

Chemical Analysis Report

NW-DIST-2021-01-15-01

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

Event Description: **Pensacola Run**
Request ID: **RQ-2021-01-11-37**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 208
Pensacola, FL 32502-5794
Attn: Cheryl Bunch

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 12-FEB-2021 14:41

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored 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: Muscogee Creek 300 downstream of Beulah Road

Collection Date/Time: 01/14/2021 11:30

Field ID: G5NW0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219537	EPA 200.7 Rev. 4.4	Barium	14.8		ug/L	P392543	
		Calcium	1.31		mg/L	P392543	
		Iron	200		ug/L	P392543	
		Magnesium	0.73		mg/L	P392543	
		Manganese	15.9		ug/L	P392543	
		Potassium	0.49	I	mg/L	P392543	
		Sodium	4.3		mg/L	P392543	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P392543	
		Aluminum	171		ug/L	P392543	
		Antimony	0.050	U	ug/L	P392543	
		Arsenic	0.15	I	ug/L	P392543	
		Beryllium	0.075		ug/L	P392543	
		Boron**	9.6		ug/L	P392543	
		Cadmium	0.020	U	ug/L	P392543	
		Chromium	0.40	U	ug/L	P392543	
		Copper	0.40	U	ug/L	P392543	
		Lead	0.20	U	ug/L	P392543	
		Nickel	0.50	U	ug/L	P392543	
		Selenium	0.20	U	ug/L	P392543	
		Silver	0.010	U	ug/L	P392543	
		Thallium	0.10	U	ug/L	P392543	
	SM 2340B	Hardness	6.3		mg/L	P392543	

Sample Location: Jones Creek Upstream Of N Navy Blvd

Collection Date/Time: 01/14/2021 09:26

Field ID: G4NW0429

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219533	EPA 8270E	Aldrin	0.83	U	ng/L	P392818	
		Dieldrin	0.44	U	ng/L	P392818	
		Alpha-BHC	2.2	U	ng/L	P392818	
		Kepone**	6.1	UJ	ng/L	P392818	CCV
		Alpha-Chlordane	1.1	U	ng/L	P392818	MS
		Beta-BHC	8.8	U	ng/L	P392818	
		Beta-Cyfluthrin**	17	U	ng/L	P392818	
		Bifenthrin**	4.4	U	ng/L	P392818	MS
		Delta-BHC	8.8	U	ng/L	P392818	
		Gamma-BHC	8.8	U	ng/L	P392818	
		Carbophenothion	11	U	ng/L	P392818	
		Chlorothalonil	2.2	U	ng/L	P392818	
		Cis-Nonachlor**	1.1	U	ng/L	P392818	MS
		Cypermethrin	22	U	ng/L	P392818	
		Dacthal**	1.1	U	ng/L	P392818	MS
		DDD-p,p'	5.5	U	ng/L	P392818	MS
		DDE-p,p'	5.5	U	ng/L	P392818	MS
		DDT-p,p'	6.6	U	ng/L	P392818	MS
		Deltamethrin**	22	U	ng/L	P392818	
		Dicofol	33	U	ng/L	P392818	
		Endosulfan I	4.4	U	ng/L	P392818	MS
		Endosulfan II	4.4	U	ng/L	P392818	
		Endosulfan Sulfate	2.2	U	ng/L	P392818	MS
		Endrin	2.2	U	ng/L	P392818	MS
		Endrin Aldehyde	2.2	UJ	ng/L	P392818	LCS
		Endrin Ketone	2.2	U	ng/L	P392818	MS
		Ethalfuralin**	3.3	U	ng/L	P392818	
		Gamma-Chlordane	1.1	U	ng/L	P392818	MS
		Dichlobenil**	2.2	U	ng/L	P392818	
		Esfenvalerate**	22	U	ng/L	P392818	MS
		Fenpropathrin**	11	U	ng/L	P392818	
		Heptachlor	1.7	U	ng/L	P392818	MS
		Heptachlor Epoxide	2.2	U	ng/L	P392818	MS
		Hexachlorobenzene	2.2	U	ng/L	P392818	
		Lambda-Cyhalothrin**	17	U	ng/L	P392818	
		Methoxychlor	4.4	U	ng/L	P392818	
		Mirex	2.2	U	ng/L	P392818	MS
		MGK-264**	3.3	U	ng/L	P392818	
		Permethrin	11	U	ng/L	P392818	MS
		Phenothrin**	33	U	ng/L	P392818	
		Piperonyl Butoxide**	1.7	U	ng/L	P392818	
		Prallethrin**	28	U	ng/L	P392818	
		Tau-Fluvalinate**	3.9	U	ng/L	P392818	
		Tetramethrin**	8.8	U	ng/L	P392818	

Field ID: G4NW0429

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219533	EPA 8270E	Trans-Nonachlor**	1.1	U	ng/L	P392818	MS
		Triclosan Methyl**	1.1	U	ng/L	P392818	MS
		Trifluralin	2.8	U	ng/L	P392818	
		Chlordane	5.5	U	ng/L	P392818	
		Toxaphene	33	U	ng/L	P392818	
2219540	EPA 8276						
	EPA 200.7 Rev. 4.4	Barium	8.0		ug/L	P392543	
		Calcium	7.32		mg/L	P392543	
		Iron	240		ug/L	P392543	
		Magnesium	1.13		mg/L	P392543	
		Manganese	7.3		ug/L	P392543	
		Potassium	0.47	I	mg/L	P392543	
		Sodium	7.8		mg/L	P392543	
		Zinc	7.1	I	ug/L	P392543	
		Aluminum	249		ug/L	P392543	
		Antimony	0.11	I	ug/L	P392543	
		Arsenic	0.46		ug/L	P392543	
		Beryllium	0.015	I	ug/L	P392543	
		Cadmium	0.020	U	ug/L	P392543	
		Chromium	0.42	I	ug/L	P392543	
		Copper	0.40	U	ug/L	P392543	
		Lead	0.29	I	ug/L	P392543	
		Nickel	0.50	U	ug/L	P392543	
		Selenium	0.20	U	ug/L	P392543	
		Silver	0.010	U	ug/L	P392543	
		Thallium	0.10	U	ug/L	P392543	
	SM 2340B	Hardness	22.9		mg/L	P392543	

Ref. Method and Comment:

EPA 8270E: Insufficient sample available to perform duplicate matrix spikes. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8276: Insufficient sample available to perform duplicate matrix spikes.

Sample Location: Carpenter Creek Upstream Of 9th Avenue

Collection Date/Time: 01/14/2021 14:10

Field ID: G4NW0415

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219478	EPA 180.1 Rev. 2.0	Turbidity	0.85		NTU	P392475	
	EPA 300.0 Rev. 2.1	Chloride	8.8		mg Cl/L	P392675	
		Sulfate	6.5		mg SO4/L	P392676	
	SM 2120 B-2011	Color (true)	5.1	I	PCU	P392456	
	SM 2320 B-2011	Total Alkalinity	15		mg CaCO3/L	P392588	
	SM 2540 C-2011	TDS	53		mg/L	P392811	
	SM 2540 D-2011	TSS	2	U	mg/L	P392970	
2219479	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P392590	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.017		mg N/L	P393203	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.11	I	mg N/L	P393179	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.2		mg N/L	P392740	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P392719	
2219480	SM 5310 B-2011	Organic Carbon	0.94	I	mg C/L	P392644	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P392486	
2219532	EPA 8270E	Aldrin	0.83	U	ng/L	P392818	
		Dieldrin	4.5		ng/L	P392818	
		Alpha-BHC	2.2	U	ng/L	P392818	
		Kepone**	6.1	UJ	ng/L	P392818	CCV
		Alpha-Chlordane	1.1	U	ng/L	P392818	MS
		Beta-BHC	8.8	U	ng/L	P392818	
		Beta-Cyfluthrin**	17	U	ng/L	P392818	
		Bifenthrin**	4.4	U	ng/L	P392818	MS
		Delta-BHC	8.8	U	ng/L	P392818	
		Gamma-BHC	8.8	U	ng/L	P392818	
		Carbophenothion	11	U	ng/L	P392818	
		Chlorothalonil	2.2	U	ng/L	P392818	
		Cis-Nonachlor**	1.1	U	ng/L	P392818	MS
		Cypermethrin	22	U	ng/L	P392818	
		Dacthal**	1.1	U	ng/L	P392818	MS
		DDD-p,p'	5.5	U	ng/L	P392818	MS
		DDE-p,p'	5.5	U	ng/L	P392818	MS
		DDT-p,p'	6.6	U	ng/L	P392818	MS
		Deltamethrin**	22	U	ng/L	P392818	
		Dicofol	33	U	ng/L	P392818	
		Endosulfan I	4.4	U	ng/L	P392818	MS
		Endosulfan II	4.4	U	ng/L	P392818	
		Endosulfan Sulfate	2.2	U	ng/L	P392818	MS
		Endrin	2.2	U	ng/L	P392818	MS
		Endrin Aldehyde	2.2	UJ	ng/L	P392818	LCS
		Endrin Ketone	2.2	U	ng/L	P392818	MS
		Ethalfuralin**	3.3	U	ng/L	P392818	
		Gamma-Chlordane	1.1	U	ng/L	P392818	MS
		Dichlobenil**	2.2	U	ng/L	P392818	

Field ID: G4NW0415

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219532	EPA 8270E	Esfenvalerate**	22	U	ng/L	P392818	MS
		Fenpropathrin**	11	U	ng/L	P392818	
		Heptachlor	1.7	U	ng/L	P392818	MS
		Heptachlor Epoxide	4.0	I	ng/L	P392818	MS
		Hexachlorobenzene	2.2	U	ng/L	P392818	
		Lambda-Cyhalothrin**	17	U	ng/L	P392818	
		Methoxychlor	4.4	U	ng/L	P392818	
		Mirex	2.2	U	ng/L	P392818	MS
		MGK-264**	3.3	U	ng/L	P392818	
		Permethrin	11	U	ng/L	P392818	MS
		Phenothrin**	33	U	ng/L	P392818	
		Piperonyl Butoxide**	1.7	U	ng/L	P392818	
		Prallethrin**	28	U	ng/L	P392818	
		Tau-Fluvalinate**	3.9	U	ng/L	P392818	
		Tetramethrin**	8.8	U	ng/L	P392818	
		Trans-Nonachlor**	1.1	U	ng/L	P392818	MS
		Triclosan Methyl**	1.1	U	ng/L	P392818	MS
		Trifluralin	2.8	U	ng/L	P392818	
	EPA 8276	Chlordane	5.5	U	ng/L	P392818	
		Toxaphene	33	U	ng/L	P392818	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8270E: Insufficient sample available to perform duplicate matrix spikes. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8276: Insufficient sample available to perform duplicate matrix spikes.

Sample Location: Bayou Marcus upstream of Mobile Hwy

Collection Date/Time: 01/14/2021 09:56

Field ID: G5NW0161

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219475	EPA 180.1 Rev. 2.0	Turbidity	2.4	A	NTU	P392475	
	EPA 300.0 Rev. 2.1	Chloride	9.1		mg Cl/L	P392675	
		Sulfate	5.7		mg SO4/L	P392676	
	SM 2120 B-2011	Color (true)	17		PCU	P392456	
	SM 2320 B-2011	Total Alkalinity	12		mg CaCO3/L	P392588	
	SM 2540 C-2011	TDS	44		mg/L	P392811	
	SM 2540 D-2011	TSS	2	U	mg/L	P392970	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P392590	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P393203	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.28		mg N/L	P393179	
2219476	EPA 353.2 Rev. 2.0	NO2NO3-N	0.70		mg N/L	P392740	
	EPA 365.1 Rev. 2.0	Total-P	0.01		mg P/L	P392719	
	SM 5310 B-2011	Organic Carbon	1.6		mg C/L	P392644	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P392486	
	EPA 8270E	Aldrin	0.83	U	ng/L	P392818	
2219531		Dieldrin	0.72	I	ng/L	P392818	
		Alpha-BHC	2.2	UJ	ng/L	P392818	SUR
		Kepone**	6.1	UJ	ng/L	P392818	CCV
		Alpha-Chlordane	1.1	UJ	ng/L	P392818	MS, SUR
		Beta-BHC	8.8	UJ	ng/L	P392818	SUR
		Beta-Cyfluthrin**	17	UJ	ng/L	P392818	SUR
		Bifenthrin**	4.4	UJ	ng/L	P392818	MS, SUR
		Delta-BHC	8.8	UJ	ng/L	P392818	SUR
		Gamma-BHC	8.8	UJ	ng/L	P392818	SUR
		Carbophenothion	11	UJ	ng/L	P392818	SUR
		Chlorothalonil	2.2	UJ	ng/L	P392818	SUR
		Cis-Nonachlor**	1.1	UJ	ng/L	P392818	MS, SUR
		Cypermethrin	22	UJ	ng/L	P392818	SUR
		Dacthal**	1.1	UJ	ng/L	P392818	MS, SUR
		DDD-p,p'	5.5	UJ	ng/L	P392818	MS, SUR
		DDE-p,p'	5.5	UJ	ng/L	P392818	MS, SUR
		DDT-p,p'	6.6	UJ	ng/L	P392818	MS, SUR
		Deltamethrin**	22	UJ	ng/L	P392818	SUR
		Dicofol	33	UJ	ng/L	P392818	SUR
		Endosulfan I	4.4	UJ	ng/L	P392818	MS, SUR
		Endosulfan II	4.4	UJ	ng/L	P392818	SUR
		Endosulfan Sulfate	2.2	UJ	ng/L	P392818	MS, SUR
		Endrin	2.2	UJ	ng/L	P392818	MS, SUR
		Endrin Aldehyde	2.2	UJ	ng/L	P392818	LCS, SUR
		Endrin Ketone	2.2	UJ	ng/L	P392818	MS, SUR
		Ethalfuralin**	3.3	UJ	ng/L	P392818	SUR
		Gamma-Chlordane	1.1	UJ	ng/L	P392818	MS, SUR
		Dichlobenil**	2.2	UJ	ng/L	P392818	SUR

Field ID: G5NW0161

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219531	EPA 8270E	Esfenvalerate**	22	UJ	ng/L	P392818	MS, SUR
		Fenpropathrin**	11	UJ	ng/L	P392818	SUR
		Heptachlor	1.7	UJ	ng/L	P392818	MS, SUR
		Heptachlor Epoxide	2.2	UJ	ng/L	P392818	MS, SUR
		Hexachlorobenzene	2.2	UJ	ng/L	P392818	SUR
		Lambda-Cyhalothrin**	17	UJ	ng/L	P392818	SUR
		Methoxychlor	4.4	UJ	ng/L	P392818	SUR
		Mirex	2.2	UJ	ng/L	P392818	MS, SUR
		MGK-264**	3.3	UJ	ng/L	P392818	SUR
		Permethrin	11	UJ	ng/L	P392818	MS, SUR
		Phenothrin**	33	UJ	ng/L	P392818	SUR
		Piperonyl Butoxide**	1.7	UJ	ng/L	P392818	SUR
		Prallethrin**	28	UJ	ng/L	P392818	SUR
		Tau-Fluvalinate**	3.9	UJ	ng/L	P392818	SUR
		Tetramethrin**	8.8	UJ	ng/L	P392818	SUR
		Trans-Nonachlor**	1.1	UJ	ng/L	P392818	MS, SUR
		Triclosan Methyl**	1.1	UJ	ng/L	P392818	MS, SUR
		Trifluralin	2.8	UJ	ng/L	P392818	SUR
	EPA 8276	Chlordane	5.5	U	ng/L	P392818	
		Toxaphene	33	U	ng/L	P392818	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8270E: Insufficient sample available to perform duplicate matrix spikes. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: Insufficient sample available to perform duplicate matrix spikes. Refer to the Lab Analysis Report for an explanation of QC Codes.

