Chemical Analysis Report

TLH-ROC-2021-12-20-01

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

Event Description: **Big, Flat, Wilson, Blank**
Request ID: **RQ-2021-12-06-38**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
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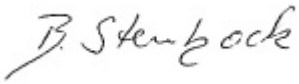
Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 14-JAN-2022 14:12



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: Flat Creek @ CR269 **Collection Date/Time: 12/20/2021 10:05**

Field ID: G2TLHR0020 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2296187	EPA 180.1 Rev. 2.0	Turbidity	11	A	NTU	P407777	
	EPA 300.0 Rev. 2.1	Chloride	4.4		mg Cl/L	P407903	
		Sulfate	0.79		mg SO4/L	P407905	
	SM 2120 B-2011	Color (true)	53		PCU	P407773	
	SM 2320 B-2011	Total Alkalinity	13		mg CaCO3/L	P407987	
	SM 2540 C-2011	TDS	38		mg/L	P407915	
	SM 2540 D-2011	TSS	6	I	mg/L	P407818	
	SM 4500 F-C-2011	Fluoride	0.079	I	mg F/L	P407994	
2296188	EPA 350.1 Rev. 2.0	Ammonia-N	0.037		mg N/L	P408069	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30		mg N/L	P408284	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.24		mg N/L	P407740	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P407845	
	SM 5310 B-2011	Organic Carbon	4.6		mg C/L	P408216	
2296189	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.096		mg P/L	P407769	
2296199	EPA 8321B	Aldicarb	0.020	U	ug/L	P407683	
		Aldicarb Sulfone	0.0020	U	ug/L	P407683	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P407683	MS
		Carbaryl	0.0020	U	ug/L	P407683	
		Carbofuran	0.0020	U	ug/L	P407683	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P407683	
		Methiocarb	0.0020	U	ug/L	P407683	
		Methomyl	0.0020	U	ug/L	P407683	
		Oxamyl	0.0020	U	ug/L	P407683	
		Propoxur	0.0020	U	ug/L	P407683	
2296200		2,4-D	0.0020	U	ug/L	P407753	
		Acesulfame K	0.10	U	ug/L	P407617	
		2,4,5-T	0.0040	U	ug/L	P407753	
		AMPA	0.10	U	ug/L	P407617	
		Acetaminophen	0.0080	U	ug/L	P407753	
		Acetamiprid	0.0020	U	ug/L	P407753	
		Endothall	0.25	U	ug/L	P407617	
		Glufosinate	0.10	U	ug/L	P407617	
		Glyphosate	0.10	U	ug/L	P407617	
		Afidopyropen	0.0020	UJ	ug/L	P407753	RPD
		Bentazon	8.0E-04	U	ug/L	P407753	
		Sucralose	0.030	I	ug/L	P407617	
		Benzovindiflupyr	0.0020	U	ug/L	P407753	
		Carbamazepine	8.0E-04	U	ug/L	P407753	
		Clothianidin	0.0020	U	ug/L	P407753	
		Dinotefuran	0.0020	U	ug/L	P407753	
		Diuron	0.0020	U	ug/L	P407753	
		Fenuron	0.016	U	ug/L	P407753	
		Fluridone	8.0E-04	U	ug/L	P407753	

Field ID: G2TLHR0020 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2296200	EPA 8321B	Imazapyr	0.029		ug/L	P407753	
		Hydrocodone	0.0020	U	ug/L	P407753	
		Ibuprofen	0.020	U	ug/L	P407753	
		Imidacloprid	0.0020	U	ug/L	P407753	
		Linuron	0.0040	U	ug/L	P407753	
		Mandestrobin	0.0020	U	ug/L	P407753	
		MCPP	0.0040	U	ug/L	P407753	
		Naproxen	0.0080	U	ug/L	P407753	
		Primidone	0.0040	UJ	ug/L	P407753	RPD
		Pyraclostrobin	0.0020	U	ug/L	P407753	
		Silvex	0.0040	U	ug/L	P407753	
		Thiamethoxam	0.0020	U	ug/L	P407753	
		Tolfenpyrad	0.0020	U	ug/L	P407753	
		Triclopyr	0.0040	U	ug/L	P407753	
2296203	EPA 8270E	Aldrin	0.70	U	ng/L	P407741	
		Alpha-BHC	0.11	U	ng/L	P407741	
		Alpha-Chlordane	0.22	U	ng/L	P407741	
		Beta-BHC	0.11	U	ng/L	P407741	
		Beta-Cyfluthrin**	1.3	U	ng/L	P407741	
		Bifenthrin**	0.54	U	ng/L	P407741	
		Chlorothalonil	0.54	U	ng/L	P407741	
		Cis-Nonachlor**	0.22	U	ng/L	P407741	
		Cypermethrin	1.6	U	ng/L	P407741	
		Dacthal**	0.16	U	ng/L	P407741	
		DDD-p,p'	0.27	U	ng/L	P407741	
		DDE-p,p'	0.22	U	ng/L	P407741	
		DDT-p,p'	0.27	U	ng/L	P407741	
		Delta-BHC	0.43	U	ng/L	P407741	
		Deltamethrin**	1.3	U	ng/L	P407741	
		Dichlobenil**	0.11	U	ng/L	P407741	
		Dicofol	1.3	U	ng/L	P407741	
		Dieldrin	0.43	U	ng/L	P407741	
		Endosulfan I	0.43	U	ng/L	P407741	
		Endosulfan II	0.43	U	ng/L	P407741	
		Endosulfan Sulfate	0.32	U	ng/L	P407741	
		Endrin	0.43	U	ng/L	P407741	
		Endrin Aldehyde	0.81	U	ng/L	P407741	
		Endrin Ketone	0.43	U	ng/L	P407741	
		Esfenvalerate**	0.81	U	ng/L	P407741	
		Ethalfluralin**	0.16	UJ	ng/L	P407741	RPD
		Fenpropathrin**	0.27	U	ng/L	P407741	
		Gamma-BHC	0.13	U	ng/L	P407741	
		Gamma-Chlordane	0.22	U	ng/L	P407741	
		Heptachlor	0.22	U	ng/L	P407741	
		Heptachlor Epoxide	0.27	U	ng/L	P407741	

Field ID: G2TLHR0020 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2296203	EPA 8270E	Hexachlorobenzene	1.1	U	ng/L	P407741	
		Kepone**	9.9	I	ng/L	P407741	
		Lambda-Cyhalothrin**	0.81	U	ng/L	P407741	
		Methoprene**	0.81	U	ng/L	P407741	
		Methoxychlor	0.32	U	ng/L	P407741	
		MGK-264**	0.22	U	ng/L	P407741	
		Mirex	0.75	U	ng/L	P407741	
		Oxychlordane**	0.32	U	ng/L	P407741	
		Permethrin	1.7	U	ng/L	P407741	
		Phenothrin**	0.97	U	ng/L	P407741	
		Piperonyl Butoxide**	0.16	U	ng/L	P407741	
		Prallethrin**	2.2	U	ng/L	P407741	
		Tau-Fluvalinate**	0.27	U	ng/L	P407741	
		Tetramethrin**	0.81	U	ng/L	P407741	
		Trans-Nonachlor**	0.22	U	ng/L	P407741	
		Triclosan Methyl**	0.16	U	ng/L	P407741	
		Trifluralin	0.22	UJ	ng/L	P407741	RPD
	EPA 8276	Chlordane	2.7	U	ng/L	P407741	
		Toxaphene	16	U	ng/L	P407741	
2296204	EPA 8270E	Acetochlor	0.26	U	ng/L	P407868	
		Alachlor	0.65	I	ng/L	P407868	
		Ametryn	0.62	U	ng/L	P407868	
		Atrazine	0.26	U	ng/L	P407868	
		Atrazine Desethyl	1.5	U	ng/L	P407868	
		Azinphos Methyl	2.1	U	ng/L	P407868	
		Azoxystrobin**	0.51	U	ng/L	P407868	
		Bromacil	0.69	I	ng/L	P407868	
		Butylate	0.41	U	ng/L	P407868	
		Caffeine**	7.7	U	ng/L	P407868	
		Carbophenothion	0.51	U	ng/L	P407868	
		Carfentrazone Ethyl**	0.10	U	ng/L	P407868	
		Chlorfenapyr**	0.18	U	ng/L	P407868	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P407868	
		Chlorpyrifos Methyl	0.051	U	ng/L	P407868	
		Coumaphos**	0.51	U	ng/L	P407868	
		Cyanazine	3.3	U	ng/L	P407868	
		Cyprodinil**	0.10	U	ng/L	P407868	
		Demeton	1.5	U	ng/L	P407868	
		Diazinon	0.13	U	ng/L	P407868	
		Difenoconazole**	0.62	U	ng/L	P407868	RPD
		Dimethenamid**	0.10	U	ng/L	P407868	
		Dimethomorph**	0.18	UJ	ng/L	P407868	LCS
		Disulfoton	0.51	U	ng/L	P407868	
		Dithiopyr**	0.18	U	ng/L	P407868	
		EPTC	1.3	U	ng/L	P407868	

Field ID: G2TLHR0020 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2296204	EPA 8270E	Ethion	0.15	U	ng/L	P407868	
		Ethoprop	0.10	U	ng/L	P407868	
		Etridiazole**	0.15	U	ng/L	P407868	
		Fenamiphos	0.51	U	ng/L	P407868	
		Fenbuconazole**	0.13	U	ng/L	P407868	MS, RPD
		Fipronil	0.26	U	ng/L	P407868	
		Fipronil Desulfinyl**	0.13	U	ng/L	P407868	
		Fipronil Sulfide	0.15	U	ng/L	P407868	
		Fipronil Sulfone	0.15	U	ng/L	P407868	
		Fluazifop-P-butyl**	0.10	U	ng/L	P407868	
		Fludioxonil**	0.13	U	ng/L	P407868	
		Flumioxazin**	1.8	U	ng/L	P407868	
		Flutolanil**	0.10	U	ng/L	P407868	
		Fluxapyroxad**	0.10	U	ng/L	P407868	
		Fonofos	0.21	U	ng/L	P407868	
		Hexazinone	0.51	U	ng/L	P407868	
		Imazalil**	0.77	U	ng/L	P407868	
		Iprodione**	0.62	U	ng/L	P407868	
		Loratadine**	0.10	UJ	ng/L	P407868	LCS, RPD
		Malathion	0.36	UJ	ng/L	P407868	LCS, RPD
		Metalaxyl	0.77	U	ng/L	P407868	
		Metolachlor	0.36	U	ng/L	P407868	
		Metribuzin	3.3	U	ng/L	P407868	
		Mevinphos	1.1	U	ng/L	P407868	
		Molinate	0.31	U	ng/L	P407868	
		Myclobutanil**	0.26	U	ng/L	P407868	
		Naled**	1.5	U	ng/L	P407868	
		Napropamide**	0.41	U	ng/L	P407868	
		Norflurazon	0.51	U	ng/L	P407868	
		Oxadiazon	0.31	U	ng/L	P407868	
		Oxyfluorfen**	0.15	U	ng/L	P407868	
		Parathion Ethyl	0.26	U	ng/L	P407868	
		Parathion Methyl	0.57	U	ng/L	P407868	
		Pendimethalin	1.0	UJ	ng/L	P407868	LCS, MS
		Phenytoin**	3.6	UJ	ng/L	P407868	LCS, MS, RPD
		Phorate	0.54	U	ng/L	P407868	
		Prodiamine**	0.18	U	ng/L	P407868	
		Prometon	0.93	U	ng/L	P407868	
		Prometryn	0.21	U	ng/L	P407868	
		Pronamide**	0.15	U	ng/L	P407868	
		Propanil**	0.13	U	ng/L	P407868	
		Propargite**	1.5	U	ng/L	P407868	
		Propiconazole**	0.51	U	ng/L	P407868	
		Pyraflufen Ethyl**	0.26	U	ng/L	P407868	

Field ID: G2TLHR0020 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2296204	EPA 8270E	Pyridaben**	0.46	UJ	ng/L	P407868	RPD
		Pyriproxyfen**	0.13	U	ng/L	P407868	
		Simazine	0.51	U	ng/L	P407868	
		Stirophos**	0.13	UJ	ng/L	P407868	LCS
		Sulfentrazone**	0.51	U	ng/L	P407868	
		Tebuconazole**	0.51	U	ng/L	P407868	
		Terbufos	0.10	U	ng/L	P407868	
		Terbuthylazine	0.44	U	ng/L	P407868	
		Thiobencarb**	0.62	UJ	ng/L	P407868	LCS, RPD
		Triadimefon**	0.26	U	ng/L	P407868	
2296207	EPA 200.7 Rev. 4.4	Barium	13.1		ug/L	P407727	
		Calcium	4.40		mg/L	P407727	
		Iron	1.41E+03		ug/L	P407727	
		Magnesium	1.98		mg/L	P407727	
		Manganese	38.8		ug/L	P407727	
		Potassium	0.77	I	mg/L	P407727	
		Sodium	2.3		mg/L	P407727	
		Strontium	12.1		ug/L	P407727	
		Tin	3.0	U	ug/L	P407727	
		Titanium	2.2	I	ug/L	P407727	
		Vanadium	2.0	U	ug/L	P407727	
		Zinc	5.0	U	ug/L	P407727	
	EPA 200.8 Rev. 5.4	Aluminum	315		ug/L	P407727	
		Antimony	0.050	U	ug/L	P407727	
		Arsenic	0.68		ug/L	P407727	
		Beryllium	0.017	I	ug/L	P407727	
		Boron**	9.7		ug/L	P407727	
		Cadmium	0.020	U	ug/L	P407727	
		Chromium	0.60	I	ug/L	P407727	
		Cobalt	0.211		ug/L	P407727	
		Copper	0.49	I	ug/L	P407727	
		Lead	0.24	I	ug/L	P407727	
		Molybdenum	0.18	I	ug/L	P407727	
		Nickel	0.50	U	ug/L	P407727	
		Selenium	0.20	U	ug/L	P407727	
		Silver	0.010	U	ug/L	P407727	
		Thallium	0.14	I	ug/L	P407727	
	SM 2340B	Hardness	19.1		mg/L	P407727	

Ref. Method and Comment:
EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB **Collection Date/Time: 12/20/2021 10:15**

Field ID: FB_12202021 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2296190	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P407777	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P407903	
		Sulfate	0.20	U	mg SO4/L	P407905	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P407773	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P407987	
	SM 2540 C-2011	TDS	15	U	mg/L	P407914	
	SM 2540 D-2011	TSS	2	U	mg/L	P407817	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P407994	
2296191	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P408069	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P408074	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P407740	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P407845	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P408216	
2296192	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P407769	
2296205	EPA 8270E	Aldrin	0.68	U	ng/L	P407741	
		Alpha-BHC	0.10	U	ng/L	P407741	
		Alpha-Chlordane	0.21	U	ng/L	P407741	
		Beta-BHC	0.10	U	ng/L	P407741	
		Beta-Cyfluthrin**	1.3	U	ng/L	P407741	
		Bifenthrin**	0.52	U	ng/L	P407741	
		Carbophenothion	0.94	U	ng/L	P407741	
		Chlorothalonil	0.52	U	ng/L	P407741	
		Cis-Nonachlor**	0.21	U	ng/L	P407741	
		Cypermethrin	1.6	U	ng/L	P407741	
		Dacthal**	0.16	U	ng/L	P407741	
		DDD-p,p'	0.26	U	ng/L	P407741	
		DDE-p,p'	0.21	U	ng/L	P407741	
		DDT-p,p'	0.26	U	ng/L	P407741	
		Delta-BHC	0.42	U	ng/L	P407741	
		Deltamethrin**	1.3	U	ng/L	P407741	
		Dichlobenil**	0.10	U	ng/L	P407741	
		Dicofol	1.3	U	ng/L	P407741	
		Dieldrin	0.42	U	ng/L	P407741	
		Endosulfan I	0.42	U	ng/L	P407741	
		Endosulfan II	0.42	U	ng/L	P407741	
		Endosulfan Sulfate	0.31	U	ng/L	P407741	
		Endrin	0.42	U	ng/L	P407741	
		Endrin Aldehyde	0.79	U	ng/L	P407741	
		Endrin Ketone	0.42	U	ng/L	P407741	
		Esfenvalerate**	0.79	U	ng/L	P407741	
		Ethalfluralin**	0.16	UJ	ng/L	P407741	RPD
		Fenpropathrin**	0.26	U	ng/L	P407741	
		Gamma-BHC	0.13	U	ng/L	P407741	

