

Chemical Analysis Report

NW-DIST-2023-05-18-03

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

Event Description: **Holmes Run**
Request ID: **RQ-2023-05-15-42**
Customer: **NW-DIST**
Project ID: **SMP**

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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 05-JUN-2023 11:20



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: SIKES CREEK UPSTREAM OF HARRIS
STEVENSON RD**

Collection Date/Time: 05/17/2023 11:05

Field ID: G3NW0450

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410837	EPA 8270E	Aldrin	0.67	U	ng/L	P430112	
		Alpha-BHC	0.10	U	ng/L	P430112	
		Alpha-Chlordane	0.21	U	ng/L	P430112	
		PCB-1016	2.1	U	ng/L	P430112	
		Beta-BHC	0.10	U	ng/L	P430112	
		PCB-1221	2.1	U	ng/L	P430112	
		Beta-Cyfluthrin	1.3	U	ng/L	P430112	
		PCB-1232	2.1	U	ng/L	P430112	
		Bifenthrin	0.52	U	ng/L	P430112	
		PCB-1242	2.1	U	ng/L	P430112	
		PCB-1248	2.1	U	ng/L	P430112	
		Chlorothalonil	3.7	U	ng/L	P430112	
		PCB-1254	2.1	U	ng/L	P430112	
		Cis-Nonachlor	0.21	U	ng/L	P430112	
		PCB-1260	2.1	U	ng/L	P430112	
		Cypermethrin	1.5	U	ng/L	P430112	
		Dacthal	0.15	U	ng/L	P430112	
		DDD-p,p'	0.26	U	ng/L	P430112	
		DDE-p,p'	0.21	U	ng/L	P430112	
		DDT-p,p'	2.6	VJ	ng/L	P430112	
		Delta-BHC	0.41	U	ng/L	P430112	
		Deltamethrin	1.3	U	ng/L	P430112	
		Dichlobenil	0.26	U	ng/L	P430112	
		Dicofol	1.3	U	ng/L	P430112	
		Dieldrin	0.41	U	ng/L	P430112	
		Endosulfan I	0.41	U	ng/L	P430112	
		Endosulfan II	0.41	U	ng/L	P430112	
		Endosulfan Sulfate	0.31	U	ng/L	P430112	
		Endrin	0.41	U	ng/L	P430112	
		Endrin Aldehyde	0.77	U	ng/L	P430112	
		Endrin Ketone	0.41	U	ng/L	P430112	MS
		Esfenvalerate	0.77	U	ng/L	P430112	
		Ethalfuralin	0.15	U	ng/L	P430112	
		Fenpropathrin	0.26	U	ng/L	P430112	
		Gamma-BHC	0.13	U	ng/L	P430112	
		Gamma-Chlordane	0.24	I	ng/L	P430112	
		Heptachlor	0.21	U	ng/L	P430112	
		Heptachlor Epoxide	0.26	U	ng/L	P430112	
		Hexachlorobenzene**	1.0	U	ng/L	P430112	
		Kepone	5.2	U	ng/L	P430112	
		Lambda-Cyhalothrin	0.77	U	ng/L	P430112	
		Methoprene	0.77	U	ng/L	P430112	
		Methoxychlor	0.31	U	ng/L	P430112	

Field ID: G3NW0450

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410837	EPA 8270E	MGK-264	0.21	U	ng/L	P430112	
		Mirex	0.36	U	ng/L	P430112	
		Oxychlordane	0.31	U	ng/L	P430112	
		Permethrin	1.7	U	ng/L	P430112	
		Phenothrin	0.93	U	ng/L	P430112	
		Piperonyl Butoxide	0.15	U	ng/L	P430112	
		Prallethrin	2.1	U	ng/L	P430112	
		Tau-Fluvalinate	0.26	U	ng/L	P430112	
		Tetramethrin	0.77	U	ng/L	P430112	
		Trans-Nonachlor	0.21	U	ng/L	P430112	
		Triclosan Methyl	0.15	U	ng/L	P430112	
		Trifluralin	0.21	U	ng/L	P430112	
	EPA 8276	Chlordane	2.1	U	ng/L	P430112	RPD
		Toxaphene	15	U	ng/L	P430112	RPD
2410840	EPA 200.7 Rev. 4.4	Calcium	14.6		mg/L	P430123	
		Iron	930		ug/L	P430123	
		Magnesium	1.62		mg/L	P430123	
		Potassium	0.39	I	mg/L	P430123	
		Sodium	1.9	I	mg/L	P430123	
		Strontium	19.0		ug/L	P430123	
		Tin	3.0	U	ug/L	P430123	
		Titanium	1.4	I	ug/L	P430123	
		Vanadium	2.0	U	ug/L	P430123	
	EPA 200.8 Rev. 5.4	Aluminum	354		ug/L	P430123	
		Antimony	0.050	U	ug/L	P430123	
		Arsenic	0.46		ug/L	P430123	
		Barium	20.8		ug/L	P430123	
		Beryllium	0.028	I	ug/L	P430123	
		Boron	8.1		ug/L	P430123	
		Cadmium	0.020	U	ug/L	P430123	
		Chromium	0.52	I	ug/L	P430123	
		Cobalt	0.761		ug/L	P430123	
		Copper	0.46	I	ug/L	P430123	
		Lead	0.78		ug/L	P430123	
		Manganese	216		ug/L	P430123	
		Molybdenum	0.15	U	ug/L	P430123	
		Nickel	0.50	U	ug/L	P430123	
		Selenium	0.20	U	ug/L	P430123	
		Silver	0.010	U	ug/L	P430123	
		Thallium	0.10	U	ug/L	P430123	
		Zinc	7.0	U	ug/L	P430123	
	SM 2340 B-2011	Hardness	43.2		mg/L	P430123	

Ref. Method and Comment:

EPA 8270E: V - Due to the presence of ddt-p,p' in both the Method Blank and the sample. Estimated value for ddt-p,p' due to internal standard recovery exceeding control limits.

Sample Location: ANDERSON MILL CREEK

Collection Date/Time: 05/17/2023 12:00

Field ID: G3NW0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410822	DEP SOP: NU-094-1	Color (true)	83		PCU	P430070	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P430079	
	EPA 300.0 Rev. 2.1	Chloride	3.5		mg Cl/L	P430368	
		Sulfate	0.33	I	mg SO4/L	P430372	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P430537	
	SM 2540 C-2015	TDS	25		mg/L	P430683	
	SM 2540 D-2015	TSS	2	U	mg/L	P430520	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P430544	RPD
2410823	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P430411	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30		mg N/L	P430239	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.021		mg N/L	P430629	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P430172	
	SM 5310 B-2011	Organic Carbon	6.3		mg C/L	P430227	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: HUCKLEBERRY CREEK

Collection Date/Time: 05/17/2023 12:15

Field ID: G3NW0135

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410834	EPA 8321B	2,4-D	0.064		ug/L	P430178	
		Acesulfame K	0.10	U	ug/L	P430081	
		2,4,5-T	0.0040	U	ug/L	P430178	
		AMPA	0.10	U	ug/L	P430081	
		Acetaminophen	0.0080	U	ug/L	P430178	
		Acetamiprid	0.0020	U	ug/L	P430178	
		Endothall	0.25	U	ug/L	P430081	
		Glufosinate	0.10	U	ug/L	P430081	
		Glyphosate	0.10	U	ug/L	P430081	
		Afidopyropen	0.0020	U	ug/L	P430178	
		Bentazon	8.0E-04	U	ug/L	P430178	
		Sucralose	0.25		ug/L	P430081	
		Benzovindiflupyr	0.0020	U	ug/L	P430178	
		Carbamazepine	8.0E-04	U	ug/L	P430178	
		Clothianidin	0.0020	U	ug/L	P430178	
		Dinotefuran	0.0020	U	ug/L	P430178	
		Diuron	0.0020	U	ug/L	P430178	
		Fenuron	0.032	U	ug/L	P430178	
		Fluridone	8.0E-04	U	ug/L	P430178	
		Imazapyr	0.0043	I	ug/L	P430178	
		Hydrocodone	0.0020	U	ug/L	P430178	
		Ibuprofen	0.080	U	ug/L	P430178	
		Imidacloprid	0.0020	U	ug/L	P430178	MS
		Linuron	0.0040	U	ug/L	P430178	
		Mandestrobin	0.0020	U	ug/L	P430178	
		MCPP	0.0020	U	ug/L	P430178	
		Naproxen	0.0080	U	ug/L	P430178	
		Primidone	0.0040	U	ug/L	P430178	
		Pyraclostrobin	0.0020	U	ug/L	P430178	
		Silvex	0.0040	U	ug/L	P430178	
		Thiamethoxam	0.0020	U	ug/L	P430178	
		Tolfenpyrad	0.0020	U	ug/L	P430178	
		Triclopyr	0.0040	U	ug/L	P430178	
2410839	EPA 200.7 Rev. 4.4	Calcium	2.23		mg/L	P430123	
		Iron	1.20E+03		ug/L	P430123	
		Magnesium	0.98		mg/L	P430123	
		Potassium	0.77	I	mg/L	P430123	
		Sodium	2.0		mg/L	P430123	
		Strontium	9.1		ug/L	P430123	
		Tin	3.0	U	ug/L	P430123	
		Titanium	0.75	U	ug/L	P430123	
		Vanadium	2.0	U	ug/L	P430123	
	EPA 200.8 Rev. 5.4	Aluminum	158		ug/L	P430123	
		Antimony	0.050	U	ug/L	P430123	

Field ID: G3NW0135

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410839	EPA 200.8 Rev. 5.4	Arsenic	0.60		ug/L	P430123	
		Barium	14.1		ug/L	P430123	
		Beryllium	0.014	I	ug/L	P430123	
		Boron	9.2		ug/L	P430123	
		Cadmium	0.020	U	ug/L	P430123	
		Chromium	0.40	U	ug/L	P430123	
		Cobalt	0.067	I	ug/L	P430123	
		Copper	0.40	U	ug/L	P430123	
		Lead	0.22	I	ug/L	P430123	
		Manganese	14.6		ug/L	P430123	
		Molybdenum	0.15	U	ug/L	P430123	
		Nickel	0.50	U	ug/L	P430123	
		Selenium	0.20	U	ug/L	P430123	
		Silver	0.010	U	ug/L	P430123	
		Thallium	0.10	U	ug/L	P430123	
		Zinc	7.0	U	ug/L	P430123	
	SM 2340 B-2011	Hardness	9.6		mg/L	P430123	

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

Sample Location: CHOCTAWHATCHEE RIVER UPSTREAM HWY 90 BOAT RAMP **Collection Date/Time: 05/17/2023 10:35**

Field ID: G3NW0052

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410820	DEP SOP: NU-094-1	Color (true)	13		PCU	P430072	
	EPA 180.1 Rev. 2.0	Turbidity	17		NTU	P430079	
	EPA 300.0 Rev. 2.1	Chloride	5.2		mg Cl/L	P430368	
		Sulfate	2.4		mg SO4/L	P430372	
	SM 2320 B-2011	Total Alkalinity	37		mg CaCO3/L	P430537	
	SM 2540 C-2015	TDS	72		mg/L	P430683	
	SM 2540 D-2015	TSS	19		mg/L	P430520	
	SM 4500-F- C-2011	Fluoride	0.050	I	mg F/L	P430544	RPD
2410821	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P430411	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.31		mg N/L	P430239	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.61		mg N/L	P430629	
	EPA 365.1 Rev. 2.0	Total-P	0.071		mg P/L	P430172	
	SM 5310 B-2011	Organic Carbon	3.4		mg C/L	P430227	
2410832	EPA 8321B	Aldicarb	0.020	U	ug/L	P430052	
		Aldicarb Sulfone	0.0020	U	ug/L	P430052	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P430052	MS
		Carbaryl	0.0020	U	ug/L	P430052	
		Carbofuran	0.0020	U	ug/L	P430052	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P430052	
		Methiocarb	0.0020	U	ug/L	P430052	
		Methomyl	0.0020	U	ug/L	P430052	
		Oxamyl	0.0020	U	ug/L	P430052	
		Propoxur	0.0020	U	ug/L	P430052	
2410833		2,4-D	0.016		ug/L	P430178	
		Acesulfame K	0.10	U	ug/L	P430081	
		2,4,5-T	0.0040	U	ug/L	P430178	
		AMPA	0.10	U	ug/L	P430081	
		Acetaminophen	0.0080	U	ug/L	P430178	
		Acetamiprid	0.0020	U	ug/L	P430178	
		Endothall	0.25	U	ug/L	P430081	
		Glufosinate	0.10	U	ug/L	P430081	
		Glyphosate	0.10	U	ug/L	P430081	
		Afidopyropen	0.0020	U	ug/L	P430178	
		Bentazon	0.0027	I	ug/L	P430178	
		Sucralose	0.62		ug/L	P430081	
		Benzovindiflupyr	0.0020	U	ug/L	P430178	
		Carbamazepine	0.0010	I	ug/L	P430178	
		Clothianidin	0.0020	U	ug/L	P430178	
		Dinotefuran	0.0020	U	ug/L	P430178	
		Diuron	0.0020	U	ug/L	P430178	
		Fenuron	0.032	U	ug/L	P430178	
		Fluridone	8.0E-04	U	ug/L	P430178	
		Imazapyr	0.011	I	ug/L	P430178	