Reported results qualified with J due to surrogate below control limits; the sample was subsequently re-analyzed (after expiration) with acceptable surrogate recovery and the same analytical results were obtained.

EPA 8276: Insufficient sample available to perform duplicate matrix spikes.

Sample Location: Ten Mile Creek Above Powerlines

Collection Date/Time: 01/14/2021 10:55

Field ID: G5NW0045

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219538	EPA 200.7 Rev. 4.4	Barium	13.3		ug/L	P392543	
		Calcium	6.29		mg/L	P392543	
		Iron	310		ug/L	P392543	
		Magnesium	1.31		mg/L	P392543	
		Manganese	19.9		ug/L	P392543	
		Potassium	0.69	I	mg/L	P392543	
		Sodium	6.2		mg/L	P392543	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P392543	
		Aluminum	77		ug/L	P392543	
		Antimony	0.050	U	ug/L	P392543	
		Arsenic	0.21		ug/L	P392543	
		Beryllium	0.027	I	ug/L	P392543	
		Boron**	16.9		ug/L	P392543	
		Cadmium	0.020	U	ug/L	P392543	
		Chromium	0.40	U	ug/L	P392543	
		Copper	0.40	U	ug/L	P392543	
		Lead	0.20	U	ug/L	P392543	
		Nickel	0.87	I	ug/L	P392543	
		Selenium	0.20	U	ug/L	P392543	
		Silver	0.010	U	ug/L	P392543	
		Thallium	0.10	U	ug/L	P392543	
	SM 2340B	Hardness	21.1		mg/L	P392543	

Sample Location: Ten Mile Creek Upstream Of Pine Forest Road Collection Date/Time: 01/14/2021 10:37

Field ID: G5NW0051

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219539	EPA 200.7 Rev. 4.4	Barium	9.5		ug/L	P392543	
		Calcium	5.71		mg/L	P392543	
		Iron	370		ug/L	P392543	
		Magnesium	1.22		mg/L	P392543	
		Manganese	21.3		ug/L	P392543	
		Potassium	0.63	I	mg/L	P392543	
		Sodium	5.6		mg/L	P392543	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P392543	
		Aluminum	62		ug/L	P392543	
		Antimony	0.050	U	ug/L	P392543	
		Arsenic	0.21		ug/L	P392543	
		Beryllium	0.010	U	ug/L	P392543	
		Boron**	14.8		ug/L	P392543	
		Cadmium	0.020	U	ug/L	P392543	
		Chromium	0.40	U	ug/L	P392543	
		Copper	0.40	U	ug/L	P392543	
		Lead	0.20	U	ug/L	P392543	
		Nickel	0.50	U	ug/L	P392543	
		Selenium	0.20	U	ug/L	P392543	
		Silver	0.010	U	ug/L	P392543	
		Thallium	0.10	U	ug/L	P392543	
	SM 2340B	Hardness	19.3		mg/L	P392543	

Sample Location: Rest Area Run Below Beaver Pond Creek

Collection Date/Time: 01/14/2021 12:15

Field ID: G5NW0068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219472	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P392475	
	EPA 300.0 Rev. 2.1	Chloride	7.5		mg Cl/L	P392675	
		Sulfate	3.0		mg SO4/L	P392676	
	SM 2120 B-2011	Color (true)	34		PCU	P392456	
	SM 2320 B-2011	Total Alkalinity	4.5		mg CaCO3/L	P392588	
	SM 2540 C-2011	TDS	35		mg/L	P392810	
	SM 2540 D-2011	TSS	2	I	mg/L	P392969	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P392590	
2219473	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P393175	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.19	I	mg N/L	P393179	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.46		mg N/L	P392740	
	EPA 365.1 Rev. 2.0	Total-P	0.003	I	mg P/L	P392649	
	SM 5310 B-2011	Organic Carbon	3.3		mg C/L	P392644	
2219474	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P392486	
2219515	EPA 8321B	Aldicarb	0.020	U	ug/L	P392377	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P392377	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P392377	
		Carbaryl	0.0020	U	ug/L	P392377	MS
		Carbofuran	0.0020	U	ug/L	P392377	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P392377	
		Methiocarb	0.0020	U	ug/L	P392377	
		Methomyl	0.0020	U	ug/L	P392377	
		Oxamyl	0.0020	U	ug/L	P392377	
		Propoxur	0.0020	U	ug/L	P392377	
2219516		2,4-D	0.0020	U	ug/L	P392448	
		Acesulfame K	0.10	U	ug/L	P392508	MS
		AMPA	0.10	U	ug/L	P392508	
		Sucralose	0.76		ug/L	P392508	
		Acetaminophen**	0.0080	U	ug/L	P392448	
		Acetamiprid**	0.0020	U	ug/L	P392448	
		Endothall	0.25	U	ug/L	P392508	
		Glufosinate	0.10	U	ug/L	P392508	
		Glyphosate	0.10	U	ug/L	P392508	
		Afidopyropen**	0.0020	U	ug/L	P392448	
		Bentazon	0.0020	I	ug/L	P392448	
		Benzovindiflupyr**	0.0020	U	ug/L	P392448	
		Carbamazepine**	8.0E-04	U	ug/L	P392448	
		Clothianidin**	0.0020	U	ug/L	P392448	
		Dinotefuran**	0.0020	U	ug/L	P392448	
		Diuron	0.0020	U	ug/L	P392448	
		Fenuron	0.016	U	ug/L	P392448	
		Fluridone**	8.0E-04	U	ug/L	P392448	
		Imazapyr**	0.0040	U	ug/L	P392448	

Field ID: G5NW0068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219516	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P392448	
		Ibuprofen**	0.020	U	ug/L	P392448	
		Imidacloprid	0.014		ug/L	P392448	
		Linuron	0.0040	U	ug/L	P392448	
		Mandestrobin**	0.0020	U	ug/L	P392448	
		MCP	0.0020	U	ug/L	P392448	
		Naproxen**	0.0080	U	ug/L	P392448	
		Primidone**	0.0040	U	ug/L	P392448	
		Pyraclostrobin**	0.0020	U	ug/L	P392448	
		Thiamethoxam**	0.0020	U	ug/L	P392448	
		Tolfenpyrad**	0.0020	U	ug/L	P392448	
		Triclopyr**	0.0040	U	ug/L	P392448	
2219529	EPA 8270E	Aldrin	0.84	U	ng/L	P392818	
		Dieldrin	0.45	U	ng/L	P392818	
		Alpha-BHC	2.2	U	ng/L	P392818	
		Kepone**	6.2	UJ	ng/L	P392818	CCV
		Alpha-Chlordane	1.1	UJ	ng/L	P392818	MS
		Beta-BHC	9.0	U	ng/L	P392818	
		Beta-Cyfluthrin**	17	U	ng/L	P392818	
		Bifenthrin**	4.5	UJ	ng/L	P392818	MS
		Delta-BHC	9.0	U	ng/L	P392818	
		Gamma-BHC	9.0	U	ng/L	P392818	
		Chlorothalonil	2.2	U	ng/L	P392818	
		Cis-Nonachlor**	1.1	UJ	ng/L	P392818	MS
		Cypermethrin	22	U	ng/L	P392818	
		Dacthal**	1.1	UJ	ng/L	P392818	MS
		DDD-p,p'	5.6	UJ	ng/L	P392818	MS
		DDE-p,p'	5.6	UJ	ng/L	P392818	MS
		DDT-p,p'	6.7	UJ	ng/L	P392818	MS
		Deltamethrin**	22	U	ng/L	P392818	
		Dicofol	34	U	ng/L	P392818	
		Endosulfan I	4.5	UJ	ng/L	P392818	MS
		Endosulfan II	4.5	U	ng/L	P392818	
		Endosulfan Sulfate	2.2	UJ	ng/L	P392818	MS
		Endrin	2.2	UJ	ng/L	P392818	MS
		Endrin Aldehyde	2.2	UJ	ng/L	P392818	LCS
		Endrin Ketone	2.2	UJ	ng/L	P392818	MS
		Ethalfuralin**	3.4	U	ng/L	P392818	
		Gamma-Chlordane	1.1	UJ	ng/L	P392818	MS
		Dichlobenil**	2.2	U	ng/L	P392818	
		Esfenvalerate**	22	UJ	ng/L	P392818	MS
		Fenpropathrin**	11	U	ng/L	P392818	
		Heptachlor	1.7	UJ	ng/L	P392818	MS
		Heptachlor Epoxide	2.2	UJ	ng/L	P392818	MS
		Hexachlorobenzene	2.2	U	ng/L	P392818	

Field ID: G5NW0068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219529	EPA 8270E	Lambda-Cyhalothrin**	17	U	ng/L	P392818	
		Methoxychlor	4.5	U	ng/L	P392818	
		Mirex	2.2	UJ	ng/L	P392818	MS
		MGK-264**	3.4	U	ng/L	P392818	
		Permethrin	11	UJ	ng/L	P392818	MS
		Phenothrin**	34	U	ng/L	P392818	
		Piperonyl Butoxide**	1.7	U	ng/L	P392818	
		Prallethrin**	28	U	ng/L	P392818	
		Tau-Fluvalinate**	3.9	U	ng/L	P392818	
		Tetramethrin**	9.0	U	ng/L	P392818	
		Trans-Nonachlor**	1.1	UJ	ng/L	P392818	MS
		Triclosan Methyl**	1.1	UJ	ng/L	P392818	MS
		Trifluralin	2.8	U	ng/L	P392818	
		Chlordane	5.6	U	ng/L	P392818	
		Toxaphene	34	U	ng/L	P392818	
		Acetochlor	0.25	U	ng/L	P392528	
2219530	EPA 8270E	Alachlor	0.25	U	ng/L	P392528	
		Ametryn	0.61	U	ng/L	P392528	
		Atrazine	4.5		ng/L	P392528	
		Atrazine Desethyl	2.9	I	ng/L	P392528	
		Azinphos Methyl	2.0	UJ	ng/L	P392528	CCV
		Azoxystrobin**	0.51	U	ng/L	P392528	
		Bromacil	1.4	I	ng/L	P392528	
		Butylate	0.40	U	ng/L	P392528	
		Carbophenothion	0.51	U	ng/L	P392528	
		Carfentrazone Ethyl**	0.10	U	ng/L	P392528	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P392528	
		Chlorpyrifos Methyl	0.051	U	ng/L	P392528	
		Cyanazine	3.3	U	ng/L	P392528	
		Demeton	1.5	U	ng/L	P392528	
		Diazinon	0.13	U	ng/L	P392528	
		Difenoconazole**	0.61	U	ng/L	P392528	
		Dimethenamid**	0.10	U	ng/L	P392528	
		Disulfoton	0.51	U	ng/L	P392528	
		Dithiopyr**	0.18	U	ng/L	P392528	
		EPTC	1.3	U	ng/L	P392528	
		Ethion	0.15	U	ng/L	P392528	
		Ethoprop	0.10	U	ng/L	P392528	
		Fenamiphos	0.51	U	ng/L	P392528	
		Fenbuconazole**	0.13	U	ng/L	P392528	
		Fipronil	0.25	U	ng/L	P392528	
		Fipronil Desulfinyl**	0.13	U	ng/L	P392528	
		Fipronil Sulfide	0.15	U	ng/L	P392528	
		Fipronil Sulfone	0.48	I	ng/L	P392528	
		Fluazifop-P-butyl**	0.10	U	ng/L	P392528	

Field ID: G5NW0068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219530	EPA 8270E	Fludioxonil**	0.13	U	ng/L	P392528	
		Flumioxazin**	1.8	U	ng/L	P392528	
		Flutolanil**	0.10	U	ng/L	P392528	
		Fluxapyroxad**	0.10	U	ng/L	P392528	
		Fonofos	0.20	U	ng/L	P392528	
		Hexazinone	0.51	U	ng/L	P392528	
		Imazalil**	0.76	U	ng/L	P392528	
		Iprodione**	0.61	U	ng/L	P392528	
		Malathion	0.35	U	ng/L	P392528	
		Metalaxyl	0.76	U	ng/L	P392528	
		Metolachlor	0.35	U	ng/L	P392528	
		Metribuzin	3.3	U	ng/L	P392528	
		Mevinphos	1.1	U	ng/L	P392528	
		Molinate	0.30	U	ng/L	P392528	
		Myclobutanil**	0.25	U	ng/L	P392528	
		Naled**	1.5	U	ng/L	P392528	
		Norflurazon	0.51	U	ng/L	P392528	
		Oxadiazon	0.30	U	ng/L	P392528	
		Oxyfluorfen**	0.15	U	ng/L	P392528	
		Parathion Ethyl	0.25	U	ng/L	P392528	
		Parathion Methyl	0.56	U	ng/L	P392528	
		Pendimethalin	1.0	U	ng/L	P392528	
		Phorate	0.53	U	ng/L	P392528	
		Prodiamine**	0.18	U	ng/L	P392528	
		Prometon	0.91	U	ng/L	P392528	
		Prometryn	0.20	U	ng/L	P392528	
		Pronamide**	0.15	U	ng/L	P392528	
		Propiconazole**	0.51	U	ng/L	P392528	
		Pyriproxyfen**	0.13	U	ng/L	P392528	
		Simazine	0.62	I	ng/L	P392528	
		Sulfentrazone**	2.0	I	ng/L	P392528	
		Tebuconazole**	0.51	U	ng/L	P392528	
		Terbufos	0.10	U	ng/L	P392528	
		Terbuthylazine	0.43	U	ng/L	P392528	
2219536	EPA 200.7 Rev. 4.4	Barium	14.7		ug/L	P392543	
		Calcium	2.73		mg/L	P392543	
		Iron	280		ug/L	P392543	
		Magnesium	1.17		mg/L	P392543	
		Manganese	5.3		ug/L	P392543	
		Potassium	1.1	I	mg/L	P392543	
		Sodium	4.7		mg/L	P392543	
		Zinc	5.0	U	ug/L	P392543	
	EPA 200.8 Rev. 5.4	Aluminum	108		ug/L	P392543	
		Antimony	0.050	U	ug/L	P392543	
		Arsenic	0.15	I	ug/L	P392543	

Field ID: G5NW0068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219536	EPA 200.8 Rev. 5.4	Beryllium	0.010	U	ug/L	P392543	
		Boron**	19.6		ug/L	P392543	
		Cadmium	0.020	U	ug/L	P392543	
		Chromium	0.40	U	ug/L	P392543	
		Copper	0.40	U	ug/L	P392543	
		Lead	0.20	U	ug/L	P392543	
		Nickel	0.50	U	ug/L	P392543	
		Selenium	0.20	U	ug/L	P392543	
		Silver	0.010	U	ug/L	P392543	
		Thallium	0.10	U	ug/L	P392543	
		Hardness	11.7		mg/L	P392543	
	SM 2340B						

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8270E: Insufficient sample available to perform duplicate matrix spikes. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8276: Insufficient sample available to perform duplicate matrix spikes.