Field ID: FB_12202021 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2296205	EPA 8270E	Gamma-Chlordane	0.21	U	ng/L	P407741	
		Heptachlor	0.21	U	ng/L	P407741	
		Heptachlor Epoxide	0.26	U	ng/L	P407741	
		Hexachlorobenzene	1.0	U	ng/L	P407741	
		Kepone**	5.2	U	ng/L	P407741	
		Lambda-Cyhalothrin**	0.79	U	ng/L	P407741	
		Methoprene**	0.79	U	ng/L	P407741	
		Methoxychlor	0.31	U	ng/L	P407741	
		MGK-264**	0.21	U	ng/L	P407741	
		Mirex	0.73	U	ng/L	P407741	
		Oxychlordane**	0.31	U	ng/L	P407741	
		Permethrin	1.7	U	ng/L	P407741	
		Phenothrin**	0.94	U	ng/L	P407741	
		Piperonyl Butoxide**	0.16	U	ng/L	P407741	
		Prallethrin**	2.1	U	ng/L	P407741	
		Tau-Fluvalinate**	0.26	U	ng/L	P407741	
		Tetramethrin**	0.79	U	ng/L	P407741	
		Trans-Nonachlor**	0.21	U	ng/L	P407741	
		Triclosan Methyl**	0.16	U	ng/L	P407741	
		Trifluralin	0.21	UJ	ng/L	P407741	RPD
2296208	EPA 200.7 Rev. 4.4	Barium	1.0	U	ug/L	P407727	
		Calcium	0.075	U	mg/L	P407727	
		Iron	30	U	ug/L	P407727	
		Magnesium	0.040	U	mg/L	P407727	
		Manganese	1.0	U	ug/L	P407727	
		Potassium	0.30	U	mg/L	P407727	
		Sodium	0.50	U	mg/L	P407727	
		Strontium	2.0	U	ug/L	P407727	
		Tin	3.0	U	ug/L	P407727	
		Titanium	0.75	U	ug/L	P407727	
		Vanadium	2.0	U	ug/L	P407727	
		Zinc	5.0	U	ug/L	P407727	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P407727	
		Antimony	0.050	U	ug/L	P407727	
		Arsenic	0.050	U	ug/L	P407727	
		Beryllium	0.010	U	ug/L	P407727	
		Boron**	2.0	U	ug/L	P407727	
		Cadmium	0.020	U	ug/L	P407727	
		Chromium	0.40	U	ug/L	P407727	
		Cobalt	0.020	U	ug/L	P407727	
		Copper	0.40	U	ug/L	P407727	
		Lead	0.20	U	ug/L	P407727	
		Molybdenum	0.15	U	ug/L	P407727	
		Nickel	0.50	U	ug/L	P407727	
		Selenium	0.20	U	ug/L	P407727	

Field ID: FB_12202021 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2296208	EPA 200.8 Rev. 5.4	Silver	0.010	U	ug/L	P407727	
		Thallium	0.10	U	ug/L	P407727	
	SM 2340B	Hardness	0.35	U	mg/L	P407727	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Big Creek @ CR 2224 **Collection Date/Time: 12/20/2021 11:25**

Field ID: G1TLHR0057 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2296197	EPA 8321B	Aldicarb	0.020	U	ug/L	P407683	
		Aldicarb Sulfone	0.0020	U	ug/L	P407683	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P407683	MS
		Carbaryl	0.0020	U	ug/L	P407683	
		Carbofuran	0.0020	U	ug/L	P407683	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P407683	
		Methiocarb	0.0020	U	ug/L	P407683	
		Methomyl	0.0020	U	ug/L	P407683	
		Oxamyl	0.0020	U	ug/L	P407683	
		Propoxur	0.0020	U	ug/L	P407683	
2296198		2,4-D	0.0020	U	ug/L	P407620	
		Acesulfame K	0.10	U	ug/L	P407617	
		2,4,5-T	0.0040	U	ug/L	P407620	
		AMPA	0.10	U	ug/L	P407617	
		Acetaminophen	0.0080	U	ug/L	P407620	
		Acetamiprid	0.0020	U	ug/L	P407620	
		Endothall	0.25	U	ug/L	P407617	
		Glufosinate	0.10	U	ug/L	P407617	
		Glyphosate	0.10	U	ug/L	P407617	
		Afidopyropen	0.0020	U	ug/L	P407620	
		Bentazon	8.0E-04	U	ug/L	P407620	
		Sucralose	0.016	I	ug/L	P407617	
		Benzovindiflupyr	0.0020	U	ug/L	P407620	
		Carbamazepine	8.0E-04	U	ug/L	P407620	
		Clothianidin	0.0020	U	ug/L	P407620	
		Dinotefuran	0.0020	U	ug/L	P407620	
		Diuron	0.0020	U	ug/L	P407620	
		Fenuron	0.016	U	ug/L	P407620	
		Fluridone	8.0E-04	U	ug/L	P407620	
		Imazapyr	0.33		ug/L	P407620	
		Hydrocodone	0.0020	U	ug/L	P407620	
		Ibuprofen	0.020	U	ug/L	P407620	
		Imidacloprid	0.0020	U	ug/L	P407620	
		Linuron	0.0040	U	ug/L	P407620	
		Mandestrobin	0.0020	U	ug/L	P407620	
		MCPP	0.0040	U	ug/L	P407620	
		Naproxen	0.0080	U	ug/L	P407620	
		Primidone	0.0040	U	ug/L	P407620	MS
		Pyraclostrobin	0.0020	U	ug/L	P407620	
		Silvex	0.0040	U	ug/L	P407620	
		Thiamethoxam	0.0020	U	ug/L	P407620	
		Tolfenpyrad	0.0020	U	ug/L	P407620	
		Triclopyr	0.0040	U	ug/L	P407620	
2296201	EPA 8270E	Aldrin	0.67	U	ng/L	P407741	

Field ID: G1TLHR0057 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2296201	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P407741	
		Alpha-Chlordane	0.20	U	ng/L	P407741	
		Beta-BHC	0.10	U	ng/L	P407741	
		Beta-Cyfluthrin**	1.3	U	ng/L	P407741	
		Bifenthrin**	0.51	U	ng/L	P407741	
		Chlorothalonil	0.51	U	ng/L	P407741	
		Cis-Nonachlor**	0.20	U	ng/L	P407741	
		Cypermethrin	1.5	U	ng/L	P407741	
		Dacthal**	0.15	U	ng/L	P407741	
		DDD-p,p'	0.26	U	ng/L	P407741	
		DDE-p,p'	0.20	U	ng/L	P407741	
		DDT-p,p'	0.26	U	ng/L	P407741	
		Delta-BHC	0.41	U	ng/L	P407741	
		Deltamethrin**	1.3	U	ng/L	P407741	
		Dichlobenil**	0.10	U	ng/L	P407741	
		Dicofol	1.3	U	ng/L	P407741	
		Dieldrin	0.41	U	ng/L	P407741	
		Endosulfan I	0.41	U	ng/L	P407741	
		Endosulfan II	0.41	U	ng/L	P407741	
		Endosulfan Sulfate	0.31	U	ng/L	P407741	
		Endrin	0.41	U	ng/L	P407741	
		Endrin Aldehyde	0.77	U	ng/L	P407741	
		Endrin Ketone	0.41	U	ng/L	P407741	
		Esfenvalerate**	0.77	U	ng/L	P407741	
		Ethalfluralin**	0.15	UJ	ng/L	P407741	RPD
		Fenpropathrin**	0.26	U	ng/L	P407741	
		Gamma-BHC	0.13	U	ng/L	P407741	
		Gamma-Chlordane	0.20	U	ng/L	P407741	
		Heptachlor	0.20	U	ng/L	P407741	
		Heptachlor Epoxide	0.26	U	ng/L	P407741	
		Hexachlorobenzene	1.0	U	ng/L	P407741	
		Kepone**	5.1	U	ng/L	P407741	
		Lambda-Cyhalothrin**	0.77	U	ng/L	P407741	
		Methoprene**	0.77	U	ng/L	P407741	
		Methoxychlor	0.31	U	ng/L	P407741	
		MGK-264**	0.20	U	ng/L	P407741	
		Mirex	0.72	U	ng/L	P407741	
		Oxychlordane**	0.31	U	ng/L	P407741	
		Permethrin	1.6	U	ng/L	P407741	
		Phenothrin**	0.92	U	ng/L	P407741	
		Piperonyl Butoxide**	0.15	U	ng/L	P407741	
		Prallethrin**	2.0	U	ng/L	P407741	
		Tau-Fluvalinate**	0.26	U	ng/L	P407741	
		Tetramethrin**	0.77	U	ng/L	P407741	
		Trans-Nonachlor**	0.20	U	ng/L	P407741	

Field ID: G1TLHR0057 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2296201	EPA 8270E	Triclosan Methyl**	0.15	U	ng/L	P407741	
		Trifluralin	0.20	UJ	ng/L	P407741	RPD
	EPA 8276	Chlordane	2.6	U	ng/L	P407741	
		Toxaphene	15	U	ng/L	P407741	
2296202	EPA 8270E	Acetochlor	0.25	U	ng/L	P407868	
		Alachlor	0.25	U	ng/L	P407868	
		Ametryn	0.60	U	ng/L	P407868	
		Atrazine	0.25	U	ng/L	P407868	
		Atrazine Desethyl	1.5	U	ng/L	P407868	
		Azinphos Methyl	2.0	U	ng/L	P407868	
		Azoxystrobin**	0.50	U	ng/L	P407868	
		Bromacil	0.50	U	ng/L	P407868	
		Butylate	0.40	U	ng/L	P407868	
		Caffeine**	7.5	U	ng/L	P407868	
		Carbophenothion	0.50	U	ng/L	P407868	
		Carfentrazone Ethyl**	0.10	U	ng/L	P407868	
		Chlorfenapyr**	0.18	U	ng/L	P407868	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P407868	
		Chlorpyrifos Methyl	0.050	U	ng/L	P407868	
		Coumaphos**	0.50	U	ng/L	P407868	
		Cyanazine	3.2	U	ng/L	P407868	
		Cyprodinil**	0.10	U	ng/L	P407868	
		Demeton	1.5	U	ng/L	P407868	
		Diazinon	0.12	U	ng/L	P407868	
		Difenoconazole**	0.60	UJ	ng/L	P407868	RPD
		Dimethenamid**	0.10	U	ng/L	P407868	
		Dimethomorph**	0.18	UJ	ng/L	P407868	LCS
		Disulfoton	0.50	U	ng/L	P407868	
		Dithiopyr**	0.18	U	ng/L	P407868	
		EPTC	1.2	U	ng/L	P407868	
		Ethion	0.15	U	ng/L	P407868	
		Ethoprop	0.10	U	ng/L	P407868	
		Etridiazole**	0.15	U	ng/L	P407868	
		Fenamiphos	0.50	U	ng/L	P407868	
		Fenbuconazole**	0.12	UJ	ng/L	P407868	MS, RPD
		Fipronil	0.25	U	ng/L	P407868	
		Fipronil Desulfinyl**	0.12	U	ng/L	P407868	
		Fipronil Sulfide	0.15	U	ng/L	P407868	
		Fipronil Sulfone	0.15	U	ng/L	P407868	
		Fluazifop-P-butyl**	0.10	U	ng/L	P407868	
		Fludioxonil**	0.12	U	ng/L	P407868	
		Flumioxazin**	1.8	U	ng/L	P407868	
		Flutolanil**	0.10	U	ng/L	P407868	
		Fluxapyroxad**	0.10	U	ng/L	P407868	
		Fonofos	0.20	U	ng/L	P407868	

Field ID: G1TLHR0057 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2296202	EPA 8270E	Hexazinone	3.5		ng/L	P407868	
		Imazalil**	0.75	U	ng/L	P407868	
		Iprodione**	0.60	U	ng/L	P407868	
		Loratadine**	0.10	UJ	ng/L	P407868	LCS, RPD
		Malathion	0.35	UJ	ng/L	P407868	LCS, RPD
		Metalaxyl	0.75	U	ng/L	P407868	
		Metolachlor	0.35	U	ng/L	P407868	
		Metribuzin	3.2	U	ng/L	P407868	
		Mevinphos	1.0	U	ng/L	P407868	
		Molinate	0.30	U	ng/L	P407868	
		Myclobutanil**	0.25	U	ng/L	P407868	
		Naled**	1.5	U	ng/L	P407868	
		Napropamide**	0.40	U	ng/L	P407868	
		Norflurazon	0.50	U	ng/L	P407868	
		Oxadiazon	0.30	U	ng/L	P407868	
		Oxyfluorfen**	0.15	U	ng/L	P407868	
		Parathion Ethyl	0.25	U	ng/L	P407868	
		Parathion Methyl	0.55	U	ng/L	P407868	
		Pendimethalin	1.0	UJ	ng/L	P407868	LCS, MS
		Phenytoin**	3.5	UJ	ng/L	P407868	LCS, MS, RPD
		Phorate	0.52	U	ng/L	P407868	
		Prodiamine**	0.18	U	ng/L	P407868	
		Prometon	0.90	U	ng/L	P407868	
		Prometryn	0.20	U	ng/L	P407868	
		Pronamide**	0.15	U	ng/L	P407868	
		Propanil**	0.12	U	ng/L	P407868	
		Propargite**	1.5	U	ng/L	P407868	
		Propiconazole**	0.50	U	ng/L	P407868	
		Pyraflufen Ethyl**	0.25	U	ng/L	P407868	
		Pyridaben**	0.45	UJ	ng/L	P407868	RPD
		Pyriproxyfen**	0.12	U	ng/L	P407868	
		Simazine	0.50	U	ng/L	P407868	
		Stirophos**	0.12	UJ	ng/L	P407868	LCS
		Sulfentrazone**	0.50	U	ng/L	P407868	
		Tebuconazole**	0.50	U	ng/L	P407868	
		Terbufos	0.10	U	ng/L	P407868	
		Terbuthylazine	0.42	U	ng/L	P407868	
		Thiobencarb**	0.60	UJ	ng/L	P407868	LCS, RPD
		Triadimefon**	0.25	U	ng/L	P407868	
2296206	EPA 200.7 Rev. 4.4	Barium	9.3		ug/L	P407727	
		Calcium	3.10		mg/L	P407727	
		Iron	540		ug/L	P407727	
		Magnesium	0.75		mg/L	P407727	
		Manganese	18.0		ug/L	P407727	

Field ID: G1TLHR0057 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2296206	EPA 200.7 Rev. 4.4	Potassium	0.47	I	mg/L	P407727	
		Sodium	1.7	I	mg/L	P407727	
		Zinc	5.0	U	ug/L	P407727	
	EPA 200.8 Rev. 5.4	Aluminum	726		ug/L	P407727	
		Antimony	0.050	U	ug/L	P407727	
		Arsenic	0.34		ug/L	P407727	
		Beryllium	0.029	I	ug/L	P407727	
		Boron**	12.3		ug/L	P407727	
		Cadmium	0.020	U	ug/L	P407727	
		Chromium	0.57	I	ug/L	P407727	
		Copper	0.43	I	ug/L	P407727	
		Lead	0.62		ug/L	P407727	
		Molybdenum	0.15	U	ug/L	P407727	
		Nickel	0.50	U	ug/L	P407727	
		Selenium	0.20	U	ug/L	P407727	
		Silver	0.010	U	ug/L	P407727	
		Thallium	0.12	I	ug/L	P407727	
	SM 2340B	Hardness	10.8		mg/L	P407727	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 200.8 Rev. 5.4: The lead result was confirmed in the undigested sample on 01/03/2022.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P407777

