

Chemical Analysis Report

NE-DIST-2022-02-18-01

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

Event Description: **Nassau North West**
Request ID: **RQ-2022-01-24-14**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 15-MAR-2022 17:59



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: Deep CR @ US 90

Collection Date/Time: 02/17/2022 10:40

Field ID: 19010085

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306696	DEP SOP: NU-094-1	Color (true)**	180		PCU	P410077	
	EPA 180.1 Rev. 2.0	Turbidity	3.8	A	NTU	P410079	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P410287	
		Sulfate	12		mg SO4/L	P410286	
	SM 2320 B-2011	Total Alkalinity	22		mg CaCO3/L	P410139	
	SM 2540 C-2011	TDS	98		mg/L	P410636	
	SM 2540 D-2011	TSS	2	I	mg/L	P410498	
	SM 4500 F-C-2011	Fluoride	0.045	I	mg F/L	P410142	
2306697	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P410529	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.70		mg N/L	P410108	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P410432	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P410096	
	SM 5310 B-2011	Organic Carbon	21		mg C/L	P410453	
2306698	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.026		mg P/L	P410068	
2306713	EPA 8321B	Aldicarb	0.020	U	ug/L	P410021	
		Aldicarb Sulfone	0.0020	U	ug/L	P410021	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P410021	
		Carbaryl	0.0020	U	ug/L	P410021	
		Carbofuran	0.0020	U	ug/L	P410021	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P410021	
		Methiocarb	0.0020	U	ug/L	P410021	
		Methomyl	0.0020	U	ug/L	P410021	
		Oxamyl	0.0020	U	ug/L	P410021	
		Propoxur	0.0020	U	ug/L	P410021	
2306714		2,4-D	0.0020	U	ug/L	P410067	
		Acesulfame K	0.10	U	ug/L	P409991	
		2,4,5-T	0.0040	U	ug/L	P410067	
		AMPA	0.10	U	ug/L	P409991	
		Acetaminophen	0.010	I	ug/L	P410067	
		Acetamiprid	0.0020	U	ug/L	P410067	
		Endothall	0.25	U	ug/L	P409991	
		Glufosinate	0.10	U	ug/L	P409991	
		Glyphosate	0.10	U	ug/L	P409991	
		Afidopyrophen	0.0020	U	ug/L	P410067	
		Bentazon	0.015		ug/L	P410067	
		Sucralose	1.9		ug/L	P409991	
		Benzovindiflupyr	0.0020	U	ug/L	P410067	
		Carbamazepine	0.0028	I	ug/L	P410067	
		Clothianidin	0.0020	U	ug/L	P410067	
		Dinotefuran	0.0020	U	ug/L	P410067	
		Diuron	0.0020	U	ug/L	P410067	
		Fenuron	0.016	U	ug/L	P410067	MS, RPD
		Fluridone	8.0E-04	U	ug/L	P410067	

Field ID: 19010085

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306714	EPA 8321B	Imazapyr	0.12		ug/L	P410067	
		Hydrocodone	0.0020	U	ug/L	P410067	
		Ibuprofen	0.020	U	ug/L	P410067	
		Imidacloprid	0.0020	U	ug/L	P410067	
		Linuron	0.0040	U	ug/L	P410067	
		Mandestrobin	0.0020	U	ug/L	P410067	
		MCP	0.0026	I	ug/L	P410067	
		Naproxen	0.0080	U	ug/L	P410067	
		Primidone	0.0040	U	ug/L	P410067	
		Pyraclostrobin	0.0020	U	ug/L	P410067	
		Silvex	0.0040	U	ug/L	P410067	
		Thiamethoxam	0.0020	U	ug/L	P410067	
		Tolfenpyrad	0.0020	U	ug/L	P410067	
		Triclopyr	0.0040	U	ug/L	P410067	
2306722	EPA 8270E	Aldrin	0.67	U	ng/L	P410111	
		Alpha-BHC	0.16	I	ng/L	P410111	
		Alpha-Chlordane	0.21	U	ng/L	P410111	
		Beta-BHC	0.16	I	ng/L	P410111	MS
		Beta-Cyfluthrin**	1.3	U	ng/L	P410111	
		Bifenthrin**	0.52	U	ng/L	P410111	
		Chlorothalonil	1.3	U	ng/L	P410111	MS, RPD
		Cis-Nonachlor**	0.21	U	ng/L	P410111	
		Cypermethrin	1.5	U	ng/L	P410111	
		Dacthal**	0.15	U	ng/L	P410111	
		DDD-p,p'	0.26	U	ng/L	P410111	
		DDE-p,p'	0.21	U	ng/L	P410111	
		DDT-p,p'	0.42	IJ	ng/L	P410111	LCS, MS
		Delta-BHC	0.41	U	ng/L	P410111	
		Deltamethrin**	1.3	U	ng/L	P410111	
		Dichlobenil**	0.26	U	ng/L	P410111	
		Dicofol	1.3	UJ	ng/L	P410111	LCS, MS, RPD
		Dieldrin	0.41	U	ng/L	P410111	
		Endosulfan I	0.41	U	ng/L	P410111	
		Endosulfan II	0.41	U	ng/L	P410111	
		Endosulfan Sulfate	0.31	U	ng/L	P410111	
		Endrin	0.41	U	ng/L	P410111	
		Endrin Aldehyde	0.77	U	ng/L	P410111	
		Endrin Ketone	0.41	U	ng/L	P410111	
		Esfenvalerate**	0.77	U	ng/L	P410111	
		Ethalfuralin**	0.15	U	ng/L	P410111	
		Fenprothrin**	0.26	U	ng/L	P410111	
		Gamma-BHC	0.17	I	ng/L	P410111	
		Gamma-Chlordane	0.22	I	ng/L	P410111	
		Heptachlor	0.21	U	ng/L	P410111	

Field ID: 19010085

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306722	EPA 8270E	Heptachlor Epoxide	0.26	U	ng/L	P410111	
		Hexachlorobenzene	1.0	U	ng/L	P410111	
		Kepone**	5.2	U	ng/L	P410111	
		Lambda-Cyhalothrin**	0.77	U	ng/L	P410111	
		Methoprene**	0.77	U	ng/L	P410111	
		Methoxychlor	0.31	U	ng/L	P410111	
		MGK-264**	0.21	U	ng/L	P410111	
		Mirex	0.72	U	ng/L	P410111	
		Oxychlordane**	0.31	U	ng/L	P410111	
		Permethrin	1.8	I	ng/L	P410111	
		Phenothrin**	0.93	U	ng/L	P410111	
		Piperonyl Butoxide**	0.15	U	ng/L	P410111	
		Prallethrin**	2.1	U	ng/L	P410111	
		Tau-Fluvalinate**	0.26	U	ng/L	P410111	
		Tetramethrin**	0.77	U	ng/L	P410111	
		Trans-Nonachlor**	0.21	U	ng/L	P410111	
		Triclosan Methyl**	0.15	U	ng/L	P410111	
		Trifluralin	0.22	I	ng/L	P410111	
		Chlordane	2.6	U	ng/L	P410111	
		Toxaphene	15	U	ng/L	P410111	
2306723	EPA 8270E	Acetochlor	0.24	U	ng/L	P410080	
		Alachlor	0.24	U	ng/L	P410080	
		Ametryn	0.57	U	ng/L	P410080	
		Atrazine	2.2		ng/L	P410080	
		Atrazine Desethyl	1.4	U	ng/L	P410080	
		Azinphos Methyl	1.9	U	ng/L	P410080	
		Azoxystrobin**	0.48	U	ng/L	P410080	
		Bromacil	2.2		ng/L	P410080	
		Butylate	0.38	U	ng/L	P410080	
		Caffeine**	7.2	U	ng/L	P410080	
		Carbophenothion	0.19	U	ng/L	P410080	
		Carfentrazone Ethyl**	0.096	U	ng/L	P410080	
		Chlorfenapyr**	0.17	U	ng/L	P410080	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P410080	
		Chlorpyrifos Methyl	0.048	U	ng/L	P410080	
		Coumaphos**	0.48	U	ng/L	P410080	
		Cyanazine	3.1	U	ng/L	P410080	
		Cyprodinil**	0.096	U	ng/L	P410080	
		Demeton	1.4	U	ng/L	P410080	
		Diazinon	0.12	U	ng/L	P410080	
		Difenoconazole**	0.57	U	ng/L	P410080	
		Dimethenamid**	0.096	U	ng/L	P410080	
		Dimethomorph**	0.17	U	ng/L	P410080	
		Disulfoton	0.48	U	ng/L	P410080	
		Dithiopyr**	0.17	U	ng/L	P410080	

Field ID: 19010085

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306723	EPA 8270E	EPTC	1.2	U	ng/L	P410080	
		Ethion	0.14	U	ng/L	P410080	
		Ethoprop	0.096	U	ng/L	P410080	
		Etridiazole**	0.14	U	ng/L	P410080	MS
		Fenamiphos	0.48	U	ng/L	P410080	
		Fenbuconazole**	0.12	UJ	ng/L	P410080	LCS, MS
		Fipronil	0.24	U	ng/L	P410080	
		Fipronil Desulfinyl**	0.75		ng/L	P410080	
		Fipronil Sulfide	1.5		ng/L	P410080	
		Fipronil Sulfone	1.1		ng/L	P410080	
		Fluazifop-P-butyl**	0.096	U	ng/L	P410080	
		Fludioxonil**	0.12	U	ng/L	P410080	
		Flumioxazin**	1.7	U	ng/L	P410080	
		Flutolanil**	0.096	U	ng/L	P410080	
		Fluxapyroxad**	0.096	U	ng/L	P410080	
		Fonofos	0.19	U	ng/L	P410080	
		Hexazinone	3.2		ng/L	P410080	
		Imazalil**	0.72	U	ng/L	P410080	
		Iprodione**	0.57	U	ng/L	P410080	
		Loratadine**	0.096	U	ng/L	P410080	
		Malathion	0.33	U	ng/L	P410080	
		Metalaxyl	0.72	U	ng/L	P410080	
		Metolachlor	0.53	I	ng/L	P410080	
		Metribuzin	2.4	U	ng/L	P410080	
		Mevinphos	1.0	U	ng/L	P410080	
		Molinate	0.29	U	ng/L	P410080	
		Myclobutanil**	0.24	U	ng/L	P410080	
		Naled**	1.4	U	ng/L	P410080	
		Napropamide**	0.38	U	ng/L	P410080	
		Norflurazon	0.48	U	ng/L	P410080	
		Oxadiazon	0.29	U	ng/L	P410080	
		Oxyfluorfen**	0.14	U	ng/L	P410080	
		Parathion Ethyl	0.24	U	ng/L	P410080	
		Parathion Methyl	0.53	U	ng/L	P410080	
		Pendimethalin	0.96	U	ng/L	P410080	
		Phenytol**	3.3	U	ng/L	P410080	
		Phorate	0.50	U	ng/L	P410080	
		Prodiamine**	0.17	U	ng/L	P410080	
		Prometon	0.86	U	ng/L	P410080	
		Prometryn	0.19	U	ng/L	P410080	
		Pronamide**	0.14	U	ng/L	P410080	
		Propanil**	0.12	U	ng/L	P410080	
		Propargite**	1.4	U	ng/L	P410080	
		Propiconazole**	0.48	U	ng/L	P410080	
		Pyraflufen Ethyl**	0.24	U	ng/L	P410080	

Field ID: 19010085

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306723	EPA 8270E	Pyridaben**	0.43	U	ng/L	P410080	
		Pyriproxyfen**	0.12	U	ng/L	P410080	
		Simazine	0.48	U	ng/L	P410080	
		Stirophos**	0.12	U	ng/L	P410080	
		Sulfentrazone**	1.2	I	ng/L	P410080	
		Tebuconazole**	0.48	U	ng/L	P410080	
		Terbufos	0.096	U	ng/L	P410080	
		Terbuthylazine	0.41	U	ng/L	P410080	
		Thiobencarb**	0.57	U	ng/L	P410080	
		Triadimefon**	0.24	U	ng/L	P410080	
2306728	EPA 200.7 Rev. 4.4	Barium	18.8		ug/L	P410133	
		Calcium	11.3		mg/L	P410133	
		Iron	520		ug/L	P410133	
		Magnesium	2.58		mg/L	P410133	
		Manganese	12.1		ug/L	P410133	
		Potassium	2.3		mg/L	P410133	
		Sodium	14.1		mg/L	P410133	
		Zinc	5.0	U	ug/L	P410133	
	EPA 200.8 Rev. 5.4	Aluminum	263		ug/L	P410133	
		Antimony	0.10	I	ug/L	P410133	
		Arsenic	0.35		ug/L	P410133	
		Beryllium	0.021	I	ug/L	P410133	
		Boron**	36.6		ug/L	P410133	
		Cadmium	0.020	U	ug/L	P410133	
		Chromium	0.82	I	ug/L	P410133	
		Copper	0.49	I	ug/L	P410133	
		Lead	0.32	I	ug/L	P410133	
		Nickel	0.82	I	ug/L	P410133	
		Selenium	0.20	U	ug/L	P410133	
		Silver	0.010	U	ug/L	P410133	
		Thallium	0.10	U	ug/L	P410133	
		Hardness	38.8		mg/L	P410133	

