2467221	Manganese	0.384	Spike	P	0 - 20
2467221	Molybdenum	0.972	Spike	P	0 - 20
2467221	Nickel	0.816	Spike	P	0 - 20
2467221	Selenium	0.532	Spike	P	0 - 20
2467221	Silver	1.08	Spike	P	0 - 20
2467221	Thallium	0.0100	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441286

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467558	Aluminum	2.55	Spike	P	0 - 20
2467558	Antimony	1.77	Spike	P	0 - 20
2467558	Arsenic	0.585	Spike	P	0 - 20
2467558	Barium	1.69	Spike	P	0 - 20
2467558	Beryllium	1.71	Spike	P	0 - 20
2467558	Boron	2.41	Spike	P	0 - 20
2467558	Cadmium	5.25	Spike	P	0 - 20
2467558	Chromium	0.00661	Spike	P	0 - 20
2467558	Cobalt	2.37	Spike	P	0 - 20
2467558	Copper	1.58	Spike	P	0 - 20
2467558	Lead	1.34	Spike	P	0 - 20
2467558	Manganese	1.31	Spike	P	0 - 20
2467558	Molybdenum	1.75	Spike	P	0 - 20
2467558	Nickel	0.521	Spike	P	0 - 20
2467558	Selenium	1.17	Spike	P	0 - 20
2467558	Silver	1.48	Spike	P	0 - 20
2467558	Thallium	0.649	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467201	Sulfate	3.45	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P441881

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467405	Chloride	3.03	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441225

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467062	Ammonia-N	0.529	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441226

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467161	Ammonia-N	1.17	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441264

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467191	Kjeldahl Nitrogen	2.18	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441268

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467134	Kjeldahl Nitrogen	5.11	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467162	NO2NO3-N	1.45	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467187	NO2NO3-N	0.755	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441390

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467959	NO2NO3-N	0.487	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441357

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467164	Total-P	2.03	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467187	Total-P	0.648	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467313	Total-P	3.37	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P441041

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466705	Aldrin	6.94	Spike	P	0 - 41
2466705	Alpha-BHC	12.3	Spike	P	0 - 25
2466705	Alpha-Chlordane	23.9	Spike	P	0 - 32
2466705	Beta-BHC	2.64	Spike	P	0 - 33
2466705	Beta-Cyfluthrin	4.77	Spike	P	0 - 43
2466705	Bifenthrin	18.8	Spike	P	0 - 52
2466705	Chlorothalonil	14.9	Spike	P	0 - 82
2466705	Cis-Nonachlor	7.66	Spike	P	0 - 33
2466705	Cypermethrin	8.11	Spike	P	0 - 51
2466705	Dacthal	3.96	Spike	P	0 - 27
2466705	DDD-p,p'	11.7	Spike	P	0 - 39
2466705	DDE-p,p'	9.51	Spike	P	0 - 31
2466705	DDT-p,p'	18.7	Spike	P	0 - 29
2466705	Delta-BHC	1.60	Spike	P	0 - 35
2466705	Deltamethrin	14.5	Spike	P	0 - 100
2466705	Dichlobenil	0.720	Spike	P	0 - 40
2466705	Dicofol	17.6	Spike	P	0 - 37
2466705	Dieldrin	3.43	Spike	P	0 - 27
2466705	Endosulfan I	6.04	Spike	P	0 - 23
2466705	Endosulfan II	2.44	Spike	P	0 - 34
2466705	Endosulfan Sulfate	2.26	Spike	P	0 - 36
2466705	Endrin	5.36	Spike	P	0 - 45
2466705	Endrin Aldehyde	6.03	Spike	P	0 - 76
2466705	Endrin Ketone	13.4	Spike	P	0 - 43
2466705	Esfenvalerate	9.77	Spike	P	0 - 51
2466705	Ethalfuralin	6.39	Spike	P	0 - 22
2466705	Fenpropathrin	10.2	Spike	P	0 - 49
2466705	Gamma-BHC	2.01	Spike	P	0 - 28
2466705	Gamma-Chlordane	28.8	Spike	P	0 - 40
2466705	Heptachlor	14.1	Spike	P	0 - 29
2466705	Heptachlor Epoxide	18.0	Spike	P	0 - 33
2466705	Hexachlorobenzene	1.88	Spike	P	0 - 36
2466705	Kepone	0.919	Spike	P	0 - 85
2466705	Lambda-Cyhalothrin	6.17	Spike	P	0 - 55
2466705	Methoprene	20.0	Spike	P	0 - 53
2466705	Methoxychlor	11.6	Spike	P	0 - 50
2466705	MGK-264	10.4	Spike	P	0 - 43

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P441041

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466705	Mirex	21.6	Spike	P	0 - 40
2466705	Oxychlordane	17.7	Spike	P	0 - 31
2466705	Permethrin	13.1	Spike	P	0 - 50
2466705	Phenothrin	17.1	Spike	P	0 - 58
2466705	Piperonyl Butoxide	21.3	Spike	P	0 - 100
2466705	Prallethrin	17.1	Spike	P	0 - 39
2466705	Tau-Fluvalinate	10.3	Spike	P	0 - 54
2466705	Tetramethrin	10.7	Spike	P	0 - 51
2466705	Trans-Nonachlor	9.99	Spike	P	0 - 39
2466705	Triclosan Methyl	19.0	Spike	P	0 - 31
2466705	Trifluralin	15.3	Spike	P	0 - 22
2467402	PCB-1016	0.493	Spike	P	0 - 25
2467402	PCB-1260	0.489	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P441143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467403	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	26.3	Spike	P	0 - 30
2467403	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	1.87	Spike	P	0 - 35
2467403	Acetochlor	5.79	Spike	P	0 - 28
2467403	Alachlor	5.98	Spike	P	0 - 30
2467403	Ametryn	24.3	Spike	P	0 - 32
2467403	Atrazine	6.95	Spike	P	0 - 33
2467403	Atrazine Desethyl	3.97	Spike	P	0 - 36
2467403	Avobenzone	1.54	Spike	P	0 - 35
2467403	Azinphos Methyl	3.32	Spike	P	0 - 62
2467403	Azoxystrobin	6.54	Spike	P	0 - 39
2467403	Bromacil	12.3	Spike	P	0 - 33
2467403	Butylate	40.0	Spike	P	0 - 51
2467403	Caffeine	4.13	Spike	P	0 - 100
2467403	Carbophenothion	10.5	Spike	P	0 - 34
2467403	Carfentrazone Ethyl	2.70	Spike	P	0 - 33
2467403	Chlorfenapyr	13.7	Spike	P	0 - 28
2467403	Chlorpyrifos Ethyl	0.507	Spike	P	0 - 31
2467403	Chlorpyrifos Methyl	10.8	Spike	P	0 - 27
2467403	Coumaphos	14.5	Spike	P	0 - 62
2467403	Cyanazine	1.56	Spike	P	0 - 48
2467403	Cyprodinil	23.8	Spike	P	0 - 29
2467403	Dechlorane 602	19.3	Spike	P	0 - 60
2467403	Dechlorane 603	9.28	Spike	P	0 - 40
2467403	Dechlorane Plus	3.48	Spike	P	0 - 38
2467403	Demeton	8.40	Spike	P	0 - 33
2467403	Diazinon	10.3	Spike	P	0 - 32
2467403	Difenoconazole	6.12	Spike	P	0 - 71
2467403	Dimethenamid	7.76	Spike	P	0 - 60
2467403	Dimethomorph	13.7	Spike	P	0 - 61
2467403	Disulfoton	10.3	Spike	P	0 - 30
2467403	Dithiopyr	21.8	Spike	P	0 - 28
2467403	EPTC	43.8	Spike	P	0 - 56

