

Chemical Analysis Report

SW-DIST-2022-05-25-01

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

Event Description: **LVI's x2**
Request ID: **RQ-2022-05-23-15**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 17-JUN-2022 11:44



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: Little Lake Agnes @ Center

Collection Date/Time: 05/24/2022 11:20

Field ID: G4SW0115

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2329976	DEP SOP: NU-094-1	Color (true)**	18		PCU	P414374	
	EPA 180.1 Rev. 2.0	Turbidity	0.70	I	NTU	P414378	
	EPA 300.0 Rev. 2.1	Chloride	9.9	A	mg Cl/L	P414633	
		Sulfate	4.8	A	mg SO4/L	P414636	
	SM 2320 B-2011	Total Alkalinity	41		mg CaCO3/L	P414539	
	SM 2540 C-2011	TDS	75		mg/L	P414670	
	SM 2540 D-2011	TSS	2	I	mg/L	P414674	
	SM 4500-F- C-2011	Fluoride	0.14	J	mg F/L	P415142	LCS
2329978	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P415217	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.58		mg N/L	P414564	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P414642	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P414411	
	SM 5310 B-2011	Organic Carbon	8.8		mg C/L	P414517	
2329980	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P414425	
2329984	EPA 8321B	Aldicarb	0.020	U	ug/L	P414473	
		Aldicarb Sulfone	0.0020	U	ug/L	P414473	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P414473	
		Carbaryl	0.0020	U	ug/L	P414473	
		Carbofuran	0.0020	U	ug/L	P414473	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P414473	
		Methiocarb	0.0020	U	ug/L	P414473	
		Methomyl	0.0020	U	ug/L	P414473	
		Oxamyl	0.0020	U	ug/L	P414473	
		Propoxur	0.0020	U	ug/L	P414473	
2329986		2,4-D	0.0020	U	ug/L	P414365	
		Acesulfame K	0.10	U	ug/L	P414387	
		2,4,5-T	0.0040	U	ug/L	P414365	
		AMPA	0.10	U	ug/L	P414387	
		Acetaminophen	0.0080	U	ug/L	P414365	
		Acetamiprid	0.0020	U	ug/L	P414365	
		Endothall	0.25	U	ug/L	P414387	
		Glufosinate	0.10	U	ug/L	P414387	
		Glyphosate	0.10	U	ug/L	P414387	
		Afidopyropen	0.0020	U	ug/L	P414365	
		Bentazon	8.0E-04	U	ug/L	P414365	
		Sucralose	0.061		ug/L	P414387	
		Benzovindiflupyr	0.0020	U	ug/L	P414365	
		Carbamazepine	8.0E-04	U	ug/L	P414365	
		Clothianidin	0.0020	U	ug/L	P414365	
		Dinotefuran	0.0020	U	ug/L	P414365	
		Diuron	0.0020	U	ug/L	P414365	
		Fenuron	0.032	U	ug/L	P414365	
		Fluridone	0.0046		ug/L	P414365	