Field ID: G3NW0052

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410833	EPA 8321B	Hydrocodone	0.0020	U	ug/L	P430178	MS
		Ibuprofen	0.080	U	ug/L	P430178	
		Imidacloprid	0.015		ug/L	P430178	
		Linuron	0.0040	U	ug/L	P430178	
		Mandestrobin	0.0020	U	ug/L	P430178	
		MCP	0.0020	U	ug/L	P430178	
		Naproxen	0.0080	U	ug/L	P430178	
		Primidone	0.0040	U	ug/L	P430178	
		Pyraclostrobin	0.0020	U	ug/L	P430178	
		Silvex	0.0040	U	ug/L	P430178	
		Thiamethoxam	0.0020	U	ug/L	P430178	
		Tolfenpyrad	0.0020	U	ug/L	P430178	
		Triclopyr	0.0040	U	ug/L	P430178	
2410835	EPA 8270E	Aldrin	0.68	U	ng/L	P430112	MS
		Alpha-BHC	0.10	U	ng/L	P430112	
		Alpha-Chlordane	0.21	U	ng/L	P430112	
		PCB-1016	2.1	U	ng/L	P430112	
		Beta-BHC	0.10	U	ng/L	P430112	
		PCB-1221	2.1	U	ng/L	P430112	
		Beta-Cyfluthrin	1.3	U	ng/L	P430112	
		PCB-1232	2.1	U	ng/L	P430112	
		Bifenthrin	0.52	U	ng/L	P430112	
		PCB-1242	2.1	U	ng/L	P430112	
		Carbophenothion	0.94	U	ng/L	P430112	
		PCB-1248	2.1	U	ng/L	P430112	
		Chlorothalonil	3.8	U	ng/L	P430112	
		PCB-1254	2.1	U	ng/L	P430112	
		Cis-Nonachlor	0.21	U	ng/L	P430112	
		PCB-1260	2.1	U	ng/L	P430112	
		Cypermethrin	1.6	U	ng/L	P430112	
		Dacthal	0.16	U	ng/L	P430112	
		DDD-p,p'	0.26	U	ng/L	P430112	
		DDE-p,p'	0.21	U	ng/L	P430112	
		DDT-p,p'	0.83	IV	ng/L	P430112	
		Delta-BHC	0.42	U	ng/L	P430112	
		Deltamethrin	1.3	U	ng/L	P430112	
		Dichlobenil	0.26	U	ng/L	P430112	
		Dicofol	1.3	U	ng/L	P430112	
		Dieldrin	0.42	U	ng/L	P430112	
		Endosulfan I	0.42	U	ng/L	P430112	
		Endosulfan II	0.42	U	ng/L	P430112	
		Endosulfan Sulfate	0.31	U	ng/L	P430112	
		Endrin	0.42	U	ng/L	P430112	
		Endrin Aldehyde	0.78	U	ng/L	P430112	
		Endrin Ketone	0.42	UJ	ng/L	P430112	

Field ID: G3NW0052

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410835	EPA 8270E	Esfenvalerate	0.78	U	ng/L	P430112	
		Ethalfuralin	0.16	U	ng/L	P430112	
		Fenpropathrin	0.26	U	ng/L	P430112	
		Gamma-BHC	0.13	U	ng/L	P430112	
		Gamma-Chlordane	0.21	U	ng/L	P430112	
		Heptachlor	0.21	U	ng/L	P430112	
		Heptachlor Epoxide	0.26	U	ng/L	P430112	
		Hexachlorobenzene**	1.0	U	ng/L	P430112	
		Kepone	5.2	U	ng/L	P430112	
		Lambda-Cyhalothrin	0.78	U	ng/L	P430112	
		Methoprene	0.78	U	ng/L	P430112	
		Methoxychlor	0.31	U	ng/L	P430112	
		MGK-264	0.21	U	ng/L	P430112	
		Mirex	0.36	U	ng/L	P430112	
		Oxychlordane	0.31	U	ng/L	P430112	
		Permethrin	1.7	U	ng/L	P430112	
		Phenothrin	0.94	U	ng/L	P430112	
		Piperonyl Butoxide	0.16	U	ng/L	P430112	
		Prallethrin	2.1	U	ng/L	P430112	
		Tau-Fluvalinate	0.26	U	ng/L	P430112	
		Tetramethrin	0.78	U	ng/L	P430112	
		Trans-Nonachlor	0.21	U	ng/L	P430112	
		Triclosan Methyl	0.16	U	ng/L	P430112	
		Trifluralin	0.21	U	ng/L	P430112	
	EPA 8276	Chlordane	2.1	U	ng/L	P430112	RPD
		Toxaphene	16	U	ng/L	P430112	RPD
2410836	EPA 8270E	Oxybenzone**	10	U	ng/L	P430033	
		Acetochlor	2.5		ng/L	P430033	
		Octinoxate**	21	U	ng/L	P430033	
		Alachlor	0.41	U	ng/L	P430033	
		Avobenzone**	100	U	ng/L	P430033	MS
		Ametryn	1.1	U	ng/L	P430033	
		Atrazine	140		ng/L	P430033	
		PBDE-47**	4.1	U	ng/L	P430033	
		Atrazine Desethyl	11		ng/L	P430033	
		PBDE-99**	5.1	U	ng/L	P430033	
		Azinphos Methyl	3.1	U	ng/L	P430033	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P430033	
		Azoxystrobin	0.41	U	ng/L	P430033	
		Bromacil	0.62	U	ng/L	P430033	
		2-Ethylhexyl	12	UJ	ng/L	P430033	LCS
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P430033	
		Dechlorane Plus**	31	U	ng/L	P430033	
		Caffeine**	36	I	ng/L	P430033	

Field ID: G3NW0052

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410836	EPA 8270E	Dechlorane 602**	5.1	U	ng/L	P430033	RPD
		Carbophenothion	0.51	U	ng/L	P430033	
		Dechlorane 603**	4.1	U	ng/L	P430033	
		Carfentrazone Ethyl	0.15	U	ng/L	P430033	
		Hexabromobenzene**	6.2	U	ng/L	P430033	
		Chlorfenapyr	0.31	U	ng/L	P430033	
		PBB-153**	8.2	U	ng/L	P430033	MS, RPD
		Chlorpyrifos Ethyl	0.31	U	ng/L	P430033	
		Pentabromotoluene**	3.1	U	ng/L	P430033	
		Chlorpyrifos Methyl	0.10	U	ng/L	P430033	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P430033	
		Coumaphos	1.1	U	ng/L	P430033	RPD
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	19	I	ng/L	P430033	
		Cyanazine	5.1	U	ng/L	P430033	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	3.5	I	ng/L	P430033	
		Cyprodinil	0.21	U	ng/L	P430033	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P430033	MS
		Demeton	3.6	U	ng/L	P430033	
		Diazinon	0.13	U	ng/L	P430033	
		Difenoconazole	0.62	U	ng/L	P430033	MS, RPD
		Dimethenamid	0.24	I	ng/L	P430033	
		Dimethomorph	0.31	U	ng/L	P430033	
		Disulfoton	0.62	U	ng/L	P430033	
		Dithiopyr	1.0	U	ng/L	P430033	
		EPTC	0.51	U	ng/L	P430033	
		Ethion	0.31	U	ng/L	P430033	
		Ethoprop	0.13	U	ng/L	P430033	
		Etridiazole	0.10	U	ng/L	P430033	
		Fenamiphos	0.46	U	ng/L	P430033	
		Fenbuconazole	0.51	U	ng/L	P430033	MS
		Fipronil	1.6		ng/L	P430033	
		Fipronil Desulfinyl**	0.95		ng/L	P430033	
		Fipronil Sulfide	0.31	I	ng/L	P430033	
		Fipronil Sulfone	0.51	I	ng/L	P430033	
		Fluazifop-P-butyl	0.10	U	ng/L	P430033	
		Fludioxonil	0.10	U	ng/L	P430033	
		Flumioxazin	3.1	U	ng/L	P430033	RPD
		Flutolanil	0.10	U	ng/L	P430033	
		Fluxapyroxad	1.3	I	ng/L	P430033	
		Fonofos	0.15	U	ng/L	P430033	
		Hexazinone	0.51	U	ng/L	P430033	
		Imazalil	0.67	U	ng/L	P430033	
		Iprodione	0.51	U	ng/L	P430033	RPD
		Loratadine**	0.31	U	ng/L	P430033	

Field ID: G3NW0052

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410836	EPA 8270E	Malathion	0.36	U	ng/L	P430033	
		Metalaxyl	1.0	I	ng/L	P430033	
		Metolachlor	17		ng/L	P430033	
		Metribuzin	0.41	U	ng/L	P430033	
		Mevinphos	1.0	U	ng/L	P430033	
		Molinate	0.26	U	ng/L	P430033	
		Myclobutanil	0.36	U	ng/L	P430033	
		Naled	2.6	U	ng/L	P430033	
		Napropamide	0.72	U	ng/L	P430033	
		Norflurazon	1.0	U	ng/L	P430033	
		Oxadiazon	1.1	I	ng/L	P430033	
		Oxyfluorfen	0.21	U	ng/L	P430033	
		Parathion Ethyl	0.15	U	ng/L	P430033	
		Parathion Methyl	0.21	U	ng/L	P430033	
		Pendimethalin	5.2		ng/L	P430033	
		Phenytol**	5.5	U	ng/L	P430033	
		Phorate	0.26	U	ng/L	P430033	
		Prodiamine	0.21	U	ng/L	P430033	
		Prometon	3.1	U	ng/L	P430033	
		Prometryn	0.36	U	ng/L	P430033	
		Pronamide	0.10	U	ng/L	P430033	
		Propanil	0.10	U	ng/L	P430033	
		Propargite	0.82	U	ng/L	P430033	
		Propiconazole	0.62	U	ng/L	P430033	
		Pyraflufen Ethyl	0.31	U	ng/L	P430033	
		Pyridaben	1.4	U	ng/L	P430033	RPD
		Pyriproxyfen	0.26	U	ng/L	P430033	
		Simazine	3.8		ng/L	P430033	
		Stirophos	0.41	U	ng/L	P430033	
		Sulfentrazone	3.3	I	ng/L	P430033	
		Tebuconazole	1.4	U	ng/L	P430033	
		Terbufos	0.21	U	ng/L	P430033	
		Terbutylazine	0.21	U	ng/L	P430033	
		Thiobencarb	0.51	U	ng/L	P430033	RPD
		Triadimefon	0.15	U	ng/L	P430033	
2410838	EPA 200.7 Rev. 4.4	Calcium	13.1		mg/L	P430123	
		Iron	1.50E+03		ug/L	P430123	
		Magnesium	2.08		mg/L	P430123	
		Potassium	1.3		mg/L	P430123	
		Sodium	3.7		mg/L	P430123	
		Strontium	35.9		ug/L	P430123	
		Tin	3.0	U	ug/L	P430123	
		Titanium	4.9		ug/L	P430123	
		Vanadium	2.0	U	ug/L	P430123	
	EPA 200.8 Rev. 5.4	Aluminum	531		ug/L	P430123	

Field ID: G3NW0052

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410838	EPA 200.8 Rev. 5.4	Antimony	0.059	I	ug/L	P430123	
		Arsenic	0.76		ug/L	P430123	
		Barium	25.2		ug/L	P430123	
		Beryllium	0.047		ug/L	P430123	
		Boron	13.7		ug/L	P430123	
		Cadmium	0.020	U	ug/L	P430123	
		Chromium	1.2	I	ug/L	P430123	
		Cobalt	0.385		ug/L	P430123	
		Copper	0.53	I	ug/L	P430123	
		Lead	0.56		ug/L	P430123	
		Manganese	79.1		ug/L	P430123	
		Molybdenum	0.24	I	ug/L	P430123	
		Nickel	0.52	I	ug/L	P430123	
		Selenium	0.20	U	ug/L	P430123	
		Silver	0.010	U	ug/L	P430123	
		Thallium	0.10	U	ug/L	P430123	
		Zinc	7.0	U	ug/L	P430123	
	SM 2340 B-2011	Hardness	41.3		mg/L	P430123	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8321B: MS accuracy and/or precision for several analytes could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8270E: V - Due to the presence of ddt-p,p' in both the Method Blank and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

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

EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P430070

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P430072

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430079

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430123

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430123

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
Zinc	7.0	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430368

