

Chemical Analysis Report

TLH-ROC-2022-03-10-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

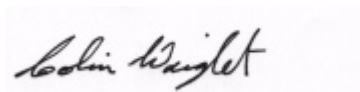
Event Description: **Run 18**
Request ID: **RQ-2022-02-21-77**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 04-APR-2022 11:53

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

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: Lewis Creek upstream HWY 157

Collection Date/Time: 03/10/2022 09:05

Field ID: G1TLHR0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311844	DEP SOP: NU-094-1	Color (true)**	46	A	PCU	P410961	
	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P410964	
	EPA 300.0 Rev. 2.1	Chloride	8.8		mg Cl/L	P411237	
		Sulfate	1.9		mg SO4/L	P411239	
	SM 2320 B-2011	Total Alkalinity	11		mg CaCO3/L	P411166	
	SM 2540 C-2011	TDS	51		mg/L	P411396	
	SM 2540 D-2011	TSS	4	I	mg/L	P411376	
	SM 4500 F-C-2011	Fluoride	0.060	I	mg F/L	P411168	
2311845	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P410995	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.49		mg N/L	P411399	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	I	mg N/L	P411228	
	EPA 365.1 Rev. 2.0	Total-P	0.053		mg P/L	P411146	
	SM 5310 B-2011	Organic Carbon	6.2		mg C/L	P411154	
2311846	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.007	I	mg P/L	P410956	
2311870	EPA 200.7 Rev. 4.4	Calcium	4.11		mg/L	P411036	
		Iron	940		ug/L	P411036	
		Magnesium	2.00		mg/L	P411036	
		Potassium	1.0	I	mg/L	P411036	
		Sodium	4.7		mg/L	P411036	
		Strontium	13.5		ug/L	P411036	
		Tin	3.0	U	ug/L	P411036	
		Titanium	1.1	I	ug/L	P411036	
	EPA 200.8 Rev. 5.4	Vanadium	2.0	U	ug/L	P411036	
		Zinc	5.0	U	ug/L	P411036	
		Aluminum	75		ug/L	P411036	
		Antimony	0.050	U	ug/L	P411036	
		Arsenic	0.48		ug/L	P411036	
		Barium	11.8		ug/L	P411036	
		Beryllium	0.012	I	ug/L	P411036	
		Boron**	12.9		ug/L	P411036	
		Cadmium	0.020	U	ug/L	P411036	
		Chromium	0.40	U	ug/L	P411036	
		Cobalt	0.068	I	ug/L	P411036	
		Copper	0.40	U	ug/L	P411036	
		Lead	0.20	U	ug/L	P411036	
		Manganese	55.9		ug/L	P411036	
		Molybdenum	0.15	U	ug/L	P411036	
		Nickel	0.50	U	ug/L	P411036	
		Selenium	0.20	U	ug/L	P411036	
		Silver	0.010	U	ug/L	P411036	
		Thallium	0.10	U	ug/L	P411036	
	SM 2340B	Hardness	18.5		mg/L	P411036	

Field ID: G1TLHR0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

Sample Location: Hurricane Creek upstream US90

Collection Date/Time: 03/10/2022 10:50

Field ID: G1TLHR0161

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311847	DEP SOP: NU-094-1	Color (true)**	82	A	PCU	P410963	
	EPA 180.1 Rev. 2.0	Turbidity	26		NTU	P410964	
	EPA 300.0 Rev. 2.1	Sulfate	8.9		mg SO4/L	P411370	
	SM 2320 B-2011	Total Alkalinity	17		mg CaCO3/L	P411166	
	SM 2540 C-2011	TDS	81		mg/L	P411396	
	SM 2540 D-2011	TSS	34		mg/L	P411376	
	SM 4500 F-C-2011	Fluoride	0.093	I	mg F/L	P411168	
2311848	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P410995	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P411110	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.065		mg N/L	P411228	
	EPA 365.1 Rev. 2.0	Total-P	0.27		mg P/L	P411146	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P411154	
2311849	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.069		mg P/L	P410956	
2311863	EPA 8321B	2,4-D	0.013		ug/L	411114	
		Acesulfame K	0.10	U	ug/L	P410969	
		2,4,5-T	0.0040	U	ug/L	411114	
		AMPA	0.28	I	ug/L	P410969	
		Sucralose	0.053		ug/L	P410969	
		Acetaminophen	0.0080	U	ug/L	411114	
		Acetamiprid	0.015		ug/L	411114	
		Endothall	0.25	U	ug/L	P410969	RPD
		Glufosinate	0.10	U	ug/L	P410969	
		Glyphosate	0.10	I	ug/L	P410969	
		Afidopyropen	0.0020	U	ug/L	411114	
		Bentazon	0.076		ug/L	411114	
		Benzovindiflupyr	0.0020	U	ug/L	411114	
		Carbamazepine	8.0E-04	U	ug/L	411114	
		Clothianidin	0.0020	U	ug/L	411114	
		Dinotefuran	0.0021	I	ug/L	411114	
		Diuron	0.0020	U	ug/L	411114	
		Fenuron	0.016	U	ug/L	411114	
		Fluridone	8.0E-04	U	ug/L	411114	
		Imazapyr	0.0040	U	ug/L	411114	
		Hydrocodone	0.0020	U	ug/L	411114	
		Ibuprofen	0.020	U	ug/L	411114	
		Imidacloprid	0.013		ug/L	411114	
		Linuron	0.0040	U	ug/L	411114	RPD
		Mandestrobin	0.0020	U	ug/L	411114	
		MCPP	0.0040	U	ug/L	411114	
		Naproxen	0.0080	U	ug/L	411114	
		Primidone	0.0040	U	ug/L	411114	
		Pyraclostrobin	0.0020	U	ug/L	411114	
		Silvex	0.0040	U	ug/L	411114	

Field ID: G1TLHR0161

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311863	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	411114	
		Tolfenpyrad	0.0020	U	ug/L	411114	
		Triclopyr	0.0040	U	ug/L	411114	
2311871	EPA 200.7 Rev. 4.4	Calcium	9.46		mg/L	P411036	
		Iron	1.07E+03		ug/L	P411036	
		Magnesium	3.50		mg/L	P411036	
		Potassium	1.4		mg/L	P411036	
		Sodium	4.6		mg/L	P411036	
		Strontium	44.4		ug/L	P411036	
		Tin	3.0	U	ug/L	P411036	
		Titanium	5.6		ug/L	P411036	
		Vanadium	3.0	I	ug/L	P411036	
		Zinc	5.0	U	ug/L	P411036	
	EPA 200.8 Rev. 5.4	Aluminum	484		ug/L	P411036	
		Antimony	0.050	U	ug/L	P411036	
		Arsenic	0.66		ug/L	P411036	
		Barium	14.3		ug/L	P411036	
		Beryllium	0.053		ug/L	P411036	
		Boron**	15.3		ug/L	P411036	
		Cadmium	0.020	U	ug/L	P411036	
		Chromium	0.73	I	ug/L	P411036	
		Cobalt	0.157		ug/L	P411036	
		Copper	0.75	I	ug/L	P411036	
		Lead	0.41		ug/L	P411036	
		Manganese	61.0		ug/L	P411036	
		Molybdenum	0.21	I	ug/L	P411036	
		Nickel	0.50	U	ug/L	P411036	
		Selenium	0.20	U	ug/L	P411036	
		Silver	0.010	U	ug/L	P411036	
		Thallium	0.10	U	ug/L	P411036	
	SM 2340B	Hardness	38.1		mg/L	P411036	

Sample Location: Willacoochee Creek upstream Milligan Rd

Collection Date/Time: 03/10/2022 10:20

Field ID: G1TLHR0157

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311861	EPA 8321B	2,4-D	0.0020	U	ug/L	411114	
		Acesulfame K	0.10	U	ug/L	P410969	
		2,4,5-T	0.0040	U	ug/L	411114	
		AMPA	0.10	U	ug/L	P410969	
		Sucralose	0.044		ug/L	P410969	
		Acetaminophen	0.0080	U	ug/L	411114	
		Acetamiprid	0.0020	U	ug/L	411114	
		Endothall	0.25	U	ug/L	P410969	RPD
		Glufosinate	0.10	U	ug/L	P410969	
		Glyphosate	0.10	U	ug/L	P410969	
		Afidopyropen	0.0020	U	ug/L	411114	
		Bentazon	0.0020	I	ug/L	411114	
		Benzovindiflupyr	0.0034	I	ug/L	411114	
		Carbamazepine	0.0012	I	ug/L	411114	
		Clothianidin	0.0021	I	ug/L	411114	
		Dinotefuran	0.12		ug/L	411114	
		Diuron	0.0020	U	ug/L	411114	
		Fenuron	0.016	U	ug/L	411114	
		Fluridone	8.0E-04	U	ug/L	411114	
		Imazapyr	0.14		ug/L	411114	
		Hydrocodone	0.0020	U	ug/L	411114	
		Ibuprofen	0.020	U	ug/L	411114	
		Imidacloprid	0.0076	I	ug/L	411114	
		Linuron	0.0040	U	ug/L	411114	RPD
		Mandestrobin	0.0020	U	ug/L	411114	
		MCPP	0.0040	U	ug/L	411114	
		Naproxen	0.0080	U	ug/L	411114	
		Primidone	0.0040	U	ug/L	411114	
		Pyraclostrobin	0.0020	U	ug/L	411114	
		Silvex	0.0040	U	ug/L	411114	
		Thiamethoxam	0.0020	U	ug/L	411114	
		Tolfenpyrad	0.0020	U	ug/L	411114	
		Triclopyr	0.0040	U	ug/L	411114	
2311868	EPA 200.7 Rev. 4.4	Calcium	7.15		mg/L	P411036	
		Iron	1.59E+03		ug/L	P411036	
		Magnesium	3.06		mg/L	P411036	
		Potassium	1.1	I	mg/L	P411036	
		Sodium	3.4		mg/L	P411036	
		Strontium	25.7		ug/L	P411036	
		Tin	3.0	U	ug/L	P411036	
		Titanium	4.2		ug/L	P411036	
		Vanadium	2.0	U	ug/L	P411036	
		Zinc	5.0	U	ug/L	P411036	
	EPA 200.8 Rev. 5.4	Aluminum	295		ug/L	P411036	

Field ID: G1TLHR0157

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311868	EPA 200.8 Rev. 5.4	Antimony	0.050	U	ug/L	P411036	
		Arsenic	0.65		ug/L	P411036	
		Barium	26.1		ug/L	P411036	
		Beryllium	0.036	I	ug/L	P411036	
		Boron**	11.4		ug/L	P411036	
		Cadmium	0.020	U	ug/L	P411036	
		Chromium	0.52	I	ug/L	P411036	
		Cobalt	0.232		ug/L	P411036	
		Copper	1.09		ug/L	P411036	
		Lead	0.39	I	ug/L	P411036	
		Manganese	67.0		ug/L	P411036	
		Molybdenum	0.15	U	ug/L	P411036	
		Nickel	0.50	U	ug/L	P411036	
		Selenium	0.20	U	ug/L	P411036	
		Silver	0.010	U	ug/L	P411036	
		Thallium	0.10	U	ug/L	P411036	
	SM 2340B	Hardness	30.5		mg/L	P411036	

Sample Location: Richlander Creek upstream HWY65B

Collection Date/Time: 03/10/2022 11:30

Field ID: G1TLHR0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311864	EPA 8321B	Aldicarb	0.020	U	ug/L	P410796	
		Aldicarb Sulfone	0.0020	U	ug/L	P410796	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P410796	
		Carbaryl	0.0062	I	ug/L	P410796	
		Carbofuran	0.0020	U	ug/L	P410796	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P410796	
		Methiocarb	0.0020	U	ug/L	P410796	
		Methomyl	0.0020	U	ug/L	P410796	
		Oxamyl	0.0020	U	ug/L	P410796	
		Propoxur	0.0020	U	ug/L	P410796	
2311865		2,4-D	0.033		ug/L	411114	
		Acesulfame K	0.10	U	ug/L	P410969	
		2,4,5-T	0.0040	U	ug/L	411114	
		AMPA	0.10	U	ug/L	P410969	
		Sucralose	0.051		ug/L	P410969	
		Acetaminophen	0.0080	U	ug/L	411114	
		Acetamiprid	0.0020	U	ug/L	411114	
		Endothall	0.25	U	ug/L	P410969	RPD
		Glufosinate	0.10	U	ug/L	P410969	
		Glyphosate	0.10	U	ug/L	P410969	
		Afidopyropen	0.0020	U	ug/L	411114	
		Bentazon	8.0E-04	U	ug/L	411114	
		Benzovindiflupyr	0.0020	U	ug/L	411114	
		Carbamazepine	8.0E-04	U	ug/L	411114	
		Clothianidin	0.0020	U	ug/L	411114	
		Dinotefuran	0.0020	U	ug/L	411114	
		Diuron	0.0020	U	ug/L	411114	
		Fenuron	0.016	U	ug/L	411114	
		Fluridone	8.0E-04	U	ug/L	411114	
		Imazapyr	0.0040	U	ug/L	411114	
		Hydrocodone	0.0020	U	ug/L	411114	
		Ibuprofen	0.020	U	ug/L	411114	
		Imidacloprid	0.0020	U	ug/L	411114	
		Linuron	0.0040	U	ug/L	411114	RPD
		Mandestrobin	0.0020	U	ug/L	411114	
		MCPP	0.0040	U	ug/L	411114	
		Naproxen	0.0080	U	ug/L	411114	
		Primidone	0.0040	U	ug/L	411114	
		Pyraclostrobin	0.0020	U	ug/L	411114	
		Silvex	0.0040	U	ug/L	411114	
		Thiamethoxam	0.0020	U	ug/L	411114	
		Tolfenpyrad	0.0020	U	ug/L	411114	
		Triclopyr	0.0040	U	ug/L	411114	
2311866	EPA 8270E	Aldrin	0.74	U	ng/L	P410935	