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P441143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467403	Ethion	26.8	Spike	P	0 - 79
2467403	Ethoprop	11.4	Spike	P	0 - 31
2467403	Etridiazole	36.2	Spike	P	0 - 43
2467403	Fenamiphos	13.4	Spike	P	0 - 43
2467403	Fenbuconazole	20.6	Spike	P	0 - 79
2467403	Fipronil	24.7	Spike	P	0 - 46
2467403	Fipronil Desulfinyl	27.6	Spike	P	0 - 36
2467403	Fipronil Sulfide	16.2	Spike	P	0 - 34
2467403	Fipronil Sulfone	3.28	Spike	P	0 - 47
2467403	Fluazifop-P-butyl	51.2	Spike	F	0 - 38
2467403	Fludioxonil	9.95	Spike	P	0 - 29
2467403	Flumioxazin	8.81	Spike	P	0 - 63
2467403	Flutolanil	1.37	Spike	P	0 - 36
2467403	Fluxapyroxad	23.6	Spike	P	0 - 65
2467403	Fonofos	25.0	Spike	P	0 - 35
2467403	Hexabromobenzene	34.5	Spike	P	0 - 41
2467403	Hexazinone	2.41	Spike	P	0 - 31
2467403	Imazalil	3.18	Spike	P	0 - 52
2467403	Iprodione	4.62	Spike	P	0 - 49
2467403	Loratadine	29.6	Spike	P	0 - 59
2467403	Malathion	8.26	Spike	P	0 - 77
2467403	Metalaxyl	13.7	Spike	P	0 - 76
2467403	Metolachlor	11.8	Spike	P	0 - 29
2467403	Metribuzin	14.0	Spike	P	0 - 51
2467403	Mevinphos	14.1	Spike	P	0 - 31
2467403	Molinate	14.0	Spike	P	0 - 39
2467403	Myclobutanil	8.53	Spike	P	0 - 34
2467403	Naled	5.43	Spike	P	0 - 37
2467403	Napropamide	8.10	Spike	P	0 - 100
2467403	Norflurazon	3.19	Spike	P	0 - 54
2467403	Octinoxate	7.95	Spike	P	0 - 35
2467403	Oxadiazon	23.3	Spike	P	0 - 34
2467403	Oxybenzone	17.8	Spike	P	0 - 35
2467403	Oxyfluorfen	4.12	Spike	P	0 - 28
2467403	Parathion Ethyl	7.24	Spike	P	0 - 31
2467403	Parathion Methyl	3.40	Spike	P	0 - 29
2467403	PBB-153	6.11	Spike	P	0 - 49
2467403	PBDE-47	4.18	Spike	P	0 - 36
2467403	PBDE-99	1.08	Spike	P	0 - 46
2467403	Pendimethalin	16.0	Spike	P	0 - 31
2467403	Pentabromotoluene	12.9	Spike	P	0 - 16
2467403	Phenytoin	12.5	Spike	P	0 - 100
2467403	Phorate	0.546	Spike	P	0 - 36
2467403	Prodiamine	19.7	Spike	P	0 - 68
2467403	Prometon	2.19	Spike	P	0 - 35
2467403	Prometryn	45.2	Spike	F	0 - 33
2467403	Pronamide	5.46	Spike	P	0 - 24
2467403	Propanil	7.02	Spike	P	0 - 28
2467403	Propargite	10.9	Spike	P	0 - 53
2467403	Propiconazole	3.67	Spike	P	0 - 44
2467403	Pyraflufen Ethyl	24.2	Spike	P	0 - 61

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P441143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467403	Pyridaben	0.0145	Spike	P	0 - 43
2467403	Pyriproxyfen	2.53	Spike	P	0 - 82
2467403	Simazine	17.2	Spike	P	0 - 29
2467403	Stirophos	59.3	Spike	P	0 - 100
2467403	Sulfentrazone	7.97	Spike	P	0 - 64
2467403	Tebuconazole	25.1	Spike	P	0 - 76
2467403	Terbufos	24.7	Spike	P	0 - 29
2467403	Terbuthylazine	12.9	Spike	P	0 - 28
2467403	Tetradecachloro-m-terphenyl	39.0	Spike	P	0 - 42
2467403	Thiobencarb	6.92	Spike	P	0 - 26
2467403	Tri-o-cresyl Phosphate	14.4	Spike	P	0 - 24
2467403	Triadimefon	3.75	Spike	P	0 - 40
2467403	Tris(1-chloro-2-propyl) phosphate (TCPP)	21.9	Spike	P	0 - 30
2467403	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	15.0	Spike	P	0 - 22
2467403	Tris(2-chloroethyl) phosphate (TCEP)	21.9	Spike	F	0 - 15

Reference Method: EPA 8276
Batch ID: P441041

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467402	Chlordane	18.3	Spike	P	0 - 28
2467402	Toxaphene	18.0	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P441099

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466833	3-Hydroxycarbofuran	8.82	Spike	P	0 - 30
2466833	Aldicarb	26.8	Spike	P	0 - 30
2466833	Aldicarb Sulfone	8.36	Spike	P	0 - 30
2466833	Aldicarb Sulfoxide	3.63	Spike	P	0 - 30
2466833	Carbaryl	1.03	Spike	P	0 - 30
2466833	Carbofuran	6.07	Spike	P	0 - 30
2466833	Methiocarb	4.52	Spike	P	0 - 30
2466833	Methomyl	6.56	Spike	P	0 - 30
2466833	Oxamyl	5.97	Spike	P	0 - 30
2466833	Propoxur	2.31	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P441101