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

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

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Calkins CR @ CR 127

Collection Date/Time: 02/17/2022 13:35

Field ID: 19010105

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306684	DEP SOP: NU-094-1	Color (true)**	210		PCU	P410077	
	EPA 180.1 Rev. 2.0	Turbidity	6.8		NTU	P410079	
	EPA 300.0 Rev. 2.1	Chloride	8.6		mg Cl/L	P410287	
		Sulfate	0.20	U	mg SO4/L	P410286	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P410139	
	SM 2540 C-2011	TDS	58		mg/L	P410636	
	SM 2540 D-2011	TSS	3	I	mg/L	P410498	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P410142	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P410529	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.70		mg N/L	P410109	
2306688	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P410431	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P410096	
	SM 5310 B-2011	Organic Carbon	27		mg C/L	P410454	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	I	mg P/L	P410068	
	EPA 200.7 Rev. 4.4	Calcium	1.06		mg/L	P410133	
2306724		Iron	780		ug/L	P410133	
		Magnesium	0.86		mg/L	P410133	
		Potassium	0.30	U	mg/L	P410133	
		Sodium	4.6		mg/L	P410133	
		Strontium	6.9	I	ug/L	P410133	
		Tin	3.0	U	ug/L	P410133	
		Titanium	1.4	I	ug/L	P410133	
		Vanadium	2.0	U	ug/L	P410133	
		Zinc	5.0	U	ug/L	P410133	
		Aluminum	428		ug/L	P410133	
		Antimony	0.050	U	ug/L	P410133	
		Arsenic	0.27		ug/L	P410133	
		Barium	13.9		ug/L	P410133	
		Beryllium	0.044		ug/L	P410133	
		Boron**	13.2		ug/L	P410133	
	EPA 200.8 Rev. 5.4	Cadmium	0.020	U	ug/L	P410133	
		Chromium	0.55	I	ug/L	P410133	
		Cobalt	0.257		ug/L	P410133	
		Copper	0.40	U	ug/L	P410133	
		Lead	0.37	I	ug/L	P410133	
		Manganese	9.97		ug/L	P410133	
		Molybdenum	0.15	U	ug/L	P410133	
		Nickel	0.53	I	ug/L	P410133	
		Selenium	0.20	U	ug/L	P410133	
		Silver	0.010	U	ug/L	P410133	
		Thallium	0.10	U	ug/L	P410133	
		Hardness	6.2		mg/L	P410133	

Field ID: 19010105

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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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 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Moccasin Creek @ Moccasin Creek CIR. W.

Collection Date/Time: 02/17/2022 15:00

Field ID: 19010120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306685	DEP SOP: NU-094-1	Color (true)**	340		PCU	P410077	
	EPA 180.1 Rev. 2.0	Turbidity	0.40	I	NTU	P410079	
	EPA 300.0 Rev. 2.1	Chloride	4.9		mg Cl/L	P410287	
		Sulfate	0.20	U	mg SO4/L	P410286	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P410139	
	SM 2540 C-2011	TDS	60		mg/L	P410636	
	SM 2540 D-2011	TSS	2	I	mg/L	P410498	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P410142	
2306689	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P410571	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.91		mg N/L	P410549	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P410432	
	EPA 365.1 Rev. 2.0	Total-P	0.008		mg P/L	P410096	
	SM 5310 B-2011	Organic Carbon	41		mg C/L	P410540	
2306693	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P410068	
2306725	EPA 200.7 Rev. 4.4	Calcium	0.66		mg/L	P410133	
		Iron	510		ug/L	P410133	
		Magnesium	0.58		mg/L	P410133	
		Potassium	0.30	U	mg/L	P410133	
		Sodium	2.9		mg/L	P410133	
		Strontium	5.7	I	ug/L	P410133	
		Tin	3.0	U	ug/L	P410133	
		Titanium	1.3	I	ug/L	P410133	
		Vanadium	2.0	U	ug/L	P410133	
		Zinc	5.0	U	ug/L	P410133	
	EPA 200.8 Rev. 5.4	Aluminum	298		ug/L	P410133	
		Antimony	0.050	U	ug/L	P410133	
		Arsenic	0.27		ug/L	P410133	
		Barium	7.22		ug/L	P410133	
		Beryllium	0.021	I	ug/L	P410133	
		Boron**	13.1		ug/L	P410133	
		Cadmium	0.020	U	ug/L	P410133	
		Chromium	0.40	U	ug/L	P410133	
		Cobalt	0.116		ug/L	P410133	
		Copper	0.40	U	ug/L	P410133	
		Lead	0.20	U	ug/L	P410133	
		Manganese	8.38		ug/L	P410133	
		Molybdenum	0.15	U	ug/L	P410133	
		Nickel	0.50	U	ug/L	P410133	
		Selenium	0.20	U	ug/L	P410133	
		Silver	0.010	U	ug/L	P410133	
		Thallium	0.10	U	ug/L	P410133	
	SM 2340B	Hardness	4.0		mg/L	P410133	

Field ID: 19010120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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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 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Unnamed Branch @ CR125

Collection Date/Time: 02/17/2022 12:10

Field ID: 19010123

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306730	EPA 200.7 Rev. 4.4	Calcium	5.54		mg/L	P410133	
		Iron	600		ug/L	P410133	
		Magnesium	2.54		mg/L	P410133	
		Potassium	1.3		mg/L	P410133	
		Sodium	6.3		mg/L	P410133	
		Strontium	16.3		ug/L	P410133	
		Tin	3.0	U	ug/L	P410133	
		Titanium	1.1	I	ug/L	P410133	
		Vanadium	2.0	U	ug/L	P410133	
		Zinc	5.0	U	ug/L	P410133	
	EPA 200.8 Rev. 5.4	Aluminum	212		ug/L	P410133	
		Antimony	0.050	U	ug/L	P410133	
		Arsenic	0.38		ug/L	P410133	
		Barium	19.4		ug/L	P410133	
		Beryllium	0.015	I	ug/L	P410133	
		Boron**	15.5		ug/L	P410133	
		Cadmium	0.020	U	ug/L	P410133	
		Chromium	0.46	I	ug/L	P410133	
		Cobalt	0.129		ug/L	P410133	
		Copper	0.40	U	ug/L	P410133	
	SM 2340B	Lead	0.27	I	ug/L	P410133	
		Manganese	13.2		ug/L	P410133	
		Molybdenum	0.15	U	ug/L	P410133	
		Nickel	0.50	U	ug/L	P410133	
		Selenium	0.20	U	ug/L	P410133	
		Silver	0.010	U	ug/L	P410133	
		Thallium	0.10	U	ug/L	P410133	
		Hardness	24.3		mg/L	P410133	

Ref. Method and Comment:

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Daughtery Branch @ CR125 S

Collection Date/Time: 02/17/2022 13:05

Field ID: 19010125

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306715	EPA 8321B	2,4-D	0.0020	U	ug/L	P410067	
		Acesulfame K	0.10	U	ug/L	P409991	
		2,4,5-T	0.0040	U	ug/L	P410067	
		AMPA	0.10	U	ug/L	P409991	
		Acetaminophen	0.0080	U	ug/L	P410067	
		Acetamiprid	0.0020	U	ug/L	P410067	
		Endothall	0.25	U	ug/L	P409991	
		Glufosinate	0.10	U	ug/L	P409991	
		Glyphosate	0.10	U	ug/L	P409991	
		Afidopyropen	0.0020	U	ug/L	P410067	
		Bentazon	8.0E-04	U	ug/L	P410067	
		Sucralose	0.010	U	ug/L	P409991	
		Benzovindiflupyr	0.0020	U	ug/L	P410067	
		Carbamazepine	8.0E-04	U	ug/L	P410067	
		Clothianidin	0.0020	U	ug/L	P410067	
		Dinotefuran	0.0020	U	ug/L	P410067	
		Diuron	0.0020	U	ug/L	P410067	
		Fenuron	0.016	U	ug/L	P410067	MS, RPD
		Fluridone	8.0E-04	U	ug/L	P410067	
		Imazapyr	0.70		ug/L	P410067	
		Hydrocodone	0.0020	U	ug/L	P410067	
		Ibuprofen	0.020	U	ug/L	P410067	
		Imidacloprid	0.0020	U	ug/L	P410067	
		Linuron	0.0040	U	ug/L	P410067	
		Mandestrobin	0.0020	U	ug/L	P410067	
		MCPP	0.0020	U	ug/L	P410067	
		Naproxen	0.0080	U	ug/L	P410067	
		Primidone	0.0040	U	ug/L	P410067	
		Pyraclostrobin	0.0020	U	ug/L	P410067	
		Silvex	0.0040	U	ug/L	P410067	
		Thiamethoxam	0.0020	U	ug/L	P410067	
		Tolfenpyrad	0.0020	U	ug/L	P410067	
		Triclopyr	0.0040	U	ug/L	P410067	
2306729	EPA 200.7 Rev. 4.4	Calcium	2.07		mg/L	P410133	
		Iron	770		ug/L	P410133	
		Magnesium	0.86		mg/L	P410133	
		Potassium	0.30	I	mg/L	P410133	
		Sodium	5.5		mg/L	P410133	
		Strontium	9.8		ug/L	P410133	
		Tin	3.0	U	ug/L	P410133	
		Titanium	1.3	I	ug/L	P410133	
		Vanadium	2.0	U	ug/L	P410133	
		Zinc	5.0	U	ug/L	P410133	
	EPA 200.8 Rev. 5.4	Aluminum	532		ug/L	P410133	

Field ID: 19010125

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306729	EPA 200.8 Rev. 5.4	Antimony	0.050	U	ug/L	P410133	
		Arsenic	0.31		ug/L	P410133	
		Barium	13.2		ug/L	P410133	
		Beryllium	0.047		ug/L	P410133	
		Boron**	14.2		ug/L	P410133	
		Cadmium	0.020	U	ug/L	P410133	
		Chromium	0.65	I	ug/L	P410133	
		Cobalt	0.306		ug/L	P410133	
		Copper	0.51	I	ug/L	P410133	
		Lead	0.67		ug/L	P410133	
		Manganese	13.1		ug/L	P410133	
		Molybdenum	0.15	U	ug/L	P410133	
		Nickel	0.69	I	ug/L	P410133	
		Selenium	0.20	U	ug/L	P410133	
		Silver	0.010	U	ug/L	P410133	
		Thallium	0.10	U	ug/L	P410133	
	SM 2340B	Hardness	8.7		mg/L	P410133	

Ref. Method and Comment:

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

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample. The lead result was confirmed in the undigested sample on 02/24/2022.

Sample Location: ST Mary's S Prong @ US 90

Collection Date/Time: 02/17/2022 11:30

Field ID: 19010021

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306686	DEP SOP: NU-094-1	Color (true)**	170		PCU	P410077	
	EPA 180.1 Rev. 2.0	Turbidity	4.6		NTU	P410079	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P410287	
		Sulfate	2.6		mg SO4/L	P410286	
	SM 2320 B-2011	Total Alkalinity	11		mg CaCO3/L	P410139	
	SM 2540 C-2011	TDS	88		mg/L	P410636	
	SM 2540 D-2011	TSS	2	I	mg/L	P410498	
	SM 4500 F-C-2011	Fluoride	0.061	I	mg F/L	P410142	
2306690	EPA 350.1 Rev. 2.0	Ammonia-N	0.027		mg N/L	P410529	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.65		mg N/L	P410108	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.32		mg N/L	P410432	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P410096	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P410453	
2306694	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.13		mg P/L	P410068	
2306726	EPA 200.7 Rev. 4.4	Calcium	6.24		mg/L	P410133	
		Iron	440		ug/L	P410133	
		Magnesium	2.41		mg/L	P410133	
		Potassium	1.4		mg/L	P410133	
		Sodium	9.0		mg/L	P410133	
		Strontium	49.5		ug/L	P410133	
		Tin	3.0	U	ug/L	P410133	
		Titanium	1.2	I	ug/L	P410133	
	EPA 200.8 Rev. 5.4	Vanadium	2.0	U	ug/L	P410133	
		Zinc	5.0	U	ug/L	P410133	
		Aluminum	363		ug/L	P410133	
		Antimony	0.050	U	ug/L	P410133	
		Arsenic	0.26		ug/L	P410133	
		Barium	22.0		ug/L	P410133	
		Beryllium	0.026	I	ug/L	P410133	
		Boron**	23.3		ug/L	P410133	
		Cadmium	0.021	I	ug/L	P410133	
		Chromium	0.59	I	ug/L	P410133	
		Cobalt	0.212		ug/L	P410133	
		Copper	0.40	U	ug/L	P410133	
		Lead	0.33	I	ug/L	P410133	
		Manganese	11.6		ug/L	P410133	
		Molybdenum	0.18	I	ug/L	P410133	
		Nickel	0.67	I	ug/L	P410133	
		Selenium	0.20	U	ug/L	P410133	
		Silver	0.010	U	ug/L	P410133	
		Thallium	0.10	U	ug/L	P410133	
	SM 2340B	Hardness	25.5		mg/L	P410133	

Field ID: 19010021

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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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 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Moccasin Creek @ Moccasin Creek Cir. North Collection Date/Time: 02/17/2022 14:35