Field ID: G1TLHR0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311866	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P410935	
		Alpha-Chlordane	0.23	U	ng/L	P410935	
		Beta-BHC	0.11	U	ng/L	P410935	
		Beta-Cyfluthrin**	1.4	U	ng/L	P410935	
		Bifenthrin**	0.57	U	ng/L	P410935	
		Chlorothalonil	1.4	U	ng/L	P410935	
		Cis-Nonachlor**	0.23	U	ng/L	P410935	
		Cypermethrin	1.7	U	ng/L	P410935	
		Dacthal**	0.17	U	ng/L	P410935	
		DDD-p,p'	0.29	U	ng/L	P410935	
		DDE-p,p'	0.23	U	ng/L	P410935	
		DDT-p,p'	0.29	U	ng/L	P410935	
		Delta-BHC	3.7		ng/L	P410935	
		Deltamethrin**	1.4	U	ng/L	P410935	
		Dichlobenil**	0.29	U	ng/L	P410935	
		Dicofol	1.4	U	ng/L	P410935	
		Dieldrin	0.46	U	ng/L	P410935	
		Endosulfan I	0.46	U	ng/L	P410935	
		Endosulfan II	0.46	U	ng/L	P410935	
		Endosulfan Sulfate	0.34	U	ng/L	P410935	
		Endrin	0.46	U	ng/L	P410935	
		Endrin Aldehyde	0.86	U	ng/L	P410935	
		Endrin Ketone	0.46	UJ	ng/L	P410935	LCS
		Esfenvalerate**	0.86	U	ng/L	P410935	
		Ethalfuralin**	0.17	U	ng/L	P410935	
		Fenpropathrin**	0.29	U	ng/L	P410935	
		Gamma-BHC	0.14	U	ng/L	P410935	
		Gamma-Chlordane	0.23	U	ng/L	P410935	
		Heptachlor	0.23	U	ng/L	P410935	
		Heptachlor Epoxide	0.29	U	ng/L	P410935	
		Hexachlorobenzene	1.1	U	ng/L	P410935	
		Kepone**	5.7	U	ng/L	P410935	
		Lambda-Cyhalothrin**	0.86	U	ng/L	P410935	
		Methoprene**	0.86	U	ng/L	P410935	
		Methoxychlor	0.34	U	ng/L	P410935	
		MGK-264**	0.23	U	ng/L	P410935	
		Mirex	0.80	U	ng/L	P410935	
		Oxychlordane**	0.34	U	ng/L	P410935	
		Permethrin	3.3	I	ng/L	P410935	
		Phenothrin**	1.0	U	ng/L	P410935	
		Piperonyl Butoxide**	0.17	U	ng/L	P410935	
		Prallethrin**	2.3	U	ng/L	P410935	
		Tau-Fluvalinate**	0.29	U	ng/L	P410935	
		Tetramethrin**	0.86	U	ng/L	P410935	
		Trans-Nonachlor**	0.23	U	ng/L	P410935	

Field ID: G1TLHR0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311866	EPA 8270E	Triclosan Methyl**	0.17	U	ng/L	P410935	
		Trifluralin	0.23	U	ng/L	P410935	
	EPA 8276	Chlordane	2.9	U	ng/L	P410935	
		Toxaphene	17	U	ng/L	P410935	
2311867	EPA 8270E	Acetochlor	0.26	UQ	ng/L	P411545	
		Alachlor	0.26	UQ	ng/L	P411545	
		Ametryn	0.63	UQ	ng/L	P411545	
		Atrazine	0.82	IQ	ng/L	P411545	
		Atrazine Desethyl	1.6	UQ	ng/L	P411545	
		Azinphos Methyl	2.1	UQ	ng/L	P411545	
		Azoxystrobin**	0.52	UQ	ng/L	P411545	
		Bromacil	0.52	UQ	ng/L	P411545	
		Butylate	0.42	UQ	ng/L	P411545	
		Caffeine**	14	IQ	ng/L	P411545	
		Carbophenothion	0.21	UQ	ng/L	P411545	MS
		Carfentrazone Ethyl**	0.10	UQ	ng/L	P411545	MS
		Chlorfenapyr**	0.18	UQ	ng/L	P411545	
		Chlorpyrifos Ethyl	0.26	UQ	ng/L	P411545	
		Chlorpyrifos Methyl	0.052	UQ	ng/L	P411545	
		Coumaphos**	0.52	UQ	ng/L	P411545	
		Cyanazine	3.4	UQ	ng/L	P411545	
		Cyprodinil**	0.10	UQ	ng/L	P411545	
		Demeton	1.6	UQ	ng/L	P411545	
		Diazinon	0.13	UQ	ng/L	P411545	
		Difenoconazole**	0.63	UQ	ng/L	P411545	
		Dimethenamid**	0.10	UQ	ng/L	P411545	
		Dimethomorph**	0.18	UQ	ng/L	P411545	
		Disulfoton	0.52	UQ	ng/L	P411545	
		Dithiopyr**	0.18	UQ	ng/L	P411545	
		EPTC	1.3	UQ	ng/L	P411545	
		Ethion	0.16	UQ	ng/L	P411545	
		Ethoprop	0.10	UQ	ng/L	P411545	
		Etridiazole**	0.16	UQJ	ng/L	P411545	MS, RPD
		Fenamiphos	0.52	UQ	ng/L	P411545	
		Fenbuconazole**	0.13	UQ	ng/L	P411545	
		Fipronil	0.26	UQ	ng/L	P411545	
		Fipronil Desulfinyl**	0.13	UQ	ng/L	P411545	
		Fipronil Sulfide	0.16	UQ	ng/L	P411545	
		Fipronil Sulfone	0.16	UQ	ng/L	P411545	
		Fluazifop-P-butyl**	0.10	UQ	ng/L	P411545	
		Fludioxonil**	0.13	UQ	ng/L	P411545	
		Flumioxazin**	1.8	UQ	ng/L	P411545	MS
		Flutolanil**	0.10	UQ	ng/L	P411545	
		Fluxapyroxad**	0.10	UQ	ng/L	P411545	
		Fonofos	0.21	UQ	ng/L	P411545	

Field ID: G1TLHR0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311867	EPA 8270E	Hexazinone	0.52	UQ	ng/L	P411545	
		Imazalil**	0.79	UQ	ng/L	P411545	
		Iprodione**	0.63	UQJ	ng/L	P411545	LCS
		Loratadine**	0.10	UQ	ng/L	P411545	
		Malathion	0.37	UQ	ng/L	P411545	
		Metalaxyl	0.79	UQ	ng/L	P411545	
		Metolachlor	1.2	IQ	ng/L	P411545	
		Metribuzin	2.6	UQ	ng/L	P411545	
		Mevinphos	1.1	UQ	ng/L	P411545	
		Molinate	0.31	UQ	ng/L	P411545	MS
		Myclobutanil**	0.26	UQ	ng/L	P411545	
		Naled**	1.6	UQ	ng/L	P411545	
		Napropamide**	0.42	UQ	ng/L	P411545	
		Norflurazon	0.52	UQ	ng/L	P411545	
		Oxadiazon	0.31	UQ	ng/L	P411545	
		Oxyfluorfen**	0.16	UQ	ng/L	P411545	
		Parathion Ethyl	0.26	UQ	ng/L	P411545	
		Parathion Methyl	0.58	UQ	ng/L	P411545	
		Pendimethalin	1.0	UQ	ng/L	P411545	
		Phenytol**	3.7	UQ	ng/L	P411545	
		Phorate	0.55	UQ	ng/L	P411545	
		Prodiamine**	0.18	UQ	ng/L	P411545	
		Prometon	0.94	UQ	ng/L	P411545	
		Prometryn	0.21	UQ	ng/L	P411545	
		Pronamide**	0.16	UQ	ng/L	P411545	
		Propanil**	0.13	UQ	ng/L	P411545	
		Propargite**	1.6	UQJ	ng/L	P411545	RPD
		Propiconazole**	0.52	UQ	ng/L	P411545	
		Pyraflufen Ethyl**	0.26	UQ	ng/L	P411545	
		Pyridaben**	0.47	UQ	ng/L	P411545	
		Pyriproxyfen**	0.13	UQ	ng/L	P411545	
		Simazine	0.52	UQ	ng/L	P411545	
		Stirophos**	0.13	UQ	ng/L	P411545	
		Sulfentrazone**	0.52	UQ	ng/L	P411545	MS
		Tebuconazole**	0.52	UQ	ng/L	P411545	MS
		Terbufos	0.10	UQ	ng/L	P411545	
		Terbuthylazine	0.45	UQ	ng/L	P411545	
		Thiobencarb**	0.63	UQ	ng/L	P411545	
		Triadimefon**	0.26	UQ	ng/L	P411545	
2311872	EPA 200.7 Rev. 4.4	Calcium	5.29		mg/L	P411036	
		Iron	1.88E+03		ug/L	P411036	
		Magnesium	1.54		mg/L	P411036	
		Potassium	0.76	I	mg/L	P411036	
		Sodium	3.2		mg/L	P411036	
		Strontium	15.3		ug/L	P411036	

Field ID: G1TLHR0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311872	EPA 200.7 Rev. 4.4	Tin	3.0	U	ug/L	P411036	
		Titanium	4.8		ug/L	P411036	
		Vanadium	2.0	U	ug/L	P411036	
		Zinc	5.0	U	ug/L	P411036	
	EPA 200.8 Rev. 5.4	Aluminum	342		ug/L	P411036	
		Antimony	0.054	I	ug/L	P411036	
		Arsenic	0.61		ug/L	P411036	
		Barium	14.5		ug/L	P411036	
		Beryllium	0.029	I	ug/L	P411036	
		Boron**	19.0		ug/L	P411036	
		Cadmium	0.020	U	ug/L	P411036	
		Chromium	0.65	I	ug/L	P411036	
		Cobalt	0.164		ug/L	P411036	
		Copper	0.70	I	ug/L	P411036	
		Lead	0.34	I	ug/L	P411036	
		Manganese	43.4		ug/L	P411036	
		Molybdenum	0.15	U	ug/L	P411036	
		Nickel	0.50	U	ug/L	P411036	
		Selenium	0.20	U	ug/L	P411036	
		Silver	0.010	U	ug/L	P411036	
		Thallium	0.10	U	ug/L	P411036	
	SM 2340B	Hardness	19.5		mg/L	P411036	

Ref. Method and Comment:

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

EPA 8270E: Sample expired for preparation due to need for re-extraction. Insufficient sample available to perform duplicate matrix spikes in re-extraction. MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Little River upstream HWY268