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466866	Acesulfame K	3.89	Spike	P	0 - 30
2466866	AMPA	0.403	Spike	P	0 - 30
2466866	Endothall	0.473	Spike	P	0 - 30
2466866	Glufosinate	3.51	Spike	P	0 - 30
2466866	Glyphosate	1.27	Spike	P	0 - 30
2466866	Sucralose	3.64	Spike	P	0 - 30

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Reference Method: EPA 8321B
Batch ID: P441220

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467206	2,4-D	3.29	Spike	P	0 - 30
2467206	2,4,5-T	1.48	Spike	P	0 - 30
2467206	Acetaminophen	8.66	Spike	P	0 - 30
2467206	Acetamiprid	11.0	Spike	P	0 - 30
2467206	Afidopyropen	10.6	Spike	P	0 - 30
2467206	Bentazon	1.19	Spike	P	0 - 30
2467206	Benzovindiflupyr	13.0	Spike	P	0 - 30
2467206	Carbamazepine	5.32	Spike	P	0 - 30
2467206	Clothianidin	0.996	Spike	P	0 - 30
2467206	Dinotefuran	11.8	Spike	P	0 - 30
2467206	Diuron	5.78	Spike	P	0 - 30
2467206	Fenuron	2.05	Spike	P	0 - 30
2467206	Fluridone	5.45	Spike	P	0 - 30
2467206	Hydrocodone	7.90	Spike	P	0 - 30
2467206	Ibuprofen	17.6	Spike	P	0 - 30
2467206	Imazapyr	1.24	Spike	P	0 - 30
2467206	Imidacloprid	10.3	Spike	P	0 - 30
2467206	Linuron	5.73	Spike	P	0 - 30
2467206	Mandestrobin	7.46	Spike	P	0 - 30
2467206	MCPP	12.1	Spike	P	0 - 30
2467206	Naproxen	16.6	Spike	P	0 - 30
2467206	Primidone	13.4	Spike	P	0 - 30
2467206	Pyraclostrobin	15.4	Spike	P	0 - 30
2467206	Silvex	2.08	Spike	P	0 - 30
2467206	Thiamethoxam	11.7	Spike	P	0 - 30
2467206	Tolfenpyrad	21.4	Spike	P	0 - 30
2467206	Triclopyr	0.836	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P441619

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467031	Total Alkalinity	0.591	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P441620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466692	Total Alkalinity	1.14	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P441653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467032	TDS	7.14	Sample	P	0 - 10

Quality Assurance Report

Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P441623

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467031	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P441625

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466692	Fluoride	0.480	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P441408

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467191	Organic Carbon	0.265	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P441455

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467062	Organic Carbon	0.300	Spike	P	0 - 15

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

Quality Assurance Report

Surrogates

Lab Sample ID: 2467205

Field Sample ID: G3SE0019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	61.7	P	30 - 160

Lab Sample ID: 2467206

Field Sample ID: G3SE0019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	60.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	81.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	59.8	P	30 - 160
EPA 8321B	Diuron-d6	63.1	P	30 - 160
EPA 8321B	Endothall-d6	75.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	87.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	98.0	P	30 - 160
EPA 8321B	Primidone-d5	83.5	P	30 - 160
EPA 8321B	Sucralose-d6	118	P	30 - 160

Lab Sample ID: 2467210

Field Sample ID: G3SE0019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	98.2	P	37 - 129
EPA 8270E	Decachlorobiphenyl	103	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	60.2	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	35.1	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	58.6	P	23 - 110
EPA 8276	PCNB	98.3	P	51 - 130

Lab Sample ID: 2467211

Field Sample ID: G3SE0019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	65.7	P	20 - 200
EPA 8270E	Simazine-d10	94.0	P	58 - 137
EPA 8270E	Terbufos-d10	111	P	50 - 134
EPA 8270E	Terphenyl-d14	118	P	44 - 134

Lab Sample ID: 2467212

Field Sample ID: G4SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.7	P	37 - 129
EPA 8270E	Decachlorobiphenyl	87.1	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	62.7	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	31.1	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	51.9	P	23 - 110
EPA 8276	PCNB	99.4	P	51 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A124028
Included Lab Sample IDs: 2467206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	93.6	91.0	P/P	60 - 160
Endothall	70.6	66.4	P/P	60 - 160
Glufosinate	74.8	77.0	P/P	60 - 160
Glyphosate	81.5	87.4	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A124029
Included Lab Sample IDs: 2467206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	138	75.5	P/P	60 - 160
Sucralose	117	111	P/P	60 - 160

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A124064
Included Lab Sample IDs: 2467186, 2467188, 2467190

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1
Run ID: A124066
Included Lab Sample IDs: 2467186, 2467188, 2467190

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.9	97.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A124088
Included Lab Sample IDs: 2467187, 2467189, 2467191

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.2	96.8	P/P	90 - 110
Ammonia-N	96.8	96.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A124095
Included Lab Sample IDs: 2467191

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A124114
Included Lab Sample IDs: 2467187

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A124128
Included Lab Sample IDs: 2467191

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	108	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A124140
Included Lab Sample IDs: 2467189

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A124145
Included Lab Sample IDs: 2467187, 2467189

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	99.8	P/P	90 - 110
Total-P	99.8	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A124149
Included Lab Sample IDs: 2467215

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.3	101	P/P	90 - 110
Antimony	99.4	99.4	P/P	90 - 110
Arsenic	99.9	99.7	P/P	90 - 110
Barium	99.6	100	P/P	90 - 110
Beryllium	99.1	99.1	P/P	90 - 110
Boron	100	101	P/P	90 - 110
Cadmium	98.4	97.9	P/P	90 - 110
Chromium	97.2	98.3	P/P	90 - 110
Cobalt	97.6	98.0	P/P	90 - 110
Copper	98.2	99.2	P/P	90 - 110
Lead	95.3	95.0	P/P	90 - 110
Manganese	97.4	98.5	P/P	90 - 110
Molybdenum	98.9	99.7	P/P	90 - 110
Nickel	98.3	98.7	P/P	90 - 110
Selenium	98.7	99.7	P/P	90 - 110
Silver	99.3	99.5	P/P	90 - 110
Thallium	99.6	99.8	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A124151
Included Lab Sample IDs: 2467206