Field ID: G4NE0313

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306687	DEP SOP: NU-094-1	Color (true)**	360		PCU	P410077	
	EPA 180.1 Rev. 2.0	Turbidity	0.95	I	NTU	P410079	
	EPA 300.0 Rev. 2.1	Chloride	4.1		mg Cl/L	P410287	
		Sulfate	0.20	U	mg SO4/L	P410286	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P410139	
	SM 2540 C-2011	TDS	47		mg/L	P410636	
	SM 2540 D-2011	TSS	2	I	mg/L	P410498	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P410142	
2306691	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P410529	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P410549	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P410432	
	EPA 365.1 Rev. 2.0	Total-P	0.007		mg P/L	P410096	
	SM 5310 B-2011	Organic Carbon	37		mg C/L	P410453	
2306695	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P410068	
2306727	EPA 200.7 Rev. 4.4	Calcium	0.73		mg/L	P410133	
		Iron	280		ug/L	P410133	
		Magnesium	0.46		mg/L	P410133	
		Potassium	0.30	U	mg/L	P410133	
		Sodium	2.9		mg/L	P410133	
		Strontium	4.8	I	ug/L	P410133	
		Tin	3.0	U	ug/L	P410133	
		Titanium	1.4	I	ug/L	P410133	
		Vanadium	2.0	U	ug/L	P410133	
		Zinc	5.0	U	ug/L	P410133	
	EPA 200.8 Rev. 5.4	Aluminum	239		ug/L	P410133	
		Antimony	0.050	U	ug/L	P410133	
		Arsenic	0.24		ug/L	P410133	
		Barium	4.06		ug/L	P410133	
		Beryllium	0.010	I	ug/L	P410133	
		Boron**	10.3		ug/L	P410133	
		Cadmium	0.020	U	ug/L	P410133	
		Chromium	0.40	U	ug/L	P410133	
		Cobalt	0.079	I	ug/L	P410133	
		Copper	0.40	U	ug/L	P410133	
		Lead	0.33	I	ug/L	P410133	
		Manganese	2.72		ug/L	P410133	
		Molybdenum	0.15	U	ug/L	P410133	
		Nickel	0.50	U	ug/L	P410133	
		Selenium	0.20	U	ug/L	P410133	
		Silver	0.010	U	ug/L	P410133	
		Thallium	0.10	U	ug/L	P410133	
		Hardness	3.7		mg/L	P410133	
	SM 2340B						

Field ID: G4NE0313

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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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 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P410077

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410079

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P410133

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: P410133

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410286

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410287

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410529

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410571

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410108

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410109

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410549

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410431

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410432

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410096

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410068

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

Reference Method: EPA 8270E
Batch ID: P410080

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
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L

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Reference Method: EPA 8270E

Batch ID: P410080

Component	Result	Code	Units
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
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410080

Component	Result	Code	Units
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
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatamine	0.18	U	ng/L
Prodiatamine	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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410080

Component	Result	Code	Units
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	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 8270E

Batch ID: P410111

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410111

Component	Result	Code	Units
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P410111

Component	Result	Code	Units
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P410111

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

Reference Method: EPA 8321B
Batch ID: P409991

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: P410021

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

Reference Method: EPA 8321B
Batch ID: P410067

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

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Reference Method: EPA 8321B

Batch ID: P410067

Component	Result	Code	Units
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	0.028	I	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P410139

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

Reference Method: SM 2540 C-2011

Batch ID: P410636

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P410498

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011

Batch ID: P410142

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P410453

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

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Reference Method: SM 5310 B-2011
Batch ID: P410454

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

Reference Method: SM 5310 B-2011
Batch ID: P410540

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P410077

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.5		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.4		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P410133

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	103		P	85 - 115
Calcium	103		P	85 - 115
Iron	107		P	85 - 115
Magnesium	108		P	85 - 115
Manganese	105		P	85 - 115
Potassium	106		P	85 - 115
Sodium	107		P	85 - 115
Strontium	102		P	85 - 115
Tin	105		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	94.8		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P410133

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	101		P	85 - 115
Barium	106		P	85 - 115
Beryllium	97.1		P	85 - 115
Boron	105		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	98.2		P	85 - 115
Cobalt	98.6		P	85 - 115
Copper	101		P	85 - 115
Lead	96.5		P	85 - 115
Manganese	97.4		P	85 - 115
Molybdenum	98.3		P	85 - 115
Nickel	100		P	85 - 115
Selenium	103		P	85 - 115
Silver	96.3		P	85 - 115
Thallium	99.3		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410286

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.6		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410287

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410529

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410571

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410108

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410109

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410549

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410431

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410432

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410096

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

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Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P410068

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

Reference Method: EPA 8270E
 Batch ID: P410080

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	80.8		P	70 - 121
Alachlor	78.7		P	68 - 119
Ametryn	88.9		P	64 - 139
Atrazine	83.0		P	76 - 120
Atrazine Desethyl	49.9		P	44 - 126
Azinphos Methyl	112		P	43 - 192
Azoxystrobin	77.1		P	36 - 224
Bromacil	66.6		P	52 - 121
Butylate	46.5		P	28 - 91.0
Caffeine	107		P	50 - 134
Carbophenothion	92.9		P	56 - 129
Carfentrazone Ethyl	85.6		P	60 - 141
Chlorfenapyr	85.1		P	56 - 115
Chlorpyrifos Ethyl	78.3		P	60 - 118
Chlorpyrifos Methyl	81.4		P	68 - 119
Coumaphos	94.5		P	18 - 250
Cyanazine	106		P	61 - 250
Cyprodinil	83.4		P	55 - 145
Demeton	66.4		P	30 - 159
Diazinon	75.6		P	70 - 123
Difenoconazole	135		P	49 - 204
Dimethenamid	66.1		P	64 - 115
Dimethomorph	80.0		P	12 - 219
Disulfoton	77.4		P	44 - 125
Dithiopyr	83.5		P	64 - 115
EPTC	46.8		P	28 - 86.0
Ethion	84.1		P	33 - 125
Ethoprop	68.5		P	64 - 116
Etridiazole	45.5		P	34 - 91.0
Fenamiphos	97.3		P	12 - 127
Fenbuconazole	49.5		F	59 - 151
Fipronil	83.5		P	67 - 129
Fipronil Desulfinyl	91.5		P	65 - 127
Fipronil Sulfide	71.7		P	61 - 116
Fipronil Sulfone	72.1		P	55 - 117
Fluazifop-P-butyl	93.7		P	62 - 127
Fludioxonil	96.8		P	62 - 128
Flumioxazin	71.3		P	33 - 250
Flutolanil	80.3		P	56 - 127
Fluxapyroxad	65.9		P	45 - 128
Fonofos	65.8		P	62 - 111
Hexazinone	78.9		P	46 - 139
Imazalil	103		P	38 - 142
Iprodione	90.1		P	47 - 135
Loratadine	66.0		P	10 - 244
Malathion	87.1		P	61 - 139

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Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P410080

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metalaxyl	85.1		P	10 - 119
Metolachlor	82.9		P	65 - 118
Metribuzin	90.5		P	51 - 250
Mevinphos	61.2		P	53 - 121
Molinate	56.3		P	42 - 96.0
Myclobutanil	84.3		P	55 - 128
Naled	89.7		P	10 - 98.0
Napropamide	85.1		P	49 - 121
Norflurazon	83.8		P	61 - 126
Oxadiazon	71.7		P	59 - 116
Oxyfluorfen	80.9		P	64 - 137
Parathion Ethyl	73.4		P	70 - 112
Parathion Methyl	80.3		P	76 - 133
Pendimethalin	61.2		P	52 - 117
Phenytoin	58.6		P	10 - 199
Phorate	56.7		P	48 - 121
Prodiamine	38.6		P	26 - 142
Prometon	78.7		P	43 - 123
Prometryn	83.2		P	66 - 127
Pronamide	77.9		P	75 - 121
Propanil	92.5		P	45 - 150
Propargite	84.3		P	42 - 208
Propiconazole	80.2		P	60 - 125
Pyraflufen Ethyl	86.4		P	70 - 138
Pyridaben	83.9		P	35 - 245
Pyriproxyfen	74.0		P	30 - 149
Simazine	77.2		P	72 - 125
Stirophos	82.1		P	29 - 164
Sulfentrazone	80.2		P	21 - 139
Tebuconazole	73.4		P	10 - 115
Terbufos	84.9		P	60 - 123
Terbuthylazine	74.4		P	72 - 115
Thiobencarb	83.2		P	31 - 139
Triadimefon	90.3		P	65 - 116

Reference Method: EPA 8270E

Batch ID: P410111

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	61.4		P	10 - 93.0
Alpha-BHC	92.2		P	75 - 106
Alpha-Chlordane	83.3		P	50 - 109
Beta-BHC	106		P	65 - 135
Beta-Cyfluthrin	94.2		P	23 - 167
Bifenthrin	73.8		P	11 - 123
Chlorothalonil	106		P	26 - 182
Cis-Nonachlor	72.2		P	40 - 111
Cypermethrin	102		P	25 - 155
Dacthal	89.3		P	73 - 112
DDD-p,p'	60.3		P	47 - 108
DDE-p,p'	87.7		P	48 - 107
DDT-p,p'	120		F	49 - 111

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P410111

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Delta-BHC	104		P	68 - 143
Deltamethrin	83.9		P	16 - 176
Dichlobenil	91.2		P	32 - 113
Dicofol	34.0		F	50 - 108
Dieldrin	85.0		P	56 - 110
Endosulfan I	87.3		P	60 - 105
Endosulfan II	73.4		P	50 - 120
Endosulfan Sulfate	79.8		P	55 - 121
Endrin	71.0		P	31 - 119
Endrin Aldehyde	61.2		P	36 - 116
Endrin Ketone	88.4		P	56 - 130
Esfenvalerate	84.2		P	10 - 179
Ethalfuralin	85.5		P	49 - 99.0
Fenpropathrin	81.3		P	35 - 119
Gamma-BHC	99.2		P	72 - 115
Gamma-Chlordane	84.4		P	45 - 107
Heptachlor	75.7		P	41 - 100
Heptachlor Epoxide	94.3		P	58 - 106
Hexachlorobenzene	69.1		P	39 - 100
Kepone	74.2		P	10 - 191
Lambda-Cyhalothrin	88.2		P	10 - 186
Methoprene	80.3		P	10 - 129
Methoxychlor	86.1		P	61 - 111
MGK-264	87.3		P	20 - 123
Mirex	65.0		P	10 - 182
Oxychlordane	79.8		P	39 - 110
Permethrin	100		P	26 - 152
Phenothrin	73.8		P	10 - 109
Piperonyl Butoxide	97.4		P	27 - 142
Prallethrin	82.7		P	14 - 109
Tau-Fluvalinate	73.3		P	16 - 134
Tetramethrin	85.7		P	10 - 125
Trans-Nonachlor	91.0		P	45 - 107
Triclosan Methyl	86.8		P	60 - 110
Trifluralin	80.2		P	49 - 98.0

Reference Method: EPA 8276

Batch ID: P410111

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	88.8		P	61 - 118
Toxaphene	75.2		P	51 - 122

Reference Method: EPA 8321B

Batch ID: P409991

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	117		P	40 - 150
AMPA	99.5		P	40 - 150
Endothall	107		P	40 - 150
Glufosinate	106		P	40 - 150
Glyphosate	93.6		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P409991

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	113		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P410021

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	98.7		P	40 - 150
Aldicarb	88.2		P	30 - 150
Aldicarb Sulfone	90.3		P	40 - 150
Aldicarb Sulfoxide	90.1		P	40 - 150
Carbaryl	76.9		P	40 - 150
Carbofuran	99.1		P	40 - 150
Methiocarb	101		P	40 - 150
Methomyl	94.3		P	40 - 150
Oxamyl	97.4		P	40 - 150
Propoxur	98.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P410067

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	90.9		P	30 - 160
2,4,5-T	76.6		P	30 - 160
Acetaminophen	92.4		P	30 - 150
Acetamiprid	81.7		P	30 - 160
Afidopyropen	62.9		P	30 - 160
Bentazon	61.6		P	30 - 150
Benzovindiflupyr	114		P	30 - 160
Carbamazepine	119		P	30 - 160
Clothianidin	89.6		P	30 - 160
Dinotefuran	114		P	30 - 160
Diuron	101		P	30 - 160
Fenuron	157		P	30 - 160
Fluridone	92.6		P	30 - 160
Hydrocodone	110		P	30 - 160
Ibuprofen	96.1		P	30 - 160
Imazapyr	129		P	30 - 160
Imidacloprid	103		P	30 - 160
Linuron	124		P	30 - 160
Mandestrobin	116		P	30 - 160
MCPP	97.7		P	30 - 160
Naproxen	102		P	30 - 160
Primidone	117		P	30 - 160
Pyraclostrobin	99.5		P	30 - 160
Silvex	69.6		P	30 - 160
Thiamethoxam	101		P	30 - 160
Tolfenpyrad	62.5		P	30 - 160
Triclopyr	89.7		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P410139

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.8		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P410142

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P410453

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.0		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P410454

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.8		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P410540