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430372

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430411

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430239

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430629

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430172

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

Reference Method: EPA 8270E
Batch ID: P430033

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P430033

Component	Result	Code	Units
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P430033

Component	Result	Code	Units
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P430033

Component	Result	Code	Units
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P430033

Component	Result	Code	Units
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E

Batch ID: P430112

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.24	I	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P430112

Component	Result	Code	Units
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	1.1	I	ng/L
DDT-p,p'	4.1		ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430112

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

Reference Method: EPA 8276
Batch ID: P430112

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

Reference Method: EPA 8321B
Batch ID: P430052

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P430052

Component	Result	Code	Units
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: P430081

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: P430178

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P430537

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2015
Batch ID: P430683

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P430520

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P430544

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P430227

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: P430070

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P430072

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.5		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	98.7		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430123

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	101		P	85 - 115
Iron	104		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	101		P	85 - 115
Sodium	96.0		P	85 - 115
Strontium	102		P	85 - 115
Tin	99.9		P	85 - 115
Titanium	100		P	85 - 115
Vanadium	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430123

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.2		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	99.2		P	85 - 115
Barium	102		P	85 - 115
Beryllium	97.3		P	85 - 115
Boron	97.5		P	85 - 115
Cadmium	98.6		P	85 - 115
Chromium	93.9		P	85 - 115
Cobalt	98.2		P	85 - 115
Copper	100		P	85 - 115
Lead	99.6		P	85 - 115
Manganese	99.7		P	85 - 115
Molybdenum	98.3		P	85 - 115
Nickel	95.3		P	85 - 115
Selenium	100		P	85 - 115
Silver	101		P	85 - 115
Thallium	97.8		P	85 - 115
Zinc	96.3		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P430368

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

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P430372

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

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P430411

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P430239

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P430629

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P430172

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

Reference Method: EPA 8270E
 Batch ID: P430033

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	34.7		F	42 - 162
Acetochlor	83.3		P	69 - 123
Alachlor	117		P	65 - 118
Ametryn	97.7		P	58 - 141
Atrazine	92.1		P	73 - 118
Atrazine Desethyl	93.9		P	32 - 125
Avobenzone	168		P	40 - 203
Azinphos Methyl	94.7		P	36 - 197
Azoxystrobin	104		P	58 - 226
Bromacil	92.9		P	48 - 120
Butylate	61.6		P	27 - 85.0
Caffeine	107		P	40 - 137
Carbophenothion	130		P	54 - 132
Carfentrazone Ethyl	101		P	60 - 142
Chlorfenapyr	85.0		P	53 - 117
Chlorpyrifos Ethyl	86.7		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P430033

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	94.1		P	66 - 119
Coumaphos	114		P	11 - 234
Cyanazine	202		P	61 - 248
Cyprodinil	95.6		P	50 - 147
Dechlorane 602	99.8		P	50 - 150
Dechlorane 603	124		P	50 - 150
Dechlorane Plus	129		P	47 - 182
Demeton	65.6		P	30 - 138
Diazinon	92.8		P	67 - 126
Difenoconazole	116		P	38 - 205
Dimethenamid	91.3		P	57 - 111
Dimethomorph	132		P	16 - 212
Disulfoton	83.7		P	46 - 126
Dithiopyr	89.4		P	62 - 115
EPTC	47.0		P	28 - 80.0
Ethion	82.1		P	24 - 122
Ethoprop	80.9		P	62 - 113
Etridiazole	87.2		P	28 - 92.0
Fenamiphos	84.1		P	57 - 128
Fenbuconazole	86.9		P	52 - 155
Fipronil	125		P	63 - 130
Fipronil Desulfinyl	127		P	61 - 130
Fipronil Sulfide	91.3		P	56 - 117
Fipronil Sulfone	88.2		P	52 - 118
Fluazifop-P-butyl	80.4		P	61 - 128
Fludioxonil	95.3		P	59 - 129
Flumioxazin	111		P	30 - 250
Flutolanil	96.3		P	53 - 127
Fluxapyroxad	124		P	42 - 132
Fonofos	88.3		P	61 - 110
Hexabromobenzene	116		P	50 - 150
Hexazinone	92.0		P	46 - 139
Imazalil	97.7		P	40 - 139
Iprodione	132		P	40 - 146
Loratadine	120		P	10 - 224
Malathion	129		P	61 - 135
Metaxyl	112		P	58 - 121
Metolachlor	106		P	64 - 118
Metribuzin	100		P	45 - 245
Mevinphos	88.0		P	49 - 118
Molinate	58.2		P	42 - 92.0
Myclobutanil	89.5		P	55 - 127
Naled	43.1		P	10 - 114
Napropamide	81.3		P	39 - 121
Norflurazon	77.8		P	55 - 129
Octinoxate	120		P	26 - 166
Oxadiazon	81.1		P	54 - 115
Oxybenzone	119		P	49 - 135
Oxyfluorfen	108		P	64 - 139
Parathion Ethyl	98.3		P	70 - 111
Parathion Methyl	92.7		P	76 - 136
PBB-153	89.0		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P430033

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	104		P	41 - 148
PBDE-99	64.6		P	38 - 147
Pendimethalin	103		P	52 - 118
Pentabromotoluene	111		P	50 - 150
Phenytoin	58.2		P	10 - 162
Phorate	84.4		P	40 - 122
Prodiamine	72.1		P	26 - 141
Prometon	85.5		P	54 - 122
Prometryn	128		P	61 - 128
Pronamide	93.6		P	72 - 121
Propanil	139		P	45 - 144
Propargite	119		P	10 - 199
Propiconazole	86.4		P	56 - 127
Pyraflufen Ethyl	68.1		P	56 - 140
Pyridaben	119		P	26 - 211
Pyriproxyfen	130		P	33 - 194
Simazine	79.7		P	67 - 121
Stirophos	105		P	20 - 142
Sulfentrazone	108		P	21 - 144
Tebuconazole	101		P	10 - 122
Terbufos	87.2		P	60 - 129
Terbutylazine	105		P	69 - 113
Tetradecachloro-m-terphenyl	180		P	70 - 200
Thiobencarb	84.2		P	51 - 120
Tri-o-cresyl Phosphate	123		P	49 - 150
Triadimefon	79.3		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	125		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	110		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	123		P	70 - 180

Reference Method: EPA 8270E

Batch ID: P430112

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.2		P	10 - 92.0
Alpha-BHC	94.8		P	75 - 107
Alpha-Chlordane	78.9		P	50 - 108
Beta-BHC	86.6		P	36 - 138
Beta-Cyfluthrin	97.2		P	20 - 161
Bifenthrin	53.4		P	10 - 119
Carbophenothion	69.3		P	19 - 94.0
Chlorothalonil	102		P	26 - 186
Cis-Nonachlor	75.9		P	42 - 119
Cypermethrin	106		P	22 - 150
Dacthal	102		P	72 - 119
DDD-p,p'	82.9		P	45 - 107
DDE-p,p'	78.3		P	48 - 106
DDT-p,p'	88.8		P	48 - 110
Delta-BHC	115		P	54 - 140
Deltamethrin	125		P	22 - 189
Dichlobenil	96.8		P	36 - 117
Dicofol	74.8		P	46 - 155

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P430112

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dieldrin	79.5		P	54 - 110
Endosulfan I	82.9		P	59 - 105
Endosulfan II	83.2		P	51 - 118
Endosulfan Sulfate	89.9		P	57 - 121
Endrin	80.8		P	10 - 120
Endrin Aldehyde	101		P	34 - 118
Endrin Ketone	108		P	69 - 177
Esfenvalerate	94.8		P	23 - 168
Ethalfuralin	72.4		P	49 - 99.0
Fenpropathrin	62.9		P	34 - 117
Gamma-BHC	103		P	72 - 117
Gamma-Chlordane	78.8		P	43 - 106
Heptachlor	75.1		P	41 - 98.0
Heptachlor Epoxide	91.2		P	57 - 106
Hexachlorobenzene	66.3		P	36 - 99.0
Kepone	143		P	16 - 215
Lambda-Cyhalothrin	65.9		P	21 - 177
Methoprene	51.3		P	10 - 119
Methoxychlor	89.6		P	60 - 112
MGK-264	94.3		P	26 - 122
Mirex	61.3		P	10 - 169
Oxychlordane	92.3		P	43 - 105
PCB-1016	68.9		P	48 - 112
PCB-1260	68.5		P	44 - 118
Permethrin	72.5		P	24 - 148
Phenothrin	40.2		P	10 - 106
Piperonyl Butoxide	79.9		P	10 - 139
Prallethrin	68.2		P	17 - 109
Tau-Fluvalinate	85.9		P	13 - 131
Tetramethrin	69.0		P	10 - 132
Trans-Nonachlor	77.5		P	44 - 106
Triclosan Methyl	81.0		P	59 - 109
Trifluralin	75.5		P	44 - 101

Reference Method: EPA 8276
Batch ID: P430112

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	72.5		P	61 - 116
Toxaphene	79.8		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P430052

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	76.4		P	40 - 150
Aldicarb	50.7		P	30 - 150
Aldicarb Sulfone	91.1		P	40 - 150
Aldicarb Sulfoxide	97.0		P	40 - 150
Carbaryl	79.1		P	40 - 150
Carbofuran	64.7		P	40 - 150
Methiocarb	77.2		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P430052

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methomyl	84.4		P	40 - 150
Oxamyl	88.5		P	40 - 150
Propoxur	73.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430081

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.8		P	40 - 150
AMPA	121		P	40 - 150
Endothall	88.2		P	40 - 150
Glufosinate	93.7		P	40 - 150
Glyphosate	106		P	40 - 150
Sucralose	122		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430178

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	95.5		P	40 - 150
2,4,5-T	80.0		P	40 - 150
Acetaminophen	86.0		P	30 - 150
Acetamiprid	73.5		P	40 - 150
Afidopyropen	77.3		P	30 - 150
Bentazon	98.3		P	30 - 150
Benzovindiflupyr	77.9		P	40 - 150
Carbamazepine	75.7		P	40 - 150
Clothianidin	90.2		P	40 - 150
Dinotefuran	88.8		P	40 - 150
Diuron	76.7		P	40 - 150
Fenuron	87.0		P	40 - 150
Fluridone	88.4		P	40 - 150
Hydrocodone	83.5		P	40 - 150
Ibuprofen	81.1		P	40 - 150
Imazapyr	89.0		P	40 - 150
Imidacloprid	84.5		P	40 - 150
Linuron	79.8		P	40 - 150
Mandestrobin	76.3		P	40 - 150
MCPP	93.6		P	40 - 150
Naproxen	60.5		P	40 - 150
Primidone	81.1		P	40 - 150
Pyraclostrobin	78.0		P	40 - 150
Silvex	88.6		P	40 - 150
Thiamethoxam	89.7		P	40 - 150
Tolfenpyrad	63.7		P	30 - 150
Triclopyr	84.5		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P430537

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.8		P	92 - 105

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P430683

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

Reference Method: SM 2540 D-2015
Batch ID: P430520

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	103		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P430544

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

Reference Method: SM 5310 B-2011
Batch ID: P430227

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P430123

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410249	Calcium	100		P	80 - 120
2410249	Iron	104	104	P/P	80 - 120
2410249	Magnesium	99.9		P	80 - 120
2410249	Potassium	100		P	80 - 120
2410249	Sodium	95.8		P	80 - 120
2410249	Strontium	99.2	99.8	P/P	80 - 120
2410249	Tin	98.5	100	P/P	80 - 120
2410249	Titanium	101	101	P/P	80 - 120
2410249	Vanadium	102	102	P/P	80 - 120
2410766	Calcium	100		P	80 - 120
2410766	Iron	102		P	80 - 120
2410766	Magnesium	100		P	80 - 120
2410766	Potassium	98.7		P	80 - 120
2410766	Sodium	96.6		P	80 - 120
2410766	Strontium	99.9		P	80 - 120
2410766	Tin	97.8		P	80 - 120
2410766	Titanium	100		P	80 - 120
2410766	Vanadium	99.5		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P430123