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P407727

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
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P407727

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
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407903

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407905

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P408069

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408074

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408284

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407740

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407845

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407769

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

Reference Method: EPA 8270E
Batch ID: P407741

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	0.50	U	ng/L
Chlorothalonil	0.50	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P407741

Component	Result	Code	Units
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.10	U	ng/L
Dichlobenil	0.10	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P407741

Component	Result	Code	Units
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E
Batch ID: P407868

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P407868

Component	Result	Code	Units
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P407868

Component	Result	Code	Units
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	3.2	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P407868

Component	Result	Code	Units
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276
Batch ID: P407741

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P407617

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

Reference Method: EPA 8321B
Batch ID: P407620

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P407683

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P407683

Component	Result	Code	Units
Propoxur	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P407753

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B-2011
Batch ID: P407773

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P407987

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

Reference Method: SM 2540 C-2011
Batch ID: P407914

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 C-2011
Batch ID: P407915

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P407817

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P407818

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P407994

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P408216

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: P407727

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	101		P	85 - 115
Calcium	103		P	85 - 115
Iron	106		P	85 - 115
Magnesium	104		P	85 - 115
Manganese	101		P	85 - 115
Potassium	103		P	85 - 115
Sodium	102		P	85 - 115
Strontium	99.7		P	85 - 115
Tin	101		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	100		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P407727

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.6		P	85 - 115
Antimony	96.7		P	85 - 115
Arsenic	96.5		P	85 - 115
Beryllium	90.0		P	85 - 115
Boron	96.9		P	85 - 115
Cadmium	98.4		P	85 - 115
Chromium	95.8		P	85 - 115
Cobalt	100		P	85 - 115
Copper	96.0		P	85 - 115
Lead	98.9		P	85 - 115
Molybdenum	97.6		P	85 - 115
Nickel	96.5		P	85 - 115
Selenium	97.5		P	85 - 115
Silver	103		P	85 - 115
Thallium	89.9		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407903

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407905

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P408069

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408074

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	109		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408284

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407740

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407845

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407769

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

Reference Method: EPA 8270E
Batch ID: P407741

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.3	47.9	P/P	20 - 83.0
Alpha-BHC	93.1	83.5	P/P	74 - 108
Alpha-Chlordane	80.2	71.1	P/P	53 - 109
Beta-BHC	111	98.1	P/P	64 - 139
Beta-Cyfluthrin	84.3	79.3	P/P	27 - 171
Bifenthrin	53.4	68.6	P/P	20 - 124
Carbophenothion	56.5	49.0	P/P	20 - 94.0
Chlorothalonil	166	168	P/P	20 - 182
Cis-Nonachlor	70.6	60.0	P/P	46 - 110
Cypermethrin	83.0	74.2	P/P	35 - 160
Dacthal	101	93.4	P/P	70 - 115
DDD-p,p'	75.6	67.2	P/P	51 - 108
DDE-p,p'	77.7	70.3	P/P	51 - 104
DDT-p,p'	75.4	68.6	P/P	52 - 107
Delta-BHC	114	101	P/P	73 - 146
Deltamethrin	78.1	80.6	P/P	20 - 190
Dichlobenil	96.6	79.4	P/P	30 - 100
Dicofol	77.7	67.0	P/P	52 - 110
Dieldrin	88.0	79.4	P/P	57 - 111
Endosulfan I	86.4	78.7	P/P	61 - 106
Endosulfan II	83.5	78.0	P/P	57 - 122
Endosulfan Sulfate	79.6	82.9	P/P	58 - 122

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P407741

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	79.7	67.9	P/P	34 - 125
Endrin Aldehyde	72.6	67.5	P/P	40 - 120
Endrin Ketone	88.8	84.7	P/P	51 - 138
Esfenvalerate	76.7	77.9	P/P	20 - 193
Ethalfluralin	77.9	62.3	P/P	51 - 99.0
Fenpropathrin	69.3	59.5	P/P	40 - 116
Gamma-BHC	101	87.3	P/P	74 - 116
Gamma-Chlordane	76.3	67.8	P/P	49 - 105
Heptachlor	69.3	58.7	P/P	45 - 98.0
Heptachlor Epoxide	87.3	79.0	P/P	61 - 106
Hexachlorobenzene	74.7	59.5	P/P	41 - 96.0
Kepone	103	97.3	P/P	27 - 179
Lambda-Cyhalothrin	70.8	64.7	P/P	20 - 199
Methoprene	65.6	61.8	P/P	20 - 134
Methoxychlor	84.3	71.0	P/P	61 - 111
MGK-264	89.0	86.1	P/P	20 - 124
Mirex	47.2	41.1	P/P	20 - 199
Oxychlordane	74.5	67.0	P/P	39 - 112
Permethrin	82.5	95.1	P/P	31 - 155
Phenothrin	60.8	68.5	P/P	20 - 100
Piperonyl Butoxide	96.8	84.9	P/P	20 - 144
Prallethrin	73.1	71.0	P/P	20 - 103
Tau-Fluvalinate	61.7	60.7	P/P	24 - 133
Tetramethrin	88.1	86.9	P/P	20 - 116
Trans-Nonachlor	76.6	67.9	P/P	49 - 105
Triclosan Methyl	90.0	80.3	P/P	60 - 111
Trifluralin	76.6	61.6	P/P	53 - 97.0

Reference Method: EPA 8270E
Batch ID: P407868

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	102	113	P/P	70 - 121
Alachlor	95.0	88.6	P/P	70 - 119
Ametryn	91.7	92.5	P/P	61 - 135
Atrazine	110	114	P/P	76 - 123
Atrazine Desethyl	64.6	65.1	P/P	35 - 140
Azinphos Methyl	122	102	P/P	57 - 163
Azoxystrobin	123	109	P/P	43 - 231
Bromacil	79.8	64.5	P/P	42 - 123
Butylate	70.8	73.6	P/P	34 - 92.0
Caffeine	89.0	90.1	P/P	70 - 130
Carbophenothion	79.5	79.1	P/P	61 - 121
Carfentrazone Ethyl	89.6	92.5	P/P	62 - 139
Chlorfenapyr	71.1	63.7	P/P	50 - 150
Chlorpyrifos Ethyl	81.8	77.4	P/P	67 - 121
Chlorpyrifos Methyl	85.3	87.1	P/P	67 - 120
Coumaphos	74.2	61.5	P/P	50 - 220
Cyanazine	109	118	P/P	20 - 226
Cyprodinil	80.8	97.2	P/P	50 - 150
Demeton	92.4	102	P/P	35 - 125
Diazinon	110	121	P/P	70 - 122

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P407868

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Difenoconazole	102	72.4	P/P	56 - 186
Dimethenamid	81.3	97.1	P/P	67 - 119
Dimethomorph	233	184	F/F	50 - 150
Disulfoton	85.3	110	P/P	47 - 120
Dithiopyr	82.7	81.7	P/P	67 - 118
EPTC	65.1	58.4	P/P	33 - 90.0
Ethion	46.9	71.7	P/P	40 - 133
Ethoprop	88.5	96.1	P/P	61 - 121
Etridiazole	89.0	84.8	P/P	50 - 150
Fenamiphos	71.4	67.4	P/P	31 - 139
Fenbuconazole	121	84.8	P/P	66 - 141
Fipronil	91.8	99.4	P/P	62 - 129
Fipronil Desulfinyl	83.0	80.3	P/P	59 - 126
Fipronil Sulfide	63.2	63.3	P/P	63 - 117
Fipronil Sulfone	72.3	57.7	P/P	57 - 117
Fluazifop-P-butyl	86.7	71.9	P/P	63 - 124
Fludioxonil	98.2	97.1	P/P	63 - 123
Flumioxazin	173	128	P/P	34 - 245
Flutolanil	73.6	57.9	P/P	56 - 131
Fluxapyroxad	73.6	67.8	P/P	57 - 117
Fonofos	80.1	88.8	P/P	61 - 116
Hexazinone	79.9	92.5	P/P	55 - 138
Imazalil	63.5	83.8	P/P	33 - 143
Iprodione	90.5	94.8	P/P	59 - 118
Loratadine	219	161	F/F	50 - 150
Malathion	81.8	5.02	P/F	62 - 138
Metalaxyl	79.8	68.4	P/P	24 - 147
Metolachlor	92.4	84.7	P/P	68 - 118
Metribuzin	96.7	88.0	P/P	20 - 239
Mevinphos	79.6	83.3	P/P	46 - 124
Molinate	69.6	71.2	P/P	46 - 100
Myclobutanil	91.7	80.6	P/P	32 - 149
Naled	62.2	61.5	P/P	32 - 95.0
Napropamide	66.5	58.7	P/P	50 - 150
Norflurazon	87.6	78.1	P/P	57 - 127
Oxadiazon	78.8	68.4	P/P	63 - 118
Oxyfluorfen	97.9	102	P/P	69 - 137
Parathion Ethyl	92.7	101	P/P	70 - 113
Parathion Methyl	102	124	P/P	71 - 130
Pendimethalin	106	123	P/F	55 - 118
Phenytoin	26.0	40.8	F/F	50 - 200
Phorate	77.5	97.7	P/P	46 - 125
Prodiamine	42.1	55.3	P/P	20 - 141
Prometon	94.3	86.3	P/P	54 - 122
Prometryn	73.0	71.3	P/P	66 - 124
Pronamide	97.8	118	P/P	79 - 122
Propanil	107	107	P/P	50 - 150
Propargite	56.5	68.5	P/P	50 - 200
Propiconazole	79.2	73.9	P/P	61 - 126
Pyraflufen Ethyl	82.2	76.1	P/P	50 - 150
Pyridaben	78.7	53.6	P/P	50 - 200
Pyriproxyfen	83.4	71.7	P/P	52 - 131

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P407868

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Simazine	98.5	89.2	P/P	75 - 128
Stirophos	46.1	59.5	F/P	50 - 150
Sulfentrazone	80.9	69.3	P/P	20 - 132
Tebuconazole	46.3	60.2	P/P	20 - 116
Terbufos	105	117	P/P	61 - 117
Terbuthylazine	101	110	P/P	74 - 116
Thiobencarb	91.7	12.2	P/F	50 - 150
Triadimefon	88.5	94.9	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P407741

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	87.7	86.2	P/P	56 - 117
Toxaphene	88.8	89.2	P/P	45 - 116

Reference Method: EPA 8321B
Batch ID: P407617

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	61.8		P	40 - 150
AMPA	127		P	40 - 160
Endothall	77.6		P	40 - 150
Glufosinate	119		P	40 - 160
Glyphosate	116		P	40 - 160
Sucralose	104		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P407620

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	105		P	40 - 150
2,4,5-T	123		P	40 - 150
Acetaminophen	87.7		P	30 - 150
Acetamiprid	88.4		P	40 - 150
Afidopyropen	77.0		P	40 - 150
Bentazon	124		P	30 - 150
Benzovindiflupyr	83.0		P	40 - 150
Carbamazepine	97.5		P	40 - 150
Clothianidin	110		P	40 - 150
Dinotefuran	83.4		P	40 - 150
Diuron	79.9		P	40 - 150
Fenuron	93.9		P	40 - 150
Fluridone	91.9		P	40 - 150
Hydrocodone	104		P	40 - 150
Ibuprofen	110		P	40 - 150
Imazapyr	103		P	40 - 150
Imidacloprid	100		P	40 - 150
Linuron	77.5		P	40 - 150
Mandestrobin	89.4		P	40 - 150
MCPP	101		P	40 - 150
Naproxen	56.8		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P407620

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Primidone	141		P	40 - 150
Pyraclostrobin	70.5		P	40 - 150
Silvex	90.5		P	40 - 150
Thiamethoxam	96.5		P	40 - 150
Tolfenpyrad	33.0		P	30 - 150
Triclopyr	106		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P407683

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	74.8		P	40 - 150
Aldicarb	75.9		P	30 - 150
Aldicarb Sulfone	66.6		P	40 - 150
Aldicarb Sulfoxide	100		P	40 - 150
Carbaryl	70.0		P	40 - 150
Carbofuran	86.1		P	40 - 150
Methiocarb	88.2		P	40 - 150
Methomyl	80.5		P	40 - 150
Oxamyl	77.8		P	40 - 150
Propoxur	86.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P407753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	98.4		P	40 - 150
2,4,5-T	92.0		P	40 - 150
Acetaminophen	79.0		P	30 - 150
Acetamiprid	75.0		P	40 - 150
Afidopyropen	40.3		P	40 - 150
Bentazon	104		P	30 - 150
Benzovindiflupyr	83.7		P	40 - 150
Carbamazepine	80.0		P	40 - 150
Clothianidin	81.4		P	40 - 150
Dinotefuran	72.9		P	40 - 150
Diuron	81.5		P	40 - 150
Fenuron	79.8		P	40 - 150
Fluridone	76.5		P	40 - 150
Hydrocodone	92.6		P	40 - 150
Ibuprofen	110		P	40 - 150
Imazapyr	86.0		P	40 - 150
Imidacloprid	96.9		P	40 - 150
Linuron	81.2		P	40 - 150
Mandestrobin	72.9		P	40 - 150
MCPP	104		P	40 - 150
Naproxen	47.1		P	40 - 150
Primidone	99.5		P	40 - 150
Pyraclostrobin	70.1		P	40 - 150
Silvex	105		P	40 - 150
Thiamethoxam	74.8		P	40 - 150
Tolfenpyrad	33.9		P	30 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P407753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	96.6		P	40 - 150

Reference Method: SM 2120 B-2011
Batch ID: P407773

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	103		P	90 - 110

Reference Method: SM 2320 B-2011
Batch ID: P407987

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.9		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P407994

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P408216

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.1		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P407727

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296177	Barium	101	101	P/P	80 - 120
2296177	Calcium	102	104	P/P	80 - 120
2296177	Iron	106	109	P/P	80 - 120
2296177	Magnesium	106	108	P/P	80 - 120
2296177	Manganese	101	101	P/P	80 - 120
2296177	Potassium	101	104	P/P	80 - 120
2296177	Sodium	101	103	P/P	80 - 120
2296177	Strontium	100	101	P/P	80 - 120
2296177	Tin	102	104	P/P	80 - 120
2296177	Titanium	102	101	P/P	80 - 120
2296177	Vanadium	101	101	P/P	80 - 120
2296177	Zinc	103	103	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P407727

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296177	Aluminum	104	103	P/P	80 - 120
2296177	Antimony	103	103	P/P	80 - 120
2296177	Arsenic	102	101	P/P	80 - 120
2296177	Beryllium	96.2	96.4	P/P	80 - 120
2296177	Boron	102	101	P/P	80 - 120
2296177	Cadmium	102	101	P/P	80 - 120
2296177	Chromium	102	101	P/P	80 - 120
2296177	Cobalt	106	105	P/P	80 - 120
2296177	Copper	103	101	P/P	80 - 120
2296177	Lead	105	105	P/P	80 - 120
2296177	Molybdenum	103	103	P/P	80 - 120
2296177	Nickel	102	101	P/P	80 - 120
2296177	Selenium	102	99.1	P/P	80 - 120
2296177	Silver	106	105	P/P	80 - 120
2296177	Thallium	97.4	101	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407903

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295799	Chloride	96.9		P	90 - 110
2296187	Chloride	98.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295799	Sulfate	96.7		P	90 - 110
2296187	Sulfate	97.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P408069

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295915	Ammonia-N	96.0	97.2	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408074

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295921	Kjeldahl Nitrogen	116	114	F/F	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2297347	Kjeldahl Nitrogen	102	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407740

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296165	NO2NO3-N	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296189	O-Phosphate-P	100	98.6	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P407741