Collection Date/Time: 03/10/2022 11:55

Field ID: G1TLHR0158

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311862	EPA 8321B	2,4-D	0.0030	I	ug/L	411114	
		Acesulfame K	0.10	U	ug/L	P410969	
		2,4,5-T	0.0040	U	ug/L	411114	
		AMPA	0.10	U	ug/L	P410969	
		Sucralose	0.24		ug/L	P410969	
		Acetaminophen	0.010	I	ug/L	411114	
		Acetamiprid	0.0020	U	ug/L	411114	
		Endothall	0.25	U	ug/L	P410969	RPD
		Glufosinate	0.10	U	ug/L	P410969	
		Glyphosate	0.10	U	ug/L	P410969	
		Afidopyropen	0.0020	U	ug/L	411114	
		Bentazon	0.0089		ug/L	411114	
		Benzovindiflupyr	0.0020	U	ug/L	411114	
		Carbamazepine	8.7E-04	I	ug/L	411114	
		Clothianidin	0.0020	U	ug/L	411114	
		Dinotefuran	0.041		ug/L	411114	
		Diuron	0.0020	U	ug/L	411114	
		Fenuron	0.016	U	ug/L	411114	
		Fluridone	8.0E-04	U	ug/L	411114	
		Imazapyr	0.015	I	ug/L	411114	
		Hydrocodone	0.0020	U	ug/L	411114	
		Ibuprofen	0.020	U	ug/L	411114	
		Imidacloprid	0.0061	I	ug/L	411114	
		Linuron	0.0040	U	ug/L	411114	RPD
		Mandestrobin	0.0020	U	ug/L	411114	
		MCPP	0.0040	U	ug/L	411114	
		Naproxen	0.0080	U	ug/L	411114	
		Primidone	0.0040	U	ug/L	411114	
		Pyraclostrobin	0.0020	U	ug/L	411114	
		Silvex	0.0040	U	ug/L	411114	
		Thiamethoxam	0.0021	I	ug/L	411114	
		Tolfenpyrad	0.0020	U	ug/L	411114	
		Triclopyr	0.0040	U	ug/L	411114	
2311869	EPA 200.7 Rev. 4.4	Calcium	8.09		mg/L	P411036	
		Iron	2.16E+03		ug/L	P411036	
		Magnesium	2.96		mg/L	P411036	
		Potassium	1.4		mg/L	P411036	
		Sodium	5.0		mg/L	P411036	
		Strontium	25.6		ug/L	P411036	
		Tin	3.0	U	ug/L	P411036	
		Titanium	6.0		ug/L	P411036	
		Vanadium	3.4	I	ug/L	P411036	
		Zinc	5.0	U	ug/L	P411036	
	EPA 200.8 Rev. 5.4	Aluminum	415		ug/L	P411036	

Field ID: G1TLHR0158

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311869	EPA 200.8 Rev. 5.4	Antimony	0.050	U	ug/L	P411036	
		Arsenic	0.83		ug/L	P411036	
		Barium	21.5		ug/L	P411036	
		Beryllium	0.045		ug/L	P411036	
		Boron**	14.8		ug/L	P411036	
		Cadmium	0.020	U	ug/L	P411036	
		Chromium	0.67	I	ug/L	P411036	
		Cobalt	0.272		ug/L	P411036	
		Copper	0.77	I	ug/L	P411036	
		Lead	0.59		ug/L	P411036	
		Manganese	91.1		ug/L	P411036	
		Molybdenum	0.16	I	ug/L	P411036	
		Nickel	0.50	U	ug/L	P411036	
		Selenium	0.20	U	ug/L	P411036	
		Silver	0.010	U	ug/L	P411036	
		Thallium	0.10	U	ug/L	P411036	
	SM 2340B	Hardness	32.4		mg/L	P411036	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P410961

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P410963

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410964

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P411036

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P411036

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411237

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411239

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411370

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410995

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P411110

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P411399

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411228

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411146

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410956

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410935

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	0.10	U	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
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	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
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410935

Component	Result	Code	Units
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	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	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 8270E

Batch ID: P411545

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P411545

Component	Result	Code	Units
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	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	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P411545

Component	Result	Code	Units
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P411545

Component	Result	Code	Units
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P411545

Component	Result	Code	Units
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276
Batch ID: P410935

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B
Batch ID: 411114

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	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	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	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P410796

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P410796

Component	Result	Code	Units
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: P410969

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: SM 2320 B-2011
Batch ID: P411166

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

Reference Method: SM 2540 C-2011
Batch ID: P411396

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P411376

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P411168

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P411154

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: P410961

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	85 - 115

Reference Method: DEP SOP: NU-094-1
Batch ID: P410963

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.3		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410964

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.9		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P411036

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	109		P	85 - 115
Magnesium	111		P	85 - 115
Potassium	102		P	85 - 115
Sodium	101		P	85 - 115
Strontium	104		P	85 - 115
Tin	106		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	96.4		P	85 - 115
Zinc	109		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P411036

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.6		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	102		P	85 - 115
Barium	103		P	85 - 115
Beryllium	98.6		P	85 - 115
Boron	104		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	97.0		P	85 - 115
Cobalt	102		P	85 - 115
Copper	98.8		P	85 - 115
Lead	97.1		P	85 - 115
Manganese	98.1		P	85 - 115
Molybdenum	99.1		P	85 - 115
Nickel	100		P	85 - 115
Selenium	101		P	85 - 115
Silver	98.7		P	85 - 115
Thallium	99.6		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411237

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411239

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411370

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410995

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P411110

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P411399

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411228

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411146

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410956

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.4		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P410935

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	67.9		P	10 - 93.0
Alpha-BHC	95.9		P	75 - 106
Alpha-Chlordane	85.6		P	50 - 109
Beta-BHC	111		P	65 - 135
Beta-Cyfluthrin	91.4		P	23 - 167
Bifenthrin	79.6		P	11 - 123
Chlorothalonil	165		P	26 - 182
Cis-Nonachlor	77.0		P	40 - 111
Cypermethrin	98.7		P	25 - 155
Dacthal	98.5		P	73 - 112
DDD-p,p'	97.1		P	47 - 108
DDE-p,p'	81.4		P	48 - 107
DDT-p,p'	87.2		P	49 - 111
Delta-BHC	95.8		P	68 - 143
Deltamethrin	91.7		P	16 - 176
Dichlobenil	85.9		P	32 - 113
Dicofol	97.2		P	50 - 108
Dieldrin	84.9		P	56 - 110
Endosulfan I	86.7		P	60 - 105
Endosulfan II	88.7		P	50 - 120
Endosulfan Sulfate	84.6		P	55 - 121
Endrin	82.6		P	31 - 119
Endrin Aldehyde	71.2		P	36 - 116
Endrin Ketone	143		F	56 - 130
Esfenvalerate	98.6		P	10 - 179
Ethalfuralin	84.7		P	49 - 99.0
Fenpropathrin	99.9		P	35 - 119
Gamma-BHC	96.3		P	72 - 115
Gamma-Chlordane	91.4		P	45 - 107
Heptachlor	74.0		P	41 - 100
Heptachlor Epoxide	86.1		P	58 - 106
Hexachlorobenzene	67.2		P	39 - 100
Kepone	138		P	10 - 191
Lambda-Cyhalothrin	100		P	10 - 186
Methoprene	80.4		P	10 - 129
Methoxychlor	105		P	61 - 111
MGK-264	93.1		P	20 - 123
Mirex	72.0		P	10 - 182
Oxychlordane	84.0		P	39 - 110
Permethrin	91.0		P	26 - 152
Phenothrin	78.5		P	10 - 109
Piperonyl Butoxide	135		P	27 - 142
Prallethrin	69.1		P	14 - 109
Tau-Fluvalinate	80.5		P	16 - 134
Tetramethrin	114		P	10 - 125
Trans-Nonachlor	78.4		P	45 - 107
Triclosan Methyl	85.0		P	60 - 110
Trifluralin	83.3		P	49 - 98.0

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P411545

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	96.3	87.0	P/P	70 - 121
Alachlor	89.0	81.1	P/P	68 - 119
Ametryn	88.3	76.1	P/P	64 - 139
Atrazine	94.9	90.2	P/P	76 - 120
Atrazine Desethyl	66.2	70.2	P/P	44 - 126
Azinphos Methyl	67.5	78.9	P/P	43 - 192
Azoxystrobin	92.8	101	P/P	36 - 224
Bromacil	90.7	91.9	P/P	52 - 121
Butylate	40.0	32.7	P/P	28 - 91.0
Caffeine	101	120	P/P	50 - 134
Carbophenothion	104	107	P/P	56 - 129
Carfentrazone Ethyl	114	110	P/P	60 - 141
Chlorfenapyr	72.2	78.2	P/P	56 - 115
Chlorpyrifos Ethyl	82.0	81.9	P/P	60 - 118
Chlorpyrifos Methyl	90.6	91.8	P/P	68 - 119
Coumaphos	143	151	P/P	18 - 250
Cyanazine	106	104	P/P	61 - 250
Cyprodinil	82.5	82.9	P/P	55 - 145
Demeton	60.8	49.6	P/P	30 - 159
Diazinon	97.1	84.9	P/P	70 - 123
Difenoconazole	57.6	60.4	P/P	49 - 204
Dimethenamid	74.6	71.9	P/P	64 - 115
Dimethomorph	97.4	84.1	P/P	12 - 219
Disulfoton	79.8	67.5	P/P	44 - 125
Dithiopyr	84.9	83.8	P/P	64 - 115
EPTC	39.1	31.2	P/P	28 - 86.0
Ethion	84.7	86.4	P/P	33 - 125
Ethoprop	74.1	65.4	P/P	64 - 116
Etridiazole	53.0	37.4	P/P	34 - 91.0
Fenamiphos	96.6	96.0	P/P	12 - 127
Fenbuconazole	118	111	P/P	59 - 151
Fipronil	92.6	89.6	P/P	67 - 129
Fipronil Desulfinyl	86.1	81.2	P/P	65 - 127
Fipronil Sulfide	68.8	76.2	P/P	61 - 116
Fipronil Sulfone	73.0	76.9	P/P	55 - 117
Fluazifop-P-butyl	82.4	78.2	P/P	62 - 127
Fludioxonil	88.8	86.2	P/P	62 - 128
Flumioxazin	217	208	P/P	33 - 250
Flutolanil	87.9	81.7	P/P	56 - 127
Fluxapyroxad	109	111	P/P	45 - 128
Fonofos	78.1	77.7	P/P	62 - 111
Hexazinone	97.4	96.2	P/P	46 - 139
Imazalil	102	111	P/P	38 - 142
Iprodione	38.5	46.9	F/F	47 - 135
Loratadine	64.3	61.9	P/P	10 - 244
Malathion	108	111	P/P	61 - 139
Metalaxyl	79.4	74.8	P/P	10 - 119
Metolachlor	88.1	82.5	P/P	65 - 118
Metribuzin	100	92.5	P/P	51 - 250
Mevinphos	72.4	67.0	P/P	53 - 121
Molinate	61.0	46.2	P/P	42 - 96.0
Myclobutanil	88.8	87.2	P/P	55 - 128

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P411545

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naled	67.1	60.3	P/P	10 - 98.0
Napropamide	84.5	82.3	P/P	49 - 121
Norflurazon	99.9	95.1	P/P	61 - 126
Oxadiazon	74.2	72.4	P/P	59 - 116
Oxyfluorfen	108	92.0	P/P	64 - 137
Parathion Ethyl	93.5	88.4	P/P	70 - 112
Parathion Methyl	121	120	P/P	76 - 133
Pendimethalin	79.2	69.7	P/P	52 - 117
Phenytoin	112	83.6	P/P	10 - 199
Phorate	62.7	51.3	P/P	48 - 121
Prodiamine	109	91.4	P/P	26 - 142
Prometon	94.1	89.3	P/P	43 - 123
Prometryn	76.5	73.8	P/P	66 - 127
Pronamide	104	89.8	P/P	75 - 121
Propanil	92.8	89.3	P/P	45 - 150
Propargite	146	79.2	P/P	42 - 208
Propiconazole	101	92.6	P/P	60 - 125
Pyraflufen Ethyl	108	108	P/P	70 - 138
Pyridaben	129	119	P/P	35 - 245
Pyriproxyfen	41.2	47.2	P/P	30 - 149
Simazine	91.6	88.8	P/P	72 - 125
Stirophos	90.4	94.0	P/P	29 - 164
Sulfentrazone	111	84.9	P/P	21 - 139
Tebuconazole	114	102	P/P	10 - 115
Terbufos	90.5	82.7	P/P	60 - 123
Terbuthylazine	92.7	86.4	P/P	72 - 115
Thiobencarb	89.3	88.0	P/P	31 - 139
Triadimefon	84.1	78.1	P/P	65 - 116

Reference Method: EPA 8276

Batch ID: P410935

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	77.0		P	61 - 118
Toxaphene	69.0		P	51 - 122

Reference Method: EPA 8321B

Batch ID: 411114

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	83.4		P	40 - 150
2,4,5-T	50.8		P	40 - 150
Acetaminophen	96.9		P	30 - 150
Acetamiprid	80.4		P	40 - 150
Afidopyropen	54.2		P	40 - 150
Bentazon	92.7		P	30 - 150
Benzovindiflupyr	114		P	40 - 150
Carbamazepine	122		P	40 - 150
Clothianidin	112		P	40 - 150
Dinotefuran	106		P	40 - 150
Diuron	93.3		P	40 - 150
Fenuron	132		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: 411114

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluridone	91.9		P	40 - 150
Hydrocodone	111		P	40 - 150
Ibuprofen	46.0		P	40 - 150
Imazapyr	106		P	40 - 150
Imidacloprid	119		P	40 - 150
Linuron	90.7		P	40 - 150
Mandestrobin	92.9		P	40 - 150
MCPP	92.7		P	40 - 150
Naproxen	52.4		P	40 - 150
Primidone	144		P	40 - 150
Pyraclostrobin	86.6		P	40 - 150
Silvex	47.7		P	40 - 150
Thiamethoxam	108		P	40 - 150
Tolfenpyrad	40.9		P	30 - 150
Triclopyr	55.7		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P410796