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P410133

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306288	Barium	99.2	97.9	P/P	80 - 120
2306288	Calcium	98.8		P	80 - 120
2306288	Iron	104	103	P/P	80 - 120
2306288	Magnesium	104	102	P/P	80 - 120
2306288	Manganese	100	98.9	P/P	80 - 120
2306288	Potassium	102	102	P/P	80 - 120
2306288	Sodium	98.9	99.1	P/P	80 - 120
2306288	Strontium	98.8	98.6	P/P	80 - 120
2306288	Tin	99.8	98.7	P/P	80 - 120
2306288	Titanium	98.5	97.2	P/P	80 - 120
2306288	Vanadium	93.6	92.8	P/P	80 - 120
2306288	Zinc	100	98.2	P/P	80 - 120
2306457	Barium	98.6		P	80 - 120
2306457	Iron	103		P	80 - 120
2306457	Magnesium	101		P	80 - 120
2306457	Manganese	98.0		P	80 - 120
2306457	Potassium	104		P	80 - 120
2306457	Sodium	102		P	80 - 120
2306457	Strontium	98.2		P	80 - 120
2306457	Tin	96.6		P	80 - 120
2306457	Titanium	98.6		P	80 - 120
2306457	Vanadium	92.6		P	80 - 120
2306457	Zinc	98.4		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P410133

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306288	Aluminum	101	104	P/P	80 - 120
2306288	Antimony	96.0	96.7	P/P	80 - 120
2306288	Arsenic	96.6	96.8	P/P	80 - 120
2306288	Barium	99.0	101	P/P	80 - 120
2306288	Beryllium	90.6	90.7	P/P	80 - 120
2306288	Boron	102	101	P/P	80 - 120
2306288	Cadmium	94.4	95.2	P/P	80 - 120
2306288	Chromium	93.6	94.0	P/P	80 - 120
2306288	Cobalt	96.4	97.0	P/P	80 - 120
2306288	Copper	96.8	97.5	P/P	80 - 120
2306288	Lead	91.2	91.7	P/P	80 - 120
2306288	Manganese	93.9	94.5	P/P	80 - 120
2306288	Molybdenum	95.4	96.3	P/P	80 - 120
2306288	Nickel	98.2	97.7	P/P	80 - 120
2306288	Selenium	97.8	98.5	P/P	80 - 120
2306288	Silver	96.1	96.5	P/P	80 - 120
2306288	Thallium	95.5	96.0	P/P	80 - 120
2306327	Nickel	101		P	80 - 120
2306457	Aluminum	98.7		P	80 - 120
2306457	Antimony	101		P	80 - 120
2306457	Arsenic	101		P	80 - 120
2306457	Barium	102		P	80 - 120
2306457	Beryllium	92.4		P	80 - 120
2306457	Boron	105		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P410133

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306457	Cadmium	99.3		P	80 - 120
2306457	Chromium	96.7		P	80 - 120
2306457	Cobalt	100		P	80 - 120
2306457	Copper	94.7		P	80 - 120
2306457	Lead	94.7		P	80 - 120
2306457	Molybdenum	99.2		P	80 - 120
2306457	Selenium	102		P	80 - 120
2306457	Silver	96.9		P	80 - 120
2306457	Thallium	97.3		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P410286

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301844	Sulfate	97.8		P	90 - 110
2301846	Sulfate	97.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P410287

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301844	Chloride	95.1		P	90 - 110
2301846	Chloride	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P410529

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306541	Ammonia-N	96.4	96.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P410571

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306544	Ammonia-N	95.8	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P410108

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306543	Kjeldahl Nitrogen	99.1	95.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P410109

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306573	Kjeldahl Nitrogen	97.0	93.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P410549

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410549

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307334	Kjeldahl Nitrogen	98.0	99.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410431

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306541	NO2NO3-N	99.5	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410432

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306718	NO2NO3-N	94.5	96.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P410068

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306719	O-Phosphate-P	100	101	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P410080

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306175	Acetochlor	101	97.9	P/P	65 - 124
2306175	Alachlor	88.4	90.9	P/P	61 - 121
2306175	Ametryn	111	105	P/P	52 - 216
2306175	Azinphos Methyl	109	112	P/P	40 - 292
2306175	Azoxystrobin	86.3	92.1	P/P	12 - 242
2306175	Butylate	44.0	44.7	P/P	14 - 94.0
2306175	Carbophenothion	77.6	78.5	P/P	49 - 122
2306175	Carfentrazone Ethyl	75.3	73.4	P/P	53 - 138
2306175	Chlorfenapyr	79.2	86.8	P/P	50 - 150
2306175	Chlorpyrifos Ethyl	73.2	70.3	P/P	52 - 122
2306175	Chlorpyrifos Methyl	88.5	86.1	P/P	66 - 117
2306175	Coumaphos	80.9	82.7	P/P	50 - 220
2306175	Cyanazine	127	141	P/P	43 - 245
2306175	Cyprodinil	101	90.1	P/P	50 - 150
2306175	Demeton	88.8	86.1	P/P	43 - 188
2306175	Diazinon	87.3	88.4	P/P	69 - 131
2306175	Difenoconazole	176	157	P/P	34 - 231
2306175	Dimethenamid	80.6	79.7	P/P	55 - 118
2306175	Dimethomorph	104	98.0	P/P	50 - 150
2306175	Disulfoton	85.3	95.8	P/P	38 - 141
2306175	Dithiopyr	98.5	88.2	P/P	42 - 116
2306175	EPTC	35.4	36.0	P/P	18 - 85.0
2306175	Ethion	82.0	77.3	P/P	10 - 131
2306175	Ethoprop	87.0	87.3	P/P	65 - 129
2306175	Etridiazole	49.0	44.2	F/F	50 - 150
2306175	Fenamiphos	82.7	92.4	P/P	31 - 137
2306175	Fenbuconazole	38.4	49.3	F/F	57 - 160
2306175	Fipronil	96.1	82.3	P/P	62 - 132

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P410080

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306175	Fipronil Desulfinyl	102	94.4	P/P	57 - 131
2306175	Fipronil Sulfide	73.6	72.8	P/P	15 - 138
2306175	Fipronil Sulfone	72.1	67.0	P/P	21 - 134
2306175	Fluazifop-P-butyl	83.8	93.9	P/P	54 - 133
2306175	Fludioxonil	96.7	101	P/P	58 - 127
2306175	Flumioxazin	79.8	81.0	P/P	33 - 300
2306175	Flutolanil	63.5	67.7	P/P	42 - 130
2306175	Fluxapyroxad	65.5	71.0	P/P	23 - 141
2306175	Fonofos	76.0	78.4	P/P	58 - 119
2306175	Hexazinone	87.8	95.4	P/P	68 - 172
2306175	Imazalil	153	142	P/P	48 - 283
2306175	Iprodione	81.4	88.3	P/P	38 - 140
2306175	Loratadine	96.0	99.2	P/P	50 - 150
2306175	Malathion	127	128	P/P	40 - 137
2306175	Metalaxyl	96.9	90.8	P/P	21 - 129
2306175	Metolachlor	92.5	92.6	P/P	55 - 122
2306175	Metribuzin	97.6	102	P/P	38 - 187
2306175	Mevinphos	69.0	73.9	P/P	54 - 134
2306175	Molinate	56.8	58.0	P/P	41 - 97.0
2306175	Myclobutanil	81.5	86.9	P/P	56 - 125
2306175	Naled	96.3	102	P/P	10 - 108
2306175	Napropamide	73.5	74.8	P/P	50 - 150
2306175	Norflurazon	91.0	91.0	P/P	32 - 122
2306175	Oxadiazon	68.3	74.6	P/P	40 - 119
2306175	Oxyfluorfen	97.1	98.4	P/P	61 - 153
2306175	Parathion Ethyl	82.5	90.6	P/P	59 - 130
2306175	Parathion Methyl	108	113	P/P	65 - 155
2306175	Pendimethalin	79.7	79.8	P/P	49 - 138
2306175	Phenytoin	51.8	55.9	P/P	50 - 200
2306175	Phorate	73.6	75.0	P/P	54 - 161
2306175	Prodiamine	69.4	77.1	P/P	33 - 161
2306175	Prometon	94.3	98.3	P/P	48 - 140
2306175	Prometryn	91.1	88.6	P/P	55 - 134
2306175	Pronamide	97.2	97.1	P/P	66 - 137
2306175	Propanil	105	100	P/P	50 - 150
2306175	Propargite	68.8	68.1	P/P	50 - 200
2306175	Pyraflufen Ethyl	74.3	68.4	P/P	50 - 150
2306175	Pyridaben	72.7	68.3	P/P	50 - 200
2306175	Pyriproxyfen	93.3	81.5	P/P	10 - 165
2306175	Stirophos	70.2	68.9	P/P	50 - 150
2306175	Sulfentrazone	72.1	70.2	P/P	34 - 140
2306175	Tebuconazole	67.3	71.6	P/P	10 - 127
2306175	Terbufos	102	105	P/P	59 - 138
2306175	Terbuthylazine	81.8	84.7	P/P	68 - 119
2306175	Thiobencarb	94.8	90.3	P/P	50 - 150
2306175	Triadimefon	94.0	98.6	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P410111

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306916	Aldrin	61.3	57.8	P/P	10 - 89.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P410111

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306916	Alpha-BHC	98.9	97.2	P/P	71 - 105
2306916	Alpha-Chlordane	75.2	86.7	P/P	43 - 107
2306916	Beta-BHC	136	158	P/F	57 - 152
2306916	Beta-Cyfluthrin	126	112	P/P	29 - 186
2306916	Bifenthrin	91.7	83.0	P/P	19 - 119
2306916	Chlorothalonil	21.0	9.97	P/F	10 - 245
2306916	Cis-Nonachlor	72.8	69.6	P/P	36 - 110
2306916	Cypermethrin	116	115	P/P	24 - 169
2306916	Dacthal	100	104	P/P	62 - 115
2306916	DDD-p,p'	57.3	55.4	P/P	36 - 109
2306916	DDE-p,p'	80.9	91.8	P/P	30 - 114
2306916	DDT-p,p'	122	141	F/F	42 - 108
2306916	Delta-BHC	142	158	P/P	60 - 164
2306916	Deltamethrin	118	110	P/P	10 - 210
2306916	Dichlobenil	48.7	56.3	P/P	23 - 108
2306916	Dicofol	38.2	27.8	F/F	44 - 109
2306916	Dieldrin	87.6	90.9	P/P	37 - 119
2306916	Endosulfan I	93.3	97.0	P/P	52 - 105
2306916	Endosulfan II	74.0	69.3	P/P	35 - 127
2306916	Endosulfan Sulfate	85.5	82.8	P/P	39 - 130
2306916	Endrin	74.2	67.2	P/P	30 - 116
2306916	Endrin Aldehyde	51.8	37.6	P/P	20 - 110
2306916	Endrin Ketone	109	103	P/P	48 - 134
2306916	Esfenvalerate	118	109	P/P	10 - 199
2306916	Ethalfuralin	80.5	80.6	P/P	48 - 95.0
2306916	Fenpropathrin	95.5	82.3	P/P	37 - 121
2306916	Gamma-BHC	120	124	P/P	61 - 126
2306916	Gamma-Chlordane	73.6	84.4	P/P	39 - 105
2306916	Heptachlor	74.6	70.1	P/P	38 - 96.0
2306916	Heptachlor Epoxide	92.7	97.1	P/P	42 - 114
2306916	Hexachlorobenzene	69.8	60.7	P/P	39 - 93.0
2306916	Kepone	90.7	99.0	P/P	10 - 215
2306916	Lambda-Cyhalothrin	142	120	P/P	10 - 204
2306916	Methoprene	69.1	75.2	P/P	17 - 108
2306916	Methoxychlor	86.7	83.7	P/P	56 - 115
2306916	MGK-264	74.8	66.3	P/P	35 - 120
2306916	Mirex	64.9	58.9	P/P	10 - 178
2306916	Oxychlordane	82.4	79.3	P/P	47 - 91.0
2306916	Permethrin	120	105	P/P	27 - 170
2306916	Phenothrin	131	131	P/P	10 - 133
2306916	Piperonyl Butoxide	111	104	P/P	23 - 150
2306916	Prallethrin	85.2	95.9	P/P	21 - 113
2306916	Tau-Fluvalinate	114	96.2	P/P	16 - 158
2306916	Tetramethrin	125	109	P/P	22 - 132
2306916	Trans-Nonachlor	85.0	92.0	P/P	43 - 102
2306916	Triclosan Methyl	78.5	89.7	P/P	49 - 109
2306916	Trifluralin	75.6	80.4	P/P	48 - 93.0

Reference Method: EPA 8276

Batch ID: P410111

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

Reference Method: EPA 8276

Batch ID: P410111

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307285	Chlordane	75.1	81.5	P/P	55 - 128
2307285	Toxaphene	75.4	77.6	P/P	57 - 211

Reference Method: EPA 8321B

Batch ID: P409991

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306405	Acesulfame K	110	116	P/P	40 - 150
2306405	AMPA	98.5	89.7	P/P	40 - 150
2306405	Endothall	126	140	P/P	40 - 150
2306405	Glufosinate	102	107	P/P	40 - 150
2306405	Glyphosate	81.5	79.8	P/P	40 - 150
2306405	Sucralose	106	108	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P410021