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295864	Aldrin	54.4	39.9	P/P	10 - 94.0
2295864	Alpha-BHC	88.3	87.4	P/P	71 - 108
2295864	Alpha-Chlordane	78.5	64.5	P/P	42 - 115
2295864	Beta-BHC	109	117	P/P	56 - 161
2295864	Beta-Cyfluthrin	91.1	74.6	P/P	46 - 190
2295864	Bifenthrin	70.8	52.6	P/P	19 - 126
2295864	Carbophenothion	59.9	46.5	P/P	18 - 108
2295864	Chlorothalonil	180	162	P/P	10 - 262
2295864	Cis-Nonachlor	67.2	58.2	P/P	44 - 112
2295864	Cypermethrin	83.9	75.5	P/P	40 - 178
2295864	Dacthal	92.9	94.0	P/P	60 - 119
2295864	DDD-p,p'	73.2	69.8	P/P	40 - 114
2295864	DDE-p,p'	75.4	66.7	P/P	22 - 125
2295864	DDT-p,p'	70.9	59.6	P/P	39 - 110
2295864	Delta-BHC	116	109	P/P	64 - 174
2295864	Deltamethrin	86.7	70.2	P/P	10 - 227
2295864	Dichlobenil	79.9	78.2	P/P	20 - 99.0
2295864	Dicofol	68.6	65.4	P/P	43 - 115
2295864	Dieldrin	79.1	70.4	P/P	31 - 131
2295864	Endosulfan I	82.2	71.7	P/P	52 - 110
2295864	Endosulfan II	79.1	75.1	P/P	53 - 127
2295864	Endosulfan Sulfate	73.0	79.8	P/P	44 - 135
2295864	Endrin	70.2	66.7	P/P	36 - 122
2295864	Endrin Aldehyde	63.5	63.0	P/P	23 - 115
2295864	Endrin Ketone	85.4	86.7	P/P	46 - 147
2295864	Esfenvalerate	87.4	74.3	P/P	25 - 217
2295864	Ethalfluralin	69.6	61.9	P/P	46 - 99.0
2295864	Fenpropathrin	67.1	57.8	P/P	42 - 121

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P407741

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295864	Gamma-BHC	90.1	91.2	P/P	63 - 131
2295864	Gamma-Chlordane	74.0	63.0	P/P	40 - 108
2295864	Heptachlor	58.3	51.9	P/P	38 - 98.0
2295864	Heptachlor Epoxide	84.6	76.7	P/P	39 - 124
2295864	Hexachlorobenzene	65.6	57.5	P/P	37 - 96.0
2295864	Kepone	189	170	P/P	10 - 216
2295864	Lambda-Cyhalothrin	82.0	70.1	P/P	21 - 220
2295864	Methoprene	77.9	56.1	P/P	19 - 112
2295864	Methoxychlor	73.7	68.9	P/P	56 - 118
2295864	MGK-264	88.0	77.4	P/P	28 - 125
2295864	Mirex	55.1	42.5	P/P	10 - 203
2295864	Oxychlordane	70.3	58.9	P/P	46 - 92.0
2295864	Permethrin	87.5	78.8	P/P	42 - 173
2295864	Phenothrin	87.3	58.7	P/P	10 - 140
2295864	Piperonyl Butoxide	84.3	85.2	P/P	10 - 158
2295864	Prallethrin	68.9	58.6	P/P	19 - 119
2295864	Tau-Fluvalinate	78.5	61.8	P/P	27 - 164
2295864	Tetramethrin	96.6	80.2	P/P	16 - 130
2295864	Trans-Nonachlor	73.4	62.1	P/P	43 - 105
2295864	Triclosan Methyl	86.9	74.8	P/P	50 - 113
2295864	Trifluralin	71.7	62.9	P/P	48 - 98.0

Reference Method: EPA 8270E
Batch ID: P407868

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296202	Acetochlor	84.0	85.5	P/P	66 - 122
2296202	Alachlor	69.9	73.1	P/P	65 - 122
2296202	Ametryn	82.7	71.6	P/P	45 - 173
2296202	Atrazine	96.9	99.3	P/P	70 - 134
2296202	Atrazine Desethyl	39.0	30.0	P/P	25 - 150
2296202	Azinphos Methyl	94.8	75.9	P/P	44 - 174
2296202	Azoxystrobin	90.9	89.1	P/P	10 - 268
2296202	Bromacil	61.9	53.8	P/P	31 - 145
2296202	Butylate	48.2	51.8	P/P	15 - 97.0
2296202	Caffeine	80.1	78.1	P/P	70 - 130
2296202	Carbophenothion	63.8	78.6	P/P	42 - 129
2296202	Carfentrazone Ethyl	93.1	82.6	P/P	62 - 145
2296202	Chlorfenapyr	55.2	63.3	P/P	50 - 150
2296202	Chlorpyrifos Ethyl	74.5	76.4	P/P	60 - 124
2296202	Chlorpyrifos Methyl	66.6	75.4	P/P	66 - 119
2296202	Coumaphos	72.9	60.4	P/P	50 - 220
2296202	Cyanazine	79.3	80.7	P/P	17 - 225
2296202	Cyprodinil	75.1	77.5	P/P	50 - 150
2296202	Demeton	84.0	97.6	P/P	36 - 142
2296202	Diazinon	91.1	93.5	P/P	70 - 128
2296202	Difenoconazole	105	76.6	P/P	33 - 222
2296202	Dimethenamid	72.3	74.1	P/P	54 - 125
2296202	Dimethomorph	117	145	P/P	50 - 150
2296202	Disulfoton	70.6	79.6	P/P	49 - 133
2296202	Dithiopyr	69.0	76.3	P/P	55 - 123
2296202	EPTC	40.9	43.4	P/P	19 - 91.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P407868

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296202	Ethion	59.5	69.3	P/P	13 - 143
2296202	Ethoprop	80.2	94.4	P/P	49 - 144
2296202	Etridiazole	64.4	64.1	P/P	50 - 150
2296202	Fenamiphos	48.5	65.6	P/P	32 - 136
2296202	Fenbuconazole	93.2	42.9	P/F	73 - 148
2296202	Fipronil	72.1	79.6	P/P	57 - 129
2296202	Fipronil Desulfinyl	58.6	68.3	P/P	49 - 127
2296202	Fipronil Sulfide	51.6	63.4	P/P	44 - 127
2296202	Fipronil Sulfone	61.0	63.7	P/P	35 - 126
2296202	Fluazifop-P-butyl	95.7	85.1	P/P	67 - 129
2296202	Fludioxonil	67.0	74.8	P/P	61 - 126
2296202	Flumioxazin	93.5	114	P/P	38 - 279
2296202	Flutolanil	60.2	67.1	P/P	55 - 136
2296202	Fluxapyroxad	56.6	60.8	P/P	33 - 140
2296202	Fonofos	67.3	79.1	P/P	58 - 125
2296202	Hexazinone	83.7	85.2	P/P	57 - 148
2296202	Imazalil	48.4	67.9	P/P	10 - 221
2296202	Iprodione	62.5	67.4	P/P	32 - 140
2296202	Loratadine	93.9	133	P/P	50 - 150
2296202	Malathion	73.0	85.9	P/P	52 - 138
2296202	Metalaxyl	65.4	68.2	P/P	46 - 134
2296202	Metolachlor	77.6	71.7	P/P	58 - 122
2296202	Metribuzin	83.6	90.4	P/P	16 - 272
2296202	Mevinphos	64.4	67.5	P/P	45 - 140
2296202	Molinate	65.7	72.8	P/P	41 - 103
2296202	Myclobutanil	73.1	65.5	P/P	60 - 134
2296202	Naled	88.8	92.6	P/P	20 - 113
2296202	Napropamide	78.3	68.7	P/P	50 - 150
2296202	Norflurazon	68.1	71.5	P/P	51 - 123
2296202	Oxadiazon	57.4	56.3	P/P	44 - 125
2296202	Oxyfluorfen	87.4	88.5	P/P	66 - 176
2296202	Parathion Ethyl	86.2	90.7	P/P	57 - 132
2296202	Parathion Methyl	87.4	110	P/P	59 - 156
2296202	Pendimethalin	102	139	P/F	59 - 129
2296202	Phenytoin	30.6	28.6	F/F	50 - 200
2296202	Phorate	68.2	78.2	P/P	47 - 136
2296202	Prodiamine	38.5	51.0	P/P	10 - 159
2296202	Prometon	110	92.5	P/P	59 - 127
2296202	Prometryn	62.8	64.7	P/P	59 - 129
2296202	Pronamide	108	110	P/P	65 - 145
2296202	Propanil	89.6	89.3	P/P	50 - 150
2296202	Propargite	70.2	57.4	P/P	50 - 200
2296202	Propiconazole	74.2	66.8	P/P	28 - 165
2296202	Pyraflufen Ethyl	65.3	68.2	P/P	50 - 150
2296202	Pyridaben	63.6	65.4	P/P	50 - 200
2296202	Pyriproxyfen	76.4	76.3	P/P	21 - 180
2296202	Simazine	68.0	70.4	P/P	63 - 147
2296202	Stirophos	53.9	50.5	P/P	50 - 150
2296202	Sulfentrazone	59.0	64.8	P/P	32 - 136
2296202	Tebuconazole	55.4	56.3	P/P	10 - 117
2296202	Terbufos	92.8	115	P/P	61 - 131
2296202	Terbuthylazine	88.1	90.3	P/P	62 - 126

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P407868

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296202	Thiobencarb	70.2	73.9	P/P	50 - 150
2296202	Triadimefon	77.5	76.0	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P407741

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295972	Chlordane	86.9	80.3	P/P	47 - 128
2295972	Toxaphene	90.4	89.9	P/P	11 - 163

Reference Method: EPA 8321B
Batch ID: P407617

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295641	Acesulfame K	106	104	P/P	40 - 150
2295641	AMPA	131	135	P/P	40 - 160
2295641	Endothall	97.3	103	P/P	40 - 150
2295641	Glufosinate	128	126	P/P	40 - 160
2295641	Glyphosate	126	127	P/P	40 - 160
2295641	Sucralose	105	102	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P407620

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295376	2,4-D	95.6	82.5	P/P	40 - 150
2295376	2,4,5-T	99.6	102	P/P	40 - 150
2295376	Acetaminophen	87.2	92.9	P/P	30 - 150
2295376	Acetamiprid	84.3	90.8	P/P	40 - 150
2295376	Afidopyropen	85.9	68.7	P/P	40 - 150
2295376	Bentazon	94.3	94.0	P/P	30 - 150
2295376	Benzovindiflupyr	83.1	77.8	P/P	40 - 150
2295376	Carbamazepine	89.3	86.6	P/P	40 - 150
2295376	Clothianidin	93.2	112	P/P	40 - 150
2295376	Dinotefuran	86.7	89.1	P/P	40 - 150
2295376	Diuron	86.6	76.1	P/P	40 - 150
2295376	Fenuron	82.4	78.2	P/P	40 - 150
2295376	Fluridone	87.4	87.9	P/P	40 - 150
2295376	Hydrocodone	101	94.2	P/P	40 - 150
2295376	Ibuprofen	84.0	68.7	P/P	40 - 150
2295376	Imazapyr	108	106	P/P	40 - 150
2295376	Imidacloprid	112	111	P/P	40 - 150
2295376	Linuron	79.1	65.9	P/P	40 - 150
2295376	Mandestrobin	86.6	85.2	P/P	40 - 150
2295376	MCPP	101	94.8	P/P	40 - 150
2295376	Naproxen	71.3	83.4	P/P	40 - 150
2295376	Primidone	163	135	F/P	40 - 150
2295376	Pyraclostrobin	80.6	81.7	P/P	40 - 150
2295376	Silvex	83.2	82.5	P/P	40 - 150
2295376	Thiamethoxam	105	95.2	P/P	40 - 150
2295376	Tolfenpyrad	57.9	48.3	P/P	30 - 150
2295376	Triclopyr	99.7	99.2	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P407683

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2295728	3-Hydroxycarbofuran	69.4	67.0	P/P	40 - 150
2295728	Aldicarb	82.1	66.6	P/P	30 - 150
2295728	Aldicarb Sulfone	74.9	70.4	P/P	40 - 150
2295728	Aldicarb Sulfoxide	42.3	37.5	P/F	40 - 150
2295728	Carbaryl	77.7	64.7	P/P	40 - 150
2295728	Carbofuran	85.6	74.3	P/P	40 - 150
2295728	Methiocarb	94.8	74.9	P/P	40 - 150
2295728	Methomyl	72.6	64.3	P/P	40 - 150
2295728	Oxamyl	69.5	62.5	P/P	40 - 150
2295728	Propoxur	74.6	68.7	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P407753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296200	2,4-D	91.0	104	P/P	40 - 150
2296200	2,4,5-T	113	115	P/P	40 - 150
2296200	Acetaminophen	86.7	99.7	P/P	30 - 150
2296200	Acetamiprid	73.6	85.8	P/P	40 - 150
2296200	Afidopyropen	45.1	68.4	P/P	40 - 150
2296200	Bentazon	95.9	98.0	P/P	30 - 150
2296200	Benzovindiflupyr	80.1	67.3	P/P	40 - 150
2296200	Carbamazepine	87.2	82.7	P/P	40 - 150
2296200	Clothianidin	94.2	86.0	P/P	40 - 150
2296200	Dinotefuran	79.9	93.9	P/P	40 - 150
2296200	Diuron	80.6	75.4	P/P	40 - 150
2296200	Fenuron	75.4	77.5	P/P	40 - 150
2296200	Fluridone	73.1	69.9	P/P	40 - 150
2296200	Hydrocodone	91.8	94.3	P/P	40 - 150
2296200	Ibuprofen	104	81.1	P/P	40 - 150
2296200	Imazapyr	115	123	P/P	40 - 150
2296200	Imidacloprid	107	110	P/P	40 - 150
2296200	Linuron	50.4	62.2	P/P	40 - 150
2296200	Mandestrobin	85.6	79.6	P/P	40 - 150
2296200	MCPP	110	108	P/P	40 - 150
2296200	Naproxen	54.3	44.0	P/P	40 - 150
2296200	Primidone	64.9	128	P/P	40 - 150
2296200	Pyraclostrobin	74.4	64.2	P/P	40 - 150
2296200	Silvex	102	91.1	P/P	40 - 150
2296200	Thiamethoxam	85.0	98.5	P/P	40 - 150
2296200	Tolfenpyrad	35.1	39.9	P/P	30 - 150
2296200	Triclopyr	110	88.4	P/P	40 - 150

Reference Method: SM 4500 F-C-2011
Batch ID: P407994

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296526	Fluoride	98.6	99.2	P/P	92 - 107

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P408216

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2296188	Organic Carbon	95.2	95.1	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P407777

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296187	Turbidity	0.922	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P407727

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296177	Barium	0.0415	Spike	P	0 - 20
2296177	Calcium	1.75	Spike	P	0 - 20
2296177	Iron	2.17	Spike	P	0 - 20
2296177	Magnesium	1.56	Spike	P	0 - 20
2296177	Manganese	0.103	Spike	P	0 - 20
2296177	Potassium	2.34	Spike	P	0 - 20
2296177	Sodium	0.937	Spike	P	0 - 20
2296177	Strontium	0.964	Spike	P	0 - 20
2296177	Tin	1.84	Spike	P	0 - 20
2296177	Titanium	0.389	Spike	P	0 - 20
2296177	Vanadium	0.393	Spike	P	0 - 20
2296177	Zinc	0.0689	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P407727

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296177	Aluminum	0.623	Spike	P	0 - 20
2296177	Antimony	0.332	Spike	P	0 - 20
2296177	Arsenic	0.501	Spike	P	0 - 20
2296177	Beryllium	0.195	Spike	P	0 - 20
2296177	Boron	1.05	Spike	P	0 - 20
2296177	Cadmium	1.15	Spike	P	0 - 20
2296177	Chromium	0.603	Spike	P	0 - 20
2296177	Cobalt	0.687	Spike	P	0 - 20
2296177	Copper	1.45	Spike	P	0 - 20
2296177	Lead	0.133	Spike	P	0 - 20
2296177	Molybdenum	0.296	Spike	P	0 - 20
2296177	Nickel	0.463	Spike	P	0 - 20
2296177	Selenium	2.89	Spike	P	0 - 20
2296177	Silver	0.743	Spike	P	0 - 20
2296177	Thallium	4.07	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407903