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

Sample Location: FB 01142021

Collection Date/Time: 01/14/2021 12:25

Field ID: FB 01142021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219481	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P392475	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P392675	
		Sulfate	0.20	U	mg SO4/L	P392676	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P392456	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P392588	
	SM 2540 C-2011	TDS	15	U	mg/L	P392809	
	SM 2540 D-2011	TSS	2	U	mg/L	P392968	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P392590	
2219482	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P393203	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P393179	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P392741	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P392719	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P392644	
2219483	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P392486	
2219517	EPA 8321B	Aldicarb	0.020	U	ug/L	P392377	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P392377	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P392377	
		Carbaryl	0.0020	U	ug/L	P392377	MS
		Carbofuran	0.0020	U	ug/L	P392377	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P392377	
		Methiocarb	0.0020	U	ug/L	P392377	
		Methomyl	0.0020	U	ug/L	P392377	
		Oxamyl	0.0020	U	ug/L	P392377	
		Propoxur	0.0020	U	ug/L	P392377	
2219518		2,4-D	0.0020	U	ug/L	P392448	
		Acesulfame K	0.10	U	ug/L	P392508	MS
		AMPA	0.10	U	ug/L	P392508	
		Sucralose	0.010	U	ug/L	P392508	
		Acetaminophen**	0.0080	U	ug/L	P392448	
		Acetamiprid**	0.0020	U	ug/L	P392448	
		Endothall	0.25	U	ug/L	P392508	
		Glufosinate	0.10	U	ug/L	P392508	
		Glyphosate	0.10	U	ug/L	P392508	
		Afidopyropen**	0.0020	U	ug/L	P392448	
		Bentazon	8.0E-04	U	ug/L	P392448	
		Benzovindiflupyr**	0.0020	U	ug/L	P392448	
		Carbamazepine**	8.0E-04	U	ug/L	P392448	
		Clothianidin**	0.0020	U	ug/L	P392448	
		Dinotefuran**	0.0020	U	ug/L	P392448	
		Diuron	0.0020	U	ug/L	P392448	
		Fenuron	0.016	U	ug/L	P392448	
		Fluridone**	8.0E-04	U	ug/L	P392448	
		Imazapyr**	0.0040	U	ug/L	P392448	

Field ID: FB 01142021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219518	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P392448	
		Ibuprofen**	0.020	U	ug/L	P392448	
		Imidacloprid	0.0020	U	ug/L	P392448	
		Linuron	0.0040	U	ug/L	P392448	
		Mandestrobin**	0.0020	U	ug/L	P392448	
		MCP	0.0020	U	ug/L	P392448	
		Naproxen**	0.0080	U	ug/L	P392448	
		Primidone**	0.0040	U	ug/L	P392448	
		Pyraclostrobin**	0.0020	U	ug/L	P392448	
		Thiamethoxam**	0.0020	U	ug/L	P392448	
		Tolfenpyrad**	0.0020	U	ug/L	P392448	
		Triclopyr**	0.0040	U	ug/L	P392448	
2219534	EPA 8270E	Aldrin	0.88	U	ng/L	P392818	
		Dieldrin	0.47	U	ng/L	P392818	
		Alpha-BHC	2.3	U	ng/L	P392818	
		Kepone**	6.4	UJ	ng/L	P392818	CCV
		Alpha-Chlordane	1.2	U	ng/L	P392818	MS
		Beta-BHC	9.3	U	ng/L	P392818	
		Beta-Cyfluthrin**	18	U	ng/L	P392818	
		Bifenthrin**	4.7	U	ng/L	P392818	MS
		Delta-BHC	9.3	U	ng/L	P392818	
		Gamma-BHC	9.3	U	ng/L	P392818	
		Chlorothalonil	2.3	U	ng/L	P392818	
		Cis-Nonachlor**	1.2	U	ng/L	P392818	MS
		Cypermethrin	23	U	ng/L	P392818	
		Dacthal**	1.2	U	ng/L	P392818	MS
		DDD-p,p'	5.8	U	ng/L	P392818	MS
		DDE-p,p'	5.8	U	ng/L	P392818	MS
		DDT-p,p'	7.0	U	ng/L	P392818	MS
		Deltamethrin**	23	U	ng/L	P392818	
		Dicofol	35	U	ng/L	P392818	
		Endosulfan I	4.7	U	ng/L	P392818	MS
		Endosulfan II	4.7	U	ng/L	P392818	
		Endosulfan Sulfate	2.3	U	ng/L	P392818	MS
		Endrin	2.3	U	ng/L	P392818	MS
		Endrin Aldehyde	2.3	UJ	ng/L	P392818	LCS
		Endrin Ketone	2.3	U	ng/L	P392818	MS
		Ethalfuralin**	3.5	U	ng/L	P392818	
		Gamma-Chlordane	1.2	U	ng/L	P392818	MS
		Dichlobenil**	2.3	U	ng/L	P392818	
		Esfenvalerate**	23	U	ng/L	P392818	MS
		Fenpropathrin**	12	U	ng/L	P392818	
		Heptachlor	1.8	U	ng/L	P392818	MS
		Heptachlor Epoxide	2.3	U	ng/L	P392818	MS
		Hexachlorobenzene	2.3	U	ng/L	P392818	

Field ID: FB 01142021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219534	EPA 8270E	Lambda-Cyhalothrin**	18	U	ng/L	P392818	
		Methoxychlor	4.7	U	ng/L	P392818	
		Mirex	2.3	U	ng/L	P392818	MS
		MGK-264**	3.5	U	ng/L	P392818	
		Permethrin	12	U	ng/L	P392818	MS
		Phenothrin**	35	U	ng/L	P392818	
		Piperonyl Butoxide**	1.8	U	ng/L	P392818	
		Prallethrin**	29	U	ng/L	P392818	
		Tau-Fluvalinate**	4.1	U	ng/L	P392818	
		Tetramethrin**	9.3	U	ng/L	P392818	
		Trans-Nonachlor**	1.2	U	ng/L	P392818	MS
		Triclosan Methyl**	1.2	U	ng/L	P392818	MS
		Trifluralin	2.9	U	ng/L	P392818	
		Chlordane	5.8	U	ng/L	P392818	
		Toxaphene	35	U	ng/L	P392818	
2219535	EPA 8270E	Acetochlor	0.30	U	ng/L	P392528	
		Alachlor	0.30	U	ng/L	P392528	
		Ametryn	0.72	U	ng/L	P392528	
		Atrazine	0.30	U	ng/L	P392528	
		Atrazine Desethyl	1.8	U	ng/L	P392528	
		Azinphos Methyl	2.4	UJ	ng/L	P392528	CCV
		Azoxystrobin**	0.60	U	ng/L	P392528	
		Bromacil	0.60	U	ng/L	P392528	
		Butylate	0.48	U	ng/L	P392528	
		Carbophenothion	0.60	U	ng/L	P392528	
		Carfentrazone Ethyl**	0.12	U	ng/L	P392528	
		Chlorpyrifos Ethyl	0.30	U	ng/L	P392528	
		Chlorpyrifos Methyl	0.060	U	ng/L	P392528	
		Cyanazine	3.9	U	ng/L	P392528	
		Demeton	1.8	U	ng/L	P392528	
		Diazinon	0.15	U	ng/L	P392528	
		Difenoconazole**	0.72	U	ng/L	P392528	
		Dimethenamid**	0.12	U	ng/L	P392528	
		Disulfoton	0.60	U	ng/L	P392528	
		Dithiopyr**	0.21	U	ng/L	P392528	
		EPTC	1.5	U	ng/L	P392528	
		Ethion	0.18	U	ng/L	P392528	
		Ethoprop	0.12	U	ng/L	P392528	
		Fenamiphos	0.60	U	ng/L	P392528	
		Fenbuconazole**	0.15	U	ng/L	P392528	
		Fipronil	0.30	U	ng/L	P392528	
		Fipronil Desulfinyl**	0.15	U	ng/L	P392528	
		Fipronil Sulfide	0.18	U	ng/L	P392528	
		Fipronil Sulfone	0.18	U	ng/L	P392528	
		Fluazifop-P-butyl**	0.12	U	ng/L	P392528	

Field ID: FB 01142021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219535	EPA 8270E	Fludioxonil**	0.15	U	ng/L	P392528	
		Flumioxazin**	2.1	U	ng/L	P392528	
		Flutolanil**	0.12	U	ng/L	P392528	
		Fluxapyroxad**	0.12	U	ng/L	P392528	
		Fonofos	0.24	U	ng/L	P392528	
		Hexazinone	0.60	U	ng/L	P392528	
		Imazalil**	0.89	U	ng/L	P392528	
		Iprodione**	0.72	U	ng/L	P392528	
		Malathion	0.42	U	ng/L	P392528	
		Metalaxyl	0.89	U	ng/L	P392528	
		Metolachlor	0.42	U	ng/L	P392528	
		Metribuzin	3.9	U	ng/L	P392528	
		Mevinphos	1.3	U	ng/L	P392528	
		Molinate	0.36	U	ng/L	P392528	
		Myclobutanil**	0.30	U	ng/L	P392528	
		Naled**	1.8	U	ng/L	P392528	
		Norflurazon	0.60	U	ng/L	P392528	
		Oxadiazon	0.36	U	ng/L	P392528	
		Oxyfluorfen**	0.18	U	ng/L	P392528	
		Parathion Ethyl	0.30	U	ng/L	P392528	
		Parathion Methyl	0.66	U	ng/L	P392528	
		Pendimethalin	1.2	U	ng/L	P392528	
		Phorate	0.63	U	ng/L	P392528	
		Prodiamine**	0.21	U	ng/L	P392528	
		Prometon	1.1	U	ng/L	P392528	
		Prometryn	0.24	U	ng/L	P392528	
		Pronamide**	0.18	U	ng/L	P392528	
		Propiconazole**	0.60	U	ng/L	P392528	
		Pyriproxyfen**	0.15	U	ng/L	P392528	
		Simazine	0.60	U	ng/L	P392528	
		Sulfentrazone**	0.60	U	ng/L	P392528	
		Tebuconazole**	0.60	U	ng/L	P392528	
		Terbufos	0.12	U	ng/L	P392528	
		Terbuthylazine	0.51	U	ng/L	P392528	
2219541	EPA 200.7 Rev. 4.4	Barium	1.0	U	ug/L	P392543	
		Calcium	0.075	U	mg/L	P392543	
		Iron	30	U	ug/L	P392543	
		Magnesium	0.040	U	mg/L	P392543	
		Manganese	1.0	U	ug/L	P392543	
		Potassium	0.30	U	mg/L	P392543	
		Sodium	0.50	U	mg/L	P392543	
		Zinc	5.0	U	ug/L	P392543	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P392543	
		Antimony	0.050	U	ug/L	P392543	
		Arsenic	0.050	U	ug/L	P392543	

Field ID: FB 01142021

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2219541	EPA 200.8 Rev. 5.4	Beryllium	0.010	U	ug/L	P392543	
		Boron**	2.0	U	ug/L	P392543	
		Cadmium	0.020	U	ug/L	P392543	
		Chromium	0.40	U	ug/L	P392543	
		Copper	0.40	U	ug/L	P392543	
		Lead	0.20	U	ug/L	P392543	
		Nickel	0.50	U	ug/L	P392543	
		Selenium	0.20	U	ug/L	P392543	
		Silver	0.010	U	ug/L	P392543	
		Thallium	0.10	U	ug/L	P392543	
	SM 2340B	Hardness	0.35	U	mg/L	P392543	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8270E: Insufficient sample available to perform duplicate matrix spikes. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8276: Insufficient sample available to perform duplicate matrix spikes.

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P392475

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P392543

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Manganese	1.0	U	ug/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P392543

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	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
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P392675

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P392676

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393175

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P393203

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P393179

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P392740

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P392741

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P392649

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P392719

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P392486

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

Reference Method: EPA 8270E
 Batch ID: P392528

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Carbophenothion	0.50	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P392528

Component	Result	Code	Units
Carfentrazone Ethyl	0.10	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Propiconazole	0.50	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P392528

Component	Result	Code	Units
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270E

Batch ID: P392818

Component	Result	Code	Units
Aldrin	0.75	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	8.0	U	ng/L
Beta-Cyfluthrin	15	U	ng/L
Bifenthrin	4.0	U	ng/L
Carbophenothion	10	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
Dacthal	1.0	U	ng/L
DDD-p,p'	5.0	U	ng/L
DDE-p,p'	5.0	U	ng/L
DDT-p,p'	6.0	U	ng/L
Delta-BHC	8.0	U	ng/L
Deltamethrin	20	U	ng/L
Dichlobenil	2.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Esfenvalerate	20	U	ng/L
Ethalfuralin	3.0	U	ng/L
Fenpropathrin	10	U	ng/L
Gamma-BHC	8.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Kepone	5.5	U	ng/L
Lambda-Cyhalothrin	15	U	ng/L
Methoxychlor	4.0	U	ng/L
MGK-264	3.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Phenothrin	30	U	ng/L
Piperonyl Butoxide	1.5	U	ng/L
Prallethrin	25	U	ng/L
Tau-Fluvalinate	3.5	U	ng/L
Tetramethrin	8.0	U	ng/L
Trans-Nonachlor	1.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P392818

Component	Result	Code	Units
Triclosan Methyl	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8276

Batch ID: P392818

Component	Result	Code	Units
Chlordane	5.0	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: EPA 8321B

Batch ID: P392377

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

Reference Method: EPA 8321B

Batch ID: P392448

Component	Result	Code	Units
2,4-D	0.0020	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	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P392448

Component	Result	Code	Units
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P392508

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 2120 B-2011
Batch ID: P392456

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P392588

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

Reference Method: SM 2540 C-2011
Batch ID: P392809

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P392810

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P392811

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P392968

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P392969

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P392970

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P392590

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P392644

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P392543

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	98.1		P	85 - 115
Calcium	104		P	85 - 115
Iron	104		P	85 - 115
Magnesium	105		P	85 - 115
Manganese	99.1		P	85 - 115
Potassium	101		P	85 - 115
Sodium	103		P	85 - 115
Zinc	99.7		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P392543

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	94.5		P	85 - 115
Antimony	98.7		P	85 - 115
Arsenic	95.2		P	85 - 115
Beryllium	88.3		P	85 - 115
Boron	99.9		P	85 - 115
Cadmium	95.3		P	85 - 115
Chromium	101		P	85 - 115
Copper	92.5		P	85 - 115
Lead	97.5		P	85 - 115
Nickel	93.8		P	85 - 115
Selenium	94.8		P	85 - 115
Silver	102		P	85 - 115
Thallium	95.2		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P392675

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

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P392676

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P393175

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P393203

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P393179

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P392740

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P392741

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P392649

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P392719

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P392486

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.8		P	90 - 110

Reference Method: EPA 8270E

Batch ID: P392528

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	104	108	P/P	70 - 121
Alachlor	105	107	P/P	70 - 119
Ametryn	102	104	P/P	61 - 135
Atrazine	103	106	P/P	76 - 123
Atrazine Desethyl	84.1	88.1	P/P	35 - 140
Azinphos Methyl	160	130	P/P	57 - 163
Azoxystrobin	133	153	P/P	43 - 231
Bromacil	93.7	102	P/P	42 - 123
Butylate	63.3	66.8	P/P	34 - 92.0
Carbophenothion	77.9	83.0	P/P	61 - 121
Carfentrazone Ethyl	94.2	101	P/P	62 - 139
Chlorpyrifos Ethyl	86.2	89.3	P/P	67 - 121
Chlorpyrifos Methyl	93.1	95.0	P/P	67 - 120
Cyanazine	138	150	P/P	20 - 226
Demeton	90.0	93.0	P/P	35 - 125
Diazinon	98.1	104	P/P	70 - 122