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.3	83.8	P/P	50 - 150
2,4,5-T	79.0	79.5	P/P	50 - 150
3-Hydroxycarbofuran	106	104	P/P	60 - 150
Acetaminophen	104	101	P/P	60 - 160
Acetamiprid	109	107	P/P	50 - 150
Afidopyropen	108	108	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A124151
Included Lab Sample IDs: 2467205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldicarb	95.9	109	P/P	60 - 150
Aldicarb Sulfone	106	101	P/P	50 - 150
Aldicarb Sulfoxide	101	104	P/P	50 - 150
Bentazon	77.1	76.5	P/P	50 - 160
Benzovindiflupyr	104	101	P/P	50 - 150
Carbamazepine	107	114	P/P	60 - 150
Carbaryl	105	96.1	P/P	60 - 150
Carbofuran	109	111	P/P	50 - 150
Clothianidin	102	100	P/P	60 - 150
Dinotefuran	106	105	P/P	50 - 150
Diuron	98.3	108	P/P	60 - 160
Fenuron	105	104	P/P	60 - 150
Fluridone	112	115	P/P	60 - 160
Hydrocodone	110	110	P/P	60 - 150
Ibuprofen	124	150	P/P	50 - 160
Imazapyr	82.8	74.5	P/P	50 - 150
Imidacloprid	99.1	101	P/P	60 - 150
Linuron	97.2	91.8	P/P	60 - 150
Mandestrobin	103	98.7	P/P	50 - 150
MCPP	94.9	81.8	P/P	50 - 150
Methiocarb	97.4	100	P/P	50 - 150
Methomyl	101	99.6	P/P	50 - 150
Naproxen	129	129	P/P	50 - 160
Oxamyl	104	103	P/P	50 - 150
Primidone	96.1	96.4	P/P	60 - 150
Propoxur	103	105	P/P	50 - 150
Pyraclostrobin	108	109	P/P	60 - 150
Silvex	81.9	76.7	P/P	50 - 150
Thiamethoxam	116	111	P/P	50 - 150
Tolfenpyrad	98.7	98.2	P/P	60 - 150
Triclopyr	78.1	69.6	P/P	50 - 150

Reference Method: SM 5310 B-2014
Run ID: A124160
Included Lab Sample IDs: 2467191

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	128	94.6	P/P	70 - 130

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A124178
Included Lab Sample IDs: 2467215

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	106	105	P/P	90 - 110
Iron	105	105	P/P	90 - 110
Magnesium	105	104	P/P	90 - 110
Potassium	102	102	P/P	90 - 110
Sodium	102	102	P/P	90 - 110
Strontium	97.7	96.9	P/P	90 - 110
Tin	100	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A124178

Included Lab Sample IDs: 2467215

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Titanium	103	103	P/P	90 - 110
Vanadium	103	103	P/P	90 - 110
Zinc	101	101	P/P	90 - 110

Reference Method: SM 5310 B-2014

Run ID: A124179

Included Lab Sample IDs: 2467187, 2467189

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.3	116	P/P	85 - 115

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124193

Included Lab Sample IDs: 2467187, 2467189

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.1	103	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A124236

Included Lab Sample IDs: 2467186, 2467188, 2467190

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.7	98.3	P/P	90 - 110
Total Alkalinity	98.0	94.5	P/P	90 - 110
Total Alkalinity	98.3	95.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A124236

Included Lab Sample IDs: 2467186, 2467188, 2467190

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	104	106	P/P	90 - 110
Fluoride	106	106	P/P	90 - 110
Fluoride	106	107	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A124256

Included Lab Sample IDs: 2469116

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	106	106	P/P	90 - 110
Antimony	100	101	P/P	90 - 110
Arsenic	92.6	92.9	P/P	90 - 110
Barium	101	101	P/P	90 - 110
Beryllium	94.5	92.8	P/P	90 - 110
Boron	105	106	P/P	90 - 110
Cadmium	96.7	95.8	P/P	90 - 110
Chromium	97.6	97.6	P/P	90 - 110
Cobalt	93.8	93.9	P/P	90 - 110
Copper	94.6	94.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A124256

Included Lab Sample IDs: 2469116

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	94.4	92.7	P/P	90 - 110
Manganese	97.2	98.8	P/P	90 - 110
Molybdenum	96.0	94.5	P/P	90 - 110
Nickel	95.3	94.0	P/P	90 - 110
Selenium	98.4	100	P/P	90 - 110
Silver	95.4	94.7	P/P	90 - 110
Thallium	96.0	94.3	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A124262

Included Lab Sample IDs: 2467210, 2467212

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Chlordane	91.9		P	80 - 120
Toxaphene	82.7		P	80 - 120
Toxaphene	95.1		P	80 - 120

Reference Method: EPA 8270E

Run ID: A124272

Included Lab Sample IDs: 2467211

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	88.4		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.1		P	80 - 120
Avobenzene	102		P	80 - 120
Dechlorane 602	92.5		P	80 - 120
Dechlorane 603	96.5		P	80 - 120
Dechlorane Plus	104		P	80 - 120
Hexabromobenzene	87.7		P	80 - 120
Octinoxate	108		P	80 - 120
Oxybenzone	105		P	80 - 120
PBB-153	90.1		P	80 - 120
PBDE-47	111		P	80 - 120
PBDE-99	95.6		P	80 - 120
Pentabromotoluene	91.6		P	80 - 120
Tetradecachloro-m-terphenyl	100		P	80 - 120
Tri-o-cresyl Phosphate	104		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	105		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	108		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124275

Included Lab Sample IDs: 2467191

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A124304

Included Lab Sample IDs: 2469116

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	95.0	92.9	P/P	90 - 110
Iron	98.1	96.5	P/P	90 - 110
Magnesium	96.9	94.6	P/P	90 - 110
Tin	94.9	92.2	P/P	90 - 110
Titanium	98.3	97.0	P/P	90 - 110
Vanadium	97.8	96.8	P/P	90 - 110
Zinc	92.3	90.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A124311

Included Lab Sample IDs: 2467210, 2467212

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	96.6		P	80 - 120
PCB-1260	90.0		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A124344

Included Lab Sample IDs: 2467186, 2467188, 2467190

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	105	105	P/P	90 - 110
Sulfate	107	106	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A124393

Included Lab Sample IDs: 2469116

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Potassium	104	104	P/P	90 - 110
Sodium	99.8	101	P/P	90 - 110
Strontium	102	102	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A124457

Included Lab Sample IDs: 2467210, 2467212

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	108		P	80 - 120
Alpha-BHC	108		P	80 - 120
Alpha-Chlordane	114		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	96.7		P	80 - 120
Bifenthrin	94.2		P	80 - 120
Chlorothalonil	104		P	80 - 120
Cis-Nonachlor	111		P	80 - 120
Cypermethrin	96.3		P	80 - 120
Dacthal	111		P	80 - 120
DDD-p,p'	106		P	80 - 120
DDE-p,p'	107		P	80 - 120
DDT-p,p'	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A124457