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306045	3-Hydroxycarbofuran	101	96.3	P/P	40 - 150
2306045	Aldicarb	101	87.6	P/P	30 - 150
2306045	Aldicarb Sulfone	105	107	P/P	40 - 150
2306045	Aldicarb Sulfoxide	51.8	51.6	P/P	40 - 150
2306045	Carbaryl	71.2	61.7	P/P	40 - 150
2306045	Carbofuran	75.9	81.3	P/P	40 - 150
2306045	Methiocarb	69.8	67.3	P/P	40 - 150
2306045	Methomyl	87.1	89.0	P/P	40 - 150
2306045	Oxamyl	94.9	94.0	P/P	40 - 150
2306045	Propoxur	84.3	88.3	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P410067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306405	2,4-D	99.2	129	P/P	30 - 160
2306405	2,4,5-T	67.7	90.7	P/P	30 - 160
2306405	Acetaminophen	95.6	122	P/P	30 - 150
2306405	Acetamiprid	89.7	116	P/P	30 - 160
2306405	Afidopyropen	70.2	93.2	P/P	30 - 160
2306405	Benzovindiflupyr	96.4	106	P/P	30 - 160
2306405	Carbamazepine	104	126	P/P	30 - 160
2306405	Clothianidin	94.9	111	P/P	30 - 160
2306405	Dinotefuran	122	138	P/P	30 - 160
2306405	Diuron	83.7	104	P/P	30 - 160
2306405	Fenuron	108	176	P/F	30 - 160
2306405	Fluridone	75.6	101	P/P	30 - 160
2306405	Hydrocodone	97.7	121	P/P	30 - 160
2306405	Ibuprofen	98.4	105	P/P	30 - 160
2306405	Imazapyr	122	155	P/P	30 - 160
2306405	Imidacloprid	139	159	P/P	30 - 160
2306405	Linuron	108	117	P/P	30 - 160
2306405	Mandestrobin	98.7	120	P/P	30 - 160
2306405	MCPP	94.7	112	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P410067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306405	Naproxen	89.0	101	P/P	30 - 160
2306405	Primidone	112	107	P/P	30 - 160
2306405	Pyraclostrobin	89.0	118	P/P	30 - 160
2306405	Silvex	69.3	93.0	P/P	30 - 160
2306405	Thiamethoxam	132	151	P/P	30 - 160
2306405	Tolfenpyrad	59.1	77.7	P/P	30 - 160
2306405	Triclopyr	80.6	108	P/P	30 - 160

Reference Method: SM 4500 F-C-2011
Batch ID: P410142

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306585	Fluoride	101	100	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P410453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305625	Organic Carbon	94.1		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P410454

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306981	Organic Carbon	101		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P410540

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307632	Organic Carbon	97.2	99.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P410077

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306804	Color (true)	3.79	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410079

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306696	Turbidity	10.7	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P410133

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306288	Barium	1.27	Spike	P	0 - 20
2306288	Calcium	0.788	Spike	P	0 - 20
2306288	Iron	0.837	Spike	P	0 - 20
2306288	Magnesium	0.908	Spike	P	0 - 20
2306288	Manganese	1.05	Spike	P	0 - 20
2306288	Potassium	0.463	Spike	P	0 - 20
2306288	Sodium	0.0743	Spike	P	0 - 20
2306288	Strontium	0.154	Spike	P	0 - 20
2306288	Tin	1.12	Spike	P	0 - 20
2306288	Titanium	1.31	Spike	P	0 - 20
2306288	Vanadium	0.819	Spike	P	0 - 20
2306288	Zinc	1.75	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P410133

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306288	Aluminum	1.90	Spike	P	0 - 20
2306288	Antimony	0.747	Spike	P	0 - 20
2306288	Arsenic	0.111	Spike	P	0 - 20
2306288	Barium	1.37	Spike	P	0 - 20
2306288	Beryllium	0.0691	Spike	P	0 - 20
2306288	Boron	0.402	Spike	P	0 - 20
2306288	Cadmium	0.772	Spike	P	0 - 20
2306288	Chromium	0.380	Spike	P	0 - 20
2306288	Cobalt	0.681	Spike	P	0 - 20
2306288	Copper	0.676	Spike	P	0 - 20
2306288	Lead	0.473	Spike	P	0 - 20
2306288	Manganese	0.438	Spike	P	0 - 20
2306288	Molybdenum	0.852	Spike	P	0 - 20
2306288	Nickel	0.448	Spike	P	0 - 20
2306288	Selenium	0.782	Spike	P	0 - 20
2306288	Silver	0.411	Spike	P	0 - 20
2306288	Thallium	0.502	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410286

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301844	Sulfate	0.467	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410287

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301844	Chloride	0.575	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410529

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306541	Ammonia-N	0.358	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410571

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306544	Ammonia-N	2.54	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306543	Kjeldahl Nitrogen	2.81	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306573	Kjeldahl Nitrogen	3.28	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307334	Kjeldahl Nitrogen	1.84	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410431

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306541	NO2NO3-N	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P410432

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306718	NO2NO3-N	1.57	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P410096

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306732	Total-P	0.661	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P410068

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306719	O-Phosphate-P	0.598	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P410080

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306175	Acetochlor	2.76	Spike	P	0 - 27
2306175	Alachlor	2.87	Spike	P	0 - 27
2306175	Ametryn	5.41	Spike	P	0 - 34
2306175	Atrazine	5.08	Spike	P	0 - 41
2306175	Atrazine Desethyl	4.33	Spike	P	0 - 38
2306175	Azinphos Methyl	2.95	Spike	P	0 - 62
2306175	Azoxystrobin	5.56	Spike	P	0 - 32
2306175	Bromacil	1.82	Spike	P	0 - 30
2306175	Butylate	1.52	Spike	P	0 - 59
2306175	Caffeine	24.2	Spike	P	0 - 60
2306175	Carbophenothion	1.18	Spike	P	0 - 25
2306175	Carfentrazone Ethyl	2.53	Spike	P	0 - 26
2306175	Chlorfenapyr	9.15	Spike	P	0 - 30
2306175	Chlorpyrifos Ethyl	4.03	Spike	P	0 - 27
2306175	Chlorpyrifos Methyl	2.77	Spike	P	0 - 26
2306175	Coumaphos	2.21	Spike	P	0 - 30
2306175	Cyanazine	10.4	Spike	P	0 - 58
2306175	Cyprodinil	11.1	Spike	P	0 - 30
2306175	Demeton	3.17	Spike	P	0 - 25
2306175	Diazinon	1.21	Spike	P	0 - 29
2306175	Difenoconazole	11.2	Spike	P	0 - 25
2306175	Dimethenamid	1.08	Spike	P	0 - 30
2306175	Dimethomorph	4.04	Spike	P	0 - 30
2306175	Disulfoton	11.7	Spike	P	0 - 33
2306175	Dithiopyr	11.0	Spike	P	0 - 22
2306175	EPTC	1.48	Spike	P	0 - 38
2306175	Ethion	5.97	Spike	P	0 - 79
2306175	Ethoprop	0.359	Spike	P	0 - 23
2306175	Etridiazole	10.2	Spike	P	0 - 30
2306175	Fenamiphos	11.1	Spike	P	0 - 58

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P410080

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306175	Fenbuconazole	24.8	Spike	P	0 - 37
2306175	Fipronil	9.69	Spike	P	0 - 33
2306175	Fipronil Desulfinyl	6.05	Spike	P	0 - 26
2306175	Fipronil Sulfide	0.776	Spike	P	0 - 37
2306175	Fipronil Sulfone	3.35	Spike	P	0 - 50
2306175	Fluazifop-P-butyl	11.3	Spike	P	0 - 24
2306175	Fludioxonil	4.02	Spike	P	0 - 26
2306175	Flumioxazin	1.44	Spike	P	0 - 37
2306175	Flutolanil	6.52	Spike	P	0 - 26
2306175	Fluxapyroxad	7.30	Spike	P	0 - 34
2306175	Fonofos	3.07	Spike	P	0 - 27
2306175	Hexazinone	8.22	Spike	P	0 - 36
2306175	Imazalil	7.61	Spike	P	0 - 65
2306175	Iprodione	8.12	Spike	P	0 - 33
2306175	Loratadine	3.23	Spike	P	0 - 30
2306175	Malathion	0.830	Spike	P	0 - 44
2306175	Metalaxyl	6.50	Spike	P	0 - 38
2306175	Metolachlor	0.0586	Spike	P	0 - 36
2306175	Metribuzin	4.42	Spike	P	0 - 63
2306175	Mevinphos	6.77	Spike	P	0 - 26
2306175	Molinate	2.12	Spike	P	0 - 40
2306175	Myclobutanil	6.44	Spike	P	0 - 21
2306175	Naled	6.17	Spike	P	0 - 26
2306175	Napropamide	1.73	Spike	P	0 - 30
2306175	Norflurazon	0.0620	Spike	P	0 - 24
2306175	Oxadiazon	5.23	Spike	P	0 - 27
2306175	Oxyfluorfen	1.41	Spike	P	0 - 24
2306175	Parathion Ethyl	9.33	Spike	P	0 - 28
2306175	Parathion Methyl	4.34	Spike	P	0 - 27
2306175	Pendimethalin	0.100	Spike	P	0 - 31
2306175	Phenytoin	7.67	Spike	P	0 - 30
2306175	Phorate	1.88	Spike	P	0 - 27
2306175	Prodiamine	10.5	Spike	P	0 - 52
2306175	Prometon	4.17	Spike	P	0 - 31
2306175	Prometryn	2.81	Spike	P	0 - 28
2306175	Pronamide	0.127	Spike	P	0 - 26
2306175	Propanil	4.08	Spike	P	0 - 30
2306175	Propargite	1.06	Spike	P	0 - 30
2306175	Propiconazole	8.04	Spike	P	0 - 31
2306175	Pyraflufen Ethyl	8.26	Spike	P	0 - 30
2306175	Pyridaben	6.17	Spike	P	0 - 30
2306175	Pyriproxyfen	13.6	Spike	P	0 - 50
2306175	Simazine	4.47	Spike	P	0 - 29
2306175	Stirophos	1.88	Spike	P	0 - 30
2306175	Sulfentrazone	1.94	Spike	P	0 - 33
2306175	Tebuconazole	4.75	Spike	P	0 - 44
2306175	Terbufos	2.83	Spike	P	0 - 29
2306175	Terbuthylazine	3.47	Spike	P	0 - 27
2306175	Thiobencarb	4.87	Spike	P	0 - 30
2306175	Triadimefon	3.97	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P410111

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306916	Aldrin	5.94	Spike	P	0 - 37
2306916	Alpha-BHC	1.61	Spike	P	0 - 16
2306916	Alpha-Chlordane	14.2	Spike	P	0 - 28
2306916	Beta-BHC	14.5	Spike	P	0 - 32
2306916	Beta-Cyfluthrin	11.9	Spike	P	0 - 41
2306916	Bifenthrin	10.0	Spike	P	0 - 36
2306916	Chlorothalonil	71.4	Spike	F	0 - 54
2306916	Cis-Nonachlor	4.39	Spike	P	0 - 33
2306916	Cypermethrin	1.05	Spike	P	0 - 38
2306916	Dacthal	4.08	Spike	P	0 - 23
2306916	DDD-p,p'	3.43	Spike	P	0 - 35
2306916	DDE-p,p'	12.6	Spike	P	0 - 27
2306916	DDT-p,p'	14.4	Spike	P	0 - 31
2306916	Delta-BHC	10.6	Spike	P	0 - 30
2306916	Deltamethrin	7.66	Spike	P	0 - 76
2306916	Dichlobenil	14.6	Spike	P	0 - 33
2306916	Dicofol	31.3	Spike	F	0 - 24
2306916	Dieldrin	3.71	Spike	P	0 - 35
2306916	Endosulfan I	3.89	Spike	P	0 - 25
2306916	Endosulfan II	6.58	Spike	P	0 - 31
2306916	Endosulfan Sulfate	3.20	Spike	P	0 - 38
2306916	Endrin	9.81	Spike	P	0 - 53
2306916	Endrin Aldehyde	31.8	Spike	P	0 - 81
2306916	Endrin Ketone	4.80	Spike	P	0 - 33
2306916	Esfenvalerate	7.45	Spike	P	0 - 46
2306916	Ethalfuralin	0.0776	Spike	P	0 - 22
2306916	Fenpropathrin	14.8	Spike	P	0 - 29
2306916	Gamma-BHC	3.43	Spike	P	0 - 17
2306916	Gamma-Chlordane	13.7	Spike	P	0 - 28
2306916	Heptachlor	6.13	Spike	P	0 - 28
2306916	Heptachlor Epoxide	4.61	Spike	P	0 - 23
2306916	Hexachlorobenzene	13.9	Spike	P	0 - 22
2306916	Kepone	8.73	Spike	P	0 - 61
2306916	Lambda-Cyhalothrin	16.5	Spike	P	0 - 52
2306916	Methoprene	8.39	Spike	P	0 - 38
2306916	Methoxychlor	3.46	Spike	P	0 - 29
2306916	MGK-264	12.0	Spike	P	0 - 41
2306916	Mirex	9.59	Spike	P	0 - 39
2306916	Oxychlordane	3.91	Spike	P	0 - 33
2306916	Permethrin	12.5	Spike	P	0 - 39
2306916	Phenothrin	0.369	Spike	P	0 - 52
2306916	Piperonyl Butoxide	6.76	Spike	P	0 - 91
2306916	Prallethrin	11.8	Spike	P	0 - 34
2306916	Tau-Fluvalinate	17.3	Spike	P	0 - 41
2306916	Tetramethrin	13.3	Spike	P	0 - 43
2306916	Trans-Nonachlor	7.95	Spike	P	0 - 31
2306916	Triclosan Methyl	13.3	Spike	P	0 - 24
2306916	Trifluralin	6.10	Spike	P	0 - 23

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P410111

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307285	Chlordane	8.14	Spike	P	0 - 25
2307285	Toxaphene	2.90	Spike	P	0 - 24