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P392528

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Difenoconazole	159	171	P/P	56 - 186
Dimethenamid	95.1	101	P/P	67 - 119
Disulfoton	84.5	88.6	P/P	47 - 120
Dithiopyr	86.3	92.5	P/P	67 - 118
EPTC	65.8	64.7	P/P	33 - 90.0
Ethion	78.1	82.0	P/P	40 - 133
Ethoprop	91.8	94.3	P/P	61 - 121
Fenamiphos	96.9	103	P/P	31 - 139
Fenbuconazole	112	118	P/P	66 - 141
Fipronil	90.8	96.0	P/P	62 - 129
Fipronil Desulfinyl	93.2	97.4	P/P	59 - 126
Fipronil Sulfide	85.1	87.2	P/P	63 - 117
Fipronil Sulfone	89.6	94.0	P/P	57 - 117
Fluazifop-P-butyl	85.9	89.2	P/P	63 - 124
Fludioxonil	92.5	101	P/P	63 - 123
Flumioxazin	198	210	P/P	34 - 245
Flutolanil	86.5	91.8	P/P	56 - 131
Fluxapyroxad	70.0	78.0	P/P	57 - 117
Fonofos	92.4	94.1	P/P	61 - 116
Hexazinone	97.9	97.8	P/P	55 - 138
Imazalil	102	113	P/P	33 - 143
Iprodione	89.9	91.7	P/P	59 - 118
Malathion	109	113	P/P	62 - 138
Metalaxyl	102	109	P/P	24 - 147
Metolachlor	108	107	P/P	68 - 118
Metribuzin	94.3	111	P/P	20 - 239
Mevinphos	98.2	100	P/P	46 - 124
Molinate	79.5	82.2	P/P	46 - 100
Myclobutanil	93.3	96.1	P/P	32 - 149
Naled	52.0	50.0	P/P	32 - 95.0
Norflurazon	94.1	98.9	P/P	57 - 127
Oxadiazon	88.5	91.5	P/P	63 - 118
Oxyfluorfen	104	102	P/P	69 - 137
Parathion Ethyl	88.0	101	P/P	70 - 113
Parathion Methyl	112	112	P/P	71 - 130
Pendimethalin	73.3	79.3	P/P	55 - 118
Phorate	80.6	78.9	P/P	46 - 125
Prodiamine	54.8	57.6	P/P	20 - 141
Prometon	96.2	98.6	P/P	54 - 122
Prometryn	95.4	104	P/P	66 - 124
Pronamide	98.4	104	P/P	79 - 122
Propiconazole	87.2	93.0	P/P	61 - 126
Pyriproxyfen	84.0	83.8	P/P	52 - 131
Simazine	110	115	P/P	75 - 128
Sulfentrazone	80.7	89.6	P/P	20 - 132
Tebuconazole	60.0	61.9	P/P	20 - 116
Terbufos	81.9	85.2	P/P	61 - 117
Terbutylazine	101	107	P/P	74 - 116

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P392818

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	51.5	53.8	P/P	20 - 110
Alpha-BHC	83.2	80.3	P/P	58 - 130
Alpha-Chlordane	84.4	75.1	P/P	61 - 105
Beta-BHC	101	91.2	P/P	53 - 164
Beta-Cyfluthrin	76.6	62.1	P/P	40 - 140
Bifenthrin	77.3	58.7	P/P	44 - 122
Carbophenothion	82.4	74.3	P/P	20 - 161
Chlorothalonil	105	83.7	P/P	20 - 201
Cis-Nonachlor	89.6	79.1	P/P	60 - 110
Cypermethrin	92.0	76.7	P/P	43 - 131
Dacthal	93.9	83.6	P/P	76 - 108
DDD-p,p'	97.0	84.3	P/P	68 - 118
DDE-p,p'	86.9	74.9	P/P	56 - 107
DDT-p,p'	96.8	74.4	P/P	55 - 122
Delta-BHC	132	109	P/P	60 - 181
Deltamethrin	103	83.6	P/P	51 - 139
Dichlobenil	73.4	76.0	P/P	20 - 106
Dicofol	94.8	86.9	P/P	56 - 130
Dieldrin	78.1	75.5	P/P	58 - 112
Endosulfan I	86.7	77.2	P/P	68 - 115
Endosulfan II	95.5	92.6	P/P	69 - 133
Endosulfan Sulfate	89.3	84.3	P/P	65 - 126
Endrin	89.7	76.8	P/P	66 - 118
Endrin Aldehyde	54.2	64.5	F/P	60 - 132
Endrin Ketone	90.5	83.7	P/P	68 - 121
Esfenvalerate	84.9	68.2	P/P	42 - 116
Ethalfuralin	76.6	70.1	P/P	50 - 118
Fenpropathrin	102	89.2	P/P	55 - 132
Gamma-BHC	91.5	86.4	P/P	65 - 147
Gamma-Chlordane	81.8	71.6	P/P	56 - 103
Heptachlor	68.9	63.0	P/P	47 - 95.0
Heptachlor Epoxide	85.1	75.4	P/P	67 - 107
Hexachlorobenzene	67.7	63.3	P/P	45 - 99.0
Kepone	111	95.7	P/P	28 - 128
Lambda-Cyhalothrin	77.5	60.5	P/P	41 - 135
Methoxychlor	88.2	81.0	P/P	61 - 138
MGK-264	65.6	60.5	P/P	20 - 109
Mirex	66.6	53.9	P/P	36 - 92.0
Permethrin	78.0	66.0	P/P	45 - 111
Phenothrin	56.2	43.0	P/P	22 - 88.0
Piperonyl Butoxide	91.2	88.8	P/P	67 - 120
Prallethrin	67.4	61.7	P/P	28 - 92.0
Tau-Fluvalinate	91.9	69.0	P/P	38 - 145
Tetramethrin	131	110	P/P	29 - 150
Trans-Nonachlor	83.3	74.2	P/P	54 - 105
Triclosan Methyl	97.7	87.8	P/P	76 - 115
Trifluralin	75.8	70.5	P/P	53 - 111

Reference Method: EPA 8276
 Batch ID: P392818

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

Reference Method: EPA 8276
Batch ID: P392818

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	96.6	88.1	P/P	56 - 117
Toxaphene	77.7	72.9	P/P	45 - 116

Reference Method: EPA 8321B
Batch ID: P392377

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	77.5		P	30 - 160
Aldicarb	60.2		P	30 - 160
Aldicarb Sulfone	81.3		P	30 - 160
Aldicarb Sulfoxide	106		P	30 - 160
Carbaryl	49.0		P	30 - 160
Carbofuran	54.4		P	30 - 160
Methiocarb	60.1		P	30 - 160
Methomyl	77.2		P	30 - 160
Oxamyl	85.0		P	30 - 160
Propoxur	57.6		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P392448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	144		P	30 - 160
Acetaminophen	80.3		P	30 - 160
Acetamiprid	101		P	30 - 160
Afidopyropen	82.0		P	30 - 160
Bentazon	80.4		P	30 - 160
Benzovindiflupyr	81.1		P	30 - 160
Carbamazepine	74.1		P	30 - 160
Clothianidin	88.6		P	30 - 160
Dinotefuran	86.6		P	30 - 160
Diuron	54.3		P	30 - 160
Fenuron	81.9		P	30 - 160
Fluridone	83.2		P	30 - 160
Hydrocodone	83.7		P	30 - 160
Ibuprofen	83.3		P	30 - 160
Imazapyr	104		P	30 - 160
Imidacloprid	117		P	30 - 160
Linuron	67.8		P	30 - 160
Mandestrobin	83.1		P	30 - 160
MCPP	111		P	30 - 160
Naproxen	62.2		P	30 - 160
Primidone	97.9		P	30 - 160
Pyraclostrobin	74.7		P	30 - 160
Thiamethoxam	76.8		P	30 - 160
Tolfenpyrad	53.9		P	30 - 160
Triclopyr	126		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P392508

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

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P392508

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	77.5		P	40 - 150
AMPA	107		P	40 - 150
Endothall	97.1		P	40 - 150
Glufosinate	94.6		P	40 - 150
Glyphosate	102		P	40 - 140
Sucralose	95.3		P	40 - 150

Reference Method: SM 2120 B-2011
Batch ID: P392456

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

Reference Method: SM 2320 B-2011
Batch ID: P392588

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.6		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P392590

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.5		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P392644

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P392543

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219536	Barium	101		P	80 - 120
2219536	Calcium	106		P	80 - 120
2219536	Iron	105		P	80 - 120
2219536	Magnesium	106		P	80 - 120
2219536	Manganese	101		P	80 - 120
2219536	Potassium	99.7		P	80 - 120
2219536	Sodium	103		P	80 - 120
2219536	Zinc	103		P	80 - 120
2219539	Barium	101	98.7	P/P	80 - 120
2219539	Calcium	103		P	80 - 120
2219539	Iron	107	106	P/P	80 - 120
2219539	Magnesium	110	108	P/P	80 - 120
2219539	Manganese	102	99.6	P/P	80 - 120
2219539	Potassium	101	98.3	P/P	80 - 120
2219539	Sodium	101		P	80 - 120
2219539	Zinc	109	106	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P392543

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219536	Aluminum	93.4		P	80 - 120
2219536	Antimony	98.5		P	80 - 120
2219536	Arsenic	93.0		P	80 - 120
2219536	Beryllium	86.4		P	80 - 120
2219536	Boron	97.7		P	80 - 120
2219536	Cadmium	93.6		P	80 - 120
2219536	Chromium	101		P	80 - 120
2219536	Copper	92.0		P	80 - 120
2219536	Lead	98.8		P	80 - 120
2219536	Nickel	93.3		P	80 - 120
2219536	Selenium	91.1		P	80 - 120
2219536	Silver	102		P	80 - 120
2219536	Thallium	96.5		P	80 - 120
2219539	Aluminum	93.3	94.8	P/P	80 - 120
2219539	Antimony	98.7	98.4	P/P	80 - 120
2219539	Arsenic	93.1	93.3	P/P	80 - 120
2219539	Beryllium	89.8	87.9	P/P	80 - 120
2219539	Boron	98.5	99.2	P/P	80 - 120
2219539	Cadmium	91.0	91.5	P/P	80 - 120
2219539	Chromium	99.0	99.7	P/P	80 - 120
2219539	Copper	93.0	92.5	P/P	80 - 120
2219539	Lead	99.0	97.9	P/P	80 - 120
2219539	Nickel	93.5	93.0	P/P	80 - 120
2219539	Selenium	91.3	90.4	P/P	80 - 120
2219539	Silver	103	102	P/P	80 - 120
2219539	Thallium	96.7	96.8	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P392675

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P392675

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219267	Chloride	102		P	90 - 110
2219469	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P392676

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219267	Sulfate	104		P	90 - 110
2219469	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393175

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219268	Ammonia-N	97.2	97.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219479	Ammonia-N	101	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393179

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219476	Kjeldahl Nitrogen	107	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P392740

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219320	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P392741

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219601	NO2NO3-N	98.4	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P392649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219337	Total-P	106	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P392719

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219723	Total-P	106	105	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P392486

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219474	O-Phosphate-P	95.7	96.2	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P392528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219984	Acetochlor	115	99.7	P/P	66 - 122
2219984	Alachlor	111	93.5	P/P	65 - 122
2219984	Ametryn	114	100	P/P	45 - 173
2219984	Atrazine	113	95.6	P/P	70 - 134
2219984	Atrazine Desethyl	96.6	84.2	P/P	25 - 150
2219984	Azinphos Methyl	136	116	P/P	44 - 174
2219984	Azoxystrobin	157	141	P/P	10 - 268
2219984	Bromacil	107	91.3	P/P	31 - 145
2219984	Butylate	65.2	65.4	P/P	15 - 97.0
2219984	Carbophenothion	99.6	87.5	P/P	42 - 129
2219984	Carfentrazone Ethyl	107	91.8	P/P	62 - 145
2219984	Chlorpyrifos Ethyl	105	94.1	P/P	60 - 124
2219984	Chlorpyrifos Methyl	105	91.4	P/P	66 - 119
2219984	Cyanazine	155	139	P/P	17 - 225
2219984	Demeton	98.6	89.7	P/P	36 - 142
2219984	Diazinon	109	94.9	P/P	70 - 128
2219984	Difenoconazole	188	159	P/P	33 - 222
2219984	Dimethenamid	105	91.2	P/P	54 - 125
2219984	Disulfoton	96.8	85.6	P/P	49 - 133
2219984	Dithiopyr	109	89.0	P/P	55 - 123
2219984	EPTC	64.9	55.8	P/P	19 - 91.0
2219984	Ethion	85.9	72.6	P/P	13 - 143
2219984	Ethoprop	100	88.5	P/P	49 - 144
2219984	Fenamiphos	89.4	95.8	P/P	32 - 136
2219984	Fenbuconazole	121	108	P/P	73 - 148
2219984	Fipronil	108	90.2	P/P	57 - 129
2219984	Fipronil Desulfinyl	103	89.6	P/P	49 - 127
2219984	Fipronil Sulfide	99.9	85.3	P/P	44 - 127
2219984	Fipronil Sulfone	103	88.6	P/P	35 - 126
2219984	Fluazifop-P-butyl	111	88.5	P/P	67 - 129
2219984	Fludioxonil	108	93.7	P/P	61 - 126
2219984	Flumioxazin	245	210	P/P	38 - 279
2219984	Flutolanil	100	87.4	P/P	55 - 136
2219984	Fluxapyroxad	78.5	64.5	P/P	33 - 140
2219984	Fonofos	100	84.9	P/P	58 - 125
2219984	Hexazinone	112	95.1	P/P	57 - 148
2219984	Imazalil	111	102	P/P	10 - 221
2219984	Iprodione	98.3	86.1	P/P	32 - 140
2219984	Malathion	120	106	P/P	52 - 138
2219984	Metalaxyl	107	95.6	P/P	46 - 134
2219984	Metolachlor	119	98.8	P/P	58 - 122
2219984	Metribuzin	119	106	P/P	16 - 272
2219984	Mevinphos	102	89.5	P/P	45 - 140
2219984	Molinate	84.8	71.5	P/P	41 - 103
2219984	Myclobutanil	95.4	86.1	P/P	60 - 134
2219984	Naled	50.7	45.5	P/P	20 - 113

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P392528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219984	Norflurazon	104	87.3	P/P	51 - 123
2219984	Oxadiazon	106	90.5	P/P	44 - 125
2219984	Oxyfluorfen	114	92.6	P/P	66 - 176
2219984	Parathion Ethyl	98.9	97.2	P/P	57 - 132
2219984	Parathion Methyl	115	107	P/P	59 - 156
2219984	Pendimethalin	93.2	80.4	P/P	59 - 129
2219984	Phorate	88.6	80.9	P/P	47 - 136
2219984	Prodiamine	63.4	53.3	P/P	10 - 159
2219984	Prometon	107	93.9	P/P	59 - 127
2219984	Prometryn	113	91.2	P/P	59 - 129
2219984	Pronamide	109	98.9	P/P	65 - 145
2219984	Propiconazole	99.8	82.3	P/P	28 - 165
2219984	Pyriproxyfen	105	85.0	P/P	21 - 180
2219984	Simazine	121	94.1	P/P	63 - 147
2219984	Sulfentrazone	95.0	81.9	P/P	32 - 136
2219984	Tebuconazole	64.7	54.4	P/P	10 - 117
2219984	Terbufos	94.9	84.6	P/P	61 - 131
2219984	Terbutylazine	112	90.5	P/P	62 - 126

Reference Method: EPA 8270E

Batch ID: P392818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219529	Aldrin	49.8		P	22 - 127
2219529	Alpha-BHC	63.4		P	53 - 147
2219529	Alpha-Chlordane	47.3		F	56 - 107
2219529	Beta-BHC	59.6		P	43 - 182
2219529	Beta-Cyfluthrin	44.4		P	42 - 157
2219529	Bifenthrin	50.2		F	52 - 124
2219529	Carbophenothion	46.7		P	40 - 172
2219529	Chlorothalonil	74.1		P	10 - 265
2219529	Cis-Nonachlor	45.1		F	55 - 112
2219529	Cypermethrin	50.1		P	46 - 144
2219529	Dacthal	63.7		F	72 - 110
2219529	DDD-p,p'	47.9		F	58 - 123
2219529	DDE-p,p'	49.2		F	52 - 106
2219529	DDT-p,p'	47.2		F	50 - 127
2219529	Delta-BHC	80.2		P	56 - 222
2219529	Deltamethrin	60.7		P	47 - 152
2219529	Dichlobenil	51.6		P	22 - 99.0
2219529	Dicofol	60.6		P	38 - 145
2219529	Dieldrin	59.7		P	52 - 123
2219529	Endosulfan I	54.0		F	64 - 124
2219529	Endosulfan II	60.4		P	52 - 159
2219529	Endosulfan Sulfate	53.5		F	62 - 136
2219529	Endrin	52.9		F	57 - 126
2219529	Endrin Aldehyde	44.0		P	41 - 128
2219529	Endrin Ketone	64.8		F	67 - 129
2219529	Esfenvalerate	43.4		F	50 - 120
2219529	Ethalfuralin	51.5		P	41 - 125
2219529	Fenpropathrin	55.3		P	40 - 202
2219529	Gamma-BHC	85.9		P	58 - 180