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295799	Chloride	0.389	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P407905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295799	Sulfate	0.364	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P408069

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295915	Ammonia-N	1.06	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408074

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295921	Kjeldahl Nitrogen	0.992	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P408284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2297347	Kjeldahl Nitrogen	0.684	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P407740

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296165	NO2NO3-N	0.329	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P407845

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295940	Total-P	0.586	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P407769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296189	O-Phosphate-P	0.716	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P407741

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295864	Aldrin	30.7	Spike	P	0 - 37
2295864	Alpha-BHC	0.968	Spike	P	0 - 16

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P407741

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295864	Alpha-Chlordane	19.7	Spike	P	0 - 28
2295864	Beta-BHC	6.67	Spike	P	0 - 32
2295864	Beta-Cyfluthrin	19.9	Spike	P	0 - 41
2295864	Bifenthrin	29.5	Spike	P	0 - 36
2295864	Carbophenothion	25.2	Spike	P	0 - 30
2295864	Chlorothalonil	10.6	Spike	P	0 - 54
2295864	Cis-Nonachlor	14.3	Spike	P	0 - 33
2295864	Cypermethrin	10.5	Spike	P	0 - 38
2295864	Dacthal	1.19	Spike	P	0 - 23
2295864	DDD-p,p'	4.80	Spike	P	0 - 35
2295864	DDE-p,p'	12.2	Spike	P	0 - 27
2295864	DDT-p,p'	17.3	Spike	P	0 - 31
2295864	Delta-BHC	6.38	Spike	P	0 - 30
2295864	Deltamethrin	21.0	Spike	P	0 - 76
2295864	Dichlobenil	2.15	Spike	P	0 - 33
2295864	Dicofol	4.76	Spike	P	0 - 24
2295864	Dieldrin	10.1	Spike	P	0 - 35
2295864	Endosulfan I	13.6	Spike	P	0 - 25
2295864	Endosulfan II	5.25	Spike	P	0 - 31
2295864	Endosulfan Sulfate	8.90	Spike	P	0 - 38
2295864	Endrin	5.13	Spike	P	0 - 53
2295864	Endrin Aldehyde	0.822	Spike	P	0 - 81
2295864	Endrin Ketone	1.51	Spike	P	0 - 33
2295864	Esfenvalerate	16.1	Spike	P	0 - 46
2295864	Ethalfluralin	11.7	Spike	P	0 - 22
2295864	Fenpropathrin	14.8	Spike	P	0 - 29
2295864	Gamma-BHC	1.17	Spike	P	0 - 17
2295864	Gamma-Chlordane	16.1	Spike	P	0 - 28
2295864	Heptachlor	11.6	Spike	P	0 - 28
2295864	Heptachlor Epoxide	9.81	Spike	P	0 - 23
2295864	Hexachlorobenzene	13.1	Spike	P	0 - 22
2295864	Kepone	10.4	Spike	P	0 - 61
2295864	Lambda-Cyhalothrin	15.7	Spike	P	0 - 52
2295864	Methoprene	32.5	Spike	P	0 - 38
2295864	Methoxychlor	6.74	Spike	P	0 - 29
2295864	MGK-264	12.9	Spike	P	0 - 41
2295864	Mirex	25.9	Spike	P	0 - 39
2295864	Oxychlordane	17.8	Spike	P	0 - 33
2295864	Permethrin	10.4	Spike	P	0 - 39
2295864	Phenothrin	39.2	Spike	P	0 - 52
2295864	Piperonyl Butoxide	1.00	Spike	P	0 - 91
2295864	Prallethrin	16.1	Spike	P	0 - 34
2295864	Tau-Fluvalinate	23.8	Spike	P	0 - 41
2295864	Tetramethrin	18.6	Spike	P	0 - 43
2295864	Trans-Nonachlor	16.7	Spike	P	0 - 31
2295864	Triclosan Methyl	15.0	Spike	P	0 - 24
2295864	Trifluralin	13.2	Spike	P	0 - 23
LFB	Aldrin	17.8	LCS	P	0 - 61
LFB	Alpha-BHC	10.9	LCS	P	0 - 15
LFB	Alpha-Chlordane	12.0	LCS	P	0 - 23
LFB	Beta-BHC	12.6	LCS	P	0 - 24

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P407741

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Beta-Cyfluthrin	6.15	LCS	P	0 - 39
LFB	Bifenthrin	24.9	LCS	P	0 - 48
LFB	Carbophenothion	14.2	LCS	P	0 - 30
LFB	Chlorothalonil	1.50	LCS	P	0 - 32
LFB	Cis-Nonachlor	16.2	LCS	P	0 - 32
LFB	Cypermethrin	11.2	LCS	P	0 - 34
LFB	Dacthal	7.76	LCS	P	0 - 19
LFB	DDD-p,p'	11.7	LCS	P	0 - 28
LFB	DDE-p,p'	9.99	LCS	P	0 - 24
LFB	DDT-p,p'	9.50	LCS	P	0 - 22
LFB	Delta-BHC	12.5	LCS	P	0 - 20
LFB	Deltamethrin	3.08	LCS	P	0 - 47
LFB	Dichlobenil	19.5	LCS	P	0 - 22
LFB	Dicofol	14.9	LCS	P	0 - 21
LFB	Dieldrin	10.3	LCS	P	0 - 21
LFB	Endosulfan I	9.33	LCS	P	0 - 20
LFB	Endosulfan II	6.76	LCS	P	0 - 22
LFB	Endosulfan Sulfate	4.07	LCS	P	0 - 25
LFB	Endrin	16.0	LCS	P	0 - 20
LFB	Endrin Aldehyde	7.28	LCS	P	0 - 33
LFB	Endrin Ketone	4.66	LCS	P	0 - 20
LFB	Esfenvalerate	1.66	LCS	P	0 - 42
LFB	Ethalfluralin	22.3	LCS	F	0 - 20
LFB	Fenpropathrin	15.2	LCS	P	0 - 29
LFB	Gamma-BHC	14.9	LCS	P	0 - 16
LFB	Gamma-Chlordane	11.7	LCS	P	0 - 23
LFB	Heptachlor	16.5	LCS	P	0 - 27
LFB	Heptachlor Epoxide	9.99	LCS	P	0 - 20
LFB	Hexachlorobenzene	22.7	LCS	P	0 - 24
LFB	Kepone	5.43	LCS	P	0 - 80
LFB	Lambda-Cyhalothrin	9.12	LCS	P	0 - 42
LFB	Methoprene	6.04	LCS	P	0 - 48
LFB	Methoxychlor	17.2	LCS	P	0 - 22
LFB	MGK-264	3.20	LCS	P	0 - 54
LFB	Mirex	13.9	LCS	P	0 - 32
LFB	Oxychlordane	10.6	LCS	P	0 - 21
LFB	Permethrin	14.2	LCS	P	0 - 36
LFB	Phenothrin	11.8	LCS	P	0 - 60
LFB	Piperonyl Butoxide	13.1	LCS	P	0 - 36
LFB	Prallethrin	2.89	LCS	P	0 - 41
LFB	Tau-Fluvalinate	1.69	LCS	P	0 - 40
LFB	Tetramethrin	1.39	LCS	P	0 - 66
LFB	Trans-Nonachlor	12.1	LCS	P	0 - 25
LFB	Triclosan Methyl	11.5	LCS	P	0 - 19
LFB	Trifluralin	21.7	LCS	F	0 - 21

Reference Method: EPA 8270E
Batch ID: P407868

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P407868

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296202	Acetochlor	1.88	Spike	P	0 - 24
2296202	Alachlor	4.44	Spike	P	0 - 24
2296202	Ametryn	14.4	Spike	P	0 - 27
2296202	Atrazine	2.46	Spike	P	0 - 29
2296202	Atrazine Desethyl	26.1	Spike	P	0 - 30
2296202	Azinphos Methyl	22.1	Spike	P	0 - 50
2296202	Azoxystrobin	1.98	Spike	P	0 - 32
2296202	Bromacil	14.0	Spike	P	0 - 30
2296202	Butylate	7.09	Spike	P	0 - 47
2296202	Caffeine	2.49	Spike	P	0 - 60
2296202	Carbophenothion	20.7	Spike	P	0 - 24
2296202	Carfentrazone Ethyl	12.0	Spike	P	0 - 26
2296202	Chlorfenapyr	13.7	Spike	P	0 - 30
2296202	Chlorpyrifos Ethyl	2.59	Spike	P	0 - 27
2296202	Chlorpyrifos Methyl	12.4	Spike	P	0 - 22
2296202	Coumaphos	18.8	Spike	P	0 - 30
2296202	Cyanazine	1.78	Spike	P	0 - 32
2296202	Cyprodinil	3.13	Spike	P	0 - 30
2296202	Demeton	15.0	Spike	P	0 - 25
2296202	Diazinon	2.60	Spike	P	0 - 24
2296202	Difenoconazole	31.5	Spike	F	0 - 25
2296202	Dimethenamid	2.50	Spike	P	0 - 30
2296202	Dimethomorph	21.2	Spike	P	0 - 30
2296202	Disulfoton	12.0	Spike	P	0 - 26
2296202	Dithiopyr	10.0	Spike	P	0 - 22
2296202	EPTC	5.82	Spike	P	0 - 38
2296202	Ethion	15.2	Spike	P	0 - 47
2296202	Ethoprop	16.2	Spike	P	0 - 23
2296202	Etridiazole	0.418	Spike	P	0 - 30
2296202	Fenamiphos	29.9	Spike	P	0 - 34
2296202	Fenbuconazole	73.9	Spike	F	0 - 37
2296202	Fipronil	9.80	Spike	P	0 - 23
2296202	Fipronil Desulfinyl	15.2	Spike	P	0 - 26
2296202	Fipronil Sulfide	20.5	Spike	P	0 - 23
2296202	Fipronil Sulfone	4.30	Spike	P	0 - 24
2296202	Fluazifop-P-butyl	11.8	Spike	P	0 - 24
2296202	Fludioxonil	10.5	Spike	P	0 - 26
2296202	Flumioxazin	19.6	Spike	P	0 - 37
2296202	Flutolanil	10.9	Spike	P	0 - 26
2296202	Fluxapyroxad	7.07	Spike	P	0 - 34
2296202	Fonofos	16.2	Spike	P	0 - 22
2296202	Hexazinone	1.30	Spike	P	0 - 21
2296202	Imazalil	33.5	Spike	P	0 - 65
2296202	Iprodione	7.61	Spike	P	0 - 33
2296202	Loratadine	34.2	Spike	F	0 - 30
2296202	Malathion	16.1	Spike	P	0 - 26
2296202	Metalaxyl	4.24	Spike	P	0 - 38
2296202	Metolachlor	7.92	Spike	P	0 - 36
2296202	Metribuzin	7.83	Spike	P	0 - 29
2296202	Mevinphos	4.70	Spike	P	0 - 26
2296202	Molinate	10.2	Spike	P	0 - 27

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P407868

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296202	Myclobutanil	11.0	Spike	P	0 - 21
2296202	Naled	4.23	Spike	P	0 - 26
2296202	Napropamide	13.1	Spike	P	0 - 30
2296202	Norflurazon	4.91	Spike	P	0 - 24
2296202	Oxadiazon	2.03	Spike	P	0 - 23
2296202	Oxyfluorfen	1.30	Spike	P	0 - 24
2296202	Parathion Ethyl	5.18	Spike	P	0 - 23
2296202	Parathion Methyl	22.7	Spike	P	0 - 23
2296202	Pendimethalin	30.7	Spike	P	0 - 31
2296202	Phenytoin	6.85	Spike	P	0 - 30
2296202	Phorate	13.6	Spike	P	0 - 27
2296202	Prodiamine	28.0	Spike	P	0 - 52
2296202	Prometon	17.1	Spike	P	0 - 31
2296202	Prometryn	3.05	Spike	P	0 - 24
2296202	Pronamide	1.60	Spike	P	0 - 26
2296202	Propanil	0.340	Spike	P	0 - 30
2296202	Propargite	20.1	Spike	P	0 - 30
2296202	Propiconazole	10.5	Spike	P	0 - 31
2296202	Pyraflufen Ethyl	4.24	Spike	P	0 - 30
2296202	Pyridaben	2.66	Spike	P	0 - 30
2296202	Pyriproxyfen	0.0786	Spike	P	0 - 50
2296202	Simazine	3.55	Spike	P	0 - 25
2296202	Stirophos	6.40	Spike	P	0 - 30
2296202	Sulfentrazone	9.38	Spike	P	0 - 33
2296202	Tebuconazole	1.58	Spike	P	0 - 43
2296202	Terbufos	21.5	Spike	P	0 - 22
2296202	Terbuthylazine	2.54	Spike	P	0 - 24
2296202	Thiobencarb	5.23	Spike	P	0 - 30
2296202	Triadimefon	1.94	Spike	P	0 - 30
LFB	Acetochlor	10.7	LCS	P	0 - 22
LFB	Alachlor	6.88	LCS	P	0 - 20
LFB	Ametryn	0.899	LCS	P	0 - 25
LFB	Atrazine	3.41	LCS	P	0 - 20
LFB	Atrazine Desethyl	0.830	LCS	P	0 - 33
LFB	Azinphos Methyl	17.4	LCS	P	0 - 51
LFB	Azoxystrobin	11.7	LCS	P	0 - 47
LFB	Bromacil	21.2	LCS	P	0 - 26
LFB	Butylate	3.77	LCS	P	0 - 35
LFB	Caffeine	1.26	LCS	P	0 - 27
LFB	Carbophenothion	0.533	LCS	P	0 - 22
LFB	Carfentrazone Ethyl	3.21	LCS	P	0 - 21
LFB	Chlorfenapyr	11.0	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	5.57	LCS	P	0 - 23
LFB	Chlorpyrifos Methyl	1.98	LCS	P	0 - 24
LFB	Coumaphos	18.7	LCS	P	0 - 30
LFB	Cyanazine	8.20	LCS	P	0 - 37
LFB	Cyprodinil	18.4	LCS	P	0 - 30
LFB	Demeton	9.80	LCS	P	0 - 32
LFB	Diazinon	9.34	LCS	P	0 - 21
LFB	Difenoconazole	33.9	LCS	P	0 - 37
LFB	Dimethenamid	17.7	LCS	P	0 - 21