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	98.8		P	40 - 150
Aldicarb	94.1		P	30 - 150
Aldicarb Sulfone	96.8		P	40 - 150
Aldicarb Sulfoxide	102		P	40 - 150
Carbaryl	83.6		P	40 - 150
Carbofuran	99.7		P	40 - 150
Methiocarb	92.8		P	40 - 150
Methomyl	93.4		P	40 - 150
Oxamyl	103		P	40 - 150
Propoxur	97.4		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P410969

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	92.3		P	40 - 150
AMPA	96.4		P	40 - 150
Endothall	86.8		P	40 - 150
Glufosinate	81.4		P	40 - 150
Glyphosate	89.2		P	40 - 150
Sucralose	86.4		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P411166

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.1		P	94 - 106

Reference Method: SM 4500 F-C-2011

Batch ID: P411168

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

Reference Method: SM 4500 F-C-2011
Batch ID: P411168

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.6		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P411154

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P411036

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311909	Calcium	108		P	80 - 120
2311909	Iron	107	110	P/P	80 - 120
2311909	Magnesium	109	110	P/P	80 - 120
2311909	Potassium	102	103	P/P	80 - 120
2311909	Sodium	103		P	80 - 120
2311909	Strontium	102	104	P/P	80 - 120
2311909	Tin	106	109	P/P	80 - 120
2311909	Titanium	99.2	102	P/P	80 - 120
2311909	Vanadium	97.1	99.0	P/P	80 - 120
2311909	Zinc	109	111	P/P	80 - 120
2312059	Calcium	108		P	80 - 120
2312059	Iron	108		P	80 - 120
2312059	Magnesium	108		P	80 - 120
2312059	Potassium	101		P	80 - 120
2312059	Sodium	104		P	80 - 120
2312059	Tin	105		P	80 - 120
2312059	Titanium	102		P	80 - 120
2312059	Vanadium	96.1		P	80 - 120
2312059	Zinc	106		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P411036

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311909	Aluminum	105	111	P/P	80 - 120
2311909	Antimony	103	102	P/P	80 - 120
2311909	Arsenic	103	103	P/P	80 - 120
2311909	Barium	105	105	P/P	80 - 120
2311909	Beryllium	99.9	99.3	P/P	80 - 120
2311909	Boron	107	107	P/P	80 - 120
2311909	Cadmium	103	105	P/P	80 - 120
2311909	Chromium	101	103	P/P	80 - 120
2311909	Cobalt	101	102	P/P	80 - 120
2311909	Copper	99.5	99.9	P/P	80 - 120
2311909	Lead	100	99.6	P/P	80 - 120
2311909	Manganese	104	97.9	P/P	80 - 120
2311909	Molybdenum	102	101	P/P	80 - 120
2311909	Nickel	101	102	P/P	80 - 120
2311909	Selenium	102	101	P/P	80 - 120
2311909	Silver	101	101	P/P	80 - 120
2311909	Thallium	106	104	P/P	80 - 120
2312059	Aluminum	99.5		P	80 - 120
2312059	Antimony	101		P	80 - 120
2312059	Arsenic	102		P	80 - 120
2312059	Barium	103		P	80 - 120
2312059	Beryllium	93.9		P	80 - 120
2312059	Boron	110		P	80 - 120
2312059	Cadmium	102		P	80 - 120
2312059	Chromium	98.4		P	80 - 120
2312059	Cobalt	100		P	80 - 120
2312059	Copper	97.2		P	80 - 120
2312059	Lead	98.1		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P411036

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2312059	Manganese	99.1		P	80 - 120
2312059	Molybdenum	102		P	80 - 120
2312059	Nickel	98.3		P	80 - 120
2312059	Selenium	87.3		P	80 - 120
2312059	Silver	101		P	80 - 120
2312059	Thallium	102		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P411237

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311708	Chloride	102		P	90 - 110
2311906	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P411239

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311906	Sulfate	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P411370

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2312997	Sulfate	99.9		P	90 - 110
2313020	Sulfate	99.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P410995

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311748	Ammonia-N	99.2	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P411110

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311907	Kjeldahl Nitrogen	98.0	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P411399

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311607	Kjeldahl Nitrogen	100	92.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P411228

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2312682	NO2NO3-N	97.5	97.0	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P411146

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311929	Total-P	98.6	98.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P410956

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311846	O-Phosphate-P	99.3	100	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P410935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311894	Aldrin	57.6	57.1	P/P	10 - 89.0
2311894	Alpha-BHC	88.2	88.6	P/P	71 - 105
2311894	Alpha-Chlordane	79.0	80.7	P/P	43 - 107
2311894	Beta-BHC	111	114	P/P	57 - 152
2311894	Beta-Cyfluthrin	75.8	76.7	P/P	29 - 186
2311894	Bifenthrin	66.1	74.6	P/P	19 - 119
2311894	Chlorothalonil	135	143	P/P	10 - 245
2311894	Cis-Nonachlor	68.8	70.8	P/P	36 - 110
2311894	Cypermethrin	80.9	82.4	P/P	24 - 169
2311894	Dacthal	90.5	94.1	P/P	62 - 115
2311894	DDD-p,p'	85.5	86.9	P/P	36 - 109
2311894	DDE-p,p'	73.0	74.8	P/P	30 - 114
2311894	DDT-p,p'	74.2	78.4	P/P	42 - 108
2311894	Delta-BHC	92.1	95.0	P/P	60 - 164
2311894	Deltamethrin	78.3	64.3	P/P	10 - 210
2311894	Dichlobenil	79.1	67.0	P/P	23 - 108
2311894	Dicofol	84.6	88.1	P/P	44 - 109
2311894	Dieldrin	78.1	81.1	P/P	37 - 119
2311894	Endosulfan I	73.2	76.2	P/P	52 - 105
2311894	Endosulfan II	74.9	77.3	P/P	35 - 127
2311894	Endosulfan Sulfate	78.3	77.5	P/P	39 - 130
2311894	Endrin	72.4	76.8	P/P	30 - 116
2311894	Endrin Aldehyde	69.1	68.0	P/P	20 - 110
2311894	Endrin Ketone	104	122	P/P	48 - 134
2311894	Esfenvalerate	82.2	82.9	P/P	10 - 199
2311894	Ethalfuralin	69.4	73.8	P/P	48 - 95.0
2311894	Fenpropathrin	84.5	91.1	P/P	37 - 121
2311894	Gamma-BHC	85.9	89.6	P/P	61 - 126
2311894	Gamma-Chlordane	87.1	90.5	P/P	39 - 105
2311894	Heptachlor	62.1	62.8	P/P	38 - 96.0
2311894	Heptachlor Epoxide	74.5	75.8	P/P	42 - 114
2311894	Hexachlorobenzene	59.9	58.1	P/P	39 - 93.0
2311894	Kepone	121	83.2	P/P	10 - 215
2311894	Lambda-Cyhalothrin	86.1	83.2	P/P	10 - 204
2311894	Methoprene	63.7	76.5	P/P	17 - 108
2311894	Methoxychlor	92.0	102	P/P	56 - 115
2311894	MGK-264	85.9	89.8	P/P	35 - 120
2311894	Mirex	63.7	67.5	P/P	10 - 178
2311894	Oxychlordane	72.4	76.9	P/P	47 - 91.0
2311894	Permethrin	76.3	81.6	P/P	27 - 170

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P410935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311894	Phenothrin	69.9	75.6	P/P	10 - 133
2311894	Piperonyl Butoxide	123	129	P/P	23 - 150
2311894	Prallethrin	67.6	69.1	P/P	21 - 113
2311894	Tau-Fluvalinate	70.6	70.9	P/P	16 - 158
2311894	Tetramethrin	126	129	P/P	22 - 132
2311894	Trans-Nonachlor	75.3	79.2	P/P	43 - 102
2311894	Triclosan Methyl	74.1	76.5	P/P	49 - 109
2311894	Trifluralin	71.0	75.6	P/P	48 - 93.0

Reference Method: EPA 8270E

Batch ID: P411545

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311773	Acetochlor	107		P	65 - 124
2311773	Alachlor	101		P	61 - 121
2311773	Ametryn	107		P	52 - 216
2311773	Atrazine Desethyl	76.7		P	15 - 160
2311773	Azinphos Methyl	94.9		P	40 - 292
2311773	Azoxystrobin	103		P	12 - 242
2311773	Butylate	20.3		P	14 - 94.0
2311773	Caffeine	40.6		P	10 - 226
2311773	Carbophenothion	123		F	49 - 122
2311773	Carfentrazone Ethyl	144		F	53 - 138
2311773	Chlorfenapyr	93.1		P	50 - 150
2311773	Chlorpyrifos Ethyl	97.6		P	52 - 122
2311773	Chlorpyrifos Methyl	103		P	66 - 117
2311773	Coumaphos	174		P	50 - 220
2311773	Cyanazine	136		P	43 - 245
2311773	Cyprodinil	99.3		P	50 - 150
2311773	Demeton	63.0		P	43 - 188
2311773	Diazinon	115		P	69 - 131
2311773	Difenoconazole	76.8		P	34 - 231
2311773	Dimethenamid	86.7		P	55 - 118
2311773	Dimethomorph	122		P	50 - 150
2311773	Disulfoton	87.9		P	38 - 141
2311773	Dithiopyr	106		P	42 - 116
2311773	EPTC	18.6		P	18 - 85.0
2311773	Ethion	104		P	10 - 131
2311773	Ethoprop	79.3		P	65 - 129
2311773	Etridiazole	28.1		F	50 - 150
2311773	Fenamiphos	109		P	31 - 137
2311773	Fenbuconazole	151		P	57 - 160
2311773	Fipronil	115		P	62 - 132
2311773	Fipronil Desulfanyl	103		P	57 - 131
2311773	Fipronil Sulfide	91.6		P	15 - 138
2311773	Fipronil Sulfone	94.3		P	21 - 134
2311773	Fluazifop-P-butyl	106		P	54 - 133
2311773	Fludioxonil	102		P	58 - 127
2311773	Flumioxazin	316		F	33 - 300
2311773	Flutolanil	97.7		P	42 - 130
2311773	Fonofos	78.0		P	58 - 119
2311773	Hexazinone	111		P	68 - 172

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P411545

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311773	Imazalil	146		P	48 - 283
2311773	Iprodione	57.3		P	38 - 140
2311773	Loratadine	79.6		P	50 - 150
2311773	Malathion	136		P	40 - 137
2311773	Metalaxyl	91.0		P	21 - 129
2311773	Metolachlor	111		P	55 - 122
2311773	Metribuzin	127		P	38 - 187
2311773	Mevinphos	71.4		P	54 - 134
2311773	Molinate	37.5		F	41 - 97.0
2311773	Myclobutanil	107		P	56 - 125
2311773	Naled	69.9		P	10 - 108
2311773	Napropamide	97.6		P	50 - 150
2311773	Norflurazon	120		P	32 - 122
2311773	Oxadiazon	85.6		P	40 - 119
2311773	Oxyfluorfen	129		P	61 - 153
2311773	Parathion Ethyl	105		P	59 - 130
2311773	Parathion Methyl	135		P	65 - 155
2311773	Pendimethalin	89.0		P	49 - 138
2311773	Phenytoin	146		P	50 - 200
2311773	Phorate	68.7		P	54 - 161
2311773	Prodiamine	154		P	33 - 161
2311773	Prometon	128		P	48 - 140
2311773	Prometryn	92.0		P	55 - 134
2311773	Pronamide	132		P	66 - 137
2311773	Propanil	103		P	50 - 150
2311773	Propargite	192		P	50 - 200
2311773	Propiconazole	131		P	36 - 150
2311773	Pyraflufen Ethyl	141		P	50 - 150
2311773	Pyridaben	153		P	50 - 200
2311773	Pyriproxyfen	58.8		P	10 - 165
2311773	Simazine	105		P	57 - 145
2311773	Stirophos	111		P	50 - 150
2311773	Sulfentrazone	153		F	34 - 140
2311773	Tebuconazole	153		F	10 - 127
2311773	Terbufos	99.3		P	59 - 138
2311773	Terbuthylazine	102		P	68 - 119
2311773	Thiobencarb	108		P	50 - 150
2311773	Triadimefon	98.9		P	50 - 150

Reference Method: EPA 8276

Batch ID: P410935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311910	Chlordane	106	88.8	P/P	55 - 128
2311910	Toxaphene	81.9	83.9	P/P	57 - 211