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410249	Aluminum	95.8	97.1	P/P	80 - 120
2410249	Antimony	103	103	P/P	80 - 120
2410249	Arsenic	99.6	101	P/P	80 - 120
2410249	Barium	102	103	P/P	80 - 120
2410249	Beryllium	98.6	95.5	P/P	80 - 120
2410249	Boron	95.0	95.4	P/P	80 - 120
2410249	Cadmium	98.4	97.4	P/P	80 - 120
2410249	Chromium	92.0	93.2	P/P	80 - 120
2410249	Cobalt	95.8	96.6	P/P	80 - 120
2410249	Copper	115	95.2	P/P	80 - 120
2410249	Lead	99.9	100	P/P	80 - 120
2410249	Manganese	99.6	99.8	P/P	80 - 120
2410249	Molybdenum	98.0	98.6	P/P	80 - 120
2410249	Nickel	93.3	94.9	P/P	80 - 120
2410249	Selenium	98.4	99.0	P/P	80 - 120
2410249	Silver	99.2	99.7	P/P	80 - 120
2410249	Thallium	97.9	101	P/P	80 - 120
2410249	Zinc	96.7	98.5	P/P	80 - 120
2410766	Aluminum	96.9		P	80 - 120
2410766	Antimony	101		P	80 - 120
2410766	Arsenic	96.6		P	80 - 120
2410766	Barium	101		P	80 - 120
2410766	Beryllium	92.6		P	80 - 120
2410766	Boron	99.5		P	80 - 120
2410766	Cadmium	98.9		P	80 - 120
2410766	Chromium	93.8		P	80 - 120
2410766	Cobalt	95.9		P	80 - 120
2410766	Copper	97.5		P	80 - 120
2410766	Lead	99.9		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P430123

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410766	Manganese	95.8		P	80 - 120
2410766	Molybdenum	96.2		P	80 - 120
2410766	Nickel	95.3		P	80 - 120
2410766	Selenium	96.9		P	80 - 120
2410766	Silver	100		P	80 - 120
2410766	Thallium	97.7		P	80 - 120
2410766	Zinc	97.3		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P430368

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410733	Chloride	102		P	90 - 110
2410862	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P430372

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410733	Sulfate	102		P	90 - 110
2410862	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P430411

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410748	Ammonia-N	97.6	98.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P430629

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410751	NO2NO3-N	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P430172

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410752	Total-P	103	101	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P430033

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410434	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.3	127	P/P	26 - 165
2410434	Acetochlor	72.7	79.9	P/P	67 - 124
2410434	Alachlor	89.0	94.0	P/P	60 - 120
2410434	Ametryn	121	93.8	P/P	54 - 216
2410434	Atrazine Desethyl	86.2	107	P/P	15 - 122
2410434	Avobenzone	135	184	P/F	37 - 178
2410434	Azinphos Methyl	65.9	85.7	P/P	40 - 292
2410434	Azoxystrobin	81.3	96.4	P/P	35 - 220

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P430033

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410434	Bromacil	65.4	76.4	P/P	45 - 127
2410434	Butylate	62.0	59.5	P/P	20 - 83.0
2410434	Caffeine	106	131	P/P	10 - 194
2410434	Carbophenothion	100	118	P/P	57 - 127
2410434	Carfentrazone Ethyl	69.1	77.1	P/P	51 - 141
2410434	Chlorfenapyr	68.7	75.3	P/P	46 - 111
2410434	Chlorpyrifos Ethyl	108	85.3	P/P	52 - 120
2410434	Chlorpyrifos Methyl	79.0	81.6	P/P	63 - 119
2410434	Coumaphos	61.4	92.8	P/P	10 - 228
2410434	Cyanazine	164	237	P/P	59 - 241
2410434	Cyprodinil	84.3	87.8	P/P	47 - 146
2410434	Dechlorane 602	75.7	109	P/P	50 - 150
2410434	Dechlorane 603	102	135	P/P	50 - 150
2410434	Dechlorane Plus	106	93.5	P/P	50 - 150
2410434	Demeton	63.1	70.6	P/P	40 - 136
2410434	Diazinon	89.5	86.1	P/P	69 - 132
2410434	Difenoconazole	45.9	114	F/P	57 - 258
2410434	Dimethenamid	72.9	84.6	P/P	54 - 110
2410434	Dimethomorph	143	101	P/P	28 - 210
2410434	Disulfoton	75.7	84.7	P/P	43 - 133
2410434	Dithiopyr	76.0	80.0	P/P	39 - 116
2410434	EPTC	51.0	49.6	P/P	20 - 78.0
2410434	Ethion	95.9	111	P/P	17 - 119
2410434	Ethoprop	100	94.8	P/P	66 - 120
2410434	Etridiazole	77.1	85.9	P/P	28 - 96.0
2410434	Fenamiphos	68.7	61.9	P/P	41 - 126
2410434	Fenbuconazole	37.4	73.6	F/P	42 - 169
2410434	Fipronil	98.6	111	P/P	61 - 132
2410434	Fipronil Desulfinyl	94.9	105	P/P	56 - 132
2410434	Fipronil Sulfide	75.5	86.7	P/P	48 - 119
2410434	Fipronil Sulfone	68.2	78.9	P/P	42 - 131
2410434	Fluazifop-P-butyl	75.1	77.3	P/P	53 - 131
2410434	Fludioxonil	73.9	84.7	P/P	56 - 127
2410434	Flumioxazin	57.0	112	P/P	19 - 300
2410434	Flutolanil	91.8	101	P/P	41 - 127
2410434	Fluxapyroxad	92.7	118	P/P	42 - 172
2410434	Fonofos	91.8	81.9	P/P	59 - 113
2410434	Hexabromobenzene	124	133	P/P	50 - 150
2410434	Hexazinone	97.6	84.9	P/P	66 - 122
2410434	Imazalil	178	104	P/P	21 - 283
2410434	Iprodione	81.2	53.7	P/P	43 - 150
2410434	Loratadine	146	90.5	P/P	23 - 201
2410434	Malathion	75.7	96.0	P/P	58 - 136
2410434	Metalaxyl	101	114	P/P	55 - 120
2410434	Metolachlor	91.2	97.0	P/P	57 - 121
2410434	Metribuzin	94.3	94.5	P/P	58 - 294
2410434	Mevinphos	81.2	73.6	P/P	50 - 126
2410434	Molinate	57.7	61.5	P/P	42 - 93.0
2410434	Myclobutanil	72.4	80.7	P/P	55 - 125
2410434	Naled	37.9	40.9	P/P	18 - 200
2410434	Napropamide	62.2	73.3	P/P	39 - 110
2410434	Norflurazon	57.0	68.2	P/P	48 - 128

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P430033

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410434	Octinoxate	106	116	P/P	21 - 159
2410434	Oxadiazon	65.1	74.1	P/P	43 - 112
2410434	Oxybenzone	114	124	P/P	41 - 142
2410434	Oxyfluorfen	100	97.1	P/P	64 - 153
2410434	Parathion Ethyl	93.8	96.5	P/P	69 - 114
2410434	Parathion Methyl	94.7	86.5	P/P	79 - 139
2410434	PBB-153	107	150	P/F	50 - 150
2410434	PBDE-47	101	118	P/P	27 - 144
2410434	PBDE-99	78.0	112	P/P	18 - 150
2410434	Pendimethalin	109	100	P/P	50 - 139
2410434	Pentabromotoluene	109	117	P/P	50 - 150
2410434	Phenytoin	65.8	58.1	P/P	10 - 146
2410434	Phorate	83.1	96.7	P/P	54 - 161
2410434	Prodiamine	57.9	59.8	P/P	30 - 161
2410434	Prometon	110	86.4	P/P	45 - 134
2410434	Prometryn	99.4	117	P/P	45 - 137
2410434	Pronamide	82.4	84.1	P/P	65 - 133
2410434	Propanil	125	126	P/P	49 - 142
2410434	Propargite	85.7	97.5	P/P	10 - 203
2410434	Propiconazole	63.7	67.5	P/P	38 - 146
2410434	Pyraflufen Ethyl	58.6	70.3	P/P	34 - 153
2410434	Pyridaben	71.8	111	P/P	12 - 192
2410434	Pyriproxyfen	90.8	122	P/P	33 - 180
2410434	Simazine	72.2	72.4	P/P	51 - 157
2410434	Stiropfos	79.3	98.0	P/P	10 - 128
2410434	Sulfentrazone	92.8	111	P/P	53 - 186
2410434	Tebuconazole	76.8	82.6	P/P	10 - 133
2410434	Terbufos	90.9	80.0	P/P	65 - 139
2410434	Terbutylazine	96.9	94.6	P/P	66 - 117
2410434	Tetradecachloro-m-terphenyl	193	215	P/F	70 - 200
2410434	Thiobencarb	55.0	75.8	P/P	51 - 119
2410434	Tri-o-cresyl Phosphate	100	120	P/P	31 - 144
2410434	Triadimefon	77.4	83.8	P/P	48 - 119
2410434	Tris(1-chloro-2-propyl) phosphate (TCPP)	107	89.7	P/P	50 - 150
2410434	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	103	114	P/P	50 - 150
2410434	Tris(2-chloroethyl) phosphate (TCEP)	118	119	P/P	70 - 180

Reference Method: EPA 8270E

Batch ID: P430112

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410805	PCB-1016	68.2	80.0	P/P	46 - 111
2410805	PCB-1260	81.1	88.0	P/P	45 - 114
2410835	Aldrin	52.1	56.3	P/P	20 - 82.0
2410835	Alpha-BHC	89.8	89.8	P/P	71 - 109
2410835	Alpha-Chlordane	66.5	66.2	P/P	42 - 106
2410835	Beta-BHC	79.7	78.2	P/P	69 - 180
2410835	Beta-Cyfluthrin	107	91.4	P/P	18 - 175
2410835	Bifenthrin	69.8	65.9	P/P	21 - 128
2410835	Carbophenothion	60.4	59.7	P/P	10 - 126
2410835	Chlorothalonil	122	136	P/P	10 - 300
2410835	Cis-Nonachlor	62.5	59.5	P/P	34 - 106

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P430112

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410835	Cypermethrin	100	78.5	P/P	22 - 158
2410835	Dacthal	102	97.3	P/P	54 - 116
2410835	DDD-p,p'	58.9	57.0	P/P	34 - 107
2410835	DDE-p,p'	62.4	61.4	P/P	33 - 110
2410835	DDT-p,p'	81.8	82.8	P/P	50 - 122
2410835	Delta-BHC	118	129	P/P	77 - 193
2410835	Deltamethrin	131	125	P/P	10 - 195
2410835	Dichlobenil	63.6	69.0	P/P	25 - 113
2410835	Dicofol	66.7	70.3	P/P	38 - 247
2410835	Dieldrin	68.7	69.9	P/P	45 - 118
2410835	Endosulfan I	73.0	73.6	P/P	51 - 106
2410835	Endosulfan II	69.1	65.7	P/P	37 - 122
2410835	Endosulfan Sulfate	69.1	66.8	P/P	43 - 132
2410835	Endrin	65.7	64.8	P/P	29 - 101
2410835	Endrin Aldehyde	78.9	79.0	P/P	19 - 110
2410835	Endrin Ketone	66.0	55.6	P/F	60 - 140
2410835	Esfenvalerate	108	100	P/P	26 - 199
2410835	Ethalfuralin	68.3	69.5	P/P	45 - 99.0
2410835	Fenpropathrin	64.8	64.8	P/P	35 - 120
2410835	Gamma-BHC	105	112	P/P	63 - 128
2410835	Gamma-Chlordane	69.1	72.2	P/P	40 - 104
2410835	Heptachlor	69.8	73.3	P/P	36 - 97.0
2410835	Heptachlor Epoxide	83.6	79.1	P/P	49 - 184
2410835	Hexachlorobenzene	61.8	60.8	P/P	39 - 96.0
2410835	Kepone	134	121	P/P	10 - 217
2410835	Lambda-Cyhalothrin	80.2	80.2	P/P	21 - 193
2410835	Methoprene	68.1	67.9	P/P	20 - 106
2410835	Methoxychlor	84.2	89.4	P/P	53 - 118
2410835	MGK-264	100	99.1	P/P	40 - 118
2410835	Mirex	54.2	48.2	P/P	26 - 92.0
2410835	Oxychlordane	78.6	93.8	P/P	44 - 99.0
2410835	Permethrin	77.7	76.4	P/P	33 - 182
2410835	Phenothrin	64.5	70.2	P/P	10 - 129
2410835	Piperonyl Butoxide	75.8	78.7	P/P	10 - 211
2410835	Prallethrin	67.2	63.7	P/P	24 - 113
2410835	Tau-Fluvalinate	107	109	P/P	14 - 149
2410835	Tetramethrin	83.6	84.3	P/P	17 - 151
2410835	Trans-Nonachlor	66.4	69.9	P/P	42 - 102
2410835	Triclosan Methyl	63.7	66.8	P/P	48 - 108
2410835	Trifluralin	69.9	65.1	P/P	47 - 96.0

Reference Method: EPA 8276
Batch ID: P430112

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410805	Chlordane	53.2	72.7	P/P	53 - 126
2410805	Toxaphene	56.3	79.1	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P430052