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P407868

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Dimethomorph	23.9	LCS	P	0 - 30
LFB	Disulfoton	25.0	LCS	P	0 - 31
LFB	Dithiopyr	1.27	LCS	P	0 - 21
LFB	EPTC	10.9	LCS	P	0 - 41
LFB	Ethion	41.7	LCS	P	0 - 45
LFB	Ethoprop	8.22	LCS	P	0 - 28
LFB	Etridiazole	4.82	LCS	P	0 - 30
LFB	Fenamiphos	5.80	LCS	P	0 - 28
LFB	Fenbuconazole	35.3	LCS	P	0 - 36
LFB	Fipronil	7.99	LCS	P	0 - 23
LFB	Fipronil Desulfinyl	3.37	LCS	P	0 - 22
LFB	Fipronil Sulfide	0.101	LCS	P	0 - 24
LFB	Fipronil Sulfone	22.5	LCS	P	0 - 24
LFB	Fluazifop-P-butyl	18.6	LCS	P	0 - 23
LFB	Fludioxonil	1.11	LCS	P	0 - 23
LFB	Flumioxazin	30.3	LCS	P	0 - 39
LFB	Flutolanil	23.9	LCS	P	0 - 27
LFB	Fluxapyroxad	8.16	LCS	P	0 - 38
LFB	Fonofos	10.3	LCS	P	0 - 28
LFB	Hexazinone	14.7	LCS	P	0 - 27
LFB	Imazalil	27.6	LCS	P	0 - 45
LFB	Iprodione	4.67	LCS	P	0 - 42
LFB	Loratadine	30.5	LCS	F	0 - 30
LFB	Malathion	177	LCS	F	0 - 23
LFB	Metalaxyl	15.4	LCS	P	0 - 41
LFB	Metolachlor	8.75	LCS	P	0 - 21
LFB	Metribuzin	9.46	LCS	P	0 - 31
LFB	Mevinphos	4.49	LCS	P	0 - 32
LFB	Molinate	2.29	LCS	P	0 - 31
LFB	Myclobutanil	12.9	LCS	P	0 - 27
LFB	Naled	1.02	LCS	P	0 - 32
LFB	Napropamide	12.5	LCS	P	0 - 30
LFB	Norflurazon	11.5	LCS	P	0 - 25
LFB	Oxadiazon	14.2	LCS	P	0 - 25
LFB	Oxyfluorfen	3.80	LCS	P	0 - 22
LFB	Parathion Ethyl	8.35	LCS	P	0 - 32
LFB	Parathion Methyl	19.5	LCS	P	0 - 30
LFB	Pendimethalin	15.2	LCS	P	0 - 39
LFB	Phenytoin	44.5	LCS	F	0 - 30
LFB	Phorate	23.1	LCS	P	0 - 36
LFB	Prodiamine	27.0	LCS	P	0 - 71
LFB	Prometon	8.90	LCS	P	0 - 23
LFB	Prometryn	2.36	LCS	P	0 - 22
LFB	Pronamide	18.7	LCS	P	0 - 21
LFB	Propanil	0.575	LCS	P	0 - 30
LFB	Propargite	19.3	LCS	P	0 - 30
LFB	Propiconazole	6.84	LCS	P	0 - 23
LFB	Pyraflufen Ethyl	7.77	LCS	P	0 - 30
LFB	Pyridaben	38.0	LCS	F	0 - 30
LFB	Pyriproxyfen	15.1	LCS	P	0 - 53
LFB	Simazine	9.86	LCS	P	0 - 22

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P407868

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Stirophos	25.3	LCS	P	0 - 30
LFB	Sulfentrazone	15.5	LCS	P	0 - 45
LFB	Tebuconazole	26.1	LCS	P	0 - 52
LFB	Terbufos	10.8	LCS	P	0 - 27
LFB	Terbuthylazine	8.46	LCS	P	0 - 21
LFB	Thiobencarb	153	LCS	F	0 - 30
LFB	Triadimefon	6.96	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P407741

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295972	Chlordane	7.96	Spike	P	0 - 30
2295972	Toxaphene	0.608	Spike	P	0 - 30
LFB	Chlordane	1.73	LCS	P	0 - 30
LFB	Toxaphene	0.510	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P407617

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295641	Acesulfame K	1.49	Spike	P	0 - 30
2295641	AMPA	2.83	Spike	P	0 - 30
2295641	Endothall	6.00	Spike	P	0 - 30
2295641	Glufosinate	1.72	Spike	P	0 - 30
2295641	Glyphosate	0.769	Spike	P	0 - 30
2295641	Sucralose	3.20	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P407620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295376	2,4-D	14.7	Spike	P	0 - 30
2295376	2,4,5-T	2.51	Spike	P	0 - 30
2295376	Acetaminophen	6.38	Spike	P	0 - 30
2295376	Acetamiprid	7.42	Spike	P	0 - 30
2295376	Afidopyropen	22.3	Spike	P	0 - 30
2295376	Bentazon	0.320	Spike	P	0 - 30
2295376	Benzovindiflupyr	6.69	Spike	P	0 - 30
2295376	Carbamazepine	3.07	Spike	P	0 - 30
2295376	Clothianidin	18.0	Spike	P	0 - 30
2295376	Dinotefuran	2.68	Spike	P	0 - 30
2295376	Diuron	13.0	Spike	P	0 - 30
2295376	Fenuron	5.21	Spike	P	0 - 30
2295376	Fluridone	0.622	Spike	P	0 - 30
2295376	Hydrocodone	7.01	Spike	P	0 - 30
2295376	Ibuprofen	20.0	Spike	P	0 - 30
2295376	Imazapyr	2.16	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P407620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295376	Imidacloprid	0.881	Spike	P	0 - 30
2295376	Linuron	18.2	Spike	P	0 - 30
2295376	Mandestrobin	1.61	Spike	P	0 - 30
2295376	MCPP	6.48	Spike	P	0 - 30
2295376	Naproxen	15.6	Spike	P	0 - 30
2295376	Primidone	18.7	Spike	P	0 - 30
2295376	Pyraclostrobin	1.40	Spike	P	0 - 30
2295376	Silvex	0.802	Spike	P	0 - 30
2295376	Thiamethoxam	9.84	Spike	P	0 - 30
2295376	Tolfenpyrad	18.1	Spike	P	0 - 30
2295376	Triclopyr	0.503	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P407683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295728	3-Hydroxycarbofuran	3.47	Spike	P	0 - 30
2295728	Aldicarb	20.9	Spike	P	0 - 30
2295728	Aldicarb Sulfone	6.17	Spike	P	0 - 30
2295728	Aldicarb Sulfoxide	12.1	Spike	P	0 - 30
2295728	Carbaryl	18.4	Spike	P	0 - 30
2295728	Carbofuran	14.1	Spike	P	0 - 30
2295728	Methiocarb	23.5	Spike	P	0 - 30
2295728	Methomyl	12.1	Spike	P	0 - 30
2295728	Oxamyl	10.6	Spike	P	0 - 30
2295728	Propoxur	8.17	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P407753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296200	2,4-D	13.4	Spike	P	0 - 30
2296200	2,4,5-T	1.84	Spike	P	0 - 30
2296200	Acetaminophen	13.9	Spike	P	0 - 30
2296200	Acetamiprid	15.3	Spike	P	0 - 30
2296200	Afidopyropen	41.0	Spike	F	0 - 30
2296200	Bentazon	2.17	Spike	P	0 - 30
2296200	Benzovindiflupyr	17.4	Spike	P	0 - 30
2296200	Carbamazepine	5.25	Spike	P	0 - 30
2296200	Clothianidin	9.14	Spike	P	0 - 30
2296200	Dinotefuran	16.0	Spike	P	0 - 30
2296200	Diuron	6.63	Spike	P	0 - 30
2296200	Fenuron	2.77	Spike	P	0 - 30
2296200	Fluridone	4.42	Spike	P	0 - 30
2296200	Hydrocodone	2.73	Spike	P	0 - 30
2296200	Ibuprofen	24.5	Spike	P	0 - 30
2296200	Imazapyr	5.39	Spike	P	0 - 30
2296200	Imidacloprid	3.32	Spike	P	0 - 30
2296200	Linuron	21.0	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P407753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296200	Mandestrobin	7.26	Spike	P	0 - 30
2296200	MCPP	2.44	Spike	P	0 - 30
2296200	Naproxen	21.0	Spike	P	0 - 30
2296200	Primidone	65.7	Spike	F	0 - 30
2296200	Pyraclostrobin	14.7	Spike	P	0 - 30
2296200	Silvex	11.7	Spike	P	0 - 30
2296200	Thiamethoxam	14.7	Spike	P	0 - 30
2296200	Tolfenpyrad	12.7	Spike	P	0 - 30
2296200	Triclopyr	21.5	Spike	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P407773

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296276	Color (true)	8.09	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P407987

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296526	Total Alkalinity	3.63	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P407914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295790	TDS	0.0	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P407915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295938	TDS	2.87	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P407818

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2295938	TSS	2.82	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P407994

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296526	Fluoride	0.492	Spike	P	0 - 2.1

Quality Assurance Report
Precision

Reference Method: SM 5310 B-2011
Batch ID: P408216

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2296188	Organic Carbon	0.127	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2296197
Field Sample ID: G1TLHR0057

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	62.0	P	30 - 160

Lab Sample ID: 2296198
Field Sample ID: G1TLHR0057

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	86.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	80.3	P	30 - 160
EPA 8321B	Diuron-d6	74.8	P	30 - 160
EPA 8321B	Endothall-d6	93.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	108	P	30 - 160
EPA 8321B	Ibuprofen-d3	99.4	P	30 - 160
EPA 8321B	Primidone-d5	82.5	P	30 - 160
EPA 8321B	Sucralose-d6	114	P	30 - 160

Lab Sample ID: 2296199
Field Sample ID: G2TLHR0020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	69.9	P	30 - 160

Lab Sample ID: 2296200
Field Sample ID: G2TLHR0020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	101	P	30 - 160
EPA 8321B	Acetaminophen-d4	95.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	85.9	P	30 - 160
EPA 8321B	Diuron-d6	91.7	P	30 - 160
EPA 8321B	Endothall-d6	92.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	108	P	30 - 160
EPA 8321B	Ibuprofen-d3	125	P	30 - 160
EPA 8321B	Primidone-d5	95.4	P	30 - 160
EPA 8321B	Sucralose-d6	113	P	30 - 160

Lab Sample ID: 2296201
Field Sample ID: G1TLHR0057

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	104	P	29 - 123
EPA 8270E	Tetrachloro-m-xylene	57.8	P	24 - 97.0
EPA 8276	Decachlorobiphenyl	62.3	P	29 - 92.0
EPA 8276	PCNB	72.3	P	43 - 134

Lab Sample ID: 2296202
Field Sample ID: G1TLHR0057

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	58.6	P	20 - 200
EPA 8270E	Simazine-d10	101	P	73 - 135
EPA 8270E	Terbufos-d10	107	P	58 - 130

Quality Assurance Report
Surrogates

Lab Sample ID: 2296203
Field Sample ID: G2TLHR0020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	70.4	P	29 - 123
EPA 8270E	Tetrachloro-m-xylene	44.9	P	24 - 97.0
EPA 8276	Decachlorobiphenyl	52.9	P	29 - 92.0
EPA 8276	PCNB	60.5	P	43 - 134

Lab Sample ID: 2296204
Field Sample ID: G2TLHR0020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	55.2	P	20 - 200
EPA 8270E	Simazine-d10	97.4	P	73 - 135
EPA 8270E	Terbufos-d10	91.1	P	58 - 130

Lab Sample ID: 2296205
Field Sample ID: FB_12202021

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	68.9	P	29 - 123
EPA 8270E	Tetrachloro-m-xylene	64.1	P	24 - 97.0

Quality Assurance Report
Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A109508
Included Lab Sample IDs: 2296188, 2296191

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A109514
Included Lab Sample IDs: 2296189, 2296192

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.5	99.4	P/P	90 - 110

Reference Method: SM 2120 B-2011
Run ID: A109516
Included Lab Sample IDs: 2296187, 2296190

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	103	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A109517
Included Lab Sample IDs: 2296187, 2296190

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

Reference Method: EPA 8321B
Run ID: A109521
Included Lab Sample IDs: 2296198, 2296200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	128	130	P/P	60 - 160
Glufosinate	130	128	P/P	60 - 160
Glyphosate	114	121	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A109560
Included Lab Sample IDs: 2296198, 2296200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	101	88.9	P/P	60 - 160
Endothall	79.2	78.1	P/P	60 - 160
Sucralose	92.3	93.4	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A109573
Included Lab Sample IDs: 2296187, 2296190

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.8	100	P/P	90 - 110
Sulfate	98.9	100	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A109575
Included Lab Sample IDs: 2296206, 2296207, 2296208

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	101	98.1	P/P	90 - 110
Barium	98.1	98.4	P/P	90 - 110
Calcium	99.1	99.2	P/P	90 - 110
Calcium	99.2	98.8	P/P	90 - 110
Iron	102	103	P/P	90 - 110
Iron	103	101	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Manganese	100	98.1	P/P	90 - 110
Manganese	98.1	98.2	P/P	90 - 110
Potassium	98.1	99.2	P/P	90 - 110
Potassium	99.2	99.1	P/P	90 - 110
Sodium	97.3	97.8	P/P	90 - 110
Sodium	97.8	97.5	P/P	90 - 110
Strontium	98.4	99.9	P/P	90 - 110
Strontium	99.9	99.2	P/P	90 - 110
Tin	100	98.9	P/P	90 - 110
Tin	98.9	99.3	P/P	90 - 110
Titanium	97.7	95.6	P/P	90 - 110
Titanium	99.7	97.7	P/P	90 - 110
Vanadium	96.5	96.5	P/P	90 - 110
Vanadium	98.5	96.5	P/P	90 - 110
Zinc	100	97.4	P/P	90 - 110
Zinc	97.4	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A109584
Included Lab Sample IDs: 2296188

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A109592
Included Lab Sample IDs: 2296191

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	97.0	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A109622
Included Lab Sample IDs: 2296201, 2296203

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.4		P	80 - 120
Toxaphene	100		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A109624
Included Lab Sample IDs: 2296206, 2296207, 2296208

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	100	99.0	P/P	90 - 110
Aluminum	99.0	106	P/P	90 - 110
Antimony	99.5	99.7	P/P	90 - 110
Antimony	99.7	99.8	P/P	90 - 110
Arsenic	98.1	98.4	P/P	90 - 110
Arsenic	98.4	101	P/P	90 - 110
Beryllium	94.2	96.2	P/P	90 - 110
Beryllium	96.2	96.0	P/P	90 - 110
Boron	97.9	105	P/P	90 - 110
Boron	99.6	97.9	P/P	90 - 110
Cadmium	99.5	100	P/P	90 - 110
Cadmium	99.8	99.5	P/P	90 - 110
Chromium	96.0	99.0	P/P	90 - 110
Chromium	96.2	96.0	P/P	90 - 110
Cobalt	98.8	99.7	P/P	90 - 110
Cobalt	99.7	103	P/P	90 - 110
Copper	97.3	97.3	P/P	90 - 110
Copper	97.3	101	P/P	90 - 110
Lead	97.5	98.5	P/P	90 - 110
Lead	98.5	98.5	P/P	90 - 110
Molybdenum	98.5	98.8	P/P	90 - 110
Molybdenum	98.8	99.3	P/P	90 - 110
Nickel	97.1	97.4	P/P	90 - 110
Nickel	97.4	101	P/P	90 - 110
Selenium	98.6	100	P/P	90 - 110
Selenium	98.9	98.6	P/P	90 - 110
Silver	103	103	P/P	90 - 110
Silver	103	103	P/P	90 - 110
Thallium	102	109	P/P	90 - 110
Thallium	109	104	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A109633
Included Lab Sample IDs: 2296187, 2296190

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.3	96.8	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A109633
Included Lab Sample IDs: 2296187, 2296190

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

Reference Method: EPA 8270E
Run ID: A109637
Included Lab Sample IDs: 2296201, 2296203, 2296205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.4		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A109637
Included Lab Sample IDs: 2296201, 2296203, 2296205