Reference Method: EPA 8321B

Batch ID: 411114

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311732	2,4-D	65.3	85.0	P/P	40 - 150
2311732	2,4,5-T	47.7	51.2	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: 411114

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311732	Acetaminophen	108	101	P/P	30 - 150
2311732	Acetamiprid	82.6	83.5	P/P	40 - 150
2311732	Afidopyropen	61.9	74.2	P/P	40 - 150
2311732	Bentazon	91.3	83.3	P/P	30 - 150
2311732	Benzovindiflupyr	108	85.8	P/P	40 - 150
2311732	Carbamazepine	121	92.5	P/P	40 - 150
2311732	Clothianidin	99.3	97.7	P/P	40 - 150
2311732	Dinotefuran	123	119	P/P	40 - 150
2311732	Diuron	71.0	86.7	P/P	40 - 150
2311732	Fenuron	119	84.3	P/P	40 - 150
2311732	Fluridone	89.8	87.9	P/P	40 - 150
2311732	Hydrocodone	98.5	98.9	P/P	40 - 150
2311732	Ibuprofen	45.1	45.8	P/P	40 - 150
2311732	Imazapyr	96.1	120	P/P	40 - 150
2311732	Imidacloprid	147	142	P/P	40 - 150
2311732	Linuron	66.2	118	P/P	40 - 150
2311732	Mandestrobin	100	94.4	P/P	40 - 150
2311732	MCPP	83.1	100	P/P	40 - 150
2311732	Naproxen	61.0	55.7	P/P	40 - 150
2311732	Primidone	135	128	P/P	40 - 150
2311732	Pyraclostrobin	85.2	93.9	P/P	40 - 150
2311732	Silvex	46.9	54.0	P/P	40 - 150
2311732	Thiamethoxam	135	137	P/P	40 - 150
2311732	Tolfenpyrad	36.8	48.3	P/P	30 - 150
2311732	Triclopyr	52.9	55.7	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P410796

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310687	3-Hydroxycarbofuran	111	107	P/P	40 - 150
2310687	Aldicarb	95.8	98.6	P/P	30 - 150
2310687	Aldicarb Sulfone	130	116	P/P	40 - 150
2310687	Aldicarb Sulfoxide	56.9	63.2	P/P	40 - 150
2310687	Carbaryl	81.5	82.2	P/P	40 - 150
2310687	Carbofuran	83.3	74.5	P/P	40 - 150
2310687	Methiocarb	83.2	78.8	P/P	40 - 150
2310687	Methomyl	101	95.5	P/P	40 - 150
2310687	Oxamyl	105	109	P/P	40 - 150
2310687	Propoxur	96.2	95.6	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P410969

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311692	Acesulfame K	103	100	P/P	40 - 150
2311692	AMPA	89.9	90.2	P/P	40 - 150
2311692	Endothall	73.4	105	P/P	40 - 150
2311692	Glufosinate	77.8	80.8	P/P	40 - 150
2311692	Glyphosate	79.9	81.9	P/P	40 - 150
2311692	Sucralose	83.0	88.0	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P411168

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311963	Fluoride	101	101	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P411154

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2311971	Organic Carbon	89.8	91.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P410961

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311844	Color (true)	0.717	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P410963

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311847	Color (true)	0.558	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410964

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311754	Turbidity	1.44	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P411036

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311909	Calcium	1.03	Spike	P	0 - 20
2311909	Iron	2.29	Spike	P	0 - 20
2311909	Magnesium	0.305	Spike	P	0 - 20
2311909	Potassium	0.325	Spike	P	0 - 20
2311909	Sodium	0.605	Spike	P	0 - 20
2311909	Strontium	1.95	Spike	P	0 - 20
2311909	Tin	2.33	Spike	P	0 - 20
2311909	Titanium	2.67	Spike	P	0 - 20
2311909	Vanadium	1.90	Spike	P	0 - 20
2311909	Zinc	1.19	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P411036

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311909	Aluminum	4.97	Spike	P	0 - 20
2311909	Antimony	0.312	Spike	P	0 - 20
2311909	Arsenic	0.277	Spike	P	0 - 20
2311909	Barium	0.267	Spike	P	0 - 20
2311909	Beryllium	0.524	Spike	P	0 - 20
2311909	Boron	0.186	Spike	P	0 - 20
2311909	Cadmium	1.84	Spike	P	0 - 20
2311909	Chromium	1.95	Spike	P	0 - 20
2311909	Cobalt	0.915	Spike	P	0 - 20
2311909	Copper	0.317	Spike	P	0 - 20
2311909	Lead	0.608	Spike	P	0 - 20
2311909	Manganese	2.50	Spike	P	0 - 20
2311909	Molybdenum	0.146	Spike	P	0 - 20
2311909	Nickel	0.658	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P411036

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311909	Selenium	1.87	Spike	P	0 - 20
2311909	Silver	0.283	Spike	P	0 - 20
2311909	Thallium	1.03	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P411237

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311708	Chloride	0.145	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P411239

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311708	Sulfate	0.503	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P411370

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2312997	Sulfate	0.145	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P410995

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311748	Ammonia-N	4.50	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P411110

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311907	Kjeldahl Nitrogen	0.585	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P411399

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311607	Kjeldahl Nitrogen	5.53	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P411228

Replicated

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P411228

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2312682	NO2NO3-N	0.282	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P411146

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311929	Total-P	0.101	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P410956

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311846	O-Phosphate-P	0.842	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P410935

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311894	Aldrin	0.872	Spike	P	0 - 37
2311894	Alpha-BHC	0.461	Spike	P	0 - 16
2311894	Alpha-Chlordane	2.19	Spike	P	0 - 28
2311894	Beta-BHC	2.97	Spike	P	0 - 32
2311894	Beta-Cyfluthrin	1.11	Spike	P	0 - 41
2311894	Bifenthrin	12.0	Spike	P	0 - 36
2311894	Chlorothalonil	5.19	Spike	P	0 - 54
2311894	Cis-Nonachlor	2.90	Spike	P	0 - 33
2311894	Cypermethrin	1.82	Spike	P	0 - 38
2311894	Dacthal	3.94	Spike	P	0 - 23
2311894	DDD-p,p'	1.65	Spike	P	0 - 35
2311894	DDE-p,p'	2.41	Spike	P	0 - 27
2311894	DDT-p,p'	5.56	Spike	P	0 - 31
2311894	Delta-BHC	3.06	Spike	P	0 - 30
2311894	Deltamethrin	19.6	Spike	P	0 - 76
2311894	Dichlobenil	16.5	Spike	P	0 - 33
2311894	Dicofol	4.00	Spike	P	0 - 24
2311894	Dieldrin	3.85	Spike	P	0 - 35
2311894	Endosulfan I	3.94	Spike	P	0 - 25
2311894	Endosulfan II	3.10	Spike	P	0 - 31
2311894	Endosulfan Sulfate	0.972	Spike	P	0 - 38
2311894	Endrin	5.94	Spike	P	0 - 53
2311894	Endrin Aldehyde	1.62	Spike	P	0 - 81
2311894	Endrin Ketone	15.3	Spike	P	0 - 33
2311894	Esfenvalerate	0.780	Spike	P	0 - 46
2311894	Ethalfuralin	6.11	Spike	P	0 - 22
2311894	Fenpropathrin	7.51	Spike	P	0 - 29
2311894	Gamma-BHC	4.17	Spike	P	0 - 17
2311894	Gamma-Chlordane	3.87	Spike	P	0 - 28
2311894	Heptachlor	1.18	Spike	P	0 - 28

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P410935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311894	Heptachlor Epoxide	1.57	Spike	P	0 - 23
2311894	Hexachlorobenzene	3.05	Spike	P	0 - 22
2311894	Kepone	36.7	Spike	P	0 - 61
2311894	Lambda-Cyhalothrin	3.49	Spike	P	0 - 52
2311894	Methoprene	18.2	Spike	P	0 - 38
2311894	Methoxychlor	9.79	Spike	P	0 - 29
2311894	MGK-264	4.33	Spike	P	0 - 41
2311894	Mirex	5.86	Spike	P	0 - 39
2311894	Oxychlordane	6.12	Spike	P	0 - 33
2311894	Permethrin	6.68	Spike	P	0 - 39
2311894	Phenothrin	7.89	Spike	P	0 - 52
2311894	Piperonyl Butoxide	5.24	Spike	P	0 - 91
2311894	Prallethrin	2.29	Spike	P	0 - 34
2311894	Tau-Fluvalinate	0.422	Spike	P	0 - 41
2311894	Tetramethrin	2.28	Spike	P	0 - 43
2311894	Trans-Nonachlor	5.01	Spike	P	0 - 31
2311894	Triclosan Methyl	3.16	Spike	P	0 - 24
2311894	Trifluralin	6.33	Spike	P	0 - 23

Reference Method: EPA 8270E

Batch ID: P411545

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Acetochlor	10.1	LCS	P	0 - 24
LFB	Alachlor	9.22	LCS	P	0 - 26
LFB	Ametryn	14.8	LCS	P	0 - 25
LFB	Atrazine	5.15	LCS	P	0 - 29
LFB	Atrazine Desethyl	5.81	LCS	P	0 - 62
LFB	Azinphos Methyl	15.6	LCS	P	0 - 76
LFB	Azoxystrobin	8.38	LCS	P	0 - 47
LFB	Bromacil	1.26	LCS	P	0 - 39
LFB	Butylate	20.0	LCS	P	0 - 35
LFB	Caffeine	17.5	LCS	P	0 - 27
LFB	Carbophenothion	2.54	LCS	P	0 - 28
LFB	Carfentrazone Ethyl	3.88	LCS	P	0 - 21
LFB	Chlorfenapyr	7.93	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	0.00991	LCS	P	0 - 23
LFB	Chlorpyrifos Methyl	1.35	LCS	P	0 - 30
LFB	Coumaphos	5.32	LCS	P	0 - 30
LFB	Cyanazine	1.51	LCS	P	0 - 77
LFB	Cyprodinil	0.509	LCS	P	0 - 30
LFB	Demeton	20.2	LCS	P	0 - 48
LFB	Diazinon	13.4	LCS	P	0 - 25
LFB	Difenoconazole	4.89	LCS	P	0 - 37
LFB	Dimethenamid	3.74	LCS	P	0 - 21
LFB	Dimethomorph	14.6	LCS	P	0 - 30
LFB	Disulfoton	16.7	LCS	P	0 - 51
LFB	Dithiopyr	1.29	LCS	P	0 - 21
LFB	EPTC	22.7	LCS	P	0 - 41
LFB	Ethion	1.98	LCS	P	0 - 63

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P411545

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Ethoprop	12.5	LCS	P	0 - 38
LFB	Etridiazole	34.6	LCS	F	0 - 30
LFB	Fenamiphos	0.541	LCS	P	0 - 91
LFB	Fenbuconazole	6.15	LCS	P	0 - 36
LFB	Fipronil	3.27	LCS	P	0 - 32
LFB	Fipronil Desulfinyl	5.86	LCS	P	0 - 23
LFB	Fipronil Sulfide	10.3	LCS	P	0 - 31
LFB	Fipronil Sulfone	5.11	LCS	P	0 - 32
LFB	Fluazifop-P-butyl	5.24	LCS	P	0 - 23
LFB	Fludioxonil	3.01	LCS	P	0 - 23
LFB	Flumioxazin	4.43	LCS	P	0 - 39
LFB	Flutolanil	7.36	LCS	P	0 - 27
LFB	Fluxapyroxad	1.83	LCS	P	0 - 38
LFB	Fonofos	0.587	LCS	P	0 - 28
LFB	Hexazinone	1.27	LCS	P	0 - 63
LFB	Imazalil	8.17	LCS	P	0 - 58
LFB	Iprodione	19.7	LCS	P	0 - 42
LFB	Loratadine	3.88	LCS	P	0 - 30
LFB	Malathion	2.30	LCS	P	0 - 23
LFB	Metalaxyl	6.08	LCS	P	0 - 100
LFB	Metolachlor	6.56	LCS	P	0 - 27
LFB	Metribuzin	8.02	LCS	P	0 - 79
LFB	Mevinphos	7.71	LCS	P	0 - 58
LFB	Molinate	27.6	LCS	P	0 - 42
LFB	Myclobutanil	1.77	LCS	P	0 - 27
LFB	Naled	10.8	LCS	P	0 - 32
LFB	Napropamide	2.62	LCS	P	0 - 30
LFB	Norflurazon	5.00	LCS	P	0 - 25
LFB	Oxadiazon	2.56	LCS	P	0 - 30
LFB	Oxyfluorfen	16.1	LCS	P	0 - 22
LFB	Parathion Ethyl	5.57	LCS	P	0 - 32
LFB	Parathion Methyl	0.780	LCS	P	0 - 30
LFB	Pendimethalin	12.7	LCS	P	0 - 39
LFB	Phenytol	29.0	LCS	P	0 - 30
LFB	Phorate	20.0	LCS	P	0 - 41
LFB	Prodiamine	17.2	LCS	P	0 - 70
LFB	Prometon	5.22	LCS	P	0 - 47
LFB	Prometryn	3.69	LCS	P	0 - 30
LFB	Pronamide	14.4	LCS	P	0 - 25
LFB	Propanil	3.83	LCS	P	0 - 30
LFB	Propargite	59.0	LCS	F	0 - 30
LFB	Propiconazole	8.27	LCS	P	0 - 25
LFB	Pyraflufen Ethyl	0.0592	LCS	P	0 - 30
LFB	Pyridaben	8.15	LCS	P	0 - 30
LFB	Pyriproxyfen	13.6	LCS	P	0 - 53
LFB	Simazine	3.09	LCS	P	0 - 25
LFB	Stirophos	3.90	LCS	P	0 - 30
LFB	Sulfentrazone	26.7	LCS	P	0 - 45
LFB	Tebuconazole	11.2	LCS	P	0 - 51
LFB	Terbufos	9.07	LCS	P	0 - 36
LFB	Terbutylazine	7.07	LCS	P	0 - 24