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

Reference Method: EPA 8321B

Batch ID: P430052

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410775	3-Hydroxycarbofuran	79.3	73.1	P/P	40 - 150
2410775	Aldicarb	39.8	48.5	P/P	30 - 150
2410775	Aldicarb Sulfone	82.5	82.8	P/P	40 - 150
2410775	Aldicarb Sulfoxide	36.6	35.2	F/F	40 - 150
2410775	Carbaryl	76.5	81.7	P/P	40 - 150
2410775	Carbofuran	62.0	62.4	P/P	40 - 150
2410775	Methiocarb	79.6	82.6	P/P	40 - 150
2410775	Methomyl	68.5	71.0	P/P	40 - 150
2410775	Oxamyl	65.5	71.0	P/P	40 - 150
2410775	Propoxur	65.2	65.0	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P430081

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410800	Acesulfame K	68.4	67.5	P/P	40 - 150
2410800	AMPA	88.1	87.9	P/P	40 - 150
2410800	Endothall	102	93.9	P/P	40 - 150
2410800	Glufosinate	78.4	84.9	P/P	40 - 150
2410800	Glyphosate	110	110	P/P	40 - 150
2410800	Sucralose	121	110	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P430178

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410774	2,4-D	85.5	83.4	P/P	40 - 150
2410774	2,4,5-T	98.1	96.2	P/P	40 - 150
2410774	Acetaminophen	93.3	92.7	P/P	30 - 150
2410774	Acetamiprid	68.3	71.1	P/P	40 - 150
2410774	Afidopyropen	69.2	72.0	P/P	30 - 150
2410774	Benzovindiflupyr	83.4	86.7	P/P	40 - 150
2410774	Carbamazepine	71.8	70.0	P/P	40 - 150
2410774	Clothianidin	96.8	109	P/P	40 - 150
2410774	Dinotefuran	87.4	85.9	P/P	40 - 150
2410774	Diuron	72.9	66.0	P/P	40 - 150
2410774	Fenuron	65.0	66.6	P/P	40 - 150
2410774	Hydrocodone	70.5	69.2	P/P	40 - 150
2410774	Ibuprofen	51.8	50.0	P/P	40 - 150
2410774	Imidacloprid	148	155	P/F	40 - 150
2410774	Linuron	68.9	76.2	P/P	40 - 150
2410774	Mandestrobin	81.2	80.3	P/P	40 - 150
2410774	MCPP	101	101	P/P	40 - 150
2410774	Naproxen	65.3	60.7	P/P	40 - 150
2410774	Primidone	83.1	84.6	P/P	40 - 150
2410774	Pyraclostrobin	85.4	83.8	P/P	40 - 150
2410774	Silvex	80.8	93.5	P/P	40 - 150
2410774	Thiamethoxam	110	113	P/P	40 - 150
2410774	Tolfenpyrad	63.0	59.2	P/P	30 - 150
2410774	Triclopyr	88.1	93.4	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P430544

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2411011	Fluoride	101	98.4	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P430227

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2411021	Organic Carbon	96.4	98.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P430070

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410747	Color (true)	0.617	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P430072

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410577	Color (true)	8.00	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410578	Turbidity	10.3	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410249	Calcium	1.70	Spike	P	0 - 20
2410249	Iron	0.0113	Spike	P	0 - 20
2410249	Magnesium	0.211	Spike	P	0 - 20
2410249	Potassium	0.924	Spike	P	0 - 20
2410249	Sodium	0.980	Spike	P	0 - 20
2410249	Strontium	0.564	Spike	P	0 - 20
2410249	Tin	1.47	Spike	P	0 - 20
2410249	Titanium	0.831	Spike	P	0 - 20
2410249	Vanadium	0.600	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410249	Aluminum	1.22	Spike	P	0 - 20
2410249	Antimony	0.408	Spike	P	0 - 20
2410249	Arsenic	0.971	Spike	P	0 - 20
2410249	Barium	0.501	Spike	P	0 - 20
2410249	Beryllium	3.17	Spike	P	0 - 20
2410249	Boron	0.380	Spike	P	0 - 20
2410249	Cadmium	1.04	Spike	P	0 - 20
2410249	Chromium	1.28	Spike	P	0 - 20
2410249	Cobalt	0.895	Spike	P	0 - 20
2410249	Copper	18.6	Spike	P	0 - 20
2410249	Lead	0.538	Spike	P	0 - 20
2410249	Manganese	0.222	Spike	P	0 - 20
2410249	Molybdenum	0.661	Spike	P	0 - 20
2410249	Nickel	1.73	Spike	P	0 - 20
2410249	Selenium	0.638	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410249	Silver	0.416	Spike	P	0 - 20
2410249	Thallium	2.77	Spike	P	0 - 20
2410249	Zinc	1.80	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430368

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410733	Chloride	2.83	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430411

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410748	Ammonia-N	0.485	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430239

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410818	Kjeldahl Nitrogen	11.3	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430629

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410751	NO2NO3-N	0.766	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430172

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410752	Total-P	2.21	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P430033

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410434	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	28.5	Spike	P	0 - 37
2410434	Acetochlor	9.52	Spike	P	0 - 28
2410434	Alachlor	5.43	Spike	P	0 - 30
2410434	Ametryn	25.7	Spike	P	0 - 32
2410434	Atrazine	6.70	Spike	P	0 - 41
2410434	Atrazine Desethyl	21.8	Spike	P	0 - 36
2410434	Avobenzone	31.1	Spike	P	0 - 36

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P430033

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410434	Azinphos Methyl	26.1	Spike	P	0 - 75
2410434	Azoxystrobin	17.0	Spike	P	0 - 39
2410434	Bromacil	15.6	Spike	P	0 - 33
2410434	Butylate	4.20	Spike	P	0 - 44
2410434	Caffeine	20.8	Spike	P	0 - 74
2410434	Carbophenothion	15.7	Spike	P	0 - 25
2410434	Carfentrazone Ethyl	10.9	Spike	P	0 - 27
2410434	Chlorfenapyr	9.20	Spike	P	0 - 24
2410434	Chlorpyrifos Ethyl	23.7	Spike	P	0 - 26
2410434	Chlorpyrifos Methyl	3.17	Spike	P	0 - 26
2410434	Coumaphos	40.7	Spike	F	0 - 28
2410434	Cyanazine	36.1	Spike	P	0 - 48
2410434	Cyprodinil	4.09	Spike	P	0 - 29
2410434	Dechlorane 602	35.8	Spike	F	0 - 30
2410434	Dechlorane 603	28.4	Spike	P	0 - 30
2410434	Dechlorane Plus	12.9	Spike	P	0 - 30
2410434	Demeton	11.3	Spike	P	0 - 33
2410434	Diazinon	3.86	Spike	P	0 - 29
2410434	Difenoconazole	84.9	Spike	F	0 - 34
2410434	Dimethenamid	15.0	Spike	P	0 - 39
2410434	Dimethomorph	34.5	Spike	P	0 - 51
2410434	Disulfoton	11.2	Spike	P	0 - 30
2410434	Dithiopyr	5.10	Spike	P	0 - 26
2410434	EPTC	2.66	Spike	P	0 - 43
2410434	Ethion	14.8	Spike	P	0 - 79
2410434	Ethoprop	5.55	Spike	P	0 - 29
2410434	Etridiazole	10.8	Spike	P	0 - 33
2410434	Fenamiphos	10.5	Spike	P	0 - 40
2410434	Fenbuconazole	65.3	Spike	P	0 - 74
2410434	Fipronil	11.8	Spike	P	0 - 29
2410434	Fipronil Desulfinyl	9.71	Spike	P	0 - 32
2410434	Fipronil Sulfide	13.8	Spike	P	0 - 30
2410434	Fipronil Sulfone	14.6	Spike	P	0 - 33
2410434	Fluazifop-P-butyl	2.92	Spike	P	0 - 38
2410434	Fludioxonil	13.7	Spike	P	0 - 29
2410434	Flumioxazin	65.0	Spike	F	0 - 51
2410434	Flutolanil	9.07	Spike	P	0 - 25
2410434	Fluxapyroxad	23.8	Spike	P	0 - 45
2410434	Fonofos	11.4	Spike	P	0 - 27
2410434	Hexabromobenzene	6.74	Spike	P	0 - 30
2410434	Hexazinone	13.9	Spike	P	0 - 30
2410434	Imazalil	52.4	Spike	P	0 - 100
2410434	Iprodione	40.9	Spike	F	0 - 33
2410434	Loratadine	46.9	Spike	P	0 - 56
2410434	Malathion	23.6	Spike	P	0 - 37
2410434	Metalaxyl	11.4	Spike	P	0 - 40
2410434	Metolachlor	5.30	Spike	P	0 - 29
2410434	Metribuzin	0.195	Spike	P	0 - 45
2410434	Mevinphos	9.86	Spike	P	0 - 29
2410434	Molinate	6.38	Spike	P	0 - 33
2410434	Myclobutanil	10.8	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P430033

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410434	Naled	7.60	Spike	P	0 - 37
2410434	Napropamide	16.3	Spike	P	0 - 44
2410434	Norflurazon	17.9	Spike	P	0 - 30
2410434	Octinoxate	9.85	Spike	P	0 - 45
2410434	Oxadiazon	12.9	Spike	P	0 - 28
2410434	Oxybenzone	8.10	Spike	P	0 - 46
2410434	Oxyfluorfen	3.10	Spike	P	0 - 28
2410434	Parathion Ethyl	2.81	Spike	P	0 - 31
2410434	Parathion Methyl	9.08	Spike	P	0 - 29
2410434	PBB-153	33.8	Spike	F	0 - 30
2410434	PBDE-47	15.4	Spike	P	0 - 36
2410434	PBDE-99	35.7	Spike	P	0 - 40
2410434	Pendimethalin	8.60	Spike	P	0 - 33
2410434	Pentabromotoluene	6.72	Spike	P	0 - 30
2410434	Phenytoin	12.4	Spike	P	0 - 100
2410434	Phorate	15.1	Spike	P	0 - 36
2410434	Prodiamine	3.24	Spike	P	0 - 71
2410434	Prometon	23.9	Spike	P	0 - 36
2410434	Prometryn	16.6	Spike	P	0 - 28
2410434	Pronamide	2.10	Spike	P	0 - 24
2410434	Propanil	1.03	Spike	P	0 - 28
2410434	Propargite	12.9	Spike	P	0 - 43
2410434	Propiconazole	5.70	Spike	P	0 - 33
2410434	Pyraflufen Ethyl	18.1	Spike	P	0 - 29
2410434	Pyridaben	43.2	Spike	F	0 - 30
2410434	Pyriproxyfen	29.1	Spike	P	0 - 79
2410434	Simazine	0.139	Spike	P	0 - 29
2410434	Stirophos	21.1	Spike	P	0 - 61
2410434	Sulfentrazone	17.8	Spike	P	0 - 33
2410434	Tebuconazole	7.27	Spike	P	0 - 69
2410434	Terbufos	12.8	Spike	P	0 - 29
2410434	Terbuthylazine	2.43	Spike	P	0 - 32
2410434	Tetradecachloro-m-terphenyl	10.4	Spike	P	0 - 30
2410434	Thiobencarb	31.7	Spike	F	0 - 26
2410434	Tri-o-cresyl Phosphate	17.8	Spike	P	0 - 33
2410434	Triadimefon	7.92	Spike	P	0 - 28
2410434	Tris(1-chloro-2-propyl) phosphate (TCPP)	18.0	Spike	P	0 - 30
2410434	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	9.69	Spike	P	0 - 30
2410434	Tris(2-chloroethyl) phosphate (TCEP)	0.807	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P430112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410805	PCB-1016	15.8	Spike	P	0 - 32
2410805	PCB-1260	8.14	Spike	P	0 - 31
2410835	Aldrin	7.71	Spike	P	0 - 41
2410835	Alpha-BHC	0.0887	Spike	P	0 - 25
2410835	Alpha-Chlordane	0.560	Spike	P	0 - 33
2410835	Beta-BHC	1.88	Spike	P	0 - 36