Field ID: G4SW0115

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2329986	EPA 8321B	Imazapyr	0.0040	U	ug/L	P414365	
		Hydrocodone	0.0020	U	ug/L	P414365	
		Ibuprofen	0.020	U	ug/L	P414365	
		Imidacloprid	0.0020	U	ug/L	P414365	
		Linuron	0.0040	U	ug/L	P414365	
		Mandestrobin	0.0020	U	ug/L	P414365	
		MCPP	0.0040	U	ug/L	P414365	
		Naproxen	0.0080	U	ug/L	P414365	
		Primidone	0.0040	U	ug/L	P414365	
		Pyraclostrobin	0.0020	U	ug/L	P414365	
		Silvex	0.0040	U	ug/L	P414365	
		Thiamethoxam	0.0020	U	ug/L	P414365	
		Tolfenpyrad	0.0020	U	ug/L	P414365	
		Triclopyr	0.0040	U	ug/L	P414365	
2329988	EPA 8270E	Aldrin	0.74	U	ng/L	P414484	
		Alpha-BHC	0.11	U	ng/L	P414484	
		Alpha-Chlordane	0.23	U	ng/L	P414484	
		PCB-1016	2.3	U	ng/L	P414484	
		Beta-BHC	0.11	U	ng/L	P414484	
		PCB-1221	2.3	U	ng/L	P414484	
		Beta-Cyfluthrin**	1.4	U	ng/L	P414484	
		PCB-1232	2.3	U	ng/L	P414484	
		Bifenthrin**	0.57	U	ng/L	P414484	
		PCB-1242	2.3	U	ng/L	P414484	
		PCB-1248	2.3	U	ng/L	P414484	
		Chlorothalonil	1.4	U	ng/L	P414484	
		PCB-1254	2.3	U	ng/L	P414484	
		Cis-Nonachlor**	0.23	U	ng/L	P414484	
		PCB-1260	2.3	U	ng/L	P414484	
		Cypermethrin	1.7	U	ng/L	P414484	
		Dacthal**	0.17	U	ng/L	P414484	
		DDD-p,p'	0.28	U	ng/L	P414484	
		DDE-p,p'	0.23	U	ng/L	P414484	
		DDT-p,p'	0.28	U	ng/L	P414484	
		Delta-BHC	0.45	U	ng/L	P414484	
		Deltamethrin**	1.4	U	ng/L	P414484	
		Dichlobenil**	0.28	U	ng/L	P414484	
		Dicofol	1.4	UJ	ng/L	P414484	LCS, MS
		Dieldrin	0.45	U	ng/L	P414484	
		Endosulfan I	0.45	U	ng/L	P414484	
		Endosulfan II	0.45	U	ng/L	P414484	
		Endosulfan Sulfate	0.34	U	ng/L	P414484	
		Endrin	0.45	U	ng/L	P414484	
		Endrin Aldehyde	0.85	U	ng/L	P414484	
		Endrin Ketone	0.45	U	ng/L	P414484	

Field ID: G4SW0115

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2329988	EPA 8270E	Esfenvalerate**	0.85	U	ng/L	P414484	
		Ethalfuralin**	0.17	U	ng/L	P414484	
		Fenpropathrin**	0.28	U	ng/L	P414484	
		Gamma-BHC	0.14	U	ng/L	P414484	
		Gamma-Chlordane	0.23	U	ng/L	P414484	
		Heptachlor	0.23	U	ng/L	P414484	
		Heptachlor Epoxide	0.28	U	ng/L	P414484	
		Hexachlorobenzene**	1.1	U	ng/L	P414484	
		Kepone**	5.7	U	ng/L	P414484	
		Lambda-Cyhalothrin**	0.85	U	ng/L	P414484	
		Methoprene**	0.85	U	ng/L	P414484	
		Methoxychlor	0.34	U	ng/L	P414484	
		MGK-264**	0.35	I	ng/L	P414484	
		Mirex	0.80	U	ng/L	P414484	
		Oxychlordane**	0.34	U	ng/L	P414484	
		Permethrin	1.8	U	ng/L	P414484	
		Phenothrin**	1.0	U	ng/L	P414484	
		Piperonyl Butoxide**	0.85		ng/L	P414484	
		Prallethrin**	2.3	U	ng/L	P414484	
		Tau-Fluvalinate**	0.28	U	ng/L	P414484	
		Tetramethrin**	0.85	U	ng/L	P414484	
		Trans-Nonachlor**	0.23	U	ng/L	P414484	
		Triclosan Methyl**	0.17	U	ng/L	P414484	
		Trifluralin	0.23	U	ng/L	P414484	
	EPA 8276	Chlordane	2.8	U	ng/L	P414484	
		Toxaphene	17	U	ng/L	P414484	
		Oxybenzone**	11	U	ng/L	P414288	MS, RPD
2329990	EPA 8270E	Acetochlor	0.26	U	ng/L	P414288	
		Octinoxate**	21	U	ng/L	P414288	
		Alachlor	0.26	U	ng/L	P414288	
		Avobenzone**	110	U	ng/L	P414288	
		Ametryn	0.64	U	ng/L	P414288	
		Atrazine	4.4		ng/L	P414288	
		Atrazine Desethyl	1.8	I	ng/L	P414288	
		Azinphos Methyl	2.1	U	ng/L	P414288	
		Azoxystrobin**	0.53	U	ng/L	P414288	
		Bromacil	0.53	U	ng/L	P414288	
		Butylate	0.42	U	ng/L	P414288	
		Caffeine**	7.9	U	ng/L	P414288	
		Carbophenothion	2.6	U	ng/L	P414288	
		Carfentrazone Ethyl**	0.11	U	ng/L	P414288	
		Chlorfenapyr**	0.19	U	ng/L	P414288	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P414288	
		Chlorpyrifos Methyl	0.053	U	ng/L	P414288	
		Coumaphos**	0.53	U	ng/L	P414288	