Included Lab Sample IDs: 2467210, 2467212

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Delta-BHC	108		P	80 - 120
Deltamethrin	94.8		P	80 - 120
Dichlobenil	101		P	80 - 120
Dicofol	78.8*		F	80 - 120
Dieldrin	99.0		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	107		P	80 - 120
Endosulfan Sulfate	104		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	99.6		P	80 - 120
Endrin Ketone	102		P	80 - 120
Esfenvalerate	96.9		P	80 - 120
Ethalfuralin	92.4		P	80 - 120
Fenpropathrin	89.3		P	80 - 120
Gamma-BHC	90.8		P	80 - 120
Gamma-Chlordane	90.6		P	80 - 120
Heptachlor	87.9		P	80 - 120
Heptachlor Epoxide	106		P	80 - 120
Hexachlorobenzene	107		P	80 - 120
Kepone	104		P	80 - 120
Lambda-Cyhalothrin	96.8		P	80 - 120
Methoprene	104		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	103		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	88.4		P	80 - 120
Piperonyl Butoxide	93.9		P	80 - 120
Prallethrin	105		P	80 - 120
Tau-Fluvalinate	87.8		P	80 - 120
Tetramethrin	96.3		P	80 - 120
Trans-Nonachlor	113		P	80 - 120
Triclosan Methyl	89.4		P	80 - 120
Trifluralin	94.5		P	80 - 120

Reference Method: EPA 8270E

Run ID: A124492

Included Lab Sample IDs: 2467211

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.0		P	80 - 120
Alachlor	97.4		P	80 - 120
Ametryn	109		P	80 - 120
Atrazine	106		P	80 - 120
Atrazine Desethyl	115		P	80 - 120
Azinphos Methyl	84.9		P	80 - 120
Azoxystrobin	97.1		P	80 - 120
Bromacil	98.1		P	80 - 120
Butylate	91.9		P	80 - 120
Caffeine	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124492
Included Lab Sample IDs: 2467211

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbophenothion	81.0		P	80 - 120
Carfentrazone Ethyl	80.8		P	80 - 120
Chlorfenapyr	82.7		P	80 - 120
Chlorpyrifos Ethyl	84.6		P	80 - 120
Chlorpyrifos Methyl	104		P	80 - 120
Coumaphos	90.4		P	80 - 120
Cyanazine	88.2		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	96.0		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	80.9		P	80 - 120
Dimethenamid	102		P	80 - 120
Dimethomorph	81.0		P	80 - 120
Disulfoton	110		P	80 - 120
Dithiopyr	121*		F	80 - 120
EPTC	99.5		P	80 - 120
Ethion	84.2		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	95.9		P	80 - 120
Fenamiphos	95.0		P	80 - 120
Fenbuconazole	93.3		P	80 - 120
Fipronil	82.2		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	95.4		P	80 - 120
Fipronil Sulfone	92.2		P	80 - 120
Fluazifop-P-butyl	89.4		P	80 - 120
Fludioxonil	109		P	80 - 120
Flumioxazin	92.1		P	80 - 120
Flutolanil	95.3		P	80 - 120
Fluxapyroxad	103		P	80 - 120
Fonofos	102		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	108		P	80 - 120
Iprodione	90.2		P	80 - 120
Loratadine	87.2		P	80 - 120
Malathion	82.4		P	80 - 120
Metalaxyl	101		P	80 - 120
Metolachlor	96.9		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	98.8		P	80 - 120
Molinate	87.1		P	80 - 120
Myclobutanil	94.9		P	80 - 120
Naled	116		P	80 - 120
Napropamide	107		P	80 - 120
Norflurazon	92.8		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	106		P	80 - 120
Parathion Ethyl	98.0		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	108		P	80 - 120
Phenytain	96.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124492
Included Lab Sample IDs: 2467211

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Phorate	96.7		P	80 - 120
Prodiamine	114		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	107		P	80 - 120
Propanil	114		P	80 - 120
Propargite	91.3		P	80 - 120
Propiconazole	83.4		P	80 - 120
Pyraflufen Ethyl	83.1		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	110		P	80 - 120
Stiropfos	100		P	80 - 120
Sulfentrazone	98.1		P	80 - 120
Tebuconazole	97.5		P	80 - 120
Terbufos	97.3		P	80 - 120
Terbuthylazine	97.8		P	80 - 120
Thiobencarb	112		P	80 - 120
Triadimefon	98.3		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	96.1					7.58	
EPA 180.1 Rev. 2.0	Turbidity	102					3.19	
EPA 200.7 Rev. 4.4	Calcium	109	106	109				0.0995
	Calcium	94.7						0.470
	Iron	114	114	113	114			0.788
	Iron	100	95.9	97.7				1.54
	Magnesium	108	106	113				0.136
	Magnesium	95.6						2.13
	Potassium	102	102	101				0.0867
	Potassium	102						1.13
	Sodium	104	103	104				0.0566
	Sodium	101						1.36
	Strontium	97.1	95.0	94.4	95.8			0.606
	Strontium	100						0.854
	Tin	97.4	94.0	93.1	94.8			1.01
	Tin	96.2	90.4	86.6				4.27
	Titanium	103	102	99.1	99.3			2.99
	Titanium	101	73.4	81.7				6.61
	Vanadium	101	101	99.6	102			0.921
	Vanadium	98.2	102	104				2.61
	Zinc	96.7	94.2	93.4	97.6			0.762
	Zinc	92.1	92.1	92.0				0.102
EPA 200.8 Rev. 5.4	Aluminum	101	100	102	102			1.57
	Aluminum	106	116	112				2.55
	Antimony	100	104	102	102			1.25
	Antimony	103	107	105				1.77
	Arsenic	103	104	105	102			0.526
	Arsenic	97.8	104	103				0.585
	Barium	101	104	102	102			1.45
	Barium	103	106	104				1.69
	Beryllium	97.2	97.5	97.8	97.4			0.325
	Beryllium	90.8	90.9	89.3				1.71
	Boron	105	103	105	104			1.43
	Boron	112						2.41
	Cadmium	99.4	102	102	103			0.132
	Cadmium	102	101	95.5				5.25
	Chromium	104	105	104	104			1.02
	Chromium	105	105	105				0.0066
	Cobalt	102	102	103	102			0.183
	Cobalt	98.7	102	99.7				2.37
	Copper	102	102	102	101			0.220
	Copper	97.4	101	99.8				1.58
	Lead	95.8	96.9	96.9	98.1			0.0010
	Lead	97.7	105	103				1.34
	Manganese	103	104	105	104			0.384
	Manganese	103	102	100				1.31
	Molybdenum	99.5	101	102	103			0.972
	Molybdenum	99.3	112	110				1.75
	Nickel	102	103	104	103			0.816
	Nickel	97.9	99.2	99.8				0.521
	Selenium	104	103	104	103			0.532
	Selenium	102	105	104				1.17
	Silver	104	103	102	104			1.08
	Silver	98.9	88.6	87.3				1.48