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P392818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219529	Gamma-Chlordane	45.4		F	54 - 103
2219529	Heptachlor	45.0		F	46 - 94.0
2219529	Heptachlor Epoxide	52.6		F	62 - 111
2219529	Hexachlorobenzene	43.1		P	42 - 95.0
2219529	Kepone	47.9		P	18 - 138
2219529	Lambda-Cyhalothrin	46.5		P	37 - 162
2219529	Methoxychlor	53.3		P	52 - 143
2219529	MGK-264	54.5		P	37 - 102
2219529	Mirex	40.6		F	43 - 91.0
2219529	Permethrin	42.6		F	48 - 113
2219529	Phenothrin	38.0		P	30 - 104
2219529	Piperonyl Butoxide	74.9		P	67 - 127
2219529	Prallethrin	47.2		P	28 - 102
2219529	Tau-Fluvalinate	51.8		P	46 - 174
2219529	Tetramethrin	114		P	28 - 176
2219529	Trans-Nonachlor	46.3		F	51 - 103
2219529	Triclosan Methyl	55.3		F	67 - 116
2219529	Trifluralin	49.7		P	47 - 118

Reference Method: EPA 8276

Batch ID: P392818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219529	Chlordane	63.1		P	47 - 128
2219529	Toxaphene	61.4		P	11 - 163

Reference Method: EPA 8321B

Batch ID: P392377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219256	3-Hydroxycarbofuran	59.1	68.9	P/P	30 - 160
2219256	Aldicarb	50.5	35.8	P/P	30 - 160
2219256	Aldicarb Sulfone	82.9	78.5	P/P	30 - 160
2219256	Aldicarb Sulfoxide	37.4	35.7	P/P	30 - 160
2219256	Carbaryl	30.2	28.8	P/F	30 - 160
2219256	Carbofuran	31.5	30.6	P/P	30 - 160
2219256	Methiocarb	45.9	47.8	P/P	30 - 160
2219256	Methomyl	57.9	52.4	P/P	30 - 160
2219256	Oxamyl	59.6	69.2	P/P	30 - 160
2219256	Propoxur	31.1	32.1	P/P	30 - 160

Reference Method: EPA 8321B

Batch ID: P392448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219194	Acetaminophen	69.9	66.1	P/P	30 - 160
2219194	Acetamiprid	67.7	53.9	P/P	30 - 160
2219194	Afidopyropen	73.2	58.7	P/P	30 - 160
2219194	Benzovindiflupyr	68.1	62.2	P/P	30 - 160
2219194	Carbamazepine	56.2	52.8	P/P	30 - 160
2219194	Clothianidin	69.1	75.2	P/P	30 - 160
2219194	Dinotefuran	94.9	86.4	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P392448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219194	Diuron	37.5	34.5	P/P	30 - 160
2219194	Fenuron	50.3	48.0	P/P	30 - 160
2219194	Hydrocodone	70.2	67.0	P/P	30 - 160
2219194	Ibuprofen	90.3	87.2	P/P	30 - 160
2219194	Imidacloprid	120	122	P/P	30 - 160
2219194	Linuron	53.4	52.0	P/P	30 - 160
2219194	Mandestrobin	69.9	67.9	P/P	30 - 160
2219194	MCCP	77.5	75.7	P/P	30 - 160
2219194	Naproxen	66.2	62.8	P/P	30 - 160
2219194	Primidone	77.4	77.9	P/P	30 - 160
2219194	Pyraclostrobin	73.3	65.9	P/P	30 - 160
2219194	Thiamethoxam	78.3	75.1	P/P	30 - 160
2219194	Tolfenpyrad	53.6	55.5	P/P	30 - 160
2219194	Triclopyr	107	107	P/P	30 - 160

Reference Method: EPA 8321B

Batch ID: P392508

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219257	Acesulfame K	30.0	39.7	F/F	40 - 150
2219257	AMPA	73.8	98.7	P/P	40 - 150
2219257	Endothall	68.1	87.7	P/P	40 - 150
2219257	Glufosinate	60.7	82.1	P/P	40 - 150
2219257	Glyphosate	64.4	81.9	P/P	40 - 140
2219257	Sucralose	71.8	80.1	P/P	40 - 150

Reference Method: SM 4500 F-C-2011

Batch ID: P392590

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219336	Fluoride	97.9	97.9	P/P	94 - 107

Reference Method: SM 5310 B-2011

Batch ID: P392644

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2219337	Organic Carbon	101	100	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P392475

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219475	Turbidity	4.10	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P392543

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219539	Barium	2.38	Spike	P	0 - 20
2219539	Calcium	1.24	Spike	P	0 - 20
2219539	Iron	0.302	Spike	P	0 - 20
2219539	Magnesium	1.11	Spike	P	0 - 20
2219539	Manganese	2.28	Spike	P	0 - 20
2219539	Potassium	2.70	Spike	P	0 - 20
2219539	Sodium	2.92	Spike	P	0 - 20
2219539	Zinc	1.97	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P392543

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219539	Aluminum	1.50	Spike	P	0 - 20
2219539	Antimony	0.356	Spike	P	0 - 20
2219539	Arsenic	0.174	Spike	P	0 - 20
2219539	Beryllium	2.07	Spike	P	0 - 20
2219539	Boron	0.655	Spike	P	0 - 20
2219539	Cadmium	0.550	Spike	P	0 - 20
2219539	Chromium	0.790	Spike	P	0 - 20
2219539	Copper	0.574	Spike	P	0 - 20
2219539	Lead	1.09	Spike	P	0 - 20
2219539	Nickel	0.461	Spike	P	0 - 20
2219539	Selenium	0.926	Spike	P	0 - 20
2219539	Silver	1.26	Spike	P	0 - 20
2219539	Thallium	0.0904	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P392675

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219469	Chloride	0.489	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P392676

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219469	Sulfate	4.00	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393175

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219268	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P393203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219479	Ammonia-N	0.734	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P393179

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219476	Kjeldahl Nitrogen	3.64	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P392740

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219320	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P392741

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219601	NO2NO3-N	0.803	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P392649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219337	Total-P	0.940	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P392719

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219723	Total-P	1.39	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P392486

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219474	O-Phosphate-P	0.521	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P392528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219984	Acetochlor	14.3	Spike	P	0 - 30
2219984	Alachlor	16.8	Spike	P	0 - 30
2219984	Ametryn	13.2	Spike	P	0 - 30
2219984	Atrazine	13.9	Spike	P	0 - 30
2219984	Atrazine Desethyl	13.7	Spike	P	0 - 30
2219984	Azinphos Methyl	15.6	Spike	P	0 - 30
2219984	Azoxystrobin	11.1	Spike	P	0 - 30
2219984	Bromacil	15.4	Spike	P	0 - 30
2219984	Butylate	0.261	Spike	P	0 - 30
2219984	Carbophenothion	12.9	Spike	P	0 - 30
2219984	Carfentrazone Ethyl	15.5	Spike	P	0 - 30
2219984	Chlorpyrifos Ethyl	10.6	Spike	P	0 - 30
2219984	Chlorpyrifos Methyl	13.7	Spike	P	0 - 30
2219984	Cyanazine	10.9	Spike	P	0 - 30
2219984	Demeton	9.47	Spike	P	0 - 30
2219984	Diazinon	14.2	Spike	P	0 - 30
2219984	Difenoconazole	16.6	Spike	P	0 - 30
2219984	Dimethenamid	13.9	Spike	P	0 - 30
2219984	Disulfoton	12.2	Spike	P	0 - 30
2219984	Dithiopyr	20.2	Spike	P	0 - 30
2219984	EPTC	15.1	Spike	P	0 - 30
2219984	Ethion	16.8	Spike	P	0 - 30
2219984	Ethoprop	12.7	Spike	P	0 - 30
2219984	Fenamiphos	6.86	Spike	P	0 - 30
2219984	Fenbuconazole	12.0	Spike	P	0 - 30
2219984	Fipronil	18.3	Spike	P	0 - 30
2219984	Fipronil Desulfinyl	13.5	Spike	P	0 - 30
2219984	Fipronil Sulfide	15.7	Spike	P	0 - 30
2219984	Fipronil Sulfone	15.0	Spike	P	0 - 30
2219984	Fluazifop-P-butyl	22.7	Spike	P	0 - 30
2219984	Fludioxonil	13.7	Spike	P	0 - 30
2219984	Flumioxazin	15.6	Spike	P	0 - 30
2219984	Flutolanil	13.8	Spike	P	0 - 30
2219984	Fluxapyroxad	19.6	Spike	P	0 - 30
2219984	Fonofos	16.6	Spike	P	0 - 30
2219984	Hexazinone	14.9	Spike	P	0 - 30
2219984	Imazalil	8.39	Spike	P	0 - 30
2219984	Iprodione	13.3	Spike	P	0 - 30
2219984	Malathion	12.7	Spike	P	0 - 30
2219984	Metalaxyl	11.3	Spike	P	0 - 30
2219984	Metolachlor	18.7	Spike	P	0 - 30
2219984	Metribuzin	11.6	Spike	P	0 - 30
2219984	Mevinphos	13.4	Spike	P	0 - 30
2219984	Molinate	17.0	Spike	P	0 - 30
2219984	Myclobutanil	10.2	Spike	P	0 - 30
2219984	Naled	10.9	Spike	P	0 - 30
2219984	Norflurazon	17.1	Spike	P	0 - 30
2219984	Oxadiazon	16.0	Spike	P	0 - 30
2219984	Oxyfluorfen	20.4	Spike	P	0 - 30
2219984	Parathion Ethyl	1.72	Spike	P	0 - 30
2219984	Parathion Methyl	7.10	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P392528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219984	Pendimethalin	14.6	Spike	P	0 - 30
2219984	Phorate	9.06	Spike	P	0 - 30
2219984	Prodiamine	17.3	Spike	P	0 - 30
2219984	Prometon	13.3	Spike	P	0 - 30
2219984	Prometryn	21.7	Spike	P	0 - 30
2219984	Pronamide	9.90	Spike	P	0 - 30
2219984	Propiconazole	19.3	Spike	P	0 - 30
2219984	Pyriproxyfen	21.2	Spike	P	0 - 30
2219984	Simazine	12.5	Spike	P	0 - 30
2219984	Sulfentrazone	14.8	Spike	P	0 - 30
2219984	Tebuconazole	17.3	Spike	P	0 - 30
2219984	Terbufos	11.5	Spike	P	0 - 30
2219984	Terbuthylazine	21.4	Spike	P	0 - 30
LFB	Acetochlor	3.52	LCS	P	0 - 30
LFB	Alachlor	2.43	LCS	P	0 - 30
LFB	Ametryn	1.50	LCS	P	0 - 30
LFB	Atrazine	3.18	LCS	P	0 - 30
LFB	Atrazine Desethyl	4.64	LCS	P	0 - 30
LFB	Azinphos Methyl	20.3	LCS	P	0 - 30
LFB	Azoxystrobin	14.1	LCS	P	0 - 30
LFB	Bromacil	8.59	LCS	P	0 - 30
LFB	Butylate	5.28	LCS	P	0 - 30
LFB	Carbophenothion	6.32	LCS	P	0 - 30
LFB	Carfentrazone Ethyl	7.36	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	3.53	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	1.99	LCS	P	0 - 30
LFB	Cyanazine	8.25	LCS	P	0 - 30
LFB	Demeton	3.20	LCS	P	0 - 30
LFB	Diazinon	6.02	LCS	P	0 - 30
LFB	Difenoconazole	7.09	LCS	P	0 - 30
LFB	Dimethenamid	5.70	LCS	P	0 - 30
LFB	Disulfoton	4.66	LCS	P	0 - 30
LFB	Dithiopyr	6.92	LCS	P	0 - 30
LFB	EPTC	1.68	LCS	P	0 - 30
LFB	Ethion	4.90	LCS	P	0 - 30
LFB	Ethoprop	2.70	LCS	P	0 - 30
LFB	Fenamiphos	6.13	LCS	P	0 - 30
LFB	Fenbuconazole	5.89	LCS	P	0 - 30
LFB	Fipronil	5.63	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	4.46	LCS	P	0 - 30
LFB	Fipronil Sulfide	2.45	LCS	P	0 - 30
LFB	Fipronil Sulfone	4.74	LCS	P	0 - 30
LFB	Fluazifop-P-butyl	3.78	LCS	P	0 - 30
LFB	Fludioxonil	8.43	LCS	P	0 - 30
LFB	Flumioxazin	5.88	LCS	P	0 - 30
LFB	Flutolanil	5.88	LCS	P	0 - 30
LFB	Fluxapyroxad	10.8	LCS	P	0 - 30
LFB	Fonofos	1.79	LCS	P	0 - 30
LFB	Hexazinone	0.104	LCS	P	0 - 30
LFB	Imazalil	9.88	LCS	P	0 - 30
LFB	Iprodione	1.95	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P392528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Malathion	3.59	LCS	P	0 - 30
LFB	Metalaxyl	6.28	LCS	P	0 - 30
LFB	Metolachlor	1.29	LCS	P	0 - 30
LFB	Metribuzin	16.4	LCS	P	0 - 30
LFB	Mevinphos	2.15	LCS	P	0 - 30
LFB	Molinate	3.28	LCS	P	0 - 30
LFB	Myclobutanil	2.98	LCS	P	0 - 30
LFB	Naled	3.94	LCS	P	0 - 30
LFB	Norflurazon	4.97	LCS	P	0 - 30
LFB	Oxadiazon	3.35	LCS	P	0 - 30
LFB	Oxyfluorfen	1.97	LCS	P	0 - 30
LFB	Parathion Ethyl	13.3	LCS	P	0 - 30
LFB	Parathion Methyl	0.510	LCS	P	0 - 30
LFB	Pendimethalin	7.86	LCS	P	0 - 30
LFB	Phorate	2.12	LCS	P	0 - 30
LFB	Prodiamine	5.11	LCS	P	0 - 30
LFB	Prometon	2.52	LCS	P	0 - 30
LFB	Prometryn	9.01	LCS	P	0 - 30
LFB	Pronamide	5.50	LCS	P	0 - 30
LFB	Propiconazole	6.47	LCS	P	0 - 30
LFB	Pyriproxyfen	0.241	LCS	P	0 - 30
LFB	Simazine	4.90	LCS	P	0 - 30
LFB	Sulfentrazone	10.4	LCS	P	0 - 30
LFB	Tebuconazole	3.22	LCS	P	0 - 30
LFB	Terbufos	3.98	LCS	P	0 - 30
LFB	Terbutylazine	6.04	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P392818

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Aldrin	4.36	LCS	P	0 - 30
LFB	Alpha-BHC	3.60	LCS	P	0 - 30
LFB	Alpha-Chlordane	11.8	LCS	P	0 - 30
LFB	Beta-BHC	10.4	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	21.0	LCS	P	0 - 30
LFB	Bifenthrin	27.4	LCS	P	0 - 30
LFB	Carbophenothion	10.4	LCS	P	0 - 30
LFB	Chlorothalonil	22.9	LCS	P	0 - 30
LFB	Cis-Nonachlor	12.5	LCS	P	0 - 30
LFB	Cypermethrin	18.1	LCS	P	0 - 30
LFB	Dacthal	11.6	LCS	P	0 - 30
LFB	DDD-p,p'	13.9	LCS	P	0 - 30
LFB	DDE-p,p'	14.8	LCS	P	0 - 30
LFB	DDT-p,p'	26.2	LCS	P	0 - 30
LFB	Delta-BHC	19.0	LCS	P	0 - 30
LFB	Deltamethrin	20.8	LCS	P	0 - 30
LFB	Dichlobenil	3.50	LCS	P	0 - 30
LFB	Dicofol	8.74	LCS	P	0 - 30
LFB	Dieldrin	3.38	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P392818