Field ID: G4SW0115

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2329990	EPA 8270E	Cyanazine	3.4	U	ng/L	P414288	
		Cyprodinil**	0.11	U	ng/L	P414288	
		Demeton	1.6	U	ng/L	P414288	
		Diazinon	0.13	U	ng/L	P414288	
		Difenoconazole**	0.64	U	ng/L	P414288	
		Dimethenamid**	0.11	UJ	ng/L	P414288	LCS
		Dimethomorph**	0.19	U	ng/L	P414288	MS, RPD
		Disulfoton	0.53	U	ng/L	P414288	
		Dithiopyr**	0.19	U	ng/L	P414288	
		EPTC	1.3	U	ng/L	P414288	
		Ethion	0.16	U	ng/L	P414288	
		Ethoprop	0.11	U	ng/L	P414288	
		Etridiazole**	0.16	U	ng/L	P414288	
		Fenamiphos	0.53	U	ng/L	P414288	
		Fenbuconazole**	0.13	U	ng/L	P414288	
		Fipronil	0.26	U	ng/L	P414288	
		Fipronil Desulfinyl**	0.13	U	ng/L	P414288	
		Fipronil Sulfide	0.16	U	ng/L	P414288	
		Fipronil Sulfone	0.16	U	ng/L	P414288	
		Fluazifop-P-butyl**	0.11	U	ng/L	P414288	
		Fludioxonil**	0.13	U	ng/L	P414288	
		Flumioxazin**	1.9	U	ng/L	P414288	
		Flutolanil**	0.11	U	ng/L	P414288	
		Fluxapyroxad**	0.11	U	ng/L	P414288	
		Fonofos	0.21	U	ng/L	P414288	
		Hexazinone	0.53	U	ng/L	P414288	
		Imazalil**	0.79	U	ng/L	P414288	
		Iprodione**	0.64	U	ng/L	P414288	
		Loratadine**	0.11	U	ng/L	P414288	
		Malathion	0.37	U	ng/L	P414288	
		Metalaxyl	0.79	U	ng/L	P414288	
		Metolachlor	0.37	U	ng/L	P414288	
		Metribuzin	2.6	U	ng/L	P414288	
		Mevinphos	1.1	U	ng/L	P414288	
		Molinate	0.32	U	ng/L	P414288	
		Myclobutanil**	0.26	U	ng/L	P414288	
		Naled**	1.6	U	ng/L	P414288	
		Napropamide**	0.42	UJ	ng/L	P414288	LCS
		Norflurazon	0.53	U	ng/L	P414288	
		Oxadiazon	0.32	U	ng/L	P414288	
		Oxyfluorfen**	0.16	U	ng/L	P414288	
		Parathion Ethyl	0.26	U	ng/L	P414288	
		Parathion Methyl	0.58	U	ng/L	P414288	
		Pendimethalin	1.1	U	ng/L	P414288	
		Phenytol**	3.7	U	ng/L	P414288	