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
EPA 200.8 Rev. 5.4	Thallium	101	104	104	104		0.0100
	Thallium	101	106	106			0.649
EPA 300.0 Rev. 2.1	Chloride	108	93.7	95.4		3.03	
	Sulfate	110	108			3.45	
EPA 350.1 Rev. 2.0	Ammonia-N	95.0	96.2	95.6			0.529
	Ammonia-N	94.2	102	103			1.17
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	102	104			2.18
	Kjeldahl Nitrogen	103	108	101			5.11
EPA 353.2 Rev. 2.0	NO2NO3-N	103	102	104			1.45
	NO2NO3-N	102	101	102			0.755
	NO2NO3-N	100	102	103			0.487
EPA 365.1 Rev. 2.0	Total-P	105	97.0	95.0			2.03
	Total-P	100	102	103			0.648
	Total-P	100	105	101			3.37
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	56.6	43.1	33.1			26.3
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.1	86.0	84.4			1.87
	Acetochlor	90.4	96.3	90.9			5.79
	Alachlor	96.4	93.7	88.3			5.98
	Aldrin	86.3	71.9	67.0			6.94
	Alpha-BHC	95.8	96.3	85.2			12.3
	Alpha-Chlordane	76.0	70.2	53.6			23.9
	Ametryn	116	120	94.1			24.3
	Atrazine	92.9	116	86.6			6.95
	Atrazine Desethyl	102	109	104			3.97
	Avobenzone	140	98.1	99.6			1.54
	Azinphos Methyl	172	165	171			3.32
	Azoxystrobin	94.4	113	106			6.54
	Beta-BHC	125	97.2	99.8			2.64
	Beta-Cyfluthrin	54.7	88.8	84.7			4.77
	Bifenthrin	49.9	75.9	62.8			18.8
	Bromacil	94.8	108	95.0			12.3
	Butylate	66.1	71.9	47.9			40.0
	Caffeine	92.7	108	112			4.13
	Carbophenothion	117	107	119			10.5
	Carfentrazone Ethyl	131	120	117			2.70
	Chlorfenapyr	82.3	81.5	71.0			13.7
	Chlorothalonil	77.1	106	91.0			14.9
	Chlorpyrifos Ethyl	111	111	112			0.507
	Chlorpyrifos Methyl	114	133	119			10.8
	Cis-Nonachlor	78.6	64.6	59.8			7.66
	Coumaphos	116	91.7	106			14.5
	Cyanazine	97.7	126	124			1.56
	Cypermethrin	41.1	79.7	73.5			8.11
	Cyprodinil	92.7	114	89.5			23.8
	Dacthal	83.6	73.7	70.9			3.96
	DDD-p,p'	64.2	55.6	49.4			11.7
	DDE-p,p'	75.3	66.1	60.1			9.51
	DDT-p,p'	77.4	77.2	64.0			18.7
	Dechlorane 602	100	59.8	49.2			19.3
	Dechlorane 603	93.5	90.5	99.3			9.28
	Dechlorane Plus	102	87.2	84.2			3.48