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P430112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410835	Beta-Cyfluthrin	15.9	Spike	P	0 - 42
2410835	Bifenthrin	5.79	Spike	P	0 - 53
2410835	Carbophenothion	1.06	Spike	P	0 - 49
2410835	Chlorothalonil	10.7	Spike	P	0 - 71
2410835	Cis-Nonachlor	4.95	Spike	P	0 - 29
2410835	Cypermethrin	24.1	Spike	P	0 - 40
2410835	Dacthal	5.20	Spike	P	0 - 26
2410835	DDD-p,p'	3.27	Spike	P	0 - 39
2410835	DDE-p,p'	1.72	Spike	P	0 - 33
2410835	DDT-p,p'	1.06	Spike	P	0 - 40
2410835	Delta-BHC	9.07	Spike	P	0 - 37
2410835	Deltamethrin	4.71	Spike	P	0 - 100
2410835	Dichlobenil	8.15	Spike	P	0 - 40
2410835	Dicofol	5.24	Spike	P	0 - 31
2410835	Dieldrin	1.70	Spike	P	0 - 27
2410835	Endosulfan I	0.861	Spike	P	0 - 23
2410835	Endosulfan II	5.07	Spike	P	0 - 28
2410835	Endosulfan Sulfate	3.43	Spike	P	0 - 38
2410835	Endrin	1.42	Spike	P	0 - 63
2410835	Endrin Aldehyde	0.202	Spike	P	0 - 60
2410835	Endrin Ketone	17.1	Spike	P	0 - 37
2410835	Esfenvalerate	7.44	Spike	P	0 - 52
2410835	Ethalfuralin	1.81	Spike	P	0 - 23
2410835	Fenpropathrin	0.0530	Spike	P	0 - 32
2410835	Gamma-BHC	6.54	Spike	P	0 - 17
2410835	Gamma-Chlordane	4.42	Spike	P	0 - 40
2410835	Heptachlor	4.96	Spike	P	0 - 29
2410835	Heptachlor Epoxide	5.49	Spike	P	0 - 25
2410835	Hexachlorobenzene	1.48	Spike	P	0 - 36
2410835	Kepone	10.8	Spike	P	0 - 93
2410835	Lambda-Cyhalothrin	0.0565	Spike	P	0 - 55
2410835	Methoprene	0.281	Spike	P	0 - 53
2410835	Methoxychlor	5.93	Spike	P	0 - 29
2410835	MGK-264	1.10	Spike	P	0 - 35
2410835	Mirex	11.6	Spike	P	0 - 46
2410835	Oxychlordane	17.6	Spike	P	0 - 29
2410835	Permethrin	1.68	Spike	P	0 - 44
2410835	Phenothrin	8.39	Spike	P	0 - 56
2410835	Piperonyl Butoxide	3.75	Spike	P	0 - 100
2410835	Prallethrin	5.29	Spike	P	0 - 42
2410835	Tau-Fluvalinate	1.31	Spike	P	0 - 54
2410835	Tetramethrin	0.805	Spike	P	0 - 51
2410835	Trans-Nonachlor	5.07	Spike	P	0 - 37
2410835	Triclosan Methyl	4.86	Spike	P	0 - 31
2410835	Trifluralin	7.22	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P430112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P430112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410805	Chlordane	30.9	Spike	F	0 - 25
2410805	Toxaphene	33.7	Spike	F	0 - 26

Reference Method: EPA 8321B
Batch ID: P430052

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410775	3-Hydroxycarbofuran	8.16	Spike	P	0 - 30
2410775	Aldicarb	19.8	Spike	P	0 - 30
2410775	Aldicarb Sulfone	0.336	Spike	P	0 - 30
2410775	Aldicarb Sulfoxide	3.94	Spike	P	0 - 30
2410775	Carbaryl	6.55	Spike	P	0 - 30
2410775	Carbofuran	0.728	Spike	P	0 - 30
2410775	Methiocarb	3.80	Spike	P	0 - 30
2410775	Methomyl	3.67	Spike	P	0 - 30
2410775	Oxamyl	8.01	Spike	P	0 - 30
2410775	Propoxur	0.205	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P430081

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410800	Acesulfame K	1.35	Spike	P	0 - 30
2410800	AMPA	0.227	Spike	P	0 - 30
2410800	Endothall	8.17	Spike	P	0 - 30
2410800	Glufosinate	8.02	Spike	P	0 - 30
2410800	Glyphosate	0.433	Spike	P	0 - 30
2410800	Sucralose	9.33	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P430178

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410774	2,4-D	1.47	Spike	P	0 - 30
2410774	2,4,5-T	1.99	Spike	P	0 - 30
2410774	Acetaminophen	0.607	Spike	P	0 - 30
2410774	Acetamiprid	4.09	Spike	P	0 - 30
2410774	Afidopyropen	3.91	Spike	P	0 - 30
2410774	Benzovindiflupyr	3.86	Spike	P	0 - 30
2410774	Carbamazepine	2.21	Spike	P	0 - 30
2410774	Clothianidin	7.91	Spike	P	0 - 30
2410774	Dinotefuran	1.71	Spike	P	0 - 30
2410774	Diuron	9.91	Spike	P	0 - 30
2410774	Fenuron	2.49	Spike	P	0 - 30
2410774	Fluridone	0.155	Spike	P	0 - 30
2410774	Hydrocodone	1.85	Spike	P	0 - 30
2410774	Ibuprofen	3.43	Spike	P	0 - 30
2410774	Imazapyr	1.27	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P430178

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410774	Imidacloprid	3.81	Spike	P	0 - 30
2410774	Linuron	10.2	Spike	P	0 - 30
2410774	Mandestrobin	1.10	Spike	P	0 - 30
2410774	MCP	0.226	Spike	P	0 - 30
2410774	Naproxen	7.29	Spike	P	0 - 30
2410774	Primidone	1.53	Spike	P	0 - 30
2410774	Pyraclostrobin	1.93	Spike	P	0 - 30
2410774	Silvex	14.6	Spike	P	0 - 30
2410774	Thiamethoxam	2.74	Spike	P	0 - 30
2410774	Tolfenpyrad	6.36	Spike	P	0 - 30
2410774	Triclopyr	5.80	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P430537

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2411011	Total Alkalinity	0.702	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P430683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410643	TDS	3.55	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P430520

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410643	TSS	7.23	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P430544

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2411011	Fluoride	1.99	Spike	F	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P430227

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2411021	Organic Carbon	2.41	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2410832
Field Sample ID: G3NW0052

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	68.0	P	30 - 160

Lab Sample ID: 2410833
Field Sample ID: G3NW0052

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	116	P	30 - 160
EPA 8321B	Acetaminophen-d4	96.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.1	P	30 - 160
EPA 8321B	Diuron-d6	83.8	P	30 - 160
EPA 8321B	Endothall-d6	87.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.7	P	30 - 160
EPA 8321B	Primidone-d5	96.7	P	30 - 160
EPA 8321B	Sucralose-d6	105	P	30 - 160

Lab Sample ID: 2410834
Field Sample ID: G3NW0135

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	97.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	89.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	84.6	P	30 - 160
EPA 8321B	Diuron-d6	69.5	P	30 - 160
EPA 8321B	Endothall-d6	89.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	94.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.6	P	30 - 160
EPA 8321B	Primidone-d5	89.9	P	30 - 160
EPA 8321B	Sucralose-d6	93.6	P	30 - 160

Lab Sample ID: 2410835
Field Sample ID: G3NW0052

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	51.1	P	29 - 130
EPA 8270E	Decachlorobiphenyl	54.9	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	47.1	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	48.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	54.7	P	30 - 101
EPA 8276	PCNB	62.9	P	48 - 121

Lab Sample ID: 2410836
Field Sample ID: G3NW0052

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	113	P	20 - 200
EPA 8270E	Simazine-d10	80.9	P	62 - 142
EPA 8270E	Terbufos-d10	71.4	P	58 - 132
EPA 8270E	Terphenyl-d14	83.7	P	52 - 137

Quality Assurance Report Surrogates

Lab Sample ID: 2410837
Field Sample ID: G3NW0450

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	69.8	P	29 - 130
EPA 8270E	Decachlorobiphenyl	73.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	74.0	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	71.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	74.6	P	30 - 101
EPA 8276	PCNB	82.8	P	48 - 121

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A119258

Included Lab Sample IDs: 2410820, 2410822

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.9	P/P	90 - 110
Color (true)	98.4	99.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A119260

Included Lab Sample IDs: 2410820, 2410822

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

Reference Method: EPA 8321B

Run ID: A119295

Included Lab Sample IDs: 2410833, 2410834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	100	98.5	P/P	60 - 160
Sucralose	119	114	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A119309

Included Lab Sample IDs: 2410833, 2410834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	122	121	P/P	60 - 160
Endothall	86.1	83.1	P/P	60 - 160
Glufosinate	89.6	86.2	P/P	60 - 160
Glyphosate	108	109	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A119341

Included Lab Sample IDs: 2410821, 2410823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	97.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A119351

Included Lab Sample IDs: 2410820, 2410822

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.8	100	P/P	90 - 110
Sulfate	97.5	98.7	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119362

Included Lab Sample IDs: 2410838, 2410839, 2410840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.3	97.7	P/P	90 - 110
Antimony	100	101	P/P	90 - 110
Arsenic	97.9	97.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119362

Included Lab Sample IDs: 2410838, 2410839, 2410840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	98.4	100	P/P	90 - 110
Beryllium	95.2	93.2	P/P	90 - 110
Boron	94.5	92.9	P/P	90 - 110
Cadmium	97.2	98.4	P/P	90 - 110
Cobalt	97.5	92.4	P/P	90 - 110
Copper	94.3	96.6	P/P	90 - 110
Lead	98.2	98.5	P/P	90 - 110
Manganese	98.6	93.4	P/P	90 - 110
Molybdenum	96.0	96.4	P/P	90 - 110
Nickel	95.3	91.5	P/P	90 - 110
Selenium	98.8	99.2	P/P	90 - 110
Silver	98.6	99.1	P/P	90 - 110
Thallium	99.0	97.3	P/P	90 - 110
Zinc	97.2	95.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119387

Included Lab Sample IDs: 2410821, 2410823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.4	95.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119392

Included Lab Sample IDs: 2410838, 2410839, 2410840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	94.6	93.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A119395

Included Lab Sample IDs: 2410832

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	105	108	P/P	60 - 150
Aldicarb	116	81.7	P/P	60 - 150
Aldicarb Sulfone	112	111	P/P	50 - 150
Aldicarb Sulfoxide	107	105	P/P	50 - 150
Carbaryl	94.0	100	P/P	60 - 150
Carbofuran	91.6	98.3	P/P	50 - 150
Methiocarb	102	103	P/P	50 - 150
Methomyl	103	101	P/P	50 - 150
Oxamyl	105	102	P/P	50 - 150
Propoxur	102	101	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A119398

Included Lab Sample IDs: 2410836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119398
Included Lab Sample IDs: 2410836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzene	104		P	80 - 120
Dechlorane 602	100		P	80 - 120
Dechlorane 603	99.4		P	80 - 120
Dechlorane Plus	93.8		P	80 - 120
Hexabromobenzene	100		P	80 - 120
Octinoxate	97.5		P	80 - 120
Oxybenzone	96.9		P	80 - 120
PBB-153	100		P	80 - 120
PBDE-47	98.6		P	80 - 120
PBDE-99	101		P	80 - 120
Pentabromotoluene	101		P	80 - 120
Tetradecachloro-m-terphenyl	107		P	80 - 120
Tri-o-cresyl Phosphate	97.1		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	83.8		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.3		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	93.5		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A119408
Included Lab Sample IDs: 2410821, 2410823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.7	98.5	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A119420
Included Lab Sample IDs: 2410836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	88.9		P	80 - 120
Alachlor	96.1		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine Desethyl	108		P	80 - 120
Azinphos Methyl	89.8		P	80 - 120
Azoxystrobin	97.7		P	80 - 120
Bromacil	97.5		P	80 - 120
Butylate	98.3		P	80 - 120
Caffeine	103		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	98.5		P	80 - 120
Chlorfenapyr	92.6		P	80 - 120
Chlorpyrifos Ethyl	87.8		P	80 - 120
Chlorpyrifos Methyl	95.7		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	102		P	80 - 120
Cyprodinil	94.8		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	99.3		P	80 - 120
Difenoconazole	102		P	80 - 120
Dimethenamid	98.5		P	80 - 120
Dimethomorph	95.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A119420
 Included Lab Sample IDs: 2410836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Disulfoton	96.5		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	96.5		P	80 - 120
Ethion	84.7		P	80 - 120
Ethoprop	101		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	91.3		P	80 - 120
Fenbuconazole	88.6		P	80 - 120
Fipronil	92.8		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	115		P	80 - 120
Fludioxonil	99.5		P	80 - 120
Flumioxazin	97.8		P	80 - 120
Flutolanil	87.4		P	80 - 120
Fluxapyroxad	107		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	98.1		P	80 - 120
Imazalil	105		P	80 - 120
Iprodione	88.3		P	80 - 120
Loratadine	93.0		P	80 - 120
Malathion	91.5		P	80 - 120
Metalaxyl	89.8		P	80 - 120
Metolachlor	98.7		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	93.2		P	80 - 120
Molinate	85.2		P	80 - 120
Myclobutanil	91.9		P	80 - 120
Naled	94.2		P	80 - 120
Napropamide	98.3		P	80 - 120
Norflurazon	99.5		P	80 - 120
Oxadiazon	107		P	80 - 120
Oxyfluorfen	95.0		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	87.1		P	80 - 120
Pendimethalin	113		P	80 - 120
Phenytol	95.7		P	80 - 120
Phorate	90.9		P	80 - 120
Prodiamine	102		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	108		P	80 - 120
Pronamide	98.6		P	80 - 120
Propanil	94.0		P	80 - 120
Propargite	108		P	80 - 120
Propiconazole	91.6		P	80 - 120
Pyraflufen Ethyl	112		P	80 - 120
Pyridaben	111		P	80 - 120
Pyriproxyfen	110		P	80 - 120
Simazine	91.8		P	80 - 120
Stirophos	85.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119420
Included Lab Sample IDs: 2410836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfentrazone	107		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	97.4		P	80 - 120
Terbutylazine	90.3		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	104		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119424
Included Lab Sample IDs: 2410839