Field ID: G4SW0115

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2329990	EPA 8270E	Phorate	0.56	U	ng/L	P414288	
		Prodiamine**	0.32	U	ng/L	P414288	
		Prometon	0.95	U	ng/L	P414288	
		Prometryn	0.21	U	ng/L	P414288	
		Pronamide**	0.16	U	ng/L	P414288	
		Propanil**	0.13	U	ng/L	P414288	
		Propargite**	1.6	U	ng/L	P414288	
		Propiconazole**	0.53	U	ng/L	P414288	
		Pyraflufen Ethyl**	0.26	U	ng/L	P414288	
		Pyridaben**	0.48	U	ng/L	P414288	
		Pyriproxyfen**	0.13	U	ng/L	P414288	
		Simazine	0.53	U	ng/L	P414288	
		Stirophos**	0.13	U	ng/L	P414288	
		Sulfentrazone**	0.53	U	ng/L	P414288	
		Tebuconazole**	0.53	U	ng/L	P414288	
		Terbufos	0.11	U	ng/L	P414288	
		Terbutylazine	0.45	U	ng/L	P414288	
		Thiobencarb**	0.64	U	ng/L	P414288	
		Triadimefon**	0.26	U	ng/L	P414288	
2329997	EPA 200.7 Rev. 4.4	Calcium	14.4		mg/L	P414396	
		Iron	30	U	ug/L	P414396	
		Magnesium	4.29		mg/L	P414396	
		Potassium	2.9		mg/L	P414396	
		Sodium	6.1		mg/L	P414396	
		Strontium	38.5		ug/L	P414396	
		Tin	3.0	U	ug/L	P414396	
		Titanium	0.75	U	ug/L	P414396	
		Vanadium	2.0	U	ug/L	P414396	
		Zinc	5.0	U	ug/L	P414396	
	EPA 200.8 Rev. 5.4	Aluminum	11	I	ug/L	P414396	
		Antimony	0.050	U	ug/L	P414396	
		Arsenic	0.52		ug/L	P414396	
		Barium	10.0		ug/L	P414396	
		Beryllium	0.010	U	ug/L	P414396	
		Boron**	39.7		ug/L	P414396	
		Cadmium	0.020	U	ug/L	P414396	
		Chromium	0.40	U	ug/L	P414396	
		Cobalt	0.020	U	ug/L	P414396	
		Copper	0.61	I	ug/L	P414396	
		Lead	0.20	U	ug/L	P414396	
		Manganese	3.29		ug/L	P414396	
		Molybdenum	0.15	U	ug/L	P414396	
		Nickel	0.50	U	ug/L	P414396	
		Selenium	0.20	U	ug/L	P414396	
		Silver	0.010	U	ug/L	P414396	

Field ID: G4SW0115

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2329997	EPA 200.8 Rev. 5.4	Thallium	0.10	U	ug/L	P414396	
	SM 2340 B-2011	Hardness	53.6		mg/L	P414396	

Ref. Method and Comment:
SM 4500-F- C-2011: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Lake Crago @ Center

Collection Date/Time: 05/24/2022 14:30

Field ID: G3SW0112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2329977	DEP SOP: NU-094-1	Color (true)**	20	A	PCU	P414374	
	EPA 180.1 Rev. 2.0	Turbidity	5.0		NTU	P414378	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P414633	
		Sulfate	4.6		mg SO4/L	P414636	
	SM 2320 B-2011	Total Alkalinity	67		mg CaCO3/L	P414539	
	SM 2540 C-2011	TDS	117		mg/L	P414670	
	SM 2540 D-2011	TSS	6	I	mg/L	P414674	
	SM 4500-F- C-2011	Fluoride	0.23	J	mg F/L	P415142	LCS
2329979	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P415217	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P414619	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P414642	
	EPA 365.1 Rev. 2.0	Total-P	0.065		mg P/L	P414412	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P414515	
2329981	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P414425	
2329985	EPA 8321B	Aldicarb	0.020	U	ug/L	P414473	
		Aldicarb Sulfone	0.0020	U	ug/L	P414473	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P414473	
		Carbaryl	0.0020	U	ug/L	P414473	
		Carbofuran	0.0020	U	ug/L	P414473	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P414473	
		Methiocarb	0.0020	U	ug/L	P414473	
		Methomyl	0.0020	U	ug/L	P414473	
		Oxamyl	0.0020	U	ug/L	P414473	
		Propoxur	0.0020	U	ug/L	P414473	
2329987		2,4-D	0.42		ug/L	P414365	
		Acesulfame K	0.13	I	ug/L	P414387	
		2,4,5-T	0.0040	U	ug/L	P414365	
		AMPA	0.10	U	ug/L	P414387	
		Acetaminophen	0.0080	U	ug/L	P414365	
		Acetamiprid	0.0020	U	ug/L	P414365	
		Endothall	0.25	U	ug/L	P414387	
		Glufosinate	0.10	U	ug/L	P414387	
		Glyphosate	0.22	I	ug/L	P414387	
		Afidopyropen	0.0020	U	ug/L	P414365	
		Bentazon	0.011		ug/L	P414365	
		Sucralose	0.54		ug/L	P414387	
		Benzovindiflupyr	0.0020	U	ug/L	P414365	
		Carbamazepine	8.1E-04	I	ug/L	P414365	
		Clothianidin	0.0020	U	ug/L	P414365	
		Dinotefuran	0.0020	U	ug/L	P414365	
		Diuron	0.0020	U	ug/L	P414365	
		Fenuron	0.032	U	ug/L	P414365	
		Fluridone	0.0031	I	ug/L	P414365	