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision
				LCS	SMP	MS
EPA 8270E	Delta-BHC	95.7		97.7	99.4	1.60
	Deltamethrin	61.9		113	97.7	14.5
	Demeton	75.7		73.6	67.7	8.40
	Diazinon	97.1		112	101	10.3
	Dichlobenil	47.9		23.1	22.9	0.720
	Dicofol	50.7		58.1	48.7	17.6
	Dieldrin	78.2		66.7	64.5	3.43
	Difenoconazole	111		85.8	80.7	6.12
	Dimethenamid	88.5		98.6	91.2	7.76
	Dimethomorph	114		128	112	13.7
	Disulfoton	102		123	111	10.3
	Dithiopyr	92.4		139	112	21.8
	Endosulfan I	113		155	146	6.04
	Endosulfan II	102		90.2	88.1	2.44
	Endosulfan Sulfate	89.9		71.0	69.4	2.26
	Endrin	87.5		75.8	71.9	5.36
	Endrin Aldehyde	51.7		23.8	25.3	6.03
	Endrin Ketone	153		203	177	13.4
	EPTC	63.2		65.8	42.1	43.8
	Esfenvalerate	55.2		96.0	87.0	9.77
	Ethalfuralin	78.8		69.5	65.2	6.39
	Ethion	84.7		48.6	63.6	26.8
	Ethoprop	90.8		104	93.2	11.4
	Etridiazole	64.6		66.3	46.0	36.2
	Fenamiphos	97.2		132	116	13.4
	Fenbuconazole	102		66.2	81.4	20.6
	Fenpropathrin	61.2		78.7	71.1	10.2
	Fipronil	80.7		93.4	70.2	24.7
	Fipronil Desulfinyl	113		111	82.2	27.6
	Fipronil Sulfide	96.2		105	77.9	16.2
	Fipronil Sulfone	90.4		61.9	56.0	3.28
	Fluazifop-P-butyl	96.9		95.3	56.4	51.2
	Fludioxonil	97.0		83.4	92.2	9.95
	Flumioxazin	142		87.8	80.4	8.81
	Flutolanil	113		111	113	1.37
	Fluxapyroxad	96.8		70.6	89.5	23.6
	Fonofos	92.2		111	86.3	25.0
	Gamma-BHC	49.4		68.3	69.7	2.01
	Gamma-Chlordane	93.2		132	95.7	28.8
	Heptachlor	71.2		78.1	67.8	14.1
	Heptachlor Epoxide	111		152	126	18.0
	Hexabromobenzene	78.9		132	93.1	34.5
	Hexachlorobenzene	54.6		41.6	42.4	1.88
	Hexazinone	94.7		98.1	95.8	2.41
	Imazalil	97.4		84.0	86.7	3.18
	Iprodione	96.6		94.2	90.0	4.62
	Kepone	112		57.0	56.5	0.919
	Lambda-Cyhalothrin	54.8		82.3	77.4	6.17
	Loratadine	109		120	89.3	29.6
	Malathion	106		115	106	8.26
	Metalaxyl	94.2		84.5	73.6	13.7
	Methoprene	45.1		78.5	64.2	20.0
	Methoxychlor	81.2		97.2	86.5	11.6
	Metolachlor	105		113	100	11.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Metribuzin	106	111	96.5			14.0
	Mevinphos	96.1	112	97.2			14.1
	MGK-264	73.0	72.3	65.2			10.4
	Mirex	62.6	58.8	47.4			21.6
	Molinate	63.9	67.0	58.2			14.0
	Myclobutanil	92.3	92.7	85.1			8.53
	Naled	58.4	58.8	55.6			5.43
	Napropamide	103	65.2	70.7			8.10
	Norflurazon	89.1	70.4	72.7			3.19
	Octinoxate	125	100	108			7.95
	Oxadiazon	83.9	86.3	68.3			23.3
	Oxybenzone	123	89.3	107			17.8
	Oxychlordane	105	163	136			17.7
	Oxyfluorfen	123	119	124			4.12
	Parathion Ethyl	109	89.6	96.3			7.24
	Parathion Methyl	113	124	120			3.40
	PBB-153	92.2	93.8	88.3			6.11
	PBDE-47	115	90.2	94.1			4.18
	PBDE-99	95.0	78.7	77.9			1.08
	PCB-1016	83.3	82.7	83.1			0.493
	PCB-1260	80.2	60.0	59.7			0.489
	Pendimethalin	145	166	142			16.0
	Pentabromotoluene	85.8	90.3	79.3			12.9
	Permethrin	55.8	87.2	76.5			13.1
	Phenothrin	43.4	80.5	67.8			17.1
	Phenytoin	48.2	60.1	68.2			12.5
	Phorate	93.3	95.0	95.5			0.546
	Piperonyl Butoxide	70.2	92.1	74.4			21.3
	Prallethrin	72.2	77.6	65.3			17.1
	Prodimamine	47.6	71.3	58.5			19.7
	Prometon	101	111	108			2.19
	Prometryn	127	146	91.9			45.2
	Pronamide	115	112	106			5.46
	Propanil	161	136	146			7.02
	Propargite	71.9	48.8	54.4			10.9
	Propiconazole	82.4	72.9	75.6			3.67
	Pyraflufen Ethyl	86.1	64.0	81.7			24.2
	Pyridaben	119	97.3	97.3			0.0145
	Pyriproxyfen	110	88.1	85.9			2.53
	Simazine	107	137	94.8			17.2
	Stirophos	120	69.0	37.4			59.3
	Sulfentrazone	69.2	72.1	60.7			7.97
	Tau-Fluvalinate	42.2	73.0	65.9			10.3
	Tebuconazole	87.3	42.4	54.6			25.1
	Terbufos	98.0	114	88.6			24.7
	Terbuthylazine	82.0	93.3	82.0			12.9
	Tetradecachloro-m-terphenyl	80.6	143	96.4			39.0
	Tetramethrin	58.9	101	90.8			10.7
	Thiobencarb	113	109	102			6.92
	Trans-Nonachlor	80.0	67.6	61.2			9.99
	Tri-o-cresyl Phosphate	123	92.7	107			14.4
	Triadimefon	106	98.1	102			3.75
	Triclosan Methyl	102	129	107			19.0
	Trifluralin	83.4	81.4	69.8			15.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Tris(1-chloro-2-propyl) phosphate (TCPP)	117	122	97.8		21.9
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	122	121	104		15.0
	Tris(2-chloroethyl) phosphate (TCEP)	125	134	108		21.9
EPA 8276	Chlordane	92.2	77.8	93.4		18.3
	Toxaphene	93.1	77.4	92.7		18.0
EPA 8321B	2,4-D	70.8	59.3	61.4		3.29
	2,4,5-T	68.5	55.1	54.3		1.48
	3-Hydroxycarbofuran	78.8	73.1	66.9		8.82
	Acesulfame K	116	133	139		3.89
	Acetaminophen	77.6	80.1	87.4		8.66
	Acetamiprid	69.0	59.1	66.0		11.0
	Afidopyropen	60.2	60.4	67.2		10.6
	Aldicarb	59.4	68.3	52.1		26.8
	Aldicarb Sulfone	91.3	89.9	82.7		8.36
	Aldicarb Sulfoxide	98.1	31.9	33.1		3.63
	AMPA	106	106	106		0.403
	Bentazon	68.7				1.19
	Benzovindiflupyr	77.5	75.6	86.2		13.0
	Carbamazepine	73.1	62.2	65.6		5.32
	Carbaryl	65.8	64.4	65.1		1.03
	Carbofuran	72.7	65.2	61.4		6.07
	Clothianidin	79.6	78.7	79.5		0.996
	Dinotefuran	89.3	81.1	91.2		11.8
	Diuron	69.4	56.0	60.5		5.78
	Endothall	88.2	98.8	99.3		0.473
	Fenuron	83.7	99.5	102		2.05
	Fluridone	80.3				5.45
	Glufosinate	101	101	104		3.51
	Glyphosate	97.0	100	103		1.27
	Hydrocodone	85.8	68.7	74.3		7.90
	Ibuprofen	78.9	90.8	108		17.6
	Imazapyr	69.9				1.24
	Imidacloprid	79.9	96.9	108		10.3
	Linuron	73.3	61.3	64.9		5.73
	Mandestrobin	73.7	74.6	80.4		7.46
	MCPP	65.1	61.9	69.9		12.1
	Methiocarb	64.5	64.9	62.0		4.52
	Methomyl	85.3	77.4	72.5		6.56
	Naproxen	77.8	134	114		16.6
	Oxamyl	89.1	84.4	79.5		5.97
	Primidone	70.0	68.4	78.2		13.4
	Propoxur	61.9	60.2	58.9		2.31
	Pyraclostrobin	74.8	76.7	89.4		15.4
	Silvex	56.5	55.5	56.6		2.08
	Sucralose	105				3.64
	Thiamethoxam	85.8	75.5	84.9		11.7
	Tolfenpyrad	49.0	46.7	57.9		21.4
	Triclopyr	66.4	53.3	53.8		0.836
SM 2320 B-2011	Total Alkalinity	95.7			0.591	
	Total Alkalinity	97.4			1.14	
SM 2540 C-2015	TDS	95.6			7.14	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
SM 2540 D-2015	TSS	108				
	TSS	108				
SM 4500-F- C-2011	Fluoride	104	107	107		0.0
	Fluoride	105	104	105		0.480
SM 5310 B-2014	Organic Carbon	96.4	90.2	90.5		0.265
	Organic Carbon	97.6	100	99.9		0.300

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2467186, 2467188, 2467190
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2467186, 2467188, 2467190
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2467215, 2469116
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2467215, 2469116
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2467186, 2467188, 2467190
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2467186, 2467188, 2467190
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2467187, 2467189, 2467191
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2467187, 2467189, 2467191
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2467187, 2467189, 2467191
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2467187, 2467189, 2467191
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2467211
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2467210, 2467212
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2467211
EPA 8270E	PCBs in water matrices by GC/MS/MS	2467210, 2467212
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2467210, 2467212
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2467205
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2467206
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2467186, 2467188, 2467190
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2467215, 2469116
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2467186, 2467188, 2467190
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2467186, 2467188, 2467190
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2467186, 2467188, 2467190
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2467187, 2467189, 2467191