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Endosulfan I	11.5	LCS	P	0 - 30
LFB	Endosulfan II	3.06	LCS	P	0 - 30
LFB	Endosulfan Sulfate	5.84	LCS	P	0 - 30
LFB	Endrin	15.5	LCS	P	0 - 30
LFB	Endrin Aldehyde	17.3	LCS	P	0 - 30
LFB	Endrin Ketone	7.82	LCS	P	0 - 30
LFB	Esfenvalerate	21.9	LCS	P	0 - 30
LFB	Ethalfuralin	8.81	LCS	P	0 - 30
LFB	Fenpropathrin	12.9	LCS	P	0 - 30
LFB	Gamma-BHC	5.70	LCS	P	0 - 30
LFB	Gamma-Chlordane	13.3	LCS	P	0 - 30
LFB	Heptachlor	8.93	LCS	P	0 - 30
LFB	Heptachlor Epoxide	12.1	LCS	P	0 - 30
LFB	Hexachlorobenzene	6.79	LCS	P	0 - 30
LFB	Kepone	14.6	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	24.6	LCS	P	0 - 30
LFB	Methoxychlor	8.58	LCS	P	0 - 30
LFB	MGK-264	8.14	LCS	P	0 - 30
LFB	Mirex	21.1	LCS	P	0 - 30
LFB	Permethrin	16.8	LCS	P	0 - 30
LFB	Phenothrin	26.6	LCS	P	0 - 30
LFB	Piperonyl Butoxide	2.73	LCS	P	0 - 30
LFB	Prallethrin	8.73	LCS	P	0 - 30
LFB	Tau-Fluvalinate	28.5	LCS	P	0 - 30
LFB	Tetramethrin	16.9	LCS	P	0 - 30
LFB	Trans-Nonachlor	11.7	LCS	P	0 - 30
LFB	Triclosan Methyl	10.7	LCS	P	0 - 30
LFB	Trifluralin	7.29	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P392818

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlordane	9.16	LCS	P	0 - 30
LFB	Toxaphene	6.35	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P392377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219256	3-Hydroxycarbofuran	15.2	Spike	P	0 - 30
2219256	Aldicarb	34.0	Spike	F	0 - 30
2219256	Aldicarb Sulfone	5.45	Spike	P	0 - 30
2219256	Aldicarb Sulfoxide	4.76	Spike	P	0 - 30
2219256	Carbaryl	4.83	Spike	P	0 - 30
2219256	Carbofuran	3.04	Spike	P	0 - 30
2219256	Methiocarb	4.11	Spike	P	0 - 30
2219256	Methomyl	9.87	Spike	P	0 - 30
2219256	Oxamyl	14.8	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P392377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219256	Propoxur	3.11	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P392448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219194	2,4-D	3.93	Spike	P	0 - 30
2219194	Acetaminophen	5.62	Spike	P	0 - 30
2219194	Acetamiprid	22.8	Spike	P	0 - 30
2219194	Afidopyropen	21.9	Spike	P	0 - 30
2219194	Bentazon	3.54	Spike	P	0 - 30
2219194	Benzovindiflupyr	9.10	Spike	P	0 - 30
2219194	Carbamazepine	6.21	Spike	P	0 - 30
2219194	Clothianidin	8.39	Spike	P	0 - 30
2219194	Dinotefuran	9.33	Spike	P	0 - 30
2219194	Diuron	7.53	Spike	P	0 - 30
2219194	Fenuron	4.78	Spike	P	0 - 30
2219194	Fluridone	1.55	Spike	P	0 - 30
2219194	Hydrocodone	4.64	Spike	P	0 - 30
2219194	Ibuprofen	3.39	Spike	P	0 - 30
2219194	Imazapyr	1.93	Spike	P	0 - 30
2219194	Imidacloprid	1.58	Spike	P	0 - 30
2219194	Linuron	2.68	Spike	P	0 - 30
2219194	Mandestrobin	2.94	Spike	P	0 - 30
2219194	MCPP	1.45	Spike	P	0 - 30
2219194	Naproxen	5.27	Spike	P	0 - 30
2219194	Primidone	0.635	Spike	P	0 - 30
2219194	Pyraclostrobin	10.5	Spike	P	0 - 30
2219194	Thiamethoxam	4.07	Spike	P	0 - 30
2219194	Tolfenpyrad	3.33	Spike	P	0 - 30
2219194	Triclopyr	0.577	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P392508

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219257	Acesulfame K	27.8	Spike	P	0 - 30
2219257	AMPA	28.9	Spike	P	0 - 30
2219257	Endothall	25.2	Spike	P	0 - 30
2219257	Glufosinate	29.9	Spike	P	0 - 30
2219257	Glyphosate	24.0	Spike	P	0 - 30
2219257	Sucralose	2.47	Spike	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P392456

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219335	Color (true)	9.87	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
 Batch ID: P392588

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219336	Total Alkalinity	0.582	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
 Batch ID: P392809

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2218942	TDS	3.31	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
 Batch ID: P392810

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219065	TDS	5.32	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
 Batch ID: P392811

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219600	TDS	3.66	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P392590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219336	Fluoride	0.0	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
 Batch ID: P392644

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2219337	Organic Carbon	0.447	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2219515
Field Sample ID: G5NW0068

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	39.2	P	30 - 160

Lab Sample ID: 2219516
Field Sample ID: G5NW0068

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	69.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	60.8	P	30 - 160
EPA 8321B	Diuron-d6	48.5	P	30 - 160
EPA 8321B	Endothall-d6	101	P	40 - 160
EPA 8321B	Endothall-d6	101	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	69.3	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	69.3	P	40 - 160
EPA 8321B	Ibuprofen-d3	83.4	P	30 - 160
EPA 8321B	Primidone-d5	83.8	P	30 - 160
EPA 8321B	Sucralose-d6	93.8	P	30 - 160
EPA 8321B	Sucralose-d6	93.8	P	30 - 160

Lab Sample ID: 2219517
Field Sample ID: FB 01142021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	45.6	P	30 - 160

Lab Sample ID: 2219518
Field Sample ID: FB 01142021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	120	P	30 - 160
EPA 8321B	Acetaminophen-d4	66.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	70.2	P	30 - 160
EPA 8321B	Diuron-d6	63.4	P	30 - 160
EPA 8321B	Endothall-d6	100	P	40 - 160
EPA 8321B	Endothall-d6	100	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	85.7	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	85.7	P	40 - 160
EPA 8321B	Ibuprofen-d3	73.2	P	30 - 160
EPA 8321B	Primidone-d5	83.7	P	30 - 160
EPA 8321B	Sucralose-d6	95.0	P	30 - 160
EPA 8321B	Sucralose-d6	95.0	P	30 - 160

Lab Sample ID: 2219529
Field Sample ID: G5NW0068

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	65.2	P	40 - 123
EPA 8270E	Decachlorobiphenyl	60.8	P	47 - 111
EPA 8270E	Tetrachloro-m-xylene	41.9	P	31 - 100
EPA 8270E	Tetrachloro-m-xylene	44.1	P	33 - 102
EPA 8276	Decachlorobiphenyl	46.7	P	29 - 92.0
EPA 8276	PCNB	77.5	P	43 - 134

Quality Assurance Report Surrogates

Lab Sample ID: 2219530
Field Sample ID: G5NW0068

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	98.7	P	73 - 135
EPA 8270E	Terbufos-d10	80.0	P	58 - 130

Lab Sample ID: 2219531
Field Sample ID: G5NW0161

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	41.6	P	40 - 123
EPA 8270E	Decachlorobiphenyl	90.7	P	47 - 111
EPA 8270E	Decachlorobiphenyl	43.4	F	47 - 111
EPA 8270E	Tetrachloro-m-xylene	36.6	P	31 - 100
EPA 8270E	Tetrachloro-m-xylene	65.7	P	33 - 102
EPA 8270E	Tetrachloro-m-xylene	34.4	P	33 - 102
EPA 8276	Decachlorobiphenyl	32.3	P	29 - 92.0
EPA 8276	PCNB	67.8	P	43 - 134

Lab Sample ID: 2219532
Field Sample ID: G4NW0415

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	61.6	P	40 - 123
EPA 8270E	Decachlorobiphenyl	54.0	P	47 - 111
EPA 8270E	Tetrachloro-m-xylene	49.6	P	31 - 100
EPA 8270E	Tetrachloro-m-xylene	49.0	P	33 - 102
EPA 8276	Decachlorobiphenyl	43.3	P	29 - 92.0
EPA 8276	PCNB	78.6	P	43 - 134

Lab Sample ID: 2219533
Field Sample ID: G4NW0429

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	59.1	P	40 - 123
EPA 8270E	Decachlorobiphenyl	66.3	P	47 - 111
EPA 8270E	Tetrachloro-m-xylene	40.8	P	31 - 100
EPA 8270E	Tetrachloro-m-xylene	38.6	P	33 - 102
EPA 8276	Decachlorobiphenyl	49.3	P	29 - 92.0
EPA 8276	PCNB	78.3	P	43 - 134

Lab Sample ID: 2219534
Field Sample ID: FB 01142021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	74.9	P	40 - 123
EPA 8270E	Decachlorobiphenyl	66.4	P	47 - 111
EPA 8270E	Tetrachloro-m-xylene	66.1	P	31 - 100
EPA 8270E	Tetrachloro-m-xylene	64.1	P	33 - 102
EPA 8276	Decachlorobiphenyl	54.3	P	29 - 92.0
EPA 8276	PCNB	93.0	P	43 - 134

Quality Assurance Report Surrogates

Lab Sample ID: 2219535
Field Sample ID: FB 01142021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	97.9	P	73 - 135
EPA 8270E	Terbufos-d10	77.7	P	58 - 130

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B-2011

Run ID: A103088

Included Lab Sample IDs: 2219472, 2219475, 2219478, 2219481

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.8	99.7	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A103090

Included Lab Sample IDs: 2219472, 2219475, 2219478, 2219481

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	102	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A103092

Included Lab Sample IDs: 2219474, 2219477, 2219480, 2219483

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.4	97.8	P/P	90 - 110
O-Phosphate-P	98.5	98.4	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A103130

Included Lab Sample IDs: 2219472, 2219475, 2219478, 2219481

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	92.4	96.2	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A103130

Included Lab Sample IDs: 2219472, 2219475, 2219478, 2219481

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	98.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A103136

Included Lab Sample IDs: 2219515, 2219517

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	115	118	P/P	60 - 150
Aldicarb	90.3	106	P/P	60 - 150
Aldicarb Sulfone	111	111	P/P	50 - 150
Aldicarb Sulfoxide	119	112	P/P	50 - 150
Carbaryl	111	113	P/P	60 - 150
Carbofuran	102	110	P/P	50 - 150
Methiocarb	114	102	P/P	50 - 150
Methomyl	109	112	P/P	50 - 150
Oxamyl	109	99.8	P/P	50 - 150
Propoxur	112	109	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A103143

Included Lab Sample IDs: 2219473, 2219476, 2219479, 2219482

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A103146

Included Lab Sample IDs: 2219536, 2219537, 2219538, 2219539, 2219540, 2219541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	101	97.8	P/P	90 - 110
Barium	97.8	98.5	P/P	90 - 110
Barium	99.7	101	P/P	95 - 105
Calcium	101	99.7	P/P	90 - 110
Calcium	103	101	P/P	90 - 110
Calcium	99.7	103	P/P	95 - 105
Iron	101	102	P/P	90 - 110
Iron	102	98.8	P/P	90 - 110
Iron	99.6	101	P/P	95 - 105
Magnesium	102	99.6	P/P	90 - 110
Magnesium	103	102	P/P	90 - 110
Magnesium	98.8	103	P/P	95 - 105
Manganese	101	101	P/P	90 - 110
Manganese	101	102	P/P	95 - 105
Manganese	102	101	P/P	90 - 110
Potassium	101	98.7	P/P	90 - 110
Potassium	98.7	96.3	P/P	90 - 110
Potassium	98.7	101	P/P	95 - 105
Sodium	101	102	P/P	95 - 105
Sodium	101	100	P/P	90 - 110
Sodium	102	101	P/P	90 - 110
Zinc	105	105	P/P	90 - 110
Zinc	105	107	P/P	90 - 110
Zinc	96.4	105	P/P	95 - 105

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A103154

Included Lab Sample IDs: 2219472, 2219475, 2219478, 2219481

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

Reference Method: EPA 8270E

Run ID: A103174

Included Lab Sample IDs: 2219530, 2219535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	99.5		P	80 - 120
Alachlor	94.8		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	99.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A103174

Included Lab Sample IDs: 2219530, 2219535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine Desethyl	102		P	80 - 120
Bromacil	108		P	80 - 120
Butylate	90.7		P	80 - 120
Carbophenothion	100		P	80 - 120
Carfentrazone Ethyl	95.5		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	97.9		P	80 - 120
Demeton	94.8		P	80 - 120
Diazinon	89.9		P	80 - 120
Dimethenamid	94.6		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	96.7		P	80 - 120
EPTC	95.4		P	80 - 120
Ethion	98.7		P	80 - 120
Ethoprop	102		P	80 - 120
Fenamiphos	94.0		P	80 - 120
Fenbuconazole	86.8		P	80 - 120
Fipronil	95.6		P	80 - 120
Fipronil Desulfinyl	99.9		P	80 - 120
Fipronil Sulfide	114		P	80 - 120
Fipronil Sulfone	118		P	80 - 120
Fluazifop-P-butyl	92.4		P	80 - 120
Fludioxonil	103		P	80 - 120
Flutolanil	97.5		P	80 - 120
Fonofos	105		P	80 - 120
Hexazinone	105		P	80 - 120
Imazalil	105		P	80 - 120
Iprodione	109		P	80 - 120
Malathion	96.3		P	80 - 120
Metaxyl	103		P	80 - 120
Metolachlor	98.8		P	80 - 120
Metribuzin	97.8		P	80 - 120
Mevinphos	89.6		P	80 - 120
Molinate	89.6		P	80 - 120
Myclobutanil	105		P	80 - 120
Naled	118		P	80 - 120
Norflurazon	98.6		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	102		P	80 - 120
Parathion Ethyl	90.8		P	80 - 120
Parathion Methyl	90.9		P	80 - 120
Pendimethalin	96.6		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	103		P	80 - 120
Prometon	89.3		P	80 - 120
Prometryn	95.6		P	80 - 120
Pronamide	88.7		P	80 - 120
Propiconazole	105		P	80 - 120
Simazine	96.4		P	80 - 120
Tebuconazole	106		P	80 - 120
Terbufos	92.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A103174

Included Lab Sample IDs: 2219530, 2219535

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

Reference Method: EPA 8321B

Run ID: A103179

Included Lab Sample IDs: 2219516, 2219518

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	70.1	63.0	P/P	60 - 160
AMPA	88.5	95.2	P/P	60 - 160
Endothall	90.1	97.6	P/P	60 - 160
Glufosinate	88.1	86.2	P/P	60 - 160
Glyphosate	79.7	99.3	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A103180