Reference Method: EPA 8321B

Batch ID: P409991

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306405	Acesulfame K	4.72	Spike	P	0 - 30
2306405	AMPA	8.65	Spike	P	0 - 30
2306405	Endothall	10.7	Spike	P	0 - 30
2306405	Glufosinate	4.68	Spike	P	0 - 30
2306405	Glyphosate	1.69	Spike	P	0 - 30
2306405	Sucralose	1.36	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P410021

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306045	3-Hydroxycarbofuran	4.28	Spike	P	0 - 30
2306045	Aldicarb	14.3	Spike	P	0 - 30
2306045	Aldicarb Sulfone	1.75	Spike	P	0 - 30
2306045	Aldicarb Sulfoxide	0.346	Spike	P	0 - 30
2306045	Carbaryl	14.4	Spike	P	0 - 30
2306045	Carbofuran	6.95	Spike	P	0 - 30
2306045	Methiocarb	3.65	Spike	P	0 - 30
2306045	Methomyl	2.16	Spike	P	0 - 30
2306045	Oxamyl	0.980	Spike	P	0 - 30
2306045	Propoxur	4.67	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P410067

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306405	2,4-D	26.0	Spike	P	0 - 30
2306405	2,4,5-T	29.1	Spike	P	0 - 30
2306405	Acetaminophen	24.4	Spike	P	0 - 30
2306405	Acetamiprid	25.4	Spike	P	0 - 30
2306405	Afidopyropen	28.3	Spike	P	0 - 30
2306405	Bentazon	14.2	Spike	P	0 - 30
2306405	Benzovindiflupyr	9.20	Spike	P	0 - 30
2306405	Carbamazepine	19.7	Spike	P	0 - 30
2306405	Clothianidin	15.0	Spike	P	0 - 30
2306405	Dinotefuran	12.2	Spike	P	0 - 30
2306405	Diuron	21.2	Spike	P	0 - 30
2306405	Fenuron	47.6	Spike	F	0 - 30
2306405	Fluridone	23.4	Spike	P	0 - 30
2306405	Hydrocodone	21.7	Spike	P	0 - 30
2306405	Ibuprofen	6.88	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P410067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306405	Imazapyr	15.4	Spike	P	0 - 30
2306405	Imidacloprid	12.6	Spike	P	0 - 30
2306405	Linuron	8.08	Spike	P	0 - 30
2306405	Mandestrobin	19.1	Spike	P	0 - 30
2306405	MCPP	16.6	Spike	P	0 - 30
2306405	Naproxen	12.7	Spike	P	0 - 30
2306405	Primidone	4.69	Spike	P	0 - 30
2306405	Pyraclostrobin	28.0	Spike	P	0 - 30
2306405	Silvex	29.2	Spike	P	0 - 30
2306405	Thiamethoxam	13.5	Spike	P	0 - 30
2306405	Tolfenpyrad	27.2	Spike	P	0 - 30
2306405	Triclopyr	29.1	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P410139

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306585	Total Alkalinity	0.543	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P410636

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306731	TDS	2.31	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P410142

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306585	Fluoride	0.473	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305625	Organic Carbon	1.95	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P410454

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306981	Organic Carbon	0.213	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P410540

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307632	Organic Carbon	1.51	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2306713
Field Sample ID: 19010085

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	87.3	P	30 - 160

Lab Sample ID: 2306714
Field Sample ID: 19010085

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	124	P	30 - 160
EPA 8321B	Acetaminophen-d4	99.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	104	P	30 - 160
EPA 8321B	Diuron-d6	89.2	P	30 - 160
EPA 8321B	Endothall-d6	144	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	110	P	30 - 160
EPA 8321B	Primidone-d5	116	P	30 - 160
EPA 8321B	Sucralose-d6	96.1	P	30 - 160

Lab Sample ID: 2306715
Field Sample ID: 19010125

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	122	P	30 - 160
EPA 8321B	Acetaminophen-d4	112	P	30 - 160
EPA 8321B	Carbamazepine-d10	103	P	30 - 160
EPA 8321B	Diuron-d6	91.5	P	30 - 160
EPA 8321B	Endothall-d6	127	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	95.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	103	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	91.9	P	30 - 160

Lab Sample ID: 2306722
Field Sample ID: 19010085

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	110	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	66.6	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	95.6	P	30 - 97.0
EPA 8276	PCNB	106	P	45 - 119

Lab Sample ID: 2306723
Field Sample ID: 19010085

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	86.5	P	20 - 200
EPA 8270E	Simazine-d10	115	P	71 - 140
EPA 8270E	Terbufos-d10	92.7	P	62 - 131

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110497

Included Lab Sample IDs: 2306692, 2306693, 2306694, 2306695, 2306698

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

Reference Method: DEP SOP: NU-094-1

Run ID: A110500

Included Lab Sample IDs: 2306684, 2306685, 2306686, 2306687, 2306696

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110501

Included Lab Sample IDs: 2306684, 2306685, 2306686, 2306687, 2306696

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

Reference Method: EPA 8321B

Run ID: A110506

Included Lab Sample IDs: 2306714, 2306715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.5	99.8	P/P	60 - 160
Glufosinate	98.5	101	P/P	60 - 160
Glyphosate	96.8	93.8	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A110513

Included Lab Sample IDs: 2306714, 2306715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	104	114	P/P	60 - 160
Endothall	65.5	117	P/P	60 - 160
Sucralose	109	108	P/P	60 - 160

Reference Method: SM 2320 B-2011

Run ID: A110525

Included Lab Sample IDs: 2306684, 2306685, 2306686, 2306687, 2306696

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.0	97.4	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110525

Included Lab Sample IDs: 2306684, 2306685, 2306686, 2306687, 2306696

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110543

Included Lab Sample IDs: 2306684, 2306685, 2306686, 2306687, 2306696

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.2	99.3	P/P	90 - 110
Sulfate	99.7	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110568

Included Lab Sample IDs: 2306690, 2306697

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110579

Included Lab Sample IDs: 2306724, 2306725, 2306726, 2306727, 2306728, 2306729, 2306730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	104	P/P	90 - 110
Aluminum	104	105	P/P	90 - 110
Antimony	98.6	98.9	P/P	90 - 110
Antimony	98.9	98.8	P/P	90 - 110
Arsenic	101	101	P/P	90 - 110
Arsenic	101	101	P/P	90 - 110
Barium	103	102	P/P	90 - 110
Barium	104	103	P/P	90 - 110
Beryllium	96.8	97.2	P/P	90 - 110
Beryllium	97.2	93.8	P/P	90 - 110
Boron	100	104	P/P	90 - 110
Boron	104	108	P/P	90 - 110
Cadmium	100	101	P/P	90 - 110
Cadmium	101	101	P/P	90 - 110
Chromium	98.6	96.8	P/P	90 - 110
Chromium	99.5	98.6	P/P	90 - 110
Cobalt	101	101	P/P	90 - 110
Cobalt	99.1	101	P/P	90 - 110
Lead	95.5	96.9	P/P	90 - 110
Lead	96.9	96.1	P/P	90 - 110
Manganese	98.8	99.7	P/P	90 - 110
Manganese	99.7	97.9	P/P	90 - 110
Molybdenum	100	99.8	P/P	90 - 110
Molybdenum	99.1	100	P/P	90 - 110
Nickel	101	103	P/P	90 - 110
Nickel	103	103	P/P	90 - 110
Selenium	101	101	P/P	90 - 110
Selenium	101	99.8	P/P	90 - 110
Silver	92.0	92.5	P/P	90 - 110
Silver	92.5	92.7	P/P	90 - 110
Thallium	102	101	P/P	90 - 110
Thallium	99.8	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A110597

Included Lab Sample IDs: 2306714, 2306715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	131	114	P/P	50 - 150
2,4,5-T	90.3	90.3	P/P	50 - 150
Acetaminophen	130	122	P/P	60 - 160
Acetamiprid	131	130	P/P	50 - 150
Afidopyropen	116	115	P/P	50 - 150
Bentazon	138	154	P/P	50 - 160
Benzovindiflupyr	124	134	P/P	50 - 160
Carbamazepine	126	123	P/P	60 - 150
Clothianidin	106	110	P/P	60 - 150
Dinotefuran	110	124	P/P	50 - 150
Diuron	135	135	P/P	60 - 160
Fenuron	121	127	P/P	60 - 150
Fluridone	106	102	P/P	60 - 160
Hydrocodone	114	119	P/P	60 - 150
Ibuprofen	108	95.6	P/P	50 - 160
Imazapyr	145	150	P/P	50 - 150
Imidacloprid	106	101	P/P	60 - 150
Linuron	136	148	P/P	60 - 150
Mandestrobin	130	139	P/P	50 - 150
MCPP	100	88.8	P/P	50 - 150
Naproxen	89.3	67.2	P/P	50 - 160
Primidone	117	105	P/P	60 - 150
Pyraclostrobin	133	139	P/P	60 - 150
Silvex	83.2	82.9	P/P	50 - 150
Thiamethoxam	111	114	P/P	50 - 150
Tolfenpyrad	127	136	P/P	60 - 150
Triclopyr	113	115	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110607

Included Lab Sample IDs: 2306724, 2306725, 2306726, 2306727, 2306728, 2306729, 2306730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	102	99.4	P/P	90 - 110
Copper	101	105	P/P	90 - 110
Copper	101	101	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110611

Included Lab Sample IDs: 2306723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.3		P	80 - 120
Alachlor	99.6		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	95.5		P	80 - 120
Atrazine Desethyl	98.8		P	80 - 120
Azinphos Methyl	104		P	80 - 120
Azoxystrobin	97.9		P	80 - 120
Bromacil	95.2		P	80 - 120
Butylate	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110611
Included Lab Sample IDs: 2306723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Caffeine	89.1		P	80 - 120
Carbophenothion	96.8		P	80 - 120
Carfentrazone Ethyl	93.4		P	80 - 120
Chlorfenapyr	97.9		P	80 - 120
Chlorpyrifos Ethyl	99.2		P	80 - 120
Chlorpyrifos Methyl	98.5		P	80 - 120
Coumaphos	98.2		P	80 - 120
Cyanazine	90.8		P	80 - 120
Cyprodinil	105		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	104		P	80 - 120
Difenoconazole	106		P	80 - 120
Dimethenamid	94.3		P	80 - 120
Dimethomorph	100		P	80 - 120
Disulfoton	94.0		P	80 - 120
Dithiopyr	97.3		P	80 - 120
EPTC	104		P	80 - 120
Ethion	94.4		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	96.0		P	80 - 120
Fenamiphos	107		P	80 - 120
Fenbuconazole	115		P	80 - 120
Fipronil	91.5		P	80 - 120
Fipronil Desulfinyl	96.9		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	98.4		P	80 - 120
Fluazifop-P-butyl	110		P	80 - 120
Fludioxonil	105		P	80 - 120
Flumioxazin	102		P	80 - 120
Flutolanil	99.5		P	80 - 120
Fluxapyroxad	97.0		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	85.7		P	80 - 120
Imazalil	109		P	80 - 120
Iprodione	104		P	80 - 120
Loratadine	97.5		P	80 - 120
Malathion	106		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	99.3		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	109		P	80 - 120
Molinate	104		P	80 - 120
Myclobutanil	97.9		P	80 - 120
Naled	111		P	80 - 120
Napropamide	96.5		P	80 - 120
Norflurazon	92.9		P	80 - 120
Oxadiazon	98.3		P	80 - 120
Oxyfluorfen	85.7		P	80 - 120
Parathion Ethyl	91.8		P	80 - 120
Parathion Methyl	91.5		P	80 - 120
Pendimethalin	93.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110611
Included Lab Sample IDs: 2306723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Phenytoin	100		P	80 - 120
Phorate	104		P	80 - 120
Prodiamine	95.9		P	80 - 120
Prometon	95.3		P	80 - 120
Prometryn	99.0		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	109		P	80 - 120
Propargite	94.7		P	80 - 120
Propiconazole	94.9		P	80 - 120
Pyraflufen Ethyl	99.4		P	80 - 120
Pyridaben	105		P	80 - 120
Pyriproxyfen	99.3		P	80 - 120
Simazine	104		P	80 - 120
Stirophos	93.1		P	80 - 120
Sulfentrazone	98.5		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	98.8		P	80 - 120
Terbutylazine	100		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	106		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A110613
Included Lab Sample IDs: 2306688, 2306690, 2306697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.7	96.5	P/P	90 - 110
Kjeldahl Nitrogen	96.8	94.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A110618
Included Lab Sample IDs: 2306688, 2306689, 2306691

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	109	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A110625
Included Lab Sample IDs: 2306713

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	114	117	P/P	60 - 150
Aldicarb	127	126	P/P	60 - 150
Aldicarb Sulfone	113	111	P/P	50 - 150
Aldicarb Sulfoxide	113	112	P/P	50 - 150
Carbaryl	116	113	P/P	60 - 150
Carbofuran	108	108	P/P	50 - 150
Methiocarb	116	112	P/P	50 - 150
Methomyl	110	116	P/P	50 - 150
Oxamyl	118	115	P/P	50 - 150
Propoxur	122	119	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110637