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-BHC	99.3		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	97.8		P	80 - 120
Beta-Cyfluthrin	89.5		P	80 - 120
Bifenthrin	99.0		P	80 - 120
Carbophenothion	96.4		P	80 - 120
Chlorothalonil	114		P	80 - 120
Cis-Nonachlor	99.1		P	80 - 120
Cypermethrin	99.2		P	80 - 120
Dacthal	98.7		P	80 - 120
DDD-p,p'	97.1		P	80 - 120
DDE-p,p'	96.5		P	80 - 120
DDT-p,p'	91.5		P	80 - 120
Delta-BHC	94.6		P	80 - 120
Deltamethrin	91.3		P	80 - 120
Dichlobenil	99.6		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	97.9		P	80 - 120
Endosulfan I	96.7		P	80 - 120
Endosulfan II	94.7		P	80 - 120
Endosulfan Sulfate	91.3		P	80 - 120
Endrin	98.5		P	80 - 120
Endrin Aldehyde	94.4		P	80 - 120
Endrin Ketone	92.8		P	80 - 120
Esfenvalerate	91.6		P	80 - 120
Ethalfluralin	100		P	80 - 120
Fenpropathrin	97.2		P	80 - 120
Gamma-BHC	98.2		P	80 - 120
Gamma-Chlordane	98.5		P	80 - 120
Heptachlor	98.5		P	80 - 120
Heptachlor Epoxide	97.8		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Kepone	110		P	80 - 120
Lambda-Cyhalothrin	91.8		P	80 - 120
Methoprene	102		P	80 - 120
Methoxychlor	96.8		P	80 - 120
MGK-264	93.5		P	80 - 120
Mirex	93.9		P	80 - 120
Oxychlordane	97.6		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	116		P	80 - 120
Piperonyl Butoxide	93.8		P	80 - 120
Prallethrin	93.7		P	80 - 120
Tau-Fluvalinate	91.8		P	80 - 120
Tetramethrin	106		P	80 - 120
Trans-Nonachlor	98.2		P	80 - 120
Triclosan Methyl	96.7		P	80 - 120
Trifluralin	100		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A109654
Included Lab Sample IDs: 2296200

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	118	92.2	P/P	50 - 150
2,4,5-T	122	113	P/P	50 - 150
3-Hydroxycarbofuran	103	84.2	P/P	60 - 150
Acetaminophen	79.5	83.3	P/P	60 - 160
Acetamiprid	96.0	108	P/P	50 - 150
Afidopyropen	69.6	85.0	P/P	50 - 150
Aldicarb	114	94.6	P/P	60 - 150
Aldicarb Sulfone	97.5	107	P/P	50 - 150
Aldicarb Sulfoxide	96.5	104	P/P	50 - 150
Bentazon	109	125	P/P	50 - 160
Benzovindiflupyr	95.2	96.6	P/P	50 - 150
Carbamazepine	104	87.0	P/P	60 - 150
Carbaryl	89.7	87.3	P/P	60 - 150
Carbofuran	102	104	P/P	50 - 150
Clothianidin	97.8	108	P/P	60 - 150
Dinotefuran	109	95.4	P/P	50 - 150
Diuron	95.8	93.3	P/P	60 - 160
Fenuron	96.9	82.7	P/P	60 - 150
Fluridone	91.7	95.2	P/P	60 - 160
Hydrocodone	98.3	103	P/P	60 - 150
Ibuprofen	119	137	P/P	50 - 160
Imazapyr	127	84.8	P/P	50 - 150
Imidacloprid	106	87.8	P/P	60 - 150
Linuron	99.2	92.6	P/P	60 - 150
Mandestrobin	106	98.8	P/P	50 - 150
MCPP	107	114	P/P	50 - 150
Methiocarb	89.6	96.3	P/P	50 - 150
Methomyl	98.4	104	P/P	50 - 150
Naproxen	118	106	P/P	50 - 160
Oxamyl	93.6	101	P/P	50 - 150
Primidone	116	70.0	P/P	60 - 150
Propoxur	88.7	91.4	P/P	50 - 150
Pyraclostrobin	96.5	92.2	P/P	60 - 150
Silvex	95.6	100	P/P	50 - 150
Thiamethoxam	98.2	83.5	P/P	50 - 150
Tolfenpyrad	88.3	94.3	P/P	60 - 150
Triclopyr	104	110	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A109658
Included Lab Sample IDs: 2296188, 2296191

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	98.4	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A109663
Included Lab Sample IDs: 2296198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.2	112	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A109663
Included Lab Sample IDs: 2296198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4,5-T	118	87.0	P/P	50 - 150
Acetaminophen	95.9	90.6	P/P	60 - 160
Acetamiprid	104	105	P/P	50 - 150
Afidopyropen	81.6	103	P/P	50 - 150
Bentazon	136	113	P/P	50 - 160
Benzovindiflupyr	102	103	P/P	50 - 150
Carbamazepine	100	98.2	P/P	60 - 150
Clothianidin	102	99.6	P/P	60 - 150
Dinotefuran	99.2	102	P/P	50 - 150
Diuron	97.7	99.9	P/P	60 - 160
Fenuron	98.8	93.4	P/P	60 - 150
Fluridone	102	91.4	P/P	60 - 160
Hydrocodone	107	114	P/P	60 - 150
Ibuprofen	80.2	90.9	P/P	50 - 160
Imazapyr	143	113	P/P	50 - 150
Imidacloprid	97.6	94.3	P/P	60 - 150
Linuron	98.1	75.7	P/P	60 - 150
Mandestrobin	103	105	P/P	50 - 150
MCPP	107	91.3	P/P	50 - 150
Naproxen	78.2	128	P/P	50 - 160
Primidone	130	72.1	P/P	60 - 150
Pyraclostrobin	97.4	104	P/P	60 - 150
Silvex	109	93.0	P/P	50 - 150
Thiamethoxam	91.9	99.6	P/P	50 - 150
Tolfenpyrad	91.9	86.2	P/P	60 - 150
Triclopyr	93.8	124	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A109678
Included Lab Sample IDs: 2296202, 2296204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	92.3		P	80 - 120
Alachlor	86.5		P	80 - 120
Ametryn	89.9		P	80 - 120
Atrazine	98.3		P	80 - 120
Atrazine Desethyl	95.4		P	80 - 120
Azinphos Methyl	90.9		P	80 - 120
Azoxystrobin	96.0		P	80 - 120
Bromacil	96.3		P	80 - 120
Butylate	97.8		P	80 - 120
Caffeine	95.8		P	80 - 120
Carbophenothion	110		P	80 - 120
Carfentrazone Ethyl	101		P	80 - 120
Chlorfenapyr	104		P	80 - 120
Chlorpyrifos Ethyl	100		P	80 - 120
Chlorpyrifos Methyl	98.6		P	80 - 120
Coumaphos	107		P	80 - 120
Cyanazine	105		P	80 - 120
Cyprodinil	92.3		P	80 - 120
Demeton	101		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A109678
Included Lab Sample IDs: 2296202, 2296204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diazinon	90.7		P	80 - 120
Difenoconazole	93.4		P	80 - 120
Dimethenamid	91.5		P	80 - 120
Dimethomorph	98.2		P	80 - 120
Disulfoton	97.9		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	101		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	95.0		P	80 - 120
Fenamiphos	109		P	80 - 120
Fenbuconazole	102		P	80 - 120
Fipronil	96.5		P	80 - 120
Fipronil Desulfinyl	93.6		P	80 - 120
Fipronil Sulfide	107		P	80 - 120
Fipronil Sulfone	108		P	80 - 120
Fluazifop-P-butyl	85.6		P	80 - 120
Fludioxonil	94.1		P	80 - 120
Flumioxazin	102		P	80 - 120
Flutolanil	100		P	80 - 120
Fluxapyroxad	97.6		P	80 - 120
Fonofos	98.2		P	80 - 120
Hexazinone	97.6		P	80 - 120
Imazalil	88.6		P	80 - 120
Iprodione	98.9		P	80 - 120
Loratadine	93.4		P	80 - 120
Malathion	98.1		P	80 - 120
Metalaxyl	91.3		P	80 - 120
Metolachlor	95.1		P	80 - 120
Metribuzin	107		P	80 - 120
Mevinphos	104		P	80 - 120
Molinate	98.5		P	80 - 120
Myclobutanil	97.6		P	80 - 120
Naled	115		P	80 - 120
Napropamide	103		P	80 - 120
Norflurazon	94.0		P	80 - 120
Oxadiazon	98.6		P	80 - 120
Oxyfluorfen	98.8		P	80 - 120
Parathion Ethyl	96.4		P	80 - 120
Parathion Methyl	86.9		P	80 - 120
Pendimethalin	105		P	80 - 120
Phenytoin	94.4		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	109		P	80 - 120
Prometon	92.9		P	80 - 120
Prometryn	90.0		P	80 - 120
Pronamide	91.5		P	80 - 120
Propanil	91.5		P	80 - 120
Propargite	93.3		P	80 - 120
Propiconazole	95.6		P	80 - 120
Pyraflufen Ethyl	96.0		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A109678
Included Lab Sample IDs: 2296202, 2296204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyridaben	103		P	80 - 120
Pyriproxyfen	95.6		P	80 - 120
Simazine	104		P	80 - 120
Stirophos	101		P	80 - 120
Sulfentrazone	89.8		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	99.6		P	80 - 120
Terbuthylazine	90.5		P	80 - 120
Thiobencarb	95.2		P	80 - 120
Triadimefon	96.3		P	80 - 120

Reference Method: EPA 8270E
Run ID: A109679
Included Lab Sample IDs: 2296202

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carfentrazone Ethyl	103		P	80 - 120
Fenbuconazole	102		P	80 - 120
Fluazifop-P-butyl	106		P	80 - 120
Napropamide	102		P	80 - 120
Stirophos	92.8		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A109713
Included Lab Sample IDs: 2296191

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	91.9	97.2	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A109725
Included Lab Sample IDs: 2296188, 2296191

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	95.7	P/P	90 - 110
Organic Carbon	96.1	95.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A109815
Included Lab Sample IDs: 2296188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.9	92.5	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		Precision		
						LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						0.922	
EPA 200.7 Rev. 4.4	Barium	101		101	101			0.0415
	Calcium	103		102	104			1.75
	Iron	106		106	109			2.17
	Magnesium	104		106	108			1.56
	Manganese	101		101	101			0.103
	Potassium	103		101	104			2.34
	Sodium	102		101	103			0.937
	Strontium	99.7		100	101			0.964
	Tin	101		102	104			1.84
	Titanium	102		102	101			0.389
	Vanadium	100		101	101			0.393
	Zinc	102		103	103			0.0689
EPA 200.8 Rev. 5.4	Aluminum	98.6		104	103			0.623
	Antimony	96.7		103	103			0.332
	Arsenic	96.5		102	101			0.501
	Beryllium	90.0		96.2	96.4			0.195
	Boron	96.9		102	101			1.05
	Cadmium	98.4		102	101			1.15
	Chromium	95.8		102	101			0.603
	Cobalt	100		106	105			0.687
	Copper	96.0		103	101			1.45
	Lead	98.9		105	105			0.133
	Molybdenum	97.6		103	103			0.296
	Nickel	96.5		102	101			0.463
	Selenium	97.5		102	99.1			2.89
	Silver	103		106	105			0.743
	Thallium	89.9		97.4	101			4.07
EPA 300.0 Rev. 2.1	Chloride	98.4		96.9	98.8		0.389	
	Sulfate	96.7		96.7	97.5		0.364	
EPA 350.1 Rev. 2.0	Ammonia-N	98.8		96.0	97.2			1.06
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	109		116	114			0.992
	Kjeldahl Nitrogen	103		102	101			0.684
EPA 353.2 Rev. 2.0	NO2NO3-N	105		104	103			0.329
EPA 365.1 Rev. 2.0	Total-P	107						0.586
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.8		100	98.6			0.716
EPA 8270E	Acetochlor	102	113	84.0	85.5	10.7		1.88
	Alachlor	95.0	88.6	69.9	73.1	6.88		4.44
	Aldrin	57.3	47.9	54.4	39.9	17.8		30.7
	Alpha-BHC	93.1	83.5	88.3	87.4	10.9		0.968
	Alpha-Chlordane	80.2	71.1	78.5	64.5	12.0		19.7
	Ametryn	91.7	92.5	82.7	71.6	0.899		14.4
	Atrazine	110	114	96.9	99.3	3.41		2.46
	Atrazine Desethyl	64.6	65.1	39.0	30.0	0.830		26.1
	Azinphos Methyl	122	102	94.8	75.9	17.4		22.1
	Azoxystrobin	123	109	90.9	89.1	11.7		1.98
	Beta-BHC	111	98.1	109	117	12.6		6.67
	Beta-Cyfluthrin	84.3	79.3	91.1	74.6	6.15		19.9
	Bifenthrin	53.4	68.6	70.8	52.6	24.9		29.5
	Bromacil	79.8	64.5	61.9	53.8	21.2		14.0
	Butylate	70.8	73.6	48.2	51.8	3.77		7.09
	Caffeine	89.0	90.1	80.1	78.1	1.26		2.49
	Carbophenothion	56.5	49.0	59.9	46.5	14.2		25.2
	Carbophenothion	79.5	79.1	63.8	78.6	0.533		20.7

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Carfentrazone Ethyl	89.6	92.5	93.1	82.6	3.21		12.0
	Chlorfenapyr	71.1	63.7	55.2	63.3	11.0		13.7
	Chlorothalonil	166	168	180	162	1.50		10.6
	Chlorpyrifos Ethyl	81.8	77.4	74.5	76.4	5.57		2.59
	Chlorpyrifos Methyl	85.3	87.1	66.6	75.4	1.98		12.4
	Cis-Nonachlor	70.6	60.0	67.2	58.2	16.2		14.3
	Coumaphos	74.2	61.5	72.9	60.4	18.7		18.8
	Cyanazine	109	118	79.3	80.7	8.20		1.78
	Cypermethrin	83.0	74.2	83.9	75.5	11.2		10.5
	Cyprodinil	80.8	97.2	75.1	77.5	18.4		3.13
	Dacthal	101	93.4	92.9	94.0	7.76		1.19
	DDD-p,p'	75.6	67.2	73.2	69.8	11.7		4.80
	DDE-p,p'	77.7	70.3	75.4	66.7	9.99		12.2
	DDT-p,p'	75.4	68.6	70.9	59.6	9.50		17.3
	Delta-BHC	114	101	116	109	12.5		6.38
	Deltamethrin	78.1	80.6	86.7	70.2	3.08		21.0
	Demeton	92.4	102	84.0	97.6	9.80		15.0
	Diazinon	110	121	91.1	93.5	9.34		2.60
	Dichlobenil	96.6	79.4	79.9	78.2	19.5		2.15
	Dicofol	77.7	67.0	68.6	65.4	14.9		4.76
	Dieldrin	88.0	79.4	79.1	70.4	10.3		10.1
	Difenoconazole	102	72.4	105	76.6	33.9		31.5
	Dimethenamid	81.3	97.1	72.3	74.1	17.7		2.50
	Dimethomorph	233	184	117	145	23.9		21.2
	Disulfoton	85.3	110	70.6	79.6	25.0		12.0
	Dithiopyr	82.7	81.7	69.0	76.3	1.27		10.0
	Endosulfan I	86.4	78.7	82.2	71.7	9.33		13.6
	Endosulfan II	83.5	78.0	79.1	75.1	6.76		5.25
	Endosulfan Sulfate	79.6	82.9	73.0	79.8	4.07		8.90
	Endrin	79.7	67.9	70.2	66.7	16.0		5.13
	Endrin Aldehyde	72.6	67.5	63.5	63.0	7.28		0.822
	Endrin Ketone	88.8	84.7	85.4	86.7	4.66		1.51
	EPTC	65.1	58.4	40.9	43.4	10.9		5.82
	Esfenvalerate	76.7	77.9	87.4	74.3	1.66		16.1
	Ethalfluralin	77.9	62.3	69.6	61.9	22.3		11.7
	Ethion	46.9	71.7	59.5	69.3	41.7		15.2
	Ethoprop	88.5	96.1	80.2	94.4	8.22		16.2
	Etridiazole	89.0	84.8	64.4	64.1	4.82		0.418
	Fenamiphos	71.4	67.4	48.5	65.6	5.80		29.9
	Fenbuconazole	121	84.8	93.2	42.9	35.3		73.9
	Fenpropathrin	69.3	59.5	67.1	57.8	15.2		14.8
	Fipronil	91.8	99.4	72.1	79.6	7.99		9.80
	Fipronil Desulfinyl	83.0	80.3	58.6	68.3	3.37		15.2
	Fipronil Sulfide	63.2	63.3	51.6	63.4	0.101		20.5
	Fipronil Sulfone	72.3	57.7	61.0	63.7	22.5		4.30
	Fluazifop-P-butyl	86.7	71.9	95.7	85.1	18.6		11.8
	Fludioxonil	98.2	97.1	67.0	74.8	1.11		10.5
	Flumioxazin	173	128	93.5	114	30.3		19.6
	Flutolanil	73.6	57.9	60.2	67.1	23.9		10.9
	Fluxapyroxad	73.6	67.8	56.6	60.8	8.16		7.07
	Fonofos	80.1	88.8	67.3	79.1	10.3		16.2
	Gamma-BHC	101	87.3	90.1	91.2	14.9		1.17
	Gamma-Chlordane	76.3	67.8	74.0	63.0	11.7		16.1
	Heptachlor	69.3	58.7	58.3	51.9	16.5		11.6