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P411545

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Thiobencarb	1.47	LCS	P	0 - 30
LFB	Triadimefon	7.44	LCS	P	0 - 30

Reference Method: EPA 8276

Batch ID: P410935

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311910	Chlordane	18.0	Spike	P	0 - 25
2311910	Toxaphene	2.35	Spike	P	0 - 24

Reference Method: EPA 8321B

Batch ID: 411114

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311732	2,4-D	26.2	Spike	P	0 - 30
2311732	2,4,5-T	6.99	Spike	P	0 - 30
2311732	Acetaminophen	6.63	Spike	P	0 - 30
2311732	Acetamiprid	1.07	Spike	P	0 - 30
2311732	Afidopyropen	18.0	Spike	P	0 - 30
2311732	Bentazon	9.17	Spike	P	0 - 30
2311732	Benzovindiflupyr	22.6	Spike	P	0 - 30
2311732	Carbamazepine	26.9	Spike	P	0 - 30
2311732	Clothianidin	1.59	Spike	P	0 - 30
2311732	Dinotefuran	2.99	Spike	P	0 - 30
2311732	Diuron	19.9	Spike	P	0 - 30
2311732	Fenuron	27.6	Spike	P	0 - 30
2311732	Fluridone	2.17	Spike	P	0 - 30
2311732	Hydrocodone	0.343	Spike	P	0 - 30
2311732	Ibuprofen	1.52	Spike	P	0 - 30
2311732	Imazapyr	22.1	Spike	P	0 - 30
2311732	Imidacloprid	3.20	Spike	P	0 - 30
2311732	Linuron	56.2	Spike	F	0 - 30
2311732	Mandestrobin	6.02	Spike	P	0 - 30
2311732	MCP	18.6	Spike	P	0 - 30
2311732	Naproxen	9.05	Spike	P	0 - 30
2311732	Primidone	5.23	Spike	P	0 - 30
2311732	Pyraclostrobin	9.77	Spike	P	0 - 30
2311732	Silvex	14.0	Spike	P	0 - 30
2311732	Thiamethoxam	1.34	Spike	P	0 - 30
2311732	Tolfenpyrad	26.9	Spike	P	0 - 30
2311732	Triclopyr	5.14	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P410796

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310687	3-Hydroxycarbofuran	3.31	Spike	P	0 - 30
2310687	Aldicarb	2.90	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P410796

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310687	Aldicarb Sulfone	11.2	Spike	P	0 - 30
2310687	Aldicarb Sulfoxide	10.5	Spike	P	0 - 30
2310687	Carbaryl	0.946	Spike	P	0 - 30
2310687	Carbofuran	11.3	Spike	P	0 - 30
2310687	Methiocarb	5.31	Spike	P	0 - 30
2310687	Methomyl	5.21	Spike	P	0 - 30
2310687	Oxamyl	4.03	Spike	P	0 - 30
2310687	Propoxur	0.604	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P410969

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311692	Acesulfame K	2.94	Spike	P	0 - 30
2311692	AMPA	0.353	Spike	P	0 - 30
2311692	Endothall	35.8	Spike	F	0 - 30
2311692	Glufosinate	3.67	Spike	P	0 - 30
2311692	Glyphosate	2.56	Spike	P	0 - 30
2311692	Sucralose	5.67	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P411166

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311963	Total Alkalinity	0.661	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011

Batch ID: P411396

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2312000	TDS	5.97	Sample	P	0 - 10

Reference Method: SM 2540 D-2011

Batch ID: P411376

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2312000	TSS	6.90	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011

Batch ID: P411168

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311963	Fluoride	0.0	Spike	P	0 - 2.1

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P411154

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2311971	Organic Carbon	0.802	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2311861

Field Sample ID: G1TLHR0157

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	95.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	97.8	P	30 - 160
EPA 8321B	Diuron-d6	72.5	P	30 - 160
EPA 8321B	Endothall-d6	82.4	P	30 - 160
EPA 8321B	Endothall-d6	82.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	72.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	72.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.6	P	30 - 160
EPA 8321B	Primidone-d5	103	P	30 - 160
EPA 8321B	Sucralose-d6	88.1	P	30 - 160
EPA 8321B	Sucralose-d6	88.1	P	30 - 160

Lab Sample ID: 2311862

Field Sample ID: G1TLHR0158

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	94.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.3	P	30 - 160
EPA 8321B	Diuron-d6	77.1	P	30 - 160
EPA 8321B	Endothall-d6	73.6	P	30 - 160
EPA 8321B	Endothall-d6	73.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	70.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	70.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	78.2	P	30 - 160
EPA 8321B	Primidone-d5	83.0	P	30 - 160
EPA 8321B	Sucralose-d6	95.5	P	30 - 160
EPA 8321B	Sucralose-d6	95.5	P	30 - 160

Lab Sample ID: 2311863

Field Sample ID: G1TLHR0161

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	98.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	90.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	93.6	P	30 - 160
EPA 8321B	Diuron-d6	62.6	P	30 - 160
EPA 8321B	Endothall-d6	91.8	P	30 - 160
EPA 8321B	Endothall-d6	91.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	74.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	74.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.0	P	30 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Sucralose-d6	88.6	P	30 - 160
EPA 8321B	Sucralose-d6	88.6	P	30 - 160

Lab Sample ID: 2311864

Field Sample ID: G1TLHR0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	92.8	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2311865
Field Sample ID: G1TLHR0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	96.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	105	P	30 - 160
EPA 8321B	Carbamazepine-d10	96.2	P	30 - 160
EPA 8321B	Diuron-d6	84.9	P	30 - 160
EPA 8321B	Endothall-d6	107	P	30 - 160
EPA 8321B	Endothall-d6	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	71.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	71.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.7	P	30 - 160
EPA 8321B	Primidone-d5	82.7	P	30 - 160
EPA 8321B	Sucralose-d6	91.0	P	30 - 160
EPA 8321B	Sucralose-d6	91.0	P	30 - 160

Lab Sample ID: 2311866
Field Sample ID: G1TLHR0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.4	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	69.8	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	73.9	P	30 - 97.0
EPA 8276	PCNB	74.1	P	45 - 119

Lab Sample ID: 2311867
Field Sample ID: G1TLHR0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	78.9	P	20 - 200
EPA 8270E	Simazine-d10	130	P	71 - 140
EPA 8270E	Terbufos-d10	106	P	62 - 131

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110866

Included Lab Sample IDs: 2311846, 2311849

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

Reference Method: DEP SOP: NU-094-1

Run ID: A110867

Included Lab Sample IDs: 2311844, 2311847

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	85 - 115
Color (true)	102	100	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110868

Included Lab Sample IDs: 2311844, 2311847

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110884

Included Lab Sample IDs: 2311845, 2311848

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.8	97.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A110903

Included Lab Sample IDs: 2311861, 2311862, 2311863, 2311865

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	93.5	90.0	P/P	60 - 160
Glufosinate	83.8	85.1	P/P	60 - 160
Glyphosate	87.4	92.5	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110924

Included Lab Sample IDs: 2311868, 2311869, 2311870, 2311871, 2311872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	104	105	P/P	90 - 110
Antimony	101	100	P/P	90 - 110
Arsenic	103	102	P/P	90 - 110
Barium	104	103	P/P	90 - 110
Beryllium	99.6	98.7	P/P	90 - 110
Boron	107	108	P/P	90 - 110
Cadmium	104	103	P/P	90 - 110
Chromium	103	102	P/P	90 - 110
Cobalt	104	102	P/P	90 - 110
Copper	103	102	P/P	90 - 110
Lead	101	101	P/P	90 - 110
Manganese	104	101	P/P	90 - 110
Molybdenum	104	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110924

Included Lab Sample IDs: 2311868, 2311869, 2311870, 2311871, 2311872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Nickel	104	102	P/P	90 - 110
Selenium	104	103	P/P	90 - 110
Silver	101	99.5	P/P	90 - 110
Thallium	105	105	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110937

Included Lab Sample IDs: 2311868, 2311869, 2311870, 2311871, 2311872

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	105	106	P/P	90 - 110
Iron	106	107	P/P	90 - 110
Magnesium	106	107	P/P	90 - 110
Potassium	103	104	P/P	90 - 110
Sodium	101	102	P/P	90 - 110
Strontium	98.9	99.2	P/P	90 - 110
Tin	101	101	P/P	90 - 110
Titanium	98.4	98.3	P/P	90 - 110
Vanadium	98.1	98.0	P/P	90 - 110
Zinc	107	106	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A110939

Included Lab Sample IDs: 2311861, 2311862, 2311863, 2311865

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	88.8	92.8	P/P	60 - 160
Endothall	111	80.8	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A110958

Included Lab Sample IDs: 2311845, 2311848

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	95.5	P/P	90 - 110
Organic Carbon	96.7	95.2	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A110961

Included Lab Sample IDs: 2311844, 2311847

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.9	95.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110961

Included Lab Sample IDs: 2311844, 2311847

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A110962

Included Lab Sample IDs: 2311861, 2311862, 2311863, 2311865

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	101	89.4	P/P	60 - 160

Reference Method: EPA 8276

Run ID: A110982

Included Lab Sample IDs: 2311866

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.0		P	80 - 120
Toxaphene	95.8		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110993

Included Lab Sample IDs: 2311845, 2311848

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	99.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110994

Included Lab Sample IDs: 2311844

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

Reference Method: EPA 8321B

Run ID: A111022

Included Lab Sample IDs: 2311864

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	110	107	P/P	60 - 150
Aldicarb	104	88.7	P/P	60 - 150
Aldicarb Sulfone	105	103	P/P	50 - 150
Aldicarb Sulfoxide	101	110	P/P	50 - 150
Carbaryl	111	113	P/P	60 - 150
Carbofuran	107	111	P/P	50 - 150
Methiocarb	105	135	P/P	50 - 150
Methomyl	106	99.3	P/P	50 - 150
Oxamyl	101	105	P/P	50 - 150
Propoxur	122	120	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A111025

Included Lab Sample IDs: 2311861, 2311862, 2311863, 2311865

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	95.3	99.5	P/P	50 - 150
2,4,5-T	107	92.8	P/P	50 - 150
Acetaminophen	106	110	P/P	60 - 160
Acetamiprid	107	106	P/P	50 - 150
Afidopyropen	106	113	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A111025

Included Lab Sample IDs: 2311861, 2311862, 2311863, 2311865

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	112	126	P/P	50 - 160
Benzovindiflupyr	110	103	P/P	50 - 150
Carbamazepine	105	104	P/P	60 - 150
Clothianidin	112	110	P/P	60 - 150
Dinotefuran	98.1	108	P/P	50 - 150
Diuron	80.5	93.9	P/P	60 - 160
Fenuron	99.1	101	P/P	60 - 150
Fluridone	109	108	P/P	60 - 160
Hydrocodone	114	107	P/P	60 - 150
Ibuprofen	86.0	80.7	P/P	50 - 160
Imazapyr	110	77.0	P/P	50 - 150
Imidacloprid	119	97.6	P/P	60 - 150
Linuron	86.5	115	P/P	60 - 150
Mandestrobin	100	106	P/P	50 - 150
MCPP	104	93.7	P/P	50 - 150
Naproxen	80.1	84.1	P/P	50 - 160
Primidone	81.1	78.5	P/P	60 - 150
Pyraclostrobin	118	115	P/P	60 - 150
Silvex	107	117	P/P	50 - 150
Thiamethoxam	115	115	P/P	50 - 150
Tolfenpyrad	70.4	93.8	P/P	60 - 150
Triclopyr	90.8	93.3	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A111027

Included Lab Sample IDs: 2311845, 2311848

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	98.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A111058