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	02/08/2024			02/08/2024 15:20	Anna M. Plaviak	2467186, 2467188
	02/08/2024			02/08/2024 15:22	Anna M. Plaviak	2467190
EPA 180.1 Rev. 2.0	02/08/2024			02/08/2024 13:56	Dipa Joshi	2467186
	02/08/2024			02/08/2024 13:57	Dipa Joshi	2467188
	02/08/2024			02/08/2024 13:58	Dipa Joshi	2467190
EPA 200.7 Rev. 4.4	02/08/2024	02/09/2024 12:50	George D Taylor	02/14/2024 14:53	Chase Roberts	2467215
	02/08/2024	02/12/2024 12:55	George D Taylor	02/21/2024 00:54	McKinley C Carter	2469116
	02/08/2024	02/12/2024 12:55	George D Taylor	02/21/2024 01:02	McKinley C Carter	2469116
	02/08/2024	02/12/2024 12:55	George D Taylor	02/26/2024 15:37	Chase Roberts	2469116
	02/08/2024	02/12/2024 12:55	George D Taylor	02/26/2024 15:42	Chase Roberts	2469116
EPA 200.8 Rev. 5.4	02/08/2024	02/12/2024 12:55	George D Taylor	02/26/2024 15:48	Chase Roberts	2469116
	02/08/2024	02/09/2024 12:50	George D Taylor	02/13/2024 17:49	Emily M Philpot	2467215
	02/08/2024	02/12/2024 12:55	George D Taylor	02/19/2024 17:14	Emily M Philpot	2469116
	02/08/2024	02/12/2024 12:55	George D Taylor	02/19/2024 18:59	Emily M Philpot	2469116
EPA 300.0 Rev. 2.1	02/08/2024			02/20/2024 02:33	James L Waggeberby	2467186
	02/08/2024			02/20/2024 02:48	James L Waggeberby	2467188
	02/08/2024			02/20/2024 03:04	James L Waggeberby	2467190
	02/08/2024			02/22/2024 14:22	Samantha L Bates	2467186
	02/08/2024			02/22/2024 14:37	Samantha L Bates	2467188
	02/08/2024			02/22/2024 14:53	Samantha L Bates	2467190
EPA 350.1 Rev. 2.0	02/08/2024			02/09/2024 11:46	Kenneth H Lee	2467187
	02/08/2024			02/09/2024 11:48	Kenneth H Lee	2467189
	02/08/2024			02/09/2024 12:13	Kenneth H Lee	2467191
EPA 351.2 Rev. 2.0	02/08/2024	02/12/2024 13:17	Ping Hua	02/13/2024 11:46	Ping Hua	2467191
	02/08/2024	02/12/2024 15:22	Simonne.V. Calhoun	02/15/2024 10:37	Samantha L Bates	2467187
	02/08/2024	02/12/2024 15:22	Simonne.V. Calhoun	02/15/2024 10:39	Samantha L Bates	2467189
EPA 353.2 Rev. 2.0	02/08/2024			02/09/2024 13:55	Fadila Guebre	2467191
	02/08/2024			02/12/2024 13:48	Fadila Guebre	2467187
	02/08/2024			02/13/2024 15:54	Fadila Guebre	2467189
EPA 365.1 Rev. 2.0	02/08/2024	02/13/2024 14:28	Adam P Silver	02/13/2024 18:52	Simonne.V. Calhoun	2467187
	02/08/2024	02/13/2024 14:28	Adam P Silver	02/13/2024 19:07	Simonne.V. Calhoun	2467189
	02/08/2024	02/13/2024 14:28	Adam P Silver	02/20/2024 14:08	Simonne.V. Calhoun	2467191
EPA 8270E	02/08/2024	02/12/2024 08:00	Fe-Val Siddell	02/16/2024 20:40	Julie Wi	2467210
	02/08/2024	02/12/2024 08:00	Fe-Val Siddell	02/16/2024 21:11	Julie Wi	2467212
	02/08/2024	02/12/2024 08:00	Fe-Val Siddell	02/22/2024 00:07	Vandana T. Nagar	2467210
	02/08/2024	02/12/2024 08:00	Fe-Val Siddell	02/22/2024 00:37	Vandana T. Nagar	2467212
	02/08/2024	02/13/2024 08:30	Rasheda Ghaffari	02/19/2024 20:39	Arthur Maknenko	2467211
EPA 8276	02/08/2024	02/13/2024 08:30	Rasheda Ghaffari	02/23/2024 18:41	Julie Wi	2467211
	02/08/2024	02/12/2024 08:00	Fe-Val Siddell	02/18/2024 10:06	Arthur Maknenko	2467210
	02/08/2024	02/12/2024 08:00	Fe-Val Siddell	02/18/2024 12:00	Arthur Maknenko	2467212

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	02/08/2024	02/09/2024 08:00	Tae K Lee	02/09/2024 12:38	Tae K Lee	2467206
	02/08/2024	02/09/2024 08:00	Tae K Lee	02/09/2024 16:29	Tae K Lee	2467206
	02/08/2024	02/12/2024 14:00	Hoor Shaik	02/13/2024 16:35	Juyoung Kim	2467205
	02/08/2024	02/13/2024 09:00	Hoor Shaik	02/13/2024 19:33	Juyoung Kim	2467206
	02/08/2024	02/13/2024 09:00	Hoor Shaik	02/14/2024 10:33	Juyoung Kim	2467206
SM 2320 B-2011	02/08/2024			02/17/2024 00:15	Dale L. Simmons	2467186
	02/08/2024			02/17/2024 01:01	Dale L. Simmons	2467188
	02/08/2024			02/17/2024 07:08	Dale L. Simmons	2467190
SM 2340 B-2011	02/08/2024			02/14/2024 14:53	Chase Roberts	2467215
	02/08/2024			02/21/2024 01:02	McKinley C Carter	2469116
SM 2540 C-2015	02/08/2024			02/12/2024 15:22	Yijie Li	2467186, 2467188, 2467190
SM 2540 D-2015	02/08/2024			02/12/2024 15:22	Yijie Li	2467186, 2467188, 2467190
SM 4500-F- C-2011	02/08/2024			02/17/2024 00:15	Dale L. Simmons	2467186
	02/08/2024			02/17/2024 01:01	Dale L. Simmons	2467188
	02/08/2024			02/17/2024 04:54	Dale L. Simmons	2467190
SM 5310 B-2014	02/08/2024			02/10/2024 04:25	Khloe J Berg	2467191
	02/08/2024			02/13/2024 01:16	Kenneth H Lee	2467187
	02/08/2024			02/13/2024 01:29	Kenneth H Lee	2467189