Field ID: G3SW0112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2329987	EPA 8321B	Imazapyr	0.020		ug/L	P414365	
		Hydrocodone	0.0020	U	ug/L	P414365	
		Ibuprofen	0.020	U	ug/L	P414365	
		Imidacloprid	0.0020	U	ug/L	P414365	
		Linuron	0.0040	U	ug/L	P414365	
		Mandestrobin	0.0020	U	ug/L	P414365	
		MCPP	0.0040	U	ug/L	P414365	
		Naproxen	0.0080	U	ug/L	P414365	
		Primidone	0.0040	U	ug/L	P414365	
		Pyraclostrobin	0.0020	U	ug/L	P414365	
		Silvex	0.0040	U	ug/L	P414365	
		Thiamethoxam	0.0020	U	ug/L	P414365	
		Tolfenpyrad	0.0020	U	ug/L	P414365	
		Triclopyr	0.0040	U	ug/L	P414365	
2329989	EPA 8270E	Aldrin	0.73	U	ng/L	P414484	
		Alpha-BHC	0.11	U	ng/L	P414484	
		Alpha-Chlordane	0.22	U	ng/L	P414484	
		PCB-1016	2.2	U	ng/L	P414484	
		Beta-BHC	0.11	U	ng/L	P414484	
		PCB-1221	2.2	U	ng/L	P414484	
		Beta-Cyfluthrin**	1.4	U	ng/L	P414484	
		PCB-1232	2.2	U	ng/L	P414484	
		Bifenthrin**	0.56	U	ng/L	P414484	
		PCB-1242	2.2	U	ng/L	P414484	
		PCB-1248	2.2	U	ng/L	P414484	
		Chlorothalonil	1.4	U	ng/L	P414484	
		PCB-1254	2.2	U	ng/L	P414484	
		Cis-Nonachlor**	0.22	U	ng/L	P414484	
		PCB-1260	2.2	U	ng/L	P414484	
		Cypermethrin	1.7	U	ng/L	P414484	
		Dacthal**	0.17	U	ng/L	P414484	
		DDD-p,p'	0.28	U	ng/L	P414484	
		DDE-p,p'	0.22	U	ng/L	P414484	
		DDT-p,p'	0.28	U	ng/L	P414484	
		Delta-BHC	0.45	U	ng/L	P414484	
		Deltamethrin**	1.4	U	ng/L	P414484	
		Dichlobenil**	0.28	U	ng/L	P414484	
		Dicofol	1.4	UJ	ng/L	P414484	LCS, MS
		Dieldrin	0.45	U	ng/L	P414484	
		Endosulfan I	0.45	U	ng/L	P414484	
		Endosulfan II	0.45	U	ng/L	P414484	
		Endosulfan Sulfate	0.34	U	ng/L	P414484	
		Endrin	0.45	U	ng/L	P414484	
		Endrin Aldehyde	0.84	U	ng/L	P414484	
		Endrin Ketone	0.45	U	ng/L	P414484	