Included Lab Sample IDs: 2311866

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.4		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	99.6		P	80 - 120
Beta-BHC	95.0		P	80 - 120
Beta-Cyfluthrin	98.8		P	80 - 120
Bifenthrin	102		P	80 - 120
Chlorothalonil	92.8		P	80 - 120
Cis-Nonachlor	102		P	80 - 120
Cypermethrin	88.0		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	99.3		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	92.1		P	80 - 120
Deltamethrin	95.1		P	80 - 120
Dichlobenil	91.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A111058
Included Lab Sample IDs: 2311866

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dicofol	99.7		P	80 - 120
Dieldrin	99.5		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	100		P	80 - 120
Endosulfan Sulfate	95.4		P	80 - 120
Endrin	100		P	80 - 120
Endrin Aldehyde	93.6		P	80 - 120
Endrin Ketone	110		P	80 - 120
Esfenvalerate	97.1		P	80 - 120
Ethalfuralin	95.9		P	80 - 120
Fenpropathrin	102		P	80 - 120
Gamma-BHC	98.4		P	80 - 120
Gamma-Chlordane	98.5		P	80 - 120
Heptachlor	99.4		P	80 - 120
Heptachlor Epoxide	97.4		P	80 - 120
Hexachlorobenzene	98.4		P	80 - 120
Kepone	95.6		P	80 - 120
Lambda-Cyhalothrin	100		P	80 - 120
Methoprene	103		P	80 - 120
Methoxychlor	98.0		P	80 - 120
MGK-264	99.7		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	97.9		P	80 - 120
Permethrin	99.0		P	80 - 120
Phenothrin	100		P	80 - 120
Piperonyl Butoxide	93.1		P	80 - 120
Prallethrin	97.0		P	80 - 120
Tau-Fluvalinate	97.6		P	80 - 120
Tetramethrin	103		P	80 - 120
Trans-Nonachlor	99.8		P	80 - 120
Triclosan Methyl	98.8		P	80 - 120
Trifluralin	99.8		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A111063
Included Lab Sample IDs: 2311848

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.2	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A111070
Included Lab Sample IDs: 2311847

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A111154

Included Lab Sample IDs: 2311845

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	98.9	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A111197

Included Lab Sample IDs: 2311867

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.9		P	80 - 120
Alachlor	97.7		P	80 - 120
Ametryn	86.5		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	112		P	80 - 120
Azinphos Methyl	102		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	98.2		P	80 - 120
Butylate	101		P	80 - 120
Caffeine	95.4		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	108		P	80 - 120
Chlorfenapyr	99.6		P	80 - 120
Chlorpyrifos Ethyl	96.5		P	80 - 120
Chlorpyrifos Methyl	92.3		P	80 - 120
Coumaphos	92.3		P	80 - 120
Cyanazine	112		P	80 - 120
Cyprodinil	93.8		P	80 - 120
Demeton	97.4		P	80 - 120
Diazinon	106		P	80 - 120
Difenoconazole	104		P	80 - 120
Dimethenamid	95.2		P	80 - 120
Dimethomorph	103		P	80 - 120
Disulfoton	91.9		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	99.1		P	80 - 120
Ethion	97.3		P	80 - 120
Ethoprop	98.6		P	80 - 120
Etridiazole	93.7		P	80 - 120
Fenamiphos	90.9		P	80 - 120
Fenbuconazole	88.6		P	80 - 120
Fipronil	99.9		P	80 - 120
Fipronil Desulfinyl	94.9		P	80 - 120
Fipronil Sulfide	93.2		P	80 - 120
Fipronil Sulfone	87.0		P	80 - 120
Fluazifop-P-butyl	105		P	80 - 120
Fludioxonil	97.6		P	80 - 120
Flumioxazin	106		P	80 - 120
Flutolanil	86.5		P	80 - 120
Fluxapyroxad	100		P	80 - 120
Fonofos	99.4		P	80 - 120
Hexazinone	99.1		P	80 - 120
Imazalil	109		P	80 - 120
Iprodione	106		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A111197
 Included Lab Sample IDs: 2311867

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Loratadine	107		P	80 - 120
Malathion	97.5		P	80 - 120
Metalaxyl	94.4		P	80 - 120
Metolachlor	99.8		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	95.1		P	80 - 120
Molinate	102		P	80 - 120
Myclobutanil	101		P	80 - 120
Naled	90.9		P	80 - 120
Napropamide	94.8		P	80 - 120
Norflurazon	98.6		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	109		P	80 - 120
Parathion Ethyl	110		P	80 - 120
Parathion Methyl	107		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytoin	97.0		P	80 - 120
Phorate	96.9		P	80 - 120
Prodiamine	119		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	91.4		P	80 - 120
Pronamide	103		P	80 - 120
Propanil	96.8		P	80 - 120
Propargite	93.3		P	80 - 120
Propiconazole	102		P	80 - 120
Pyraflufen Ethyl	106		P	80 - 120
Pyridaben	95.9		P	80 - 120
Pyriproxyfen	94.2		P	80 - 120
Simazine	98.1		P	80 - 120
Stirophos	86.8		P	80 - 120
Sulfentrazone	101		P	80 - 120
Tebuconazole	98.9		P	80 - 120
Terbufos	94.4		P	80 - 120
Terbuthylazine	94.3		P	80 - 120
Thiobencarb	105		P	80 - 120
Triadimefon	106		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision	MS
								SMP	
DEP SOP: NU-094-1	Color (true)	101						0.717	
	Color (true)	99.3						0.558	
EPA 180.1 Rev. 2.0	Turbidity	96.9						1.44	
EPA 200.7 Rev. 4.4	Calcium	105		108	108				1.03
	Iron	109		107	110	108			2.29
	Magnesium	111		109	110	108			0.305
	Potassium	102		102	103	101			0.325
	Sodium	101		103	104				0.605
	Strontium	104		102	104				1.95
	Tin	106		106	109	105			2.33
	Titanium	103		99.2	102	102			2.67
	Vanadium	96.4		97.1	99.0	96.1			1.90
	Zinc	109		109	111	106			1.19
EPA 200.8 Rev. 5.4	Aluminum	99.6		105	111	99.5			4.97
	Antimony	100		103	102	101			0.312
	Arsenic	102		103	103	102			0.277
	Barium	103		105	105	103			0.267
	Beryllium	98.6		99.9	99.3	93.9			0.524
	Boron	104		110	107	107			0.186
	Cadmium	100		103	105	102			1.84
	Chromium	97.0		101	103	98.4			1.95
	Cobalt	102		101	102	100			0.915
	Copper	98.8		99.5	99.9	97.2			0.317
	Lead	97.1		100	99.6	98.1			0.608
	Manganese	98.1		104	97.9	99.1			2.50
	Molybdenum	99.1		102	101	102			0.146
	Nickel	100		101	102	98.3			0.658
	Selenium	101		102	101	87.3			1.87
	Silver	98.7		101	101	101			0.283
	Thallium	99.6		106	104	102			1.03
EPA 300.0 Rev. 2.1	Chloride	100		102	100			0.145	
	Sulfate	101		103				0.503	
	Sulfate	100		99.9	99.3			0.145	
EPA 350.1 Rev. 2.0	Ammonia-N	100		99.2	104				4.50
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100		98.0	98.8				0.585
	Kjeldahl Nitrogen	95.4		100	92.0				5.53
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5		97.5	97.0				0.282
EPA 365.1 Rev. 2.0	Total-P	101		98.6	98.7				0.101
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.4		99.3	100				0.842
EPA 8270E	Acetochlor	87.0	96.3	107			10.1		
	Alachlor	89.0	81.1	101			9.22		
	Aldrin	67.9		57.6	57.1				0.872
	Alpha-BHC	95.9		88.2	88.6				0.461
	Alpha-Chlordane	85.6		79.0	80.7				2.19
	Ametryn	88.3	76.1	107			14.8		
	Atrazine	94.9	90.2				5.15		
	Atrazine Desethyl	66.2	70.2	76.7			5.81		
	Azinphos Methyl	67.5	78.9	94.9			15.6		
	Azoxystrobin	92.8	101	103			8.38		
	Beta-BHC	111		111	114				2.97
	Beta-Cyfluthrin	91.4		75.8	76.7				1.11
	Bifenthrin	79.6		66.1	74.6				12.0
	Bromacil	90.7	91.9				1.26		
	Butylate	40.0	32.7	20.3			20.0		

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Caffeine	101	120	40.6		17.5		
	Carbophenothion	104	107	123		2.54		
	Carfentrazone Ethyl	114	110	144		3.88		
	Chlorfenapyr	72.2	78.2	93.1		7.93		
	Chlorothalonil	165		135	143			5.19
	Chlorpyrifos Ethyl	82.0	81.9	97.6		0.0099		
	Chlorpyrifos Methyl	90.6	91.8	103		1.35		
	Cis-Nonachlor	77.0		68.8	70.8			2.90
	Coumaphos	143	151	174		5.32		
	Cyanazine	106	104	136		1.51		
	Cypermethrin	98.7		80.9	82.4			1.82
	Cyprodinil	82.5	82.9	99.3		0.509		
	Dacthal	98.5		90.5	94.1			3.94
	DDD-p,p'	97.1		85.5	86.9			1.65
	DDE-p,p'	81.4		73.0	74.8			2.41
	DDT-p,p'	87.2		74.2	78.4			5.56
	Delta-BHC	95.8		92.1	95.0			3.06
	Deltamethrin	91.7		78.3	64.3			19.6
	Demeton	60.8	49.6	63.0		20.2		
	Diazinon	97.1	84.9	115		13.4		
	Dichlobenil	85.9		79.1	67.0			16.5
	Dicofol	97.2		84.6	88.1			4.00
	Dieldrin	84.9		78.1	81.1			3.85
	Difenoconazole	57.6	60.4	76.8		4.89		
	Dimethenamid	74.6	71.9	86.7		3.74		
	Dimethomorph	97.4	84.1	122		14.6		
	Disulfoton	79.8	67.5	87.9		16.7		
	Dithiopyr	84.9	83.8	106		1.29		
	Endosulfan I	86.7		73.2	76.2			3.94
	Endosulfan II	88.7		74.9	77.3			3.10
	Endosulfan Sulfate	84.6		78.3	77.5			0.972
	Endrin	82.6		72.4	76.8			5.94
	Endrin Aldehyde	71.2		69.1	68.0			1.62
	Endrin Ketone	143		104	122			15.3
	EPTC	39.1	31.2	18.6		22.7		
	Esfenvalerate	98.6		82.2	82.9			0.780
	Ethalfuralin	84.7		69.4	73.8			6.11
	Ethion	84.7	86.4	104		1.98		
	Ethoprop	74.1	65.4	79.3		12.5		
	Etridiazole	53.0	37.4	28.1		34.6		
	Fenamiphos	96.6	96.0	109		0.541		
	Fenbuconazole	118	111	151		6.15		
	Fenpropathrin	99.9		84.5	91.1			7.51
	Fipronil	92.6	89.6	115		3.27		
	Fipronil Desulfinyl	86.1	81.2	103		5.86		
	Fipronil Sulfide	68.8	76.2	91.6		10.3		
	Fipronil Sulfone	73.0	76.9	94.3		5.11		
	Fluazifop-P-butyl	82.4	78.2	106		5.24		
	Fludioxonil	88.8	86.2	102		3.01		
	Flumioxazin	217	208	316		4.43		
	Flutolanil	87.9	81.7	97.7		7.36		
	Fluxapyroxad	109	111			1.83		
	Fonofos	78.1	77.7	78.0		0.587		
	Gamma-BHC	96.3		85.9	89.6			4.17