Included Lab Sample IDs: 2306724, 2306725, 2306726, 2306727, 2306728, 2306729, 2306730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	99.7	102	P/P	90 - 110
Calcium	100	103	P/P	90 - 110
Calcium	103	102	P/P	90 - 110
Iron	102	104	P/P	90 - 110
Iron	104	104	P/P	90 - 110
Magnesium	102	103	P/P	90 - 110
Magnesium	103	104	P/P	90 - 110
Manganese	101	104	P/P	90 - 110
Potassium	101	102	P/P	90 - 110
Potassium	102	103	P/P	90 - 110
Sodium	101	103	P/P	90 - 110
Sodium	103	102	P/P	90 - 110
Strontium	100	102	P/P	90 - 110
Strontium	102	101	P/P	90 - 110
Tin	102	105	P/P	90 - 110
Tin	105	103	P/P	90 - 110
Titanium	102	100	P/P	90 - 110
Titanium	99.2	102	P/P	90 - 110
Vanadium	97.7	100	P/P	90 - 110
Vanadium	100	98.1	P/P	90 - 110
Zinc	102	105	P/P	90 - 110
Zinc	105	101	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A110651

Included Lab Sample IDs: 2306722

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	94.5		P	80 - 120
Toxaphene	106		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110660

Included Lab Sample IDs: 2306688, 2306689, 2306690, 2306691, 2306697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.0	97.5	P/P	90 - 110
NO2NO3-N	99.0	97.0	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A110664

Included Lab Sample IDs: 2306688, 2306690, 2306691, 2306697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	96.3	P/P	90 - 110
Organic Carbon	96.3	96.6	P/P	90 - 110
Organic Carbon	96.4	96.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110696

Included Lab Sample IDs: 2306688, 2306690, 2306691, 2306697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.5	97.1	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A110701

Included Lab Sample IDs: 2306689

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	96.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110711

Included Lab Sample IDs: 2306689

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	97.6	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110752

Included Lab Sample IDs: 2306722

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	98.1		P	80 - 120
Alpha-Chlordane	95.9		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	85.1		P	80 - 120
Bifenthrin	104		P	80 - 120
Chlorothalonil	88.9		P	80 - 120
Cis-Nonachlor	101		P	80 - 120
Cypermethrin	104		P	80 - 120
Dacthal	96.0		P	80 - 120
DDD-p,p'	105		P	80 - 120
DDE-p,p'	98.6		P	80 - 120
DDT-p,p'	87.1		P	80 - 120
Delta-BHC	94.1		P	80 - 120
Deltamethrin	80.9		P	80 - 120
Dichlobenil	102		P	80 - 120
Dieldrin	96.5		P	80 - 120
Endosulfan I	97.1		P	80 - 120
Endosulfan II	106		P	80 - 120
Endosulfan Sulfate	103		P	80 - 120
Endrin	106		P	80 - 120
Endrin Aldehyde	105		P	80 - 120
Endrin Ketone	102		P	80 - 120
Esfenvalerate	91.4		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	101		P	80 - 120
Gamma-BHC	99.2		P	80 - 120
Gamma-Chlordane	95.4		P	80 - 120
Heptachlor	98.3		P	80 - 120
Heptachlor Epoxide	98.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110752
Included Lab Sample IDs: 2306722

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexachlorobenzene	99.8		P	80 - 120
Kepone	117		P	80 - 120
Lambda-Cyhalothrin	94.1		P	80 - 120
Methoprene	90.8		P	80 - 120
Methoxychlor	96.0		P	80 - 120
MGK-264	95.3		P	80 - 120
Mirex	100		P	80 - 120
Oxychlordane	91.6		P	80 - 120
Permethrin	96.2		P	80 - 120
Phenothrin	94.3		P	80 - 120
Piperonyl Butoxide	102		P	80 - 120
Prallethrin	97.9		P	80 - 120
Tau-Fluvalinate	92.4		P	80 - 120
Tetramethrin	105		P	80 - 120
Trans-Nonachlor	98.4		P	80 - 120
Triclosan Methyl	91.2		P	80 - 120
Trifluralin	98.4		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A110781
Included Lab Sample IDs: 2306689, 2306691

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

Reference Method: EPA 8270E
Run ID: A110827
Included Lab Sample IDs: 2306722

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dicofol	102		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	97.5					3.79	
EPA 180.1 Rev. 2.0	Turbidity	97.4					10.7	
EPA 200.7 Rev. 4.4	Barium	103	99.2	97.9	98.6			1.27
	Calcium	103	98.8					0.788
	Iron	107	104	103	103			0.837
	Magnesium	108	104	102	101			0.908
	Manganese	105	100	98.9	98.0			1.05
	Potassium	106	102	102	104			0.463
	Sodium	107	98.9	99.1	102			0.0743
	Strontium	102	98.8	98.6	98.2			0.154
	Tin	105	99.8	98.7	96.6			1.12
	Titanium	102	98.5	97.2	98.6			1.31
	Vanadium	94.8	92.8	92.6	93.6			0.819
	Zinc	103	100	98.2	98.4			1.75
EPA 200.8 Rev. 5.4	Aluminum	103	101	104	98.7			1.90
	Antimony	102	96.0	96.7	101			0.747
	Arsenic	101	96.6	96.8	101			0.111
	Barium	106	99.0	101	102			1.37
	Beryllium	97.1	90.6	90.7	92.4			0.0691
	Boron	105	102	101	105			0.402
	Cadmium	103	94.4	95.2	99.3			0.772
	Chromium	98.2	93.6	94.0	96.7			0.380
	Cobalt	98.6	96.4	97.0	100			0.681
	Copper	101	94.7	96.8	97.5			0.676
	Lead	96.5	91.2	91.7	94.7			0.473
	Manganese	97.4	93.9	94.5				0.438
	Molybdenum	98.3	95.4	96.3	99.2			0.852
	Nickel	100	98.2	97.7	101			0.448
	Selenium	103	97.8	98.5	102			0.782
	Silver	96.3	96.1	96.5	96.9			0.411
	Thallium	99.3	95.5	96.0	97.3			0.502
EPA 300.0 Rev. 2.1	Chloride	99.1	95.1	97.6			0.575	
	Sulfate	99.6	97.8	97.8			0.467	
EPA 350.1 Rev. 2.0	Ammonia-N	95.8	96.4	96.8				0.358
	Ammonia-N	97.8	95.8	98.6				2.54
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	99.1	95.1				2.81
	Kjeldahl Nitrogen	97.4	97.0	93.8				3.28
	Kjeldahl Nitrogen	105	98.0	99.9				1.84
EPA 353.2 Rev. 2.0	NO2NO3-N	100	99.5	99.5				0.0
	NO2NO3-N	97.0	94.5	96.0				1.57
EPA 365.1 Rev. 2.0	Total-P	105						0.661
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3	100	101				0.598
EPA 8270E	Acetochlor	80.8	101	97.9				2.76
	Alachlor	78.7	88.4	90.9				2.87
	Aldrin	61.4	61.3	57.8				5.94
	Alpha-BHC	92.2	98.9	97.2				1.61
	Alpha-Chlordane	83.3	75.2	86.7				14.2
	Ametryn	88.9	111	105				5.41
	Atrazine	83.0						5.08
	Atrazine Desethyl	49.9						4.33
	Azinphos Methyl	112	109	112				2.95
	Azoxystrobin	77.1	86.3	92.1				5.56
	Beta-BHC	106	136	158				14.5
	Beta-Cyfluthrin	94.2	126	112				11.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Bifenthrin	73.8	91.7	83.0			10.0
	Bromacil	66.6					1.82
	Butylate	46.5	44.0	44.7			1.52
	Caffeine	107					24.2
	Carbophenothion	92.9	77.6	78.5			1.18
	Carfentrazone Ethyl	85.6	75.3	73.4			2.53
	Chlorfenapyr	85.1	79.2	86.8			9.15
	Chlorothalonil	106	21.0	9.97			71.4
	Chlorpyrifos Ethyl	78.3	73.2	70.3			4.03
	Chlorpyrifos Methyl	81.4	88.5	86.1			2.77
	Cis-Nonachlor	72.2	72.8	69.6			4.39
	Coumaphos	94.5	80.9	82.7			2.21
	Cyanazine	106	127	141			10.4
	Cypermethrin	102	116	115			1.05
	Cyprodinil	83.4	101	90.1			11.1
	Dacthal	89.3	100	104			4.08
	DDD-p,p'	60.3	57.3	55.4			3.43
	DDE-p,p'	87.7	80.9	91.8			12.6
	DDT-p,p'	120	122	141			14.4
	Delta-BHC	104	142	158			10.6
	Deltamethrin	83.9	118	110			7.66
	Demeton	66.4	88.8	86.1			3.17
	Diazinon	75.6	87.3	88.4			1.21
	Dichlobenil	91.2	48.7	56.3			14.6
	Dicofol	34.0	38.2	27.8			31.3
	Dieldrin	85.0	87.6	90.9			3.71
	Difenoconazole	135	176	157			11.2
	Dimethenamid	66.1	80.6	79.7			1.08
	Dimethomorph	80.0	104	98.0			4.04
	Disulfoton	77.4	85.3	95.8			11.7
	Dithiopyr	83.5	98.5	88.2			11.0
	Endosulfan I	87.3	93.3	97.0			3.89
	Endosulfan II	73.4	74.0	69.3			6.58
	Endosulfan Sulfate	79.8	85.5	82.8			3.20
	Endrin	71.0	74.2	67.2			9.81
	Endrin Aldehyde	61.2	51.8	37.6			31.8
	Endrin Ketone	88.4	109	103			4.80
	EPTC	46.8	35.4	36.0			1.48
	Esfenvalerate	84.2	118	109			7.45
	Ethalfuralin	85.5	80.5	80.6			0.0776
	Ethion	84.1	82.0	77.3			5.97
	Ethoprop	68.5	87.0	87.3			0.359
	Etridiazole	45.5	49.0	44.2			10.2
	Fenamiphos	97.3	82.7	92.4			11.1
	Fenbuconazole	49.5	38.4	49.3			24.8
	Fenpropathrin	81.3	95.5	82.3			14.8
	Fipronil	83.5	96.1	82.3			9.69
	Fipronil Desulfanyl	91.5	102	94.4			6.05
	Fipronil Sulfide	71.7	73.6	72.8			0.776
	Fipronil Sulfone	72.1	72.1	67.0			3.35
	Fluazifop-P-butyl	93.7	83.8	93.9			11.3
	Fludioxonil	96.8	96.7	101			4.02
	Flumioxazin	71.3	79.8	81.0			1.44
	Flutolanil	80.3	63.5	67.7			6.52

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Fluxapyroxad	65.9	65.5	71.0		7.30
	Fonofos	65.8	76.0	78.4		3.07
	Gamma-BHC	99.2	120	124		3.43
	Gamma-Chlordane	84.4	73.6	84.4		13.7
	Heptachlor	75.7	74.6	70.1		6.13
	Heptachlor Epoxide	94.3	92.7	97.1		4.61
	Hexachlorobenzene	69.1	69.8	60.7		13.9
	Hexazinone	78.9	87.8	95.4		8.22
	Imazalil	103	153	142		7.61
	Iprodione	90.1	81.4	88.3		8.12
	Kepone	74.2	90.7	99.0		8.73
	Lambda-Cyhalothrin	88.2	142	120		16.5
	Loratadine	66.0	96.0	99.2		3.23
	Malathion	87.1	127	128		0.830
	Metalaxyl	85.1	96.9	90.8		6.50
	Methoprene	80.3	69.1	75.2		8.39
	Methoxychlor	86.1	86.7	83.7		3.46
	Metolachlor	82.9	92.5	92.6		0.0586
	Metribuzin	90.5	97.6	102		4.42
	Mevinphos	61.2	69.0	73.9		6.77
	MGK-264	87.3	74.8	66.3		12.0
	Mirex	65.0	64.9	58.9		9.59
	Molinate	56.3	56.8	58.0		2.12
	Myclobutanil	84.3	81.5	86.9		6.44
	Naled	89.7	96.3	102		6.17
	Napropamide	85.1	73.5	74.8		1.73
	Norflurazon	83.8	91.0	91.0		0.0620
	Oxadiazon	71.7	68.3	74.6		5.23
	Oxychlordane	79.8	82.4	79.3		3.91
	Oxyfluorfen	80.9	97.1	98.4		1.41
	Parathion Ethyl	73.4	82.5	90.6		9.33
	Parathion Methyl	80.3	108	113		4.34
	Pendimethalin	61.2	79.7	79.8		0.100
	Permethrin	100	120	105		12.5
	Phenothrin	73.8	131	131		0.369
	Phenytol	58.6	51.8	55.9		7.67
	Phorate	56.7	73.6	75.0		1.88
	Piperonyl Butoxide	97.4	111	104		6.76
	Prallethrin	82.7	85.2	95.9		11.8
	Prodiamine	38.6	69.4	77.1		10.5
	Prometon	78.7	94.3	98.3		4.17
	Prometryn	83.2	91.1	88.6		2.81
	Pronamide	77.9	97.2	97.1		0.127
	Propanil	92.5	105	100		4.08
	Propargite	84.3	68.8	68.1		1.06
	Propiconazole	80.2				8.04
	Pyraflufen Ethyl	86.4	74.3	68.4		8.26
	Pyridaben	83.9	72.7	68.3		6.17
	Pyriproxyfen	74.0	93.3	81.5		13.6
	Simazine	77.2				4.47
	Stirophos	82.1	70.2	68.9		1.88
	Sulfentrazone	80.2	72.1	70.2		1.94
	Tau-Fluvalinate	73.3	114	96.2		17.3
	Tebuconazole	73.4	67.3	71.6		4.75