Included Lab Sample IDs: 2219473, 2219476, 2219479, 2219482

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

Reference Method: EPA 8321B

Run ID: A103185

Included Lab Sample IDs: 2219516, 2219518

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	105	110	P/P	50 - 150
2,4-D	110	90.4	P/P	50 - 150
Acetaminophen	74.3	87.3	P/P	60 - 160
Acetaminophen	87.3	79.4	P/P	60 - 160
Acetamiprid	104	93.5	P/P	50 - 150
Acetamiprid	93.5	90.3	P/P	50 - 150
Afidopyropen	93.1	93.7	P/P	50 - 150
Afidopyropen	93.7	91.2	P/P	50 - 150
Bentazon	101	95.3	P/P	50 - 160
Bentazon	95.3	102	P/P	50 - 160
Benzovindiflupyr	101	93.9	P/P	50 - 160
Benzovindiflupyr	105	101	P/P	50 - 160
Carbamazepine	102	94.2	P/P	60 - 150
Carbamazepine	102	102	P/P	60 - 150
Clothianidin	91.3	98.1	P/P	60 - 150
Clothianidin	98.1	91.8	P/P	60 - 150
Dinotefuran	89.6	84.5	P/P	50 - 150
Dinotefuran	93.2	89.6	P/P	50 - 150
Diuron	99.3	99.3	P/P	60 - 160
Diuron	99.3	93.0	P/P	60 - 160
Fenuron	83.2	80.8	P/P	60 - 150
Fenuron	90.9	83.2	P/P	60 - 150
Fluridone	105	99.5	P/P	60 - 160
Fluridone	99.5	86.2	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A103185

Included Lab Sample IDs: 2219516, 2219518

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hydrocodone	91.5	86.9	P/P	60 - 150
Hydrocodone	99.9	91.5	P/P	60 - 150
Ibuprofen	81.9	85.6	P/P	50 - 160
Ibuprofen	85.6	63.5	P/P	50 - 160
Imazapyr	103	103	P/P	50 - 160
Imazapyr	103	86.5	P/P	50 - 160
Imidacloprid	100	101	P/P	60 - 150
Imidacloprid	101	96.8	P/P	60 - 150
Linuron	100	87.6	P/P	60 - 150
Linuron	95.3	100	P/P	60 - 150
Mandestrobin	111	109	P/P	50 - 150
Mandestrobin	114	111	P/P	50 - 150
MCPP	111	100	P/P	50 - 150
MCPP	115	111	P/P	50 - 150
Naproxen	100	88.4	P/P	50 - 160
Naproxen	88.4	72.7	P/P	50 - 160
Primidone	97.7	98.0	P/P	60 - 150
Primidone	98.0	92.0	P/P	60 - 150
Pyraclostrobin	95.5	91.4	P/P	60 - 150
Pyraclostrobin	98.8	95.5	P/P	60 - 150
Thiamethoxam	83.4	79.1	P/P	50 - 150
Thiamethoxam	86.8	83.4	P/P	50 - 150
Tolfenpyrad	123	126	P/P	60 - 150
Tolfenpyrad	126	126	P/P	60 - 150
Triclopyr	112	106	P/P	50 - 150
Triclopyr	127	112	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A103189

Included Lab Sample IDs: 2219516, 2219518

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	91.3	93.0	P/P	60 - 160
Sucralose	91.4	91.3	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A103211

Included Lab Sample IDs: 2219473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.5	97.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A103218

Included Lab Sample IDs: 2219476, 2219479, 2219482

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	96.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A103222

Included Lab Sample IDs: 2219536, 2219537, 2219538, 2219539, 2219540, 2219541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.2	97.0	P/P	90 - 110
Aluminum	97.9	97.2	P/P	90 - 110
Aluminum	98.7	97.9	P/P	90 - 110
Antimony	98.3	99.4	P/P	90 - 110
Antimony	98.5	97.7	P/P	90 - 110
Antimony	99.4	98.5	P/P	90 - 110
Arsenic	96.3	94.4	P/P	90 - 110
Arsenic	96.6	97.2	P/P	90 - 110
Arsenic	97.2	96.3	P/P	90 - 110
Beryllium	92.0	90.4	P/P	90 - 110
Beryllium	92.3	92.0	P/P	90 - 110
Beryllium	93.0	92.3	P/P	90 - 110
Boron	106	108	P/P	90 - 110
Boron	106	106	P/P	90 - 110
Boron	110	106	P/P	90 - 110
Chromium	102	102	P/P	90 - 110
Chromium	104	105	P/P	90 - 110
Chromium	105	102	P/P	90 - 110
Copper	93.8	95.0	P/P	90 - 110
Copper	95.0	93.9	P/P	90 - 110
Copper	95.0	95.0	P/P	90 - 110
Lead	98.8	98.2	P/P	90 - 110
Lead	99.4	100	P/P	90 - 110
Lead	100	98.8	P/P	90 - 110
Nickel	94.7	94.2	P/P	90 - 110
Nickel	95.3	96.3	P/P	90 - 110
Nickel	96.3	94.7	P/P	90 - 110
Selenium	95.8	95.3	P/P	90 - 110
Selenium	97.3	95.8	P/P	90 - 110
Selenium	98.3	97.3	P/P	90 - 110
Silver	104	104	P/P	90 - 110
Silver	104	104	P/P	90 - 110
Silver	104	104	P/P	90 - 110
Thallium	101	99.9	P/P	90 - 110
Thallium	101	101	P/P	90 - 110
Thallium	99.8	101	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A103230

Included Lab Sample IDs: 2219529, 2219531, 2219532, 2219533, 2219534

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	84.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A103250

Included Lab Sample IDs: 2219536, 2219537, 2219538, 2219539, 2219540, 2219541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cadmium	95.2	93.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A103250

Included Lab Sample IDs: 2219536, 2219537, 2219538, 2219539, 2219540, 2219541

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cadmium	95.6	95.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A103307

Included Lab Sample IDs: 2219529, 2219531, 2219532, 2219533, 2219534

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	98.1		P	80 - 120
Beta-BHC	110		P	80 - 120
Beta-Cyfluthrin	85.6		P	80 - 120
Bifenthrin	99.8		P	80 - 120
Carbophenothion	99.3		P	80 - 120
Chlorothalonil	107		P	80 - 120
Cis-Nonachlor	97.3		P	80 - 120
Cypermethrin	99.5		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	102		P	80 - 120
DDE-p,p'	90.2		P	80 - 120
DDT-p,p'	98.4		P	80 - 120
Delta-BHC	98.6		P	80 - 120
Deltamethrin	102		P	80 - 120
Dichlobenil	97.6		P	80 - 120
Dicofol	96.0		P	80 - 120
Endosulfan I	96.6		P	80 - 120
Endosulfan II	111		P	80 - 120
Endosulfan Sulfate	105		P	80 - 120
Endrin	98.9		P	80 - 120
Endrin Aldehyde	97.6		P	80 - 120
Endrin Ketone	100		P	80 - 120
Esfenvalerate	89.6		P	80 - 120
Ethalfuralin	99.1		P	80 - 120
Fenpropathrin	99.6		P	80 - 120
Gamma-BHC	102		P	80 - 120
Gamma-Chlordane	97.7		P	80 - 120
Heptachlor	95.7		P	80 - 120
Heptachlor Epoxide	98.4		P	80 - 120
Hexachlorobenzene	96.3		P	80 - 120
Lambda-Cyhalothrin	97.4		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	99.7		P	80 - 120
Mirex	100		P	80 - 120
Permethrin	95.7		P	80 - 120
Phenothrin	93.3		P	80 - 120
Piperonyl Butoxide	93.1		P	80 - 120
Prallethrin	88.1		P	80 - 120
Tau-Fluvalinate	102		P	80 - 120
Tetramethrin	108		P	80 - 120
Trans-Nonachlor	99.1		P	80 - 120
Triclosan Methyl	98.4		P	80 - 120
Trifluralin	98.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A103310

Included Lab Sample IDs: 2219529, 2219531, 2219532, 2219533, 2219534

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.8		P	80 - 120
Dieldrin	97.1		P	80 - 120
Kepone	64.2*		F	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A103329

Included Lab Sample IDs: 2219473

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.0	96.6	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A103335

Included Lab Sample IDs: 2219530, 2219535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azinphos Methyl	120*		F	80 - 120
Azoxystrobin	82.6		P	80 - 120
Cyanazine	88.0		P	80 - 120
Difenoconazole	89.3		P	80 - 120
Flumioxazin	88.9		P	80 - 120
Fluxapyroxad	95.0		P	80 - 120
Pyriproxyfen	116		P	80 - 120
Sulfentrazone	98.5		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A103348

Included Lab Sample IDs: 2219476, 2219479, 2219482

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A103349

Included Lab Sample IDs: 2219473, 2219476, 2219479, 2219482

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	96.5	P/P	90 - 110
Kjeldahl Nitrogen	96.5	96.0	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						4.10	
EPA 200.7 Rev. 4.4	Barium	98.1		101	101	98.7		2.38
	Calcium	104		106	103			1.24
	Iron	104		105	107	106		0.302
	Magnesium	105		106	110	108		1.11
	Manganese	99.1		101	102	99.6		2.28
	Potassium	101		99.7	101	98.3		2.70
	Sodium	103		103	101			2.92
	Zinc	99.7		103	109	106		1.97
EPA 200.8 Rev. 5.4	Aluminum	94.5		93.3	94.8	93.4		1.50
	Antimony	98.7		98.7	98.4	98.5		0.356
	Arsenic	95.2		93.1	93.3	93.0		0.174
	Beryllium	88.3		89.8	87.9	86.4		2.07
	Boron	99.9		98.5	99.2	97.7		0.655
	Cadmium	95.3		91.0	91.5	93.6		0.550
	Chromium	101		99.0	99.7	101		0.790
	Copper	92.5		93.0	92.5	92.0		0.574
	Lead	97.5		99.0	97.9	98.8		1.09
	Nickel	93.8		93.5	93.0	93.3		0.461
	Selenium	94.8		91.3	90.4	91.1		0.926
	Silver	102		103	102	102		1.26
	Thallium	95.2		96.7	96.8	96.5		0.0904
EPA 300.0 Rev. 2.1	Chloride	101		103	102		0.489	
	Sulfate	103		104	104		4.00	
EPA 350.1 Rev. 2.0	Ammonia-N	98.6		97.2	97.2			0.0
	Ammonia-N	102		101	100			0.734
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		107	103			3.64
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100		102	102			0.0
	NO ₂ NO ₃ -N	102		98.4	99.4			0.803
EPA 365.1 Rev. 2.0	Total-P	106		106	107			0.940
	Total-P	104		106	105			1.39
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.8		95.7	96.2			0.521
EPA 8270E	Acetochlor	108	104	115	99.7	3.52		14.3
	Alachlor	107	105	111	93.5	2.43		16.8
	Aldrin	51.5	53.8	49.8		4.36		
	Alpha-BHC	83.2	80.3	63.4		3.60		
	Alpha-Chlordane	84.4	75.1	47.3		11.8		
	Ametryn	104	102	114	100	1.50		13.2
	Atrazine	106	103	113	95.6	3.18		13.9
	Atrazine Desethyl	88.1	84.1	96.6	84.2	4.64		13.7
	Azinphos Methyl	160	130	136	116	20.3		15.6
	Azoxystrobin	133	153	157	141	14.1		11.1
	Beta-BHC	101	91.2	59.6		10.4		
	Beta-Cyfluthrin	76.6	62.1	44.4		21.0		
	Bifenthrin	77.3	58.7	50.2		27.4		
	Bromacil	93.7	102	107	91.3	8.59		15.4
	Butylate	63.3	66.8	65.2	65.4	5.28		0.261
	Carbophenothion	83.0	77.9	99.6	87.5	6.32		12.9
	Carbophenothion	82.4	74.3	46.7		10.4		
	Carfentrazone Ethyl	101	94.2	107	91.8	7.36		15.5
	Chlorothalonil	105	83.7	74.1		22.9		
	Chlorpyrifos Ethyl	89.3	86.2	105	94.1	3.53		10.6
	Chlorpyrifos Methyl	95.0	93.1	105	91.4	1.99		13.7
	Cis-Nonachlor	89.6	79.1	45.1		12.5		

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 8270E	Cyanazine	138	150	155	139	8.25		10.9
	Cypermethrin	92.0	76.7	50.1		18.1		
	Dacthal	93.9	83.6	63.7		11.6		
	DDD-p,p'	97.0	84.3	47.9		13.9		
	DDE-p,p'	86.9	74.9	49.2		14.8		
	DDT-p,p'	96.8	74.4	47.2		26.2		
	Delta-BHC	132	109	80.2		19.0		
	Deltamethrin	103	83.6	60.7		20.8		
	Demeton	93.0	90.0	98.6	89.7	3.20		9.47
	Diazinon	104	98.1	109	94.9	6.02		14.2
	Dichlobenil	73.4	76.0	51.6		3.50		
	Dicofol	94.8	86.9	60.6		8.74		
	Dieldrin	78.1	75.5	59.7		3.38		
	Difenoconazole	159	171	188	159	7.09		16.6
	Dimethenamid	101	95.1	105	91.2	5.70		13.9
	Disulfoton	88.6	84.5	96.8	85.6	4.66		12.2
	Dithiopyr	92.5	86.3	109	89.0	6.92		20.2
	Endosulfan I	86.7	77.2	54.0		11.5		
	Endosulfan II	95.5	92.6	60.4		3.06		
	Endosulfan Sulfate	89.3	84.3	53.5		5.84		
	Endrin	89.7	76.8	52.9		15.5		
	Endrin Aldehyde	54.2	64.5	44.0		17.3		
	Endrin Ketone	90.5	83.7	64.8		7.82		
	EPTC	64.7	65.8	64.9	55.8	1.68		15.1
	Esfenvalerate	84.9	68.2	43.4		21.9		
	Ethalfuralin	76.6	70.1	51.5		8.81		
	Ethion	82.0	78.1	85.9	72.6	4.90		16.8
	Ethoprop	94.3	91.8	100	88.5	2.70		12.7
	Fenamiphos	103	96.9	89.4	95.8	6.13		6.86
	Fenbuconazole	118	112	121	108	5.89		12.0
	Fenpropathrin	102	89.2	55.3		12.9		
	Fipronil	96.0	90.8	108	90.2	5.63		18.3
	Fipronil Desulfinyl	97.4	93.2	103	89.6	4.46		13.5
	Fipronil Sulfide	87.2	85.1	99.9	85.3	2.45		15.7
	Fipronil Sulfone	94.0	89.6	103	88.6	4.74		15.0
	Fluazifop-P-butyl	89.2	85.9	111	88.5	3.78		22.7
	Fludioxonil	101	92.5	108	93.7	8.43		13.7
	Flumioxazin	198	210	245	210	5.88		15.6
	Flutolanil	91.8	86.5	100	87.4	5.88		13.8
	Fluxapyroxad	70.0	78.0	78.5	64.5	10.8		19.6
	Fonofos	94.1	92.4	100	84.9	1.79		16.6
	Gamma-BHC	91.5	86.4	85.9		5.70		
	Gamma-Chlordane	81.8	71.6	45.4		13.3		
	Heptachlor	68.9	63.0	45.0		8.93		
	Heptachlor Epoxide	85.1	75.4	52.6		12.1		
	Hexachlorobenzene	67.7	63.3	43.1		6.79		
	Hexazinone	97.8	97.9	112	95.1	0.104		14.9
	Imazalil	113	102	111	102	9.88		8.39
	Iprodione	91.7	89.9	98.3	86.1	1.95		13.3
	Kepone	111	95.7	47.9		14.6		
	Lambda-Cyhalothrin	77.5	60.5	46.5		24.6		
	Malathion	113	109	120	106	3.59		12.7
	Metalaxyl	109	102	107	95.6	6.28		11.3
	Methoxychlor	88.2	81.0	53.3		8.58		