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Heptachlor Epoxide	87.3	79.0	84.6	76.7	9.99		9.81
	Hexachlorobenzene	74.7	59.5	65.6	57.5	22.7		13.1
	Hexazinone	79.9	92.5	83.7	85.2	14.7		1.30
	Imazalil	63.5	83.8	48.4	67.9	27.6		33.5
	Iprodione	90.5	94.8	62.5	67.4	4.67		7.61
	Kepone	103	97.3	189	170	5.43		10.4
	Lambda-Cyhalothrin	70.8	64.7	82.0	70.1	9.12		15.7
	Loratadine	219	161	93.9	133	30.5		34.2
	Malathion	81.8	5.02	73.0	85.9	177		16.1
	Metalaxyl	79.8	68.4	65.4	68.2	15.4		4.24
	Methoprene	65.6	61.8	77.9	56.1	6.04		32.5
	Methoxychlor	84.3	71.0	73.7	68.9	17.2		6.74
	Metolachlor	92.4	84.7	77.6	71.7	8.75		7.92
	Metribuzin	96.7	88.0	83.6	90.4	9.46		7.83
	Mevinphos	79.6	83.3	64.4	67.5	4.49		4.70
	MGK-264	89.0	86.1	88.0	77.4	3.20		12.9
	Mirex	47.2	41.1	55.1	42.5	13.9		25.9
	Molinate	69.6	71.2	65.7	72.8	2.29		10.2
	Myclobutanil	91.7	80.6	73.1	65.5	12.9		11.0
	Naled	62.2	61.5	88.8	92.6	1.02		4.23
	Napropamide	66.5	58.7	78.3	68.7	12.5		13.1
	Norflurazon	87.6	78.1	68.1	71.5	11.5		4.91
	Oxadiazon	78.8	68.4	57.4	56.3	14.2		2.03
	Oxychlordane	74.5	67.0	70.3	58.9	10.6		17.8
	Oxyfluorfen	97.9	102	87.4	88.5	3.80		1.30
	Parathion Ethyl	92.7	101	86.2	90.7	8.35		5.18
	Parathion Methyl	102	124	87.4	110	19.5		22.7
	Pendimethalin	106	123	102	139	15.2		30.7
	Permethrin	82.5	95.1	87.5	78.8	14.2		10.4
	Phenothrin	60.8	68.5	87.3	58.7	11.8		39.2
	Phenytoin	26.0	40.8	30.6	28.6	44.5		6.85
	Phorate	77.5	97.7	68.2	78.2	23.1		13.6
	Piperonyl Butoxide	96.8	84.9	84.3	85.2	13.1		1.00
	Prallethrin	73.1	71.0	68.9	58.6	2.89		16.1
	Prodiamine	42.1	55.3	38.5	51.0	27.0		28.0
	Prometon	94.3	86.3	110	92.5	8.90		17.1
	Prometryn	73.0	71.3	62.8	64.7	2.36		3.05
	Pronamide	97.8	118	108	110	18.7		1.60
	Propanil	107	107	89.6	89.3	0.575		0.340
	Propargite	56.5	68.5	70.2	57.4	19.3		20.1
	Propiconazole	79.2	73.9	74.2	66.8	6.84		10.5
	Pyraflufen Ethyl	82.2	76.1	65.3	68.2	7.77		4.24
	Pyridaben	78.7	53.6	63.6	65.4	38.0		2.66
	Pyriproxyfen	83.4	71.7	76.4	76.3	15.1		0.0786
	Simazine	98.5	89.2	68.0	70.4	9.86		3.55
	Stirophos	46.1	59.5	53.9	50.5	25.3		6.40
	Sulfentrazone	80.9	69.3	59.0	64.8	15.5		9.38
	Tau-Fluvalinate	61.7	60.7	78.5	61.8	1.69		23.8
	Tebuconazole	46.3	60.2	55.4	56.3	26.1		1.58
	Terbufos	105	117	92.8	115	10.8		21.5
	Terbuthylazine	101	110	88.1	90.3	8.46		2.54
	Tetramethrin	88.1	86.9	96.6	80.2	1.39		18.6
	Thiobencarb	91.7	12.2	70.2	73.9	153		5.23
	Trans-Nonachlor	76.6	67.9	73.4	62.1	12.1		16.7

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Triadimefon	88.5	94.9	77.5	76.0	6.96		1.94
	Triclosan Methyl	90.0	80.3	86.9	74.8	11.5		15.0
	Trifluralin	76.6	61.6	71.7	62.9	21.7		13.2
EPA 8276	Chlordane	87.7	86.2	86.9	80.3	1.73		7.96
	Toxaphene	88.8	89.2	90.4	89.9	0.510		0.608
EPA 8321B	2,4-D	105		95.6	82.5			14.7
	2,4-D	98.4		91.0	104			13.4
	2,4,5-T	123		99.6	102			2.51
	2,4,5-T	92.0		113	115			1.84
	3-Hydroxycarbofuran	74.8		69.4	67.0			3.47
	Acesulfame K	61.8		106	104			1.49
	Acetaminophen	87.7		87.2	92.9			6.38
	Acetaminophen	79.0		86.7	99.7			13.9
	Acetamiprid	88.4		84.3	90.8			7.42
	Acetamiprid	75.0		73.6	85.8			15.3
	Afidopyropen	77.0		85.9	68.7			22.3
	Afidopyropen	40.3		45.1	68.4			41.0
	Aldicarb	75.9		82.1	66.6			20.9
	Aldicarb Sulfone	66.6		74.9	70.4			6.17
	Aldicarb Sulfoxide	100		42.3	37.5			12.1
	AMPA	127		131	135			2.83
	Bentazon	124		94.3	94.0			0.320
	Bentazon	104		95.9	98.0			2.17
	Benzovindiflupyr	83.0		83.1	77.8			6.69
	Benzovindiflupyr	83.7		80.1	67.3			17.4
	Carbamazepine	97.5		89.3	86.6			3.07
	Carbamazepine	80.0		87.2	82.7			5.25
	Carbaryl	70.0		77.7	64.7			18.4
	Carbofuran	86.1		85.6	74.3			14.1
	Clothianidin	110		93.2	112			18.0
	Clothianidin	81.4		94.2	86.0			9.14
	Dinotefuran	83.4		86.7	89.1			2.68
	Dinotefuran	72.9		79.9	93.9			16.0
	Diuron	79.9		86.6	76.1			13.0
	Diuron	81.5		80.6	75.4			6.63
	Endothall	77.6		97.3	103			6.00
	Fenuron	93.9		82.4	78.2			5.21
	Fenuron	79.8		75.4	77.5			2.77
	Fluridone	91.9		87.4	87.9			0.622
	Fluridone	76.5		73.1	69.9			4.42
	Glufosinate	119		128	126			1.72
	Glyphosate	116		126	127			0.769
	Hydrocodone	104		101	94.2			7.01
	Hydrocodone	92.6		91.8	94.3			2.73
	Ibuprofen	110		84.0	68.7			20.0
	Ibuprofen	110		104	81.1			24.5
	Imazapyr	103		108	106			2.16
	Imazapyr	86.0		115	123			5.39
	Imidacloprid	100		112	111			0.881
	Imidacloprid	96.9		107	110			3.32
	Linuron	77.5		79.1	65.9			18.2
	Linuron	81.2		50.4	62.2			21.0
	Mandestrobin	89.4		86.6	85.2			1.61
	Mandestrobin	72.9		85.6	79.6			7.26

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	MCPP	101	101	94.8			6.48
	MCPP	104	110	108			2.44
	Methiocarb	88.2	94.8	74.9			23.5
	Methomyl	80.5	72.6	64.3			12.1
	Naproxen	56.8	71.3	83.4			15.6
	Naproxen	47.1	54.3	44.0			21.0
	Oxamyl	77.8	69.5	62.5			10.6
	Primidone	141	163	135			18.7
	Primidone	99.5	64.9	128			65.7
	Propoxur	86.0	74.6	68.7			8.17
	Pyraclostrobin	70.5	80.6	81.7			1.40
	Pyraclostrobin	70.1	74.4	64.2			14.7
	Silvex	90.5	83.2	82.5			0.802
	Silvex	105	102	91.1			11.7
	Sucralose	104	105	102			3.20
	Thiamethoxam	96.5	105	95.2			9.84
	Thiamethoxam	74.8	85.0	98.5			14.7
	Tolfenpyrad	33.0	57.9	48.3			18.1
	Tolfenpyrad	33.9	35.1	39.9			12.7
	Triclopyr	106	99.7	99.2			0.503
	Triclopyr	96.6	110	88.4			21.5
SM 2120 B-2011	Color (true)	103				8.09	
SM 2320 B-2011	Total Alkalinity	99.9				3.63	
SM 2540 C-2011	TDS					0.0	
	TDS					2.87	
SM 2540 D-2011	TSS					2.82	
SM 4500 F-C-2011	Fluoride	99.8	98.6	99.2			0.492
SM 5310 B-2011	Organic Carbon	94.1	95.2	95.1			0.127

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2296187, 2296190
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2296206, 2296207, 2296208
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2296206, 2296207, 2296208
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2296187, 2296190
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2296187, 2296190
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2296188, 2296191
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2296188, 2296191
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2296188, 2296191
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2296188, 2296191
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2296189, 2296192
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2296201, 2296203, 2296205
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2296202, 2296204
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2296201, 2296203
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2296197, 2296199
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2296198, 2296200
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2296187, 2296190
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2296187, 2296190
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2296206, 2296207, 2296208

Reference Method Descriptions

Method	Description	Associated Samples
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2296187, 2296190
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2296187, 2296190
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2296187, 2296190
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2296188, 2296191

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	12/20/2021			12/21/2021 16:02	Khloe J Berg	2296187, 2296190
EPA 200.7 Rev. 4.4	12/20/2021	12/21/2021 11:00	Vijayalakshmi Reddy	12/27/2021 20:36	Josef B Mick	2296208
	12/20/2021	12/21/2021 11:00	Vijayalakshmi Reddy	12/27/2021 22:12	Josef B Mick	2296206
	12/20/2021	12/21/2021 11:00	Vijayalakshmi Reddy	12/27/2021 22:18	Josef B Mick	2296207
EPA 200.8 Rev. 5.4	12/20/2021	12/21/2021 11:00	Vijayalakshmi Reddy	12/29/2021 19:37	McKinley C Carter	2296208
	12/20/2021	12/21/2021 11:00	Vijayalakshmi Reddy	12/29/2021 20:23	McKinley C Carter	2296206
	12/20/2021	12/21/2021 11:00	Vijayalakshmi Reddy	12/29/2021 21:26	McKinley C Carter	2296207
EPA 300.0 Rev. 2.1	12/20/2021			12/22/2021 12:12	Roberta Tatti	2296187
	12/20/2021			12/22/2021 14:01	Roberta Tatti	2296190
EPA 350.1 Rev. 2.0	12/20/2021			01/04/2022 12:48	Ping Hua	2296188
	12/20/2021			01/04/2022 12:54	Ping Hua	2296191
EPA 351.2 Rev. 2.0	12/20/2021	01/05/2022 09:59	Samantha L Bates	01/06/2022 17:04	Alexandra J Mattheus	2296191
	12/20/2021	01/11/2022 11:32	Samantha L Bates	01/12/2022 10:35	Alexandra J Mattheus	2296188
EPA 353.2 Rev. 2.0	12/20/2021			12/21/2021 11:41	Beverly Y. Sanders	2296188
	12/20/2021			12/21/2021 11:42	Beverly Y. Sanders	2296191
EPA 365.1 Rev. 2.0	12/20/2021	12/27/2021 15:00	Simonne.V. Calhoun	12/28/2021 11:21	Shengyu Ding	2296188
	12/20/2021	12/27/2021 15:00	Simonne.V. Calhoun	12/28/2021 15:43	Shengyu Ding	2296191
EPA 365.1 Rev. 2.0 dissolved	12/20/2021			12/21/2021 14:33	James L Waggerby	2296189
	12/20/2021			12/21/2021 14:38	James L Waggerby	2296192
EPA 8270E	12/20/2021	12/22/2021 08:00	Fe-Val Siddell	12/28/2021 23:52	Vandana T. Nagar	2296201
	12/20/2021	12/22/2021 08:00	Fe-Val Siddell	12/29/2021 00:21	Vandana T. Nagar	2296203
	12/20/2021	12/22/2021 08:00	Fe-Val Siddell	12/29/2021 00:50	Vandana T. Nagar	2296205
	12/20/2021	12/27/2021 08:00	Fe-Val Siddell	01/04/2022 15:45	Michael Poppell	2296202
	12/20/2021	12/27/2021 08:00	Fe-Val Siddell	12/31/2021 16:44	Michael Poppell	2296202
	12/20/2021	12/27/2021 08:00	Fe-Val Siddell	12/31/2021 17:09	Michael Poppell	2296204
EPA 8276	12/20/2021	12/22/2021 08:00	Fe-Val Siddell	12/30/2021 09:42	Arthur Maknenko	2296201
	12/20/2021	12/22/2021 08:00	Fe-Val Siddell	12/30/2021 10:39	Arthur Maknenko	2296203
EPA 8321B	12/20/2021	12/21/2021 11:00	Juyoung Kim	12/21/2021 14:57	Juyoung Kim	2296198
	12/20/2021	12/21/2021 11:00	Juyoung Kim	12/21/2021 15:08	Juyoung Kim	2296200
	12/20/2021	12/21/2021 11:00	Juyoung Kim	12/21/2021 18:08	Manjita Shrestha	2296198
	12/20/2021	12/21/2021 11:00	Juyoung Kim	12/21/2021 18:23	Manjita Shrestha	2296200
	12/20/2021	12/21/2021 12:00	Hoor Shaik	12/24/2021 05:57	Juyoung Kim	2296198
	12/20/2021	12/22/2021 09:00	Hoor Shaik	12/28/2021 16:09	Juyoung Kim	2296197
	12/20/2021	12/22/2021 09:00	Hoor Shaik	12/28/2021 16:43	Juyoung Kim	2296199
	12/20/2021	12/27/2021 09:00	Hoor Shaik	12/28/2021 20:46	Juyoung Kim	2296200
SM 2120 B-2011	12/20/2021			12/21/2021 16:25	Samantha L Bates	2296187
	12/20/2021			12/21/2021 16:26	Samantha L Bates	2296190
SM 2320 B-2011	12/20/2021			12/28/2021 18:17	Dale L. Simmons	2296187
	12/20/2021			12/28/2021 18:25	Dale L. Simmons	2296190
SM 2340B	12/20/2021			12/27/2021 20:36	Josef B Mick	2296208

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2340B	12/20/2021			12/27/2021 22:12	Josef B Mick	2296206
	12/20/2021			12/27/2021 22:18	Josef B Mick	2296207
SM 2540 C-2011	12/20/2021			12/21/2021 16:06	Yijie Li	2296187, 2296190
SM 2540 D-2011	12/20/2021			12/21/2021 16:06	Yijie Li	2296187, 2296190
SM 4500 F-C-2011	12/20/2021			12/28/2021 18:17	Dale L. Simmons	2296187
	12/20/2021			12/28/2021 18:25	Dale L. Simmons	2296190
SM 5310 B-2011	12/20/2021			01/05/2022 03:36	Touraj Touran	2296188
	12/20/2021			01/05/2022 07:35	Touraj Touran	2296191