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 8270E	Gamma-Chlordane	91.4		87.1	90.5			3.87
	Heptachlor	74.0		62.1	62.8			1.18
	Heptachlor Epoxide	86.1		74.5	75.8			1.57
	Hexachlorobenzene	67.2		59.9	58.1			3.05
	Hexazinone	97.4	96.2	111		1.27		
	Imazalil	102	111	146		8.17		
	Iprodione	38.5	46.9	57.3		19.7		
	Kepone	138		121	83.2			36.7
	Lambda-Cyhalothrin	100		86.1	83.2			3.49
	Loratadine	64.3	61.9	79.6		3.88		
	Malathion	108	111	136		2.30		
	Metalaxyl	79.4	74.8	91.0		6.08		
	Methoprene	80.4		63.7	76.5			18.2
	Methoxychlor	105		92.0	102			9.79
	Metolachlor	88.1	82.5	111		6.56		
	Metribuzin	100	92.5	127		8.02		
	Mevinphos	72.4	67.0	71.4		7.71		
	MGK-264	93.1		85.9	89.8			4.33
	Mirex	72.0		63.7	67.5			5.86
	Molinate	61.0	46.2	37.5		27.6		
	Myclobutanil	88.8	87.2	107		1.77		
	Naled	67.1	60.3	69.9		10.8		
	Napropamide	84.5	82.3	97.6		2.62		
	Norflurazon	99.9	95.1	120		5.00		
	Oxadiazon	74.2	72.4	85.6		2.56		
	Oxychlordane	84.0		72.4	76.9			6.12
	Oxyfluorfen	108	92.0	129		16.1		
	Parathion Ethyl	93.5	88.4	105		5.57		
	Parathion Methyl	121	120	135		0.780		
	Pendimethalin	79.2	69.7	89.0		12.7		
	Permethrin	91.0		76.3	81.6			6.68
	Phenothrin	78.5		69.9	75.6			7.89
	Phenytoin	112	83.6	146		29.0		
	Phorate	62.7	51.3	68.7		20.0		
	Piperonyl Butoxide	135		123	129			5.24
	Prallethrin	69.1		67.6	69.1			2.29
	Prodiamine	109	91.4	154		17.2		
	Prometon	94.1	89.3	128		5.22		
	Prometryn	76.5	73.8	92.0		3.69		
	Pronamide	104	89.8	132		14.4		
	Propanil	92.8	89.3	103		3.83		
	Propargite	146	79.2	192		59.0		
	Propiconazole	101	92.6	131		8.27		
	Pyraflufen Ethyl	108	108	141		0.0592		
	Pyridaben	129	119	153		8.15		
	Pyriproxyfen	41.2	47.2	58.8		13.6		
	Simazine	91.6	88.8	105		3.09		
	Stirophos	90.4	94.0	111		3.90		
	Sulfentrazone	111	84.9	153		26.7		
	Tau-Fluvalinate	80.5		70.6	70.9			0.422
	Tebuconazole	114	102	153		11.2		
	Terbufos	90.5	82.7	99.3		9.07		
	Terbuthylazine	92.7	86.4	102		7.07		
	Tetramethrin	114		126	129			2.28

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 8270E	Thiobencarb	89.3	88.0	108		1.47		
	Trans-Nonachlor	78.4		75.3	79.2			5.01
	Triadimefon	84.1	78.1	98.9		7.44		
	Triclosan Methyl	85.0		74.1	76.5			3.16
	Trifluralin	83.3		71.0	75.6			6.33
EPA 8276	Chlordane	77.0		106	88.8			18.0
	Toxaphene	69.0		81.9	83.9			2.35
EPA 8321B	2,4-D	83.4		65.3	85.0			26.2
	2,4,5-T	50.8		47.7	51.2			6.99
	3-Hydroxycarbofuran	98.8		107	111			3.31
	Acesulfame K	92.3		103	100			2.94
	Acetaminophen	96.9		108	101			6.63
	Acetamiprid	80.4		82.6	83.5			1.07
	Afidopyropen	54.2		61.9	74.2			18.0
	Aldicarb	94.1		98.6	95.8			2.90
	Aldicarb Sulfone	96.8		116	130			11.2
	Aldicarb Sulfoxide	102		63.2	56.9			10.5
	AMPA	96.4		89.9	90.2			0.353
	Bentazon	92.7		91.3	83.3			9.17
	Benzovindiflupyr	114		108	85.8			22.6
	Carbamazepine	122		121	92.5			26.9
	Carbaryl	83.6		81.5	82.2			0.946
	Carbofuran	99.7		83.3	74.5			11.3
	Clothianidin	112		99.3	97.7			1.59
	Dinotefuran	106		123	119			2.99
	Diuron	93.3		71.0	86.7			19.9
	Endothall	86.8		73.4	105			35.8
	Fenuron	132		119	84.3			27.6
	Fluridone	91.9		89.8	87.9			2.17
	Glufosinate	81.4		77.8	80.8			3.67
	Glyphosate	89.2		79.9	81.9			2.56
	Hydrocodone	111		98.5	98.9			0.343
	Ibuprofen	46.0		45.1	45.8			1.52
	Imazapyr	106		96.1	120			22.1
	Imidacloprid	119		147	142			3.20
	Linuron	90.7		66.2	118			56.2
	Mandestrobin	92.9		100	94.4			6.02
	MCPP	92.7		83.1	100			18.6
	Methiocarb	92.8		83.2	78.8			5.31
	Methomyl	93.4		95.5	101			5.21
	Naproxen	52.4		61.0	55.7			9.05
	Oxamyl	103		109	105			4.03
	Primidone	144		135	128			5.23
	Propoxur	97.4		96.2	95.6			0.604
	Pyraclostrobin	86.6		85.2	93.9			9.77
	Silvex	47.7		46.9	54.0			14.0
	Sucralose	86.4		83.0	88.0			5.67
	Thiamethoxam	108		135	137			1.34
	Tolfenpyrad	40.9		36.8	48.3			26.9
	Triclopyr	55.7		52.9	55.7			5.14
SM 2320 B-2011	Total Alkalinity	95.1					0.661	
SM 2540 C-2011	TDS						5.97	
SM 2540 D-2011	TSS						6.90	
SM 4500 F-C-2011	Fluoride	99.6		101	101			0.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
SM 5310 B-2011	Organic Carbon	94.9	89.8	91.1		0.802

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2311844, 2311847
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2311844, 2311847
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2311868, 2311869, 2311870, 2311871, 2311872
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2311868, 2311869, 2311870, 2311871, 2311872
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2311844
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2311844, 2311847
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2311845, 2311848
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2311845, 2311848
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2311845, 2311848
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2311845, 2311848
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2311846, 2311849
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2311866
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2311867
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2311866
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2311864
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2311861, 2311862, 2311863, 2311865
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2311861, 2311862, 2311863, 2311865
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2311844, 2311847
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2311868, 2311869, 2311870, 2311871, 2311872
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2311844, 2311847
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2311844, 2311847
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2311844, 2311847
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2311845, 2311848

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	03/10/2022			03/10/2022 15:44	Anna M. Plaviak	2311844
	03/10/2022			03/10/2022 15:56	Anna M. Plaviak	2311847
EPA 180.1 Rev. 2.0	03/10/2022			03/10/2022 14:49	Khloe J Berg	2311844
	03/10/2022			03/10/2022 14:51	Khloe J Berg	2311847
EPA 200.7 Rev. 4.4	03/10/2022	03/14/2022 10:34	Megan Whitefoot	03/14/2022 21:00	Josef B Mick	2311868
	03/10/2022	03/14/2022 10:34	Megan Whitefoot	03/14/2022 21:08	Josef B Mick	2311869
	03/10/2022	03/14/2022 10:34	Megan Whitefoot	03/14/2022 21:16	Josef B Mick	2311870
	03/10/2022	03/14/2022 10:34	Megan Whitefoot	03/14/2022 21:24	Josef B Mick	2311871
	03/10/2022	03/14/2022 10:34	Megan Whitefoot	03/14/2022 21:32	Josef B Mick	2311872
EPA 200.8 Rev. 5.4	03/10/2022	03/14/2022 10:34	Megan Whitefoot	03/14/2022 18:39	Alexander Thompson	2311868
	03/10/2022	03/14/2022 10:34	Megan Whitefoot	03/14/2022 18:49	Alexander Thompson	2311869
	03/10/2022	03/14/2022 10:34	Megan Whitefoot	03/14/2022 18:58	Alexander Thompson	2311870
	03/10/2022	03/14/2022 10:34	Megan Whitefoot	03/14/2022 19:08	Alexander Thompson	2311871
	03/10/2022	03/14/2022 10:34	Megan Whitefoot	03/14/2022 19:18	Alexander Thompson	2311872
EPA 300.0 Rev. 2.1	03/10/2022			03/17/2022 03:42	Anna M. Plaviak	2311844
	03/10/2022			03/21/2022 18:16	James L Waggeberby	2311847
EPA 350.1 Rev. 2.0	03/10/2022			03/11/2022 10:11	Judith K. Clark	2311845
	03/10/2022			03/11/2022 10:13	Judith K. Clark	2311848
EPA 351.2 Rev. 2.0	03/10/2022	03/17/2022 10:56	Samantha L Bates	03/21/2022 12:25	Alexandra J Mattheus	2311848
	03/10/2022	03/23/2022 10:26	Samantha L Bates	03/25/2022 12:39	Alexandra J Mattheus	2311845
EPA 353.2 Rev. 2.0	03/10/2022			03/17/2022 11:31	Beverly Y. Sanders	2311845
	03/10/2022			03/17/2022 11:33	Beverly Y. Sanders	2311848
EPA 365.1 Rev. 2.0	03/10/2022	03/17/2022 15:15	Simonne.V. Calhoun	03/18/2022 14:22	Sarah A Nixon	2311845
	03/10/2022	03/17/2022 15:15	Simonne.V. Calhoun	03/18/2022 14:24	Sarah A Nixon	2311848
EPA 365.1 Rev. 2.0 dissolved	03/10/2022			03/10/2022 14:02	James L Waggeberby	2311846
	03/10/2022			03/10/2022 14:07	James L Waggeberby	2311849
EPA 8270E	03/10/2022	03/14/2022 08:00	Fe-Val Siddell	03/18/2022 23:42	Vandana T. Nagar	2311866
	03/10/2022	03/22/2022 08:00	Rasheda Ghaffari	03/24/2022 23:52	Michael Poppell	2311867
EPA 8276	03/10/2022	03/14/2022 08:00	Fe-Val Siddell	03/16/2022 19:26	Arthur Maknenko	2311866
EPA 8321B	03/10/2022	03/11/2022 08:00	Manjita Shrestha	03/11/2022 11:46	Manjita Shrestha	2311861
	03/10/2022	03/11/2022 08:00	Manjita Shrestha	03/11/2022 11:57	Manjita Shrestha	2311862
	03/10/2022	03/11/2022 08:00	Manjita Shrestha	03/11/2022 12:07	Manjita Shrestha	2311863
	03/10/2022	03/11/2022 08:00	Manjita Shrestha	03/11/2022 12:18	Manjita Shrestha	2311865
	03/10/2022	03/11/2022 08:00	Manjita Shrestha	03/12/2022 05:45	Manjita Shrestha	2311861
	03/10/2022	03/11/2022 08:00	Manjita Shrestha	03/12/2022 06:00	Manjita Shrestha	2311862
	03/10/2022	03/11/2022 08:00	Manjita Shrestha	03/12/2022 06:14	Manjita Shrestha	2311863
	03/10/2022	03/11/2022 08:00	Manjita Shrestha	03/12/2022 06:29	Manjita Shrestha	2311865
	03/10/2022	03/11/2022 08:00	Manjita Shrestha	03/16/2022 00:35	Manjita Shrestha	2311861
	03/10/2022	03/11/2022 08:00	Manjita Shrestha	03/16/2022 00:50	Manjita Shrestha	2311862
	03/10/2022	03/11/2022 08:00	Manjita Shrestha	03/16/2022 01:05	Manjita Shrestha	2311863

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	03/10/2022	03/11/2022 08:00	Manjita Shrestha	03/16/2022 01:20	Manjita Shrestha	2311865
	03/10/2022	03/14/2022 08:20	June Rhew	03/15/2022 17:02	Juyoung Kim	2311864
	03/10/2022	03/16/2022 08:00	June Rhew	03/18/2022 00:33	Juyoung Kim	2311861
	03/10/2022	03/16/2022 08:00	June Rhew	03/18/2022 01:08	Juyoung Kim	2311862
	03/10/2022	03/16/2022 08:00	June Rhew	03/18/2022 01:43	Juyoung Kim	2311863
	03/10/2022	03/16/2022 08:00	June Rhew	03/18/2022 02:17	Juyoung Kim	2311865
	03/10/2022			03/16/2022 01:40	Dale L. Simmons	2311844
SM 2320 B-2011	03/10/2022			03/16/2022 01:52	Dale L. Simmons	2311847
SM 2340B	03/10/2022			03/14/2022 21:00	Josef B Mick	2311868
	03/10/2022			03/14/2022 21:08	Josef B Mick	2311869
	03/10/2022			03/14/2022 21:16	Josef B Mick	2311870
	03/10/2022			03/14/2022 21:24	Josef B Mick	2311871
	03/10/2022			03/14/2022 21:32	Josef B Mick	2311872
SM 2540 C-2011	03/10/2022			03/14/2022 14:02	Yijie Li	2311844, 2311847
SM 2540 D-2011	03/10/2022			03/14/2022 15:03	Yijie Li	2311844, 2311847
SM 4500 F-C-2011	03/10/2022			03/16/2022 01:40	Dale L. Simmons	2311844
	03/10/2022			03/16/2022 01:52	Dale L. Simmons	2311847
SM 5310 B-2011	03/10/2022			03/15/2022 19:30	Khloe J Berg	2311845
	03/10/2022			03/15/2022 22:20	Khloe J Berg	2311848