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	95.3	93.9	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A119431
Included Lab Sample IDs: 2410835, 2410837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	100		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	105		P	80 - 120
Beta-Cyfluthrin	105		P	80 - 120
Bifenthrin	104		P	80 - 120
Carbophenothion	105		P	80 - 120
Chlorothalonil	102		P	80 - 120
Cis-Nonachlor	104		P	80 - 120
Cypermethrin	108		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	109		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	96.9		P	80 - 120
Delta-BHC	106		P	80 - 120
Deltamethrin	103		P	80 - 120
Dichlobenil	109		P	80 - 120
Dicofol	97.2		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	104		P	80 - 120
Endosulfan II	105		P	80 - 120
Endosulfan Sulfate	104		P	80 - 120
Endrin	104		P	80 - 120
Endrin Aldehyde	107		P	80 - 120
Endrin Ketone	107		P	80 - 120
Esfenvalerate	107		P	80 - 120
Ethalfuralin	97.2		P	80 - 120
Fenpropathrin	105		P	80 - 120
Gamma-BHC	105		P	80 - 120
Gamma-Chlordane	105		P	80 - 120
Heptachlor	103		P	80 - 120
Heptachlor Epoxide	99.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A119431

Included Lab Sample IDs: 2410835, 2410837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexachlorobenzene	100		P	80 - 120
Kepone	90.4		P	80 - 120
Lambda-Cyhalothrin	106		P	80 - 120
Methoprene	105		P	80 - 120
Methoxychlor	98.9		P	80 - 120
MGK-264	103		P	80 - 120
Mirex	101		P	80 - 120
Oxychlordane	105		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	101		P	80 - 120
Piperonyl Butoxide	111		P	80 - 120
Prallethrin	104		P	80 - 120
Tau-Fluvalinate	104		P	80 - 120
Tetramethrin	107		P	80 - 120
Trans-Nonachlor	103		P	80 - 120
Triclosan Methyl	104		P	80 - 120
Trifluralin	102		P	80 - 120

Reference Method: EPA 8321B

Run ID: A119438

Included Lab Sample IDs: 2410833, 2410834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	99.2	107	P/P	50 - 150
2,4,5-T	97.3	93.7	P/P	50 - 150
Acetaminophen	106	104	P/P	60 - 160
Acetamiprid	118	118	P/P	50 - 150
Afidopyropen	90.5	111	P/P	50 - 150
Bentazon	129	124	P/P	50 - 160
Benzovindiflupyr	106	101	P/P	50 - 150
Carbamazepine	106	114	P/P	60 - 150
Clothianidin	117	113	P/P	60 - 150
Dinotefuran	115	113	P/P	50 - 150
Diuron	114	121	P/P	60 - 160
Fenuron	113	116	P/P	60 - 150
Fluridone	120	118	P/P	60 - 160
Hydrocodone	113	109	P/P	60 - 150
Ibuprofen	115	119	P/P	50 - 160
Imazapyr	102	102	P/P	50 - 150
Imidacloprid	107	108	P/P	60 - 150
Linuron	99.8	102	P/P	60 - 150
Mandestrobin	101	102	P/P	50 - 150
MCPP	107	107	P/P	50 - 150
Naproxen	96.2	131	P/P	50 - 160
Primidone	110	107	P/P	60 - 150
Pyraclostrobin	110	112	P/P	60 - 150
Silvex	117	102	P/P	50 - 150
Thiamethoxam	117	117	P/P	50 - 150
Tolfenpyrad	118	117	P/P	60 - 150
Triclopyr	109	92.3	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119450
Included Lab Sample IDs: 2410837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDT-p,p'	102		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119451
Included Lab Sample IDs: 2410835, 2410837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.7		P	80 - 120
PCB-1260	96.6		P	80 - 120

Reference Method: EPA 8276
Run ID: A119459
Included Lab Sample IDs: 2410835, 2410837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.0		P	80 - 120
Toxaphene	88.0		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A119461
Included Lab Sample IDs: 2410820, 2410822

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.2	93.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A119461
Included Lab Sample IDs: 2410820, 2410822

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119471
Included Lab Sample IDs: 2410823

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A119475
Included Lab Sample IDs: 2410838, 2410839, 2410840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	102	P/P	90 - 110
Iron	102	102	P/P	90 - 110
Magnesium	100	100	P/P	90 - 110
Potassium	97.9	98.5	P/P	90 - 110
Sodium	95.1	94.7	P/P	90 - 110
Strontium	100	99.5	P/P	90 - 110
Tin	99.4	99.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A119475

Included Lab Sample IDs: 2410838, 2410839, 2410840

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A119481

Included Lab Sample IDs: 2410821, 2410823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119487

Included Lab Sample IDs: 2410821

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

Reference Method: EPA 8270E

Run ID: A119503

Included Lab Sample IDs: 2410836

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	84.8		P	80 - 120

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	98.6				0.617	
	Color (true)	99.5				8.00	
EPA 180.1 Rev. 2.0	Turbidity	98.7				10.3	
EPA 200.7 Rev. 4.4	Calcium	101	100	100			1.70
	Iron	104	104	104	102		0.0113
	Magnesium	101	99.9	100			0.211
	Potassium	101	100	98.7			0.924
	Sodium	96.0	95.8	96.6			0.980
	Strontium	102	99.2	99.8	99.9		0.564
	Tin	99.9	98.5	100	97.8		1.47
	Titanium	100	101	101	100		0.831
	Vanadium	100	102	102	99.5		0.600
EPA 200.8 Rev. 5.4	Aluminum	97.2	95.8	97.1	96.9		1.22
	Antimony	102	103	103	101		0.408
	Arsenic	99.2	99.6	101	96.6		0.971
	Barium	102	102	103	101		0.501
	Beryllium	97.3	98.6	95.5	92.6		3.17
	Boron	97.5	95.0	95.4	99.5		0.380
	Cadmium	98.6	98.4	97.4	98.9		1.04
	Chromium	93.9	92.0	93.2	93.8		1.28
	Cobalt	98.2	95.8	96.6	95.9		0.895
	Copper	100	97.5	115	95.2		18.6
	Lead	99.6	99.9	100	99.9		0.538
	Manganese	99.7	99.6	99.8	95.8		0.222
	Molybdenum	98.3	98.0	98.6	96.2		0.661
	Nickel	95.3	93.3	94.9	95.3		1.73
	Selenium	100	98.4	99.0	96.9		0.638
	Silver	101	99.2	99.7	100		0.416
	Thallium	97.8	97.9	101	97.7		2.77
	Zinc	96.3	96.7	98.5	97.3		1.80
EPA 300.0 Rev. 2.1	Chloride	103	102	100		2.83	
	Sulfate	101	102	102			
EPA 350.1 Rev. 2.0	Ammonia-N	98.0	97.6	98.2			0.485
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100					11.3
EPA 353.2 Rev. 2.0	NO2NO3-N	105	105	104			0.766
EPA 365.1 Rev. 2.0	Total-P	102	103	101			2.21
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	34.7	95.3	127			28.5
	Acetochlor	83.3	72.7	79.9			9.52
	Alachlor	117	89.0	94.0			5.43
	Aldrin	50.2	52.1	56.3			7.71
	Alpha-BHC	94.8	89.8	89.8			0.0887
	Alpha-Chlordane	78.9	66.5	66.2			0.560
	Ametryn	97.7	121	93.8			25.7
	Atrazine	92.1					6.70
	Atrazine Desethyl	93.9	86.2	107			21.8
	Avobenzone	168	135	184			31.1
	Azinphos Methyl	94.7	65.9	85.7			26.1
	Azoxystrobin	104	81.3	96.4			17.0
	Beta-BHC	86.6	79.7	78.2			1.88
	Beta-Cyfluthrin	97.2	107	91.4			15.9
	Bifenthrin	53.4	69.8	65.9			5.79
	Bromacil	92.9	65.4	76.4			15.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Butylate	61.6	62.0	59.5		4.20
	Caffeine	107	106	131		20.8
	Carbophenothion	130	100	118		15.7
	Carbophenothion	69.3	60.4	59.7		1.06
	Carfentrazone Ethyl	101	69.1	77.1		10.9
	Chlorfenapyr	85.0	68.7	75.3		9.20
	Chlorothalonil	102	122	136		10.7
	Chlorpyrifos Ethyl	86.7	108	85.3		23.7
	Chlorpyrifos Methyl	94.1	79.0	81.6		3.17
	Cis-Nonachlor	75.9	62.5	59.5		4.95
	Coumaphos	114	61.4	92.8		40.7
	Cyanazine	202	164	237		36.1
	Cypermethrin	106	100	78.5		24.1
	Cyprodinil	95.6	84.3	87.8		4.09
	Dacthal	102	102	97.3		5.20
	DDD-p,p'	82.9	58.9	57.0		3.27
	DDE-p,p'	78.3	62.4	61.4		1.72
	DDT-p,p'	88.8	81.8	82.8		1.06
	Dechlorane 602	99.8	75.7	109		35.8
	Dechlorane 603	124	102	135		28.4
	Dechlorane Plus	129	106	93.5		12.9
	Delta-BHC	115	118	129		9.07
	Deltamethrin	125	131	125		4.71
	Demeton	65.6	63.1	70.6		11.3
	Diazinon	92.8	89.5	86.1		3.86
	Dichlobenil	96.8	63.6	69.0		8.15
	Dicofol	74.8	66.7	70.3		5.24
	Dieldrin	79.5	68.7	69.9		1.70
	Difenoconazole	116	45.9	114		84.9
	Dimethenamid	91.3	72.9	84.6		15.0
	Dimethomorph	132	143	101		34.5
	Disulfoton	83.7	75.7	84.7		11.2
	Dithiopyr	89.4	76.0	80.0		5.10
	Endosulfan I	82.9	73.0	73.6		0.861
	Endosulfan II	83.2	69.1	65.7		5.07
	Endosulfan Sulfate	89.9	69.1	66.8		3.43
	Endrin	80.8	65.7	64.8		1.42
	Endrin Aldehyde	101	78.9	79.0		0.202
	Endrin Ketone	108	66.0	55.6		17.1
	EPTC	47.0	51.0	49.6		2.66
	Esfenvalerate	94.8	108	100		7.44
	Ethalfuralin	72.4	68.3	69.5		1.81
	Ethion	82.1	95.9	111		14.8
	Ethoprop	80.9	100	94.8		5.55
	Etridiazole	87.2	77.1	85.9		10.8
	Fenamiphos	84.1	68.7	61.9		10.5
	Fenbuconazole	86.9	37.4	73.6		65.3
	Fenpropathrin	62.9	64.8	64.8		0.0530
	Fipronil	125	98.6	111		11.8
	Fipronil Desulfanyl	127	94.9	105		9.71
	Fipronil Sulfide	91.3	75.5	86.7		13.8
	Fipronil Sulfone	88.2	68.2	78.9		14.6
	Fluazifop-P-butyl	80.4	75.1	77.3		2.92
	Fludioxonil	95.3	73.9	84.7		13.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Flumioxazin	111	57.0	112		65.0
	Flutolanil	96.3	91.8	101		9.07
	Fluxapyroxad	124	92.7	118		23.8
	Fonofos	88.3	91.8	81.9		11.4
	Gamma-BHC	103	105	112		6.54
	Gamma-Chlordane	78.8	69.1	72.2		4.42
	Heptachlor	75.1	69.8	73.3		4.96
	Heptachlor Epoxide	91.2	83.6	79.1		5.49
	Hexabromobenzene	116	124	133		6.74
	Hexachlorobenzene	66.3	61.8	60.8		1.48
	Hexazinone	92.0	97.6	84.9		13.9
	Imazalil	97.7	178	104		52.4
	Iprodione	132	81.2	53.7		40.9
	Kepone	143	134	121		10.8
	Lambda-Cyhalothrin	65.9	80.2	80.2		0.0565
	Loratadine	120	146	90.5		46.9
	Malathion	129	75.7	96.0		23.6
	Metalaxyl	112	101	114		11.4
	Methoprene	51.3	68.1	67.9		0.281
	Methoxychlor	89.6	84.2	89.4		5.93
	Metolachlor	106	91.2	97.0		5.30
	Metribuzin	100	94.3	94.5		0.195
	Mevinphos	88.0	81.2	73.6		9.86
	MGK-264	94.3	100	99.1		1.10
	Mirex	61.3	54.2	48.2		11.6
	Molinate	58.2	57.7	61.5		6.38
	Myclobutanil	89.5	80.7	72.4		10.8
	Naled	43.1	40.9	37.9		7.60
	Napropamide	81.3	73.3	62.2		16.3
	Norflurazon	77.8	68.2	57.0		17.9
	Octinoxate	120	106	116		9.85
	Oxadiazon	81.1	74.1	65.1		12.9
	Oxybenzone	119	114	124		8.10
	Oxychlordane	92.3	78.6	93.8		17.6
	Oxyfluorfen	108	97.1	100		3.10
	Parathion Ethyl	98.3	96.5	93.8		2.81
	Parathion Methyl	92.7	86.5	94.7		9.08
	PBB-153	89.0	107	150		33.8
	PBDE-47	104	101	118		15.4
	PBDE-99	64.6	78.0	112		35.7
	PCB-1016	68.9	68.2	80.0		15.8
	PCB-1260	68.5	81.1	88.0		8.14
	Pendimethalin	103	100	109		8.60
	Pentabromotoluene	111	109	117		6.72
	Permethrin	72.5	77.7	76.4		1.68
	Phenothrin	40.2	64.5	70.2		8.39
	Phenytol	58.2	58.1	65.8		12.4
	Phorate	84.4	96.7	83.1		15.1
	Piperonyl Butoxide	79.9	75.8	78.7		3.75
	Prallethrin	68.2	67.2	63.7		5.29
	Prodiamine	72.1	59.8	57.9		3.24
	Prometon	85.5	86.4	110		23.9
	Prometryn	128	117	99.4		16.6
	Pronamide	93.6	84.1	82.4		2.10