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Metolachlor	107	108	119	98.8	1.29		18.7
	Metribuzin	111	94.3	119	106	16.4		11.6
	Mevinphos	100	98.2	102	89.5	2.15		13.4
	MGK-264	65.6	60.5	54.5		8.14		
	Mirex	66.6	53.9	40.6		21.1		
	Molinate	82.2	79.5	84.8	71.5	3.28		17.0
	Myclobutanil	96.1	93.3	95.4	86.1	2.98		10.2
	Naled	50.0	52.0	50.7	45.5	3.94		10.9
	Norflurazon	98.9	94.1	104	87.3	4.97		17.1
	Oxadiazon	91.5	88.5	106	90.5	3.35		16.0
	Oxyfluorfen	102	104	114	92.6	1.97		20.4
	Parathion Ethyl	101	88.0	98.9	97.2	13.3		1.72
	Parathion Methyl	112	112	115	107	0.510		7.10
	Pendimethalin	79.3	73.3	93.2	80.4	7.86		14.6
	Permethrin	78.0	66.0	42.6		16.8		
	Phenothrin	56.2	43.0	38.0		26.6		
	Phorate	78.9	80.6	88.6	80.9	2.12		9.06
	Piperonyl Butoxide	91.2	88.8	74.9		2.73		
	Prallethrin	67.4	61.7	47.2		8.73		
	Prodiamine	57.6	54.8	63.4	53.3	5.11		17.3
	Prometon	98.6	96.2	107	93.9	2.52		13.3
	Prometryn	95.4	104	113	91.2	9.01		21.7
	Pronamide	98.4	104	109	98.9	5.50		9.90
	Propiconazole	87.2	93.0	99.8	82.3	6.47		19.3
	Pyriproxyfen	84.0	83.8	105	85.0	0.241		21.2
	Simazine	110	115	121	94.1	4.90		12.5
	Sulfentrazone	80.7	89.6	95.0	81.9	10.4		14.8
	Tau-Fluvalinate	91.9	69.0	51.8		28.5		
	Tebuconazole	60.0	61.9	64.7	54.4	3.22		17.3
	Terbufos	81.9	85.2	94.9	84.6	3.98		11.5
	Terbuthylazine	101	107	112	90.5	6.04		21.4
	Tetramethrin	131	110	114		16.9		
	Trans-Nonachlor	83.3	74.2	46.3		11.7		
	Triclosan Methyl	97.7	87.8	55.3		10.7		
	Trifluralin	75.8	70.5	49.7		7.29		
EPA 8276	Chlordane	96.6	88.1	63.1		9.16		
	Toxaphene	77.7	72.9	61.4		6.35		
EPA 8321B	2,4-D	144						3.93
	3-Hydroxycarbofuran	77.5		59.1	68.9			15.2
	Acesulfame K	77.5		30.0	39.7			27.8
	Acetaminophen	80.3		69.9	66.1			5.62
	Acetamiprid	101		67.7	53.9			22.8
	Afidopyropen	82.0		73.2	58.7			21.9
	Aldicarb	60.2		50.5	35.8			34.0
	Aldicarb Sulfone	81.3		82.9	78.5			5.45
	Aldicarb Sulfoxide	106		37.4	35.7			4.76
	AMPA	107		73.8	98.7			28.9
	Bentazon	80.4						3.54
	Benzovindiflupyr	81.1		68.1	62.2			9.10
	Carbamazepine	74.1		56.2	52.8			6.21
	Carbaryl	49.0		30.2	28.8			4.83
	Carbofuran	54.4		31.5	30.6			3.04
	Clothianidin	88.6		69.1	75.2			8.39
	Dinotefuran	86.6		94.9	86.4			9.33

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
			LCS	SMP	MS	
EPA 8321B	Diuron	54.3	37.5	34.5		7.53
	Endothall	97.1	68.1	87.7		25.2
	Fenuron	81.9	50.3	48.0		4.78
	Fluridone	83.2				1.55
	Glufosinate	94.6	60.7	82.1		29.9
	Glyphosate	102	64.4	81.9		24.0
	Hydrocodone	83.7	70.2	67.0		4.64
	Ibuprofen	83.3	90.3	87.2		3.39
	Imazapyr	104				1.93
	Imidacloprid	117	120	122		1.58
	Linuron	67.8	53.4	52.0		2.68
	Mandestrobin	83.1	69.9	67.9		2.94
	MCPPP	111	77.5	75.7		1.45
	Methiocarb	60.1	45.9	47.8		4.11
	Methomyl	77.2	57.9	52.4		9.87
	Naproxen	62.2	66.2	62.8		5.27
	Oxamyl	85.0	59.6	69.2		14.8
	Primidone	97.9	77.4	77.9		0.635
	Propoxur	57.6	31.1	32.1		3.11
	Pyraclostrobin	74.7	73.3	65.9		10.5
	Sucralose	95.3	71.8	80.1		2.47
	Thiamethoxam	76.8	78.3	75.1		4.07
	Tolfenpyrad	53.9	53.6	55.5		3.33
	Triclopyr	126	107	107		0.577
SM 2120 B-2011	Color (true)	100			9.87	
SM 2320 B-2011	Total Alkalinity	95.6			0.582	
SM 2540 C-2011	TDS				3.31	
	TDS				5.32	
	TDS				3.66	
SM 4500 F-C-2011	Fluoride	97.5	97.9	97.9		0.0
SM 5310 B-2011	Organic Carbon	101	101	100		0.447

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2219472, 2219475, 2219478, 2219481
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2219536, 2219537, 2219538, 2219539, 2219540, 2219541
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2219536, 2219537, 2219538, 2219539, 2219540, 2219541
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2219472, 2219475, 2219478, 2219481
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2219472, 2219475, 2219478, 2219481
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2219473, 2219476, 2219479, 2219482
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2219473, 2219476, 2219479, 2219482
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2219473, 2219476, 2219479, 2219482
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2219473, 2219476, 2219479, 2219482
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2219474, 2219477, 2219480, 2219483
EPA 8270E	Dieldrin (ultra low level) in water matrices by GC/MS/MS	2219529, 2219531, 2219532, 2219533, 2219534
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS-SIM	2219529, 2219531, 2219532, 2219533, 2219534
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2219530, 2219535

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2219529, 2219531, 2219532, 2219533, 2219534
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2219515, 2219517
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2219516, 2219518
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2219516, 2219518
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2219472, 2219475, 2219478, 2219481
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2219472, 2219475, 2219478, 2219481
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2219536, 2219537, 2219538, 2219539, 2219540, 2219541
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2219472, 2219475, 2219478, 2219481
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2219472, 2219475, 2219478, 2219481
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2219472, 2219475, 2219478, 2219481
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2219473, 2219476, 2219479, 2219482

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	01/15/2021			01/15/2021 14:50	Yen Ta	2219472, 2219475, 2219478, 2219481
EPA 200.7 Rev. 4.4	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/20/2021 12:12	Betina Topolski	2219541
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/20/2021 13:41	Betina Topolski	2219536
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/20/2021 14:04	Betina Topolski	2219537
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/20/2021 14:12	Betina Topolski	2219538
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/20/2021 14:47	Betina Topolski	2219539
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/20/2021 15:19	Betina Topolski	2219540
EPA 200.8 Rev. 5.4	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/25/2021 19:29	Alexander Thompson	2219541
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/25/2021 20:43	Alexander Thompson	2219537
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/25/2021 20:51	Alexander Thompson	2219538
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/25/2021 20:58	Alexander Thompson	2219540
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/25/2021 21:05	Alexander Thompson	2219539
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/25/2021 22:27	Alexander Thompson	2219536
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/26/2021 14:49	Alexander Thompson	2219541
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/26/2021 15:07	Alexander Thompson	2219539
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/26/2021 15:53	Alexander Thompson	2219537
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/26/2021 15:58	Alexander Thompson	2219538
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/26/2021 16:02	Alexander Thompson	2219540
	01/15/2021	01/19/2021 15:45	Elliott D. Healy	01/26/2021 16:12	Alexander Thompson	2219536
EPA 300.0 Rev. 2.1	01/15/2021			01/20/2021 19:44	Lipi Saha	2219472
	01/15/2021			01/20/2021 19:56	Lipi Saha	2219475
	01/15/2021			01/20/2021 20:08	Lipi Saha	2219478
	01/15/2021			01/20/2021 20:44	Lipi Saha	2219481
EPA 350.1 Rev. 2.0	01/15/2021			01/31/2021 15:49	Ping Hua	2219473
	01/15/2021			02/01/2021 17:39	Ping Hua	2219479
	01/15/2021			02/01/2021 17:45	Ping Hua	2219476
	01/15/2021			02/01/2021 17:49	Ping Hua	2219482
EPA 351.2 Rev. 2.0	01/15/2021	02/01/2021 09:53	Yen Ta	02/01/2021 18:31	Julia Storbeck	2219476
	01/15/2021	02/01/2021 09:53	Yen Ta	02/01/2021 18:39	Julia Storbeck	2219473
	01/15/2021	02/01/2021 09:53	Yen Ta	02/01/2021 18:41	Julia Storbeck	2219479
	01/15/2021	02/01/2021 09:53	Yen Ta	02/01/2021 18:42	Julia Storbeck	2219482
EPA 353.2 Rev. 2.0	01/15/2021			01/22/2021 09:42	Beverly Y. Sanders	2219473
	01/15/2021			01/22/2021 09:43	Beverly Y. Sanders	2219476
	01/15/2021			01/22/2021 09:58	Beverly Y. Sanders	2219482
	01/15/2021			01/22/2021 11:02	Beverly Y. Sanders	2219479
EPA 365.1 Rev. 2.0	01/15/2021	01/20/2021 18:21	Madeline Gruver	01/25/2021 13:01	Shengyu Wang	2219473
	01/15/2021	01/21/2021 17:45	Madeline Gruver	01/25/2021 14:54	Shengyu Wang	2219476
	01/15/2021	01/21/2021 17:45	Madeline Gruver	01/25/2021 14:55	Shengyu Wang	2219479
	01/15/2021	01/21/2021 17:45	Madeline Gruver	01/25/2021 14:56	Shengyu Wang	2219482
EPA 365.1 Rev. 2.0 dissolved	01/15/2021			01/15/2021 17:28	Ping Hua	2219474

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 365.1 Rev. 2.0 dissolved	01/15/2021			01/15/2021 17:36	Ping Hua	2219477
	01/15/2021			01/15/2021 17:37	Ping Hua	2219480
	01/15/2021			01/15/2021 17:38	Ping Hua	2219483
EPA 8270E	01/15/2021	01/20/2021 08:00	Julie Wi	01/26/2021 19:26	Julie Wi	2219529
	01/15/2021	01/20/2021 08:00	Julie Wi	01/26/2021 19:58	Julie Wi	2219531
	01/15/2021	01/20/2021 08:00	Julie Wi	01/26/2021 20:30	Julie Wi	2219532
	01/15/2021	01/20/2021 08:00	Julie Wi	01/26/2021 21:02	Julie Wi	2219533
	01/15/2021	01/20/2021 08:00	Julie Wi	01/26/2021 21:34	Julie Wi	2219534
	01/15/2021	01/20/2021 08:00	Julie Wi	01/28/2021 14:34	Michael Poppell	2219529
	01/15/2021	01/20/2021 08:00	Julie Wi	01/28/2021 14:57	Michael Poppell	2219531
	01/15/2021	01/20/2021 08:00	Julie Wi	01/28/2021 15:20	Michael Poppell	2219532
	01/15/2021	01/20/2021 08:00	Julie Wi	01/28/2021 15:43	Michael Poppell	2219533
	01/15/2021	01/20/2021 08:00	Julie Wi	01/28/2021 16:05	Michael Poppell	2219534
	01/15/2021	01/20/2021 08:00	Rasheda Ghaffari	01/21/2021 17:36	Vandana T. Nagar	2219530
	01/15/2021	01/20/2021 08:00	Rasheda Ghaffari	01/21/2021 18:00	Vandana T. Nagar	2219535
	01/15/2021	01/20/2021 08:00	Rasheda Ghaffari	01/22/2021 21:41	Vandana T. Nagar	2219530
	01/15/2021	01/20/2021 08:00	Rasheda Ghaffari	01/22/2021 22:05	Vandana T. Nagar	2219535
EPA 8276	01/15/2021	01/20/2021 08:00	Julie Wi	01/22/2021 03:49	Michael Poppell	2219529
	01/15/2021	01/20/2021 08:00	Julie Wi	01/22/2021 04:44	Michael Poppell	2219531
	01/15/2021	01/20/2021 08:00	Julie Wi	01/22/2021 05:39	Michael Poppell	2219532
	01/15/2021	01/20/2021 08:00	Julie Wi	01/22/2021 06:34	Michael Poppell	2219533
	01/15/2021	01/20/2021 08:00	Julie Wi	01/22/2021 07:30	Michael Poppell	2219534
EPA 8321B	01/15/2021	01/19/2021 12:15	Rebecca Ware	01/19/2021 15:18	Rebecca Ware	2219516
	01/15/2021	01/19/2021 12:15	Rebecca Ware	01/19/2021 15:32	Rebecca Ware	2219518
	01/15/2021	01/19/2021 12:15	Rebecca Ware	01/21/2021 06:05	Rebecca Ware	2219518
	01/15/2021	01/19/2021 12:15	Rebecca Ware	01/21/2021 08:03	Rebecca Ware	2219516
	01/15/2021	01/20/2021 09:00	Hoor Shaik	01/20/2021 18:55	Juyoung Kim	2219515
	01/15/2021	01/20/2021 09:00	Hoor Shaik	01/20/2021 19:29	Juyoung Kim	2219517
	01/15/2021	01/20/2021 09:00	Hoor Shaik	01/22/2021 06:16	Juyoung Kim	2219516
	01/15/2021	01/20/2021 09:00	Hoor Shaik	01/22/2021 07:25	Juyoung Kim	2219518
SM 2120 B-2011	01/15/2021			01/15/2021 15:32	Benjamin T. Nordmann	2219472, 2219475
	01/15/2021			01/15/2021 15:33	Benjamin T. Nordmann	2219478
	01/15/2021			01/15/2021 15:34	Benjamin T. Nordmann	2219481
SM 2320 B-2011	01/15/2021			01/19/2021 19:57	Dale L. Simmons	2219472
	01/15/2021			01/19/2021 20:10	Dale L. Simmons	2219475
	01/15/2021			01/19/2021 20:22	Dale L. Simmons	2219478
	01/15/2021			01/19/2021 20:31	Dale L. Simmons	2219481
SM 2340B	01/15/2021			01/20/2021 12:12	Betina Topolski	2219541
	01/15/2021			01/20/2021 13:41	Betina Topolski	2219536
	01/15/2021			01/20/2021 14:04	Betina Topolski	2219537

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2340B	01/15/2021			01/20/2021 14:12	Betina Topolski	2219538
	01/15/2021			01/20/2021 14:47	Betina Topolski	2219539
	01/15/2021			01/20/2021 15:19	Betina Topolski	2219540
SM 2540 C-2011	01/15/2021			01/19/2021 14:52	Yijie Li	2219472, 2219475, 2219478, 2219481
SM 2540 D-2011	01/15/2021			01/19/2021 14:52	Yijie Li	2219472, 2219475, 2219478, 2219481
SM 4500 F-C-2011	01/15/2021			01/19/2021 19:57	Dale L. Simmons	2219472
	01/15/2021			01/19/2021 20:10	Dale L. Simmons	2219475
	01/15/2021			01/19/2021 20:22	Dale L. Simmons	2219478
	01/15/2021			01/19/2021 20:31	Dale L. Simmons	2219481
SM 5310 B-2011	01/15/2021			01/20/2021 06:25	Touraj Touran	2219473
	01/15/2021			01/20/2021 06:37	Touraj Touran	2219476
	01/15/2021			01/20/2021 06:50	Touraj Touran	2219479
	01/15/2021			01/20/2021 07:02	Touraj Touran	2219482