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Terbufos	84.9	102	105			2.83
	Terbutylazine	74.4	81.8	84.7			3.47
	Tetramethrin	85.7	125	109			13.3
	Thiobencarb	83.2	94.8	90.3			4.87
	Trans-Nonachlor	91.0	85.0	92.0			7.95
	Triadimefon	90.3	94.0	98.6			3.97
	Triclosan Methyl	86.8	78.5	89.7			13.3
	Trifluralin	80.2	75.6	80.4			6.10
EPA 8276	Chlordane	88.8	75.1	81.5			8.14
	Toxaphene	75.2	75.4	77.6			2.90
EPA 8321B	2,4-D	90.9	99.2	129			26.0
	2,4,5-T	76.6	67.7	90.7			29.1
	3-Hydroxycarbofuran	98.7	101	96.3			4.28
	Acesulfame K	117	110	116			4.72
	Acetaminophen	92.4	95.6	122			24.4
	Acetamiprid	81.7	89.7	116			25.4
	Afidopyropen	62.9	70.2	93.2			28.3
	Aldicarb	88.2	101	87.6			14.3
	Aldicarb Sulfone	90.3	105	107			1.75
	Aldicarb Sulfoxide	90.1	51.8	51.6			0.346
	AMPA	99.5	98.5	89.7			8.65
	Bentazon	61.6					14.2
	Benzovindiflupyr	114	96.4	106			9.20
	Carbamazepine	119	104	126			19.7
	Carbaryl	76.9	71.2	61.7			14.4
	Carbofuran	99.1	75.9	81.3			6.95
	Clothianidin	89.6	94.9	111			15.0
	Dinotefuran	114	122	138			12.2
	Diuron	101	83.7	104			21.2
	Endothall	107	126	140			10.7
	Fenuron	157	108	176			47.6
	Fluridone	92.6	75.6	101			23.4
	Glufosinate	106	102	107			4.68
	Glyphosate	93.6	81.5	79.8			1.69
	Hydrocodone	110	97.7	121			21.7
	Ibuprofen	96.1	98.4	105			6.88
	Imazapyr	129	122	155			15.4
	Imidacloprid	103	139	159			12.6
	Linuron	124	108	117			8.08
	Mandestrobin	116	98.7	120			19.1
	MCPP	97.7	94.7	112			16.6
	Methiocarb	101	69.8	67.3			3.65
	Methomyl	94.3	87.1	89.0			2.16
	Naproxen	102	89.0	101			12.7
	Oxamyl	97.4	94.9	94.0			0.980
	Primidone	117	112	107			4.69
	Propoxur	98.1	84.3	88.3			4.67
	Pyraclostrobin	99.5	89.0	118			28.0
	Silvex	69.6	69.3	93.0			29.2
	Sucralose	113	106	108			1.36
	Thiamethoxam	101	132	151			13.5
	Tolfenpyrad	62.5	59.1	77.7			27.2
	Triclopyr	89.7	80.6	108			29.1
SM 2320 B-2011	Total Alkalinity	99.8				0.543	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 2540 C-2011	TDS				2.31	
SM 4500 F-C-2011	Fluoride	101	101	100		0.473
SM 5310 B-2011	Organic Carbon	96.0	94.1			1.95
	Organic Carbon	97.8	101			0.213
	Organic Carbon	95.2	97.2	99.4		1.51

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2306684, 2306685, 2306686, 2306687, 2306696
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2306684, 2306685, 2306686, 2306687, 2306696
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2306724, 2306725, 2306726, 2306727, 2306728, 2306729, 2306730
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2306724, 2306725, 2306726, 2306727, 2306728, 2306729, 2306730
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2306684, 2306685, 2306686, 2306687, 2306696
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2306684, 2306685, 2306686, 2306687, 2306696
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2306688, 2306689, 2306690, 2306691, 2306697
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2306688, 2306689, 2306690, 2306691, 2306697
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2306688, 2306689, 2306690, 2306691, 2306697
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2306688, 2306689, 2306690, 2306691, 2306697
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2306692, 2306693, 2306694, 2306695, 2306698
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2306722
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2306723
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2306722
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2306713
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2306714, 2306715
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2306684, 2306685, 2306686, 2306687, 2306696
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2306724, 2306725, 2306726, 2306727, 2306728, 2306729, 2306730
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2306684, 2306685, 2306686, 2306687, 2306696
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2306684, 2306685, 2306686, 2306687, 2306696
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2306684, 2306685, 2306686, 2306687, 2306696
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2306688, 2306689, 2306690, 2306691, 2306697

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	02/18/2022			02/18/2022 16:25	Anna M. Plaviak	2306684, 2306685
	02/18/2022			02/18/2022 16:26	Anna M. Plaviak	2306686
	02/18/2022			02/18/2022 16:27	Anna M. Plaviak	2306687
	02/18/2022			02/18/2022 16:28	Anna M. Plaviak	2306696
EPA 180.1 Rev. 2.0	02/18/2022			02/18/2022 14:44	Khloe J Berg	2306696
	02/18/2022			02/18/2022 14:54	Khloe J Berg	2306684
	02/18/2022			02/18/2022 14:58	Khloe J Berg	2306685
	02/18/2022			02/18/2022 14:59	Khloe J Berg	2306686
	02/18/2022			02/18/2022 15:01	Khloe J Berg	2306687
EPA 200.7 Rev. 4.4	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/25/2022 19:54	Josef B Mick	2306724
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/25/2022 20:02	Josef B Mick	2306725
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/25/2022 20:08	Josef B Mick	2306726
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/25/2022 20:16	Josef B Mick	2306727
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/25/2022 20:22	Josef B Mick	2306728
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/25/2022 20:30	Josef B Mick	2306729
EPA 200.8 Rev. 5.4	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/25/2022 21:09	Josef B Mick	2306730
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/23/2022 15:18	Alexander Thompson	2306724
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/23/2022 15:27	Alexander Thompson	2306725
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/23/2022 15:37	Alexander Thompson	2306726
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/23/2022 15:46	Alexander Thompson	2306727
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/23/2022 16:53	Alexander Thompson	2306728
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/23/2022 17:03	Alexander Thompson	2306729
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/23/2022 17:12	Alexander Thompson	2306730
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/24/2022 15:37	Alexander Thompson	2306724
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/24/2022 15:43	Alexander Thompson	2306725
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/24/2022 15:49	Alexander Thompson	2306726
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/24/2022 15:55	Alexander Thompson	2306727
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/24/2022 16:38	Alexander Thompson	2306728
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/24/2022 16:44	Alexander Thompson	2306729
	02/18/2022	02/22/2022 09:24	Megan Whitefoot	02/24/2022 16:50	Alexander Thompson	2306730
EPA 300.0 Rev. 2.1	02/18/2022			02/23/2022 15:12	Roberta Tatti	2306684
	02/18/2022			02/23/2022 15:24	Roberta Tatti	2306685
	02/18/2022			02/23/2022 15:36	Roberta Tatti	2306686
	02/18/2022			02/23/2022 15:48	Roberta Tatti	2306687
	02/18/2022			02/23/2022 16:00	Roberta Tatti	2306696
EPA 350.1 Rev. 2.0	02/18/2022			03/01/2022 13:05	Ping Hua	2306688
	02/18/2022			03/01/2022 13:07	Ping Hua	2306690
	02/18/2022			03/01/2022 13:08	Ping Hua	2306691
	02/18/2022			03/01/2022 13:09	Ping Hua	2306697
	02/18/2022			03/02/2022 09:58	Ping Hua	2306689

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 351.2 Rev. 2.0	02/18/2022	02/22/2022 13:18	Samantha L Bates	02/24/2022 14:46	Alexandra J Mattheus	2306690
	02/18/2022	02/22/2022 13:18	Samantha L Bates	02/24/2022 14:47	Alexandra J Mattheus	2306697
	02/18/2022	02/22/2022 13:18	Samantha L Bates	02/24/2022 16:13	Alexandra J Mattheus	2306688
	02/18/2022	03/03/2022 12:56	Samantha L Bates	03/04/2022 15:30	Alexandra J Mattheus	2306691
	02/18/2022	03/03/2022 12:56	Samantha L Bates	03/04/2022 15:32	Alexandra J Mattheus	2306689
EPA 353.2 Rev. 2.0	02/18/2022			02/28/2022 11:00	Beverly Y. Sanders	2306688
	02/18/2022			02/28/2022 11:13	Beverly Y. Sanders	2306689
	02/18/2022			02/28/2022 11:14	Beverly Y. Sanders	2306690
	02/18/2022			02/28/2022 11:16	Beverly Y. Sanders	2306691
	02/18/2022			02/28/2022 11:17	Beverly Y. Sanders	2306697
EPA 365.1 Rev. 2.0	02/18/2022	02/22/2022 16:05	Simonne.V. Calhoun	02/23/2022 12:24	Shengyu Ding	2306690
	02/18/2022	02/22/2022 16:05	Simonne.V. Calhoun	02/23/2022 12:26	Shengyu Ding	2306697
	02/18/2022	02/22/2022 16:05	Simonne.V. Calhoun	02/23/2022 14:13	Sarah A Nixon	2306688
	02/18/2022	02/22/2022 16:05	Simonne.V. Calhoun	02/23/2022 14:14	Sarah A Nixon	2306689
	02/18/2022	02/22/2022 16:05	Simonne.V. Calhoun	02/23/2022 14:15	Sarah A Nixon	2306691
EPA 365.1 Rev. 2.0 dissolved	02/18/2022			02/18/2022 14:31	James L Waggeberby	2306692
	02/18/2022			02/18/2022 14:32	James L Waggeberby	2306693
	02/18/2022			02/18/2022 14:33	James L Waggeberby	2306694
	02/18/2022			02/18/2022 14:34	James L Waggeberby	2306695, 2306698
EPA 8270E	02/18/2022	02/21/2022 08:30	Rasheda Ghaffari	02/22/2022 19:12	Michael Poppell	2306723
	02/18/2022	02/24/2022 08:00	Fe-Val Siddell	03/03/2022 00:00	Vandana T. Nagar	2306722
	02/18/2022	02/24/2022 08:00	Fe-Val Siddell	03/09/2022 00:32	Vandana T. Nagar	2306722
EPA 8276	02/18/2022	02/24/2022 08:00	Fe-Val Siddell	02/26/2022 09:01	Arthur Maknenko	2306722
EPA 8321B	02/18/2022	02/18/2022 13:00	June Rhew	02/22/2022 00:21	Juyoung Kim	2306713
	02/18/2022	02/18/2022 13:00	Umesh Chiluwal	02/18/2022 14:02	Manjita Shrestha	2306714
	02/18/2022	02/18/2022 13:00	Umesh Chiluwal	02/18/2022 14:13	Manjita Shrestha	2306715
	02/18/2022	02/18/2022 13:00	Umesh Chiluwal	02/20/2022 02:24	Umesh Chiluwal	2306714
	02/18/2022	02/18/2022 13:00	Umesh Chiluwal	02/20/2022 02:39	Umesh Chiluwal	2306715
	02/18/2022	02/21/2022 10:00	June Rhew	02/23/2022 06:04	Juyoung Kim	2306714
	02/18/2022	02/21/2022 10:00	June Rhew	02/23/2022 06:38	Juyoung Kim	2306715
	02/18/2022			02/22/2022 03:57	Dale L. Simmons	2306684
SM 2320 B-2011	02/18/2022			02/22/2022 04:03	Dale L. Simmons	2306685
	02/18/2022			02/22/2022 04:15	Dale L. Simmons	2306686
	02/18/2022			02/22/2022 04:21	Dale L. Simmons	2306687
	02/18/2022			02/22/2022 04:34	Dale L. Simmons	2306696
	02/18/2022			02/25/2022 19:54	Josef B Mick	2306724
SM 2340B	02/18/2022			02/25/2022 20:02	Josef B Mick	2306725
	02/18/2022			02/25/2022 20:08	Josef B Mick	2306726
	02/18/2022			02/25/2022 20:16	Josef B Mick	2306727
	02/18/2022			02/25/2022 20:22	Josef B Mick	2306728

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2340B	02/18/2022			02/25/2022 20:30	Josef B Mick	2306729
	02/18/2022			02/25/2022 21:09	Josef B Mick	2306730
SM 2540 C-2011	02/18/2022			02/23/2022 15:49	Yijie Li	2306684, 2306685, 2306686, 2306687, 2306696
SM 2540 D-2011	02/18/2022			02/23/2022 15:49	Yijie Li	2306684, 2306685, 2306686, 2306687, 2306696
SM 4500 F-C-2011	02/18/2022			02/22/2022 03:57	Dale L. Simmons	2306684
	02/18/2022			02/22/2022 04:03	Dale L. Simmons	2306685
	02/18/2022			02/22/2022 04:15	Dale L. Simmons	2306686
	02/18/2022			02/22/2022 04:21	Dale L. Simmons	2306687
	02/18/2022			02/22/2022 04:34	Dale L. Simmons	2306696
SM 5310 B-2011	02/18/2022			02/28/2022 08:22	Touraj Touran	2306690
	02/18/2022			02/28/2022 09:04	Touraj Touran	2306691
	02/18/2022			02/28/2022 09:18	Touraj Touran	2306697
	02/18/2022			02/28/2022 13:22	Touraj Touran	2306688
	02/18/2022			03/01/2022 19:30	Khloe J Berg	2306689