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Propanil	139	126	125		1.03
	Propargite	119	97.5	85.7		12.9
	Propiconazole	86.4	67.5	63.7		5.70
	Pyraflufen Ethyl	68.1	70.3	58.6		18.1
	Pyridaben	119	111	71.8		43.2
	Pyriproxyfen	130	122	90.8		29.1
	Simazine	79.7	72.4	72.2		0.139
	Stirophos	105	98.0	79.3		21.1
	Sulfentrazone	108	111	92.8		17.8
	Tau-Fluvalinate	85.9	107	109		1.31
	Tebuconazole	101	82.6	76.8		7.27
	Terbufos	87.2	80.0	90.9		12.8
	Terbutylazine	105	94.6	96.9		2.43
	Tetradecachloro-m-terphenyl	180	193	215		10.4
	Tetramethrin	69.0	83.6	84.3		0.805
	Thiobencarb	84.2	75.8	55.0		31.7
	Trans-Nonachlor	77.5	66.4	69.9		5.07
	Tri-o-cresyl Phosphate	123	100	120		17.8
	Triadimefon	79.3	83.8	77.4		7.92
	Triclosan Methyl	81.0	63.7	66.8		4.86
	Trifluralin	75.5	69.9	65.1		7.22
	Tris(1-chloro-2-propyl) phosphate (TCPP)	125	107	89.7		18.0
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	110	103	114		9.69
	Tris(2-chloroethyl) phosphate (TCEP)	123	118	119		0.807
EPA 8276	Chlordane	72.5	53.2	72.7		30.9
	Toxaphene	79.8	56.3	79.1		33.7
EPA 8321B	2,4-D	95.5	85.5	83.4		1.47
	2,4,5-T	80.0	98.1	96.2		1.99
	3-Hydroxycarbofuran	76.4	79.3	73.1		8.16
	Acesulfame K	98.8	68.4	67.5		1.35
	Acetaminophen	86.0	93.3	92.7		0.607
	Acetamiprid	73.5	68.3	71.1		4.09
	Afidopyropen	77.3	69.2	72.0		3.91
	Aldicarb	50.7	39.8	48.5		19.8
	Aldicarb Sulfone	91.1	82.5	82.8		0.336
	Aldicarb Sulfoxide	97.0	35.2	36.6		3.94
	AMPA	121	88.1	87.9		0.227
	Bentazon	98.3				
	Benzovindiflupyr	77.9	83.4	86.7		3.86
	Carbamazepine	75.7	71.8	70.0		2.21
	Carbaryl	79.1	76.5	81.7		6.55
	Carbofuran	64.7	62.0	62.4		0.728
	Clothianidin	90.2	96.8	109		7.91
	Dinotefuran	88.8	87.4	85.9		1.71
	Diuron	76.7	72.9	66.0		9.91
	Endothall	88.2	102	93.9		8.17
	Fenuron	87.0	65.0	66.6		2.49
	Fluridone	88.4				0.155
	Glufosinate	93.7	78.4	84.9		8.02
	Glyphosate	106	110	110		0.433
	Hydrocodone	83.5	70.5	69.2		1.85

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
			LCS	SMP	MS	
EPA 8321B	Ibuprofen	81.1	51.8	50.0		3.43
	Imazapyr	89.0				1.27
	Imidacloprid	84.5	148	155		3.81
	Linuron	79.8	68.9	76.2		10.2
	Mandestrobin	76.3	81.2	80.3		1.10
	MCCP	93.6	101	101		0.226
	Methiocarb	77.2	79.6	82.6		3.80
	Methomyl	84.4	68.5	71.0		3.67
	Naproxen	60.5	65.3	60.7		7.29
	Oxamyl	88.5	71.0	65.5		8.01
	Primidone	81.1	83.1	84.6		1.53
	Propoxur	73.1	65.2	65.0		0.205
	Pyraclostrobin	78.0	85.4	83.8		1.93
	Silvex	88.6	80.8	93.5		14.6
	Sucralose	122	121	110		9.33
	Thiamethoxam	89.7	110	113		2.74
	Tolfenpyrad	63.7	63.0	59.2		6.36
	Triclopyr	84.5	88.1	93.4		5.80
SM 2320 B-2011	Total Alkalinity	97.8			0.702	
SM 2540 C-2015	TDS	103			3.55	
SM 2540 D-2015	TSS	103			7.23	
SM 4500-F- C-2011	Fluoride	102	101	98.4		1.99
SM 5310 B-2011	Organic Carbon	94.6	96.4	98.7		2.41

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2410820, 2410822
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2410820, 2410822
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2410838, 2410839, 2410840
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2410838, 2410839, 2410840
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2410820, 2410822
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2410820, 2410822
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2410821, 2410823
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2410821, 2410823
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2410821, 2410823
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2410821, 2410823
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2410836
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2410835, 2410837
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2410836
EPA 8270E	PCBs in water matrices by GC/MS/MS	2410835, 2410837
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2410835, 2410837
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2410832
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2410833, 2410834
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2410820, 2410822
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2410838, 2410839, 2410840
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2410820, 2410822
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2410820, 2410822
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2410820, 2410822
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2410821, 2410823

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	05/18/2023			05/18/2023 15:15	Alexis Price	2410822
	05/18/2023			05/18/2023 15:37	Alexis Price	2410820
EPA 180.1 Rev. 2.0	05/18/2023			05/18/2023 13:24	Khloe J Berg	2410820
	05/18/2023			05/18/2023 13:25	Khloe J Berg	2410822
EPA 200.7 Rev. 4.4	05/18/2023	05/19/2023 12:20	George D Taylor	05/30/2023 20:07	McKinley C Carter	2410838
	05/18/2023	05/19/2023 12:20	George D Taylor	05/30/2023 20:14	McKinley C Carter	2410839
EPA 200.8 Rev. 5.4	05/18/2023	05/19/2023 12:20	George D Taylor	05/30/2023 20:20	McKinley C Carter	2410840
	05/18/2023	05/19/2023 12:20	George D Taylor	05/23/2023 17:57	Conrad Hartmann	2410838
	05/18/2023	05/19/2023 12:20	George D Taylor	05/23/2023 18:06	Conrad Hartmann	2410839
	05/18/2023	05/19/2023 12:20	George D Taylor	05/23/2023 18:15	Conrad Hartmann	2410840
	05/18/2023	05/19/2023 12:20	George D Taylor	05/24/2023 16:34	Conrad Hartmann	2410838
	05/18/2023	05/19/2023 12:20	George D Taylor	05/24/2023 16:40	Conrad Hartmann	2410839
	05/18/2023	05/19/2023 12:20	George D Taylor	05/24/2023 16:46	Conrad Hartmann	2410840
EPA 300.0 Rev. 2.1	05/18/2023	05/19/2023 12:20	George D Taylor	05/25/2023 18:34	Conrad Hartmann	2410839
	05/18/2023			05/25/2023 04:58	James L Waggeberby	2410820
EPA 350.1 Rev. 2.0	05/18/2023			05/25/2023 05:13	James L Waggeberby	2410822
	05/18/2023			05/25/2023 12:19	Khloe J Berg	2410821
EPA 351.2 Rev. 2.0	05/18/2023	05/23/2023 11:55	Dana G. Hughes	05/25/2023 12:20	Khloe J Berg	2410823
	05/18/2023	05/23/2023 11:55	Dana G. Hughes	05/24/2023 14:49	Samantha L Bates	2410821
EPA 353.2 Rev. 2.0	05/18/2023	05/23/2023 11:55	Dana G. Hughes	05/24/2023 14:51	Samantha L Bates	2410823
	05/18/2023			05/31/2023 09:47	Beverly Y. Sanders	2410821
EPA 365.1 Rev. 2.0	05/18/2023			05/31/2023 09:48	Beverly Y. Sanders	2410823
	05/18/2023	05/26/2023 09:45	Adam P Silver	05/30/2023 14:16	Chandler E Cox	2410823
EPA 8270E	05/18/2023	05/26/2023 09:45	Adam P Silver	05/31/2023 12:27	Chandler E Cox	2410821
	05/18/2023	05/22/2023 08:00	Fe-Val Siddell	05/23/2023 18:18	Vandana T. Nagar	2410836
EPA 8276	05/18/2023	05/22/2023 08:00	Fe-Val Siddell	05/24/2023 20:28	Arthur Maknenko	2410836
	05/18/2023	05/22/2023 08:00	Fe-Val Siddell	05/26/2023 16:46	Vandana T. Nagar	2410836
	05/18/2023	05/23/2023 08:00	Rasheda Ghaffari	05/25/2023 19:47	Michael Poppell	2410835
	05/18/2023	05/23/2023 08:00	Rasheda Ghaffari	05/25/2023 23:43	Michael Poppell	2410837
	05/18/2023	05/23/2023 08:00	Rasheda Ghaffari	05/28/2023 22:21	Michael Poppell	2410837
	05/18/2023	05/23/2023 08:00	Rasheda Ghaffari	05/29/2023 09:52	Julie Wi	2410835
	05/18/2023	05/23/2023 08:00	Rasheda Ghaffari	05/29/2023 10:22	Julie Wi	2410837
EPA 8321B	05/18/2023	05/23/2023 08:00	Rasheda Ghaffari	05/26/2023 14:55	Lipi Saha	2410835
	05/18/2023	05/23/2023 08:00	Rasheda Ghaffari	05/26/2023 15:52	Lipi Saha	2410837
	05/18/2023	05/19/2023 14:00	Touraj Touran	05/20/2023 02:16	Manjita Shrestha	2410833
	05/18/2023	05/19/2023 14:00	Touraj Touran	05/20/2023 02:29	Manjita Shrestha	2410834
	05/18/2023	05/19/2023 14:00	Touraj Touran	05/21/2023 04:03	Manjita Shrestha	2410833
	05/18/2023	05/19/2023 14:00	Touraj Touran	05/21/2023 04:17	Manjita Shrestha	2410834
	05/18/2023	05/22/2023 09:00	Hoor Shaik	05/24/2023 22:53	Juyoung Kim	2410832
	05/18/2023	05/23/2023 09:00	Hoor Shaik	05/26/2023 03:05	Juyoung Kim	2410833

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	05/18/2023	05/23/2023 09:00	Hoor Shaik	05/26/2023 03:24	Juyoung Kim	2410834
SM 2320 B-2011	05/18/2023			05/26/2023 03:19	Dale L. Simmons	2410820
	05/18/2023			05/26/2023 03:29	Dale L. Simmons	2410822
SM 2340 B-2011	05/18/2023			05/30/2023 20:07	McKinley C Carter	2410838
	05/18/2023			05/30/2023 20:14	McKinley C Carter	2410839
	05/18/2023			05/30/2023 20:20	McKinley C Carter	2410840
SM 2540 C-2015	05/18/2023			05/19/2023 16:01	Yijie Li	2410820, 2410822
SM 2540 D-2015	05/18/2023			05/19/2023 16:01	Yijie Li	2410820, 2410822
SM 4500-F- C-2011	05/18/2023			05/26/2023 03:19	Dale L. Simmons	2410820
	05/18/2023			05/26/2023 03:29	Dale L. Simmons	2410822
SM 5310 B-2011	05/18/2023			05/23/2023 01:58	Elise M. Gillis	2410821
	05/18/2023			05/23/2023 02:16	Elise M. Gillis	2410823