Field ID: G3SW0112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2329989	EPA 8270E	Esfenvalerate**	0.84	U	ng/L	P414484	
		Ethalfuralin**	0.17	U	ng/L	P414484	
		Fenpropathrin**	0.28	U	ng/L	P414484	
		Gamma-BHC	0.14	U	ng/L	P414484	
		Gamma-Chlordane	0.22	U	ng/L	P414484	
		Heptachlor	0.22	U	ng/L	P414484	
		Heptachlor Epoxide	0.28	U	ng/L	P414484	
		Hexachlorobenzene**	1.1	U	ng/L	P414484	
		Kepone**	5.6	U	ng/L	P414484	
		Lambda-Cyhalothrin**	0.84	U	ng/L	P414484	
		Methoprene**	0.84	U	ng/L	P414484	
		Methoxychlor	0.34	U	ng/L	P414484	
		MGK-264**	0.22	U	ng/L	P414484	
		Mirex	0.79	U	ng/L	P414484	
		Oxychlordane**	0.34	U	ng/L	P414484	
		Permethrin	1.8	U	ng/L	P414484	
		Phenothrin**	1.0	U	ng/L	P414484	
		Piperonyl Butoxide**	0.18	I	ng/L	P414484	
		Prallethrin**	2.2	U	ng/L	P414484	
		Tau-Fluvalinate**	0.28	U	ng/L	P414484	
		Tetramethrin**	0.84	U	ng/L	P414484	
		Trans-Nonachlor**	0.22	U	ng/L	P414484	
		Triclosan Methyl**	0.17	U	ng/L	P414484	
		Trifluralin	0.22	U	ng/L	P414484	
	EPA 8276	Chlordane	2.8	U	ng/L	P414484	
		Toxaphene	17	U	ng/L	P414484	
		Oxybenzone**	10	U	ng/L	P414288	MS, RPD
2329991	EPA 8270E	Acetochlor	0.26	U	ng/L	P414288	
		Octinoxate**	21	U	ng/L	P414288	
		Alachlor	0.26	U	ng/L	P414288	
		Avobenzone**	100	U	ng/L	P414288	
		Ametryn	0.62	U	ng/L	P414288	
		Atrazine	13		ng/L	P414288	
		Atrazine Desethyl	4.0	I	ng/L	P414288	
		Azinphos Methyl	2.1	U	ng/L	P414288	
		Azoxystrobin**	0.52	U	ng/L	P414288	
		Bromacil	0.52	U	ng/L	P414288	
		Butylate	0.42	U	ng/L	P414288	
		Caffeine**	9.4	I	ng/L	P414288	
		Carbophenothion	2.6	U	ng/L	P414288	
		Carfentrazone Ethyl**	0.10	U	ng/L	P414288	
		Chlorfenapyr**	0.18	U	ng/L	P414288	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P414288	
		Chlorpyrifos Methyl	0.052	U	ng/L	P414288	
		Coumaphos**	0.52	U	ng/L	P414288	

Field ID: G3SW0112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2329991	EPA 8270E	Cyanazine	3.4	U	ng/L	P414288	
		Cyprodinil**	0.10	U	ng/L	P414288	
		Demeton	1.6	U	ng/L	P414288	
		Diazinon	0.13	U	ng/L	P414288	
		Difenoconazole**	0.62	U	ng/L	P414288	
		Dimethenamid**	0.10	UJ	ng/L	P414288	LCS
		Dimethomorph**	0.18	U	ng/L	P414288	MS, RPD
		Disulfoton	0.52	U	ng/L	P414288	
		Dithiopyr**	0.18	U	ng/L	P414288	
		EPTC	1.3	U	ng/L	P414288	
		Ethion	0.16	U	ng/L	P414288	
		Ethoprop	0.10	U	ng/L	P414288	
		Etridiazole**	0.16	U	ng/L	P414288	
		Fenamiphos	0.52	U	ng/L	P414288	
		Fenbuconazole**	0.13	U	ng/L	P414288	
		Fipronil	0.26	U	ng/L	P414288	
		Fipronil Desulfinyll**	0.14	I	ng/L	P414288	
		Fipronil Sulfide	0.16	U	ng/L	P414288	
		Fipronil Sulfone	0.16	U	ng/L	P414288	
		Fluazifop-P-butyl**	0.10	U	ng/L	P414288	
		Fludioxonil**	0.13	U	ng/L	P414288	
		Flumioxazin**	1.8	U	ng/L	P414288	
		Flutolanil**	0.10	U	ng/L	P414288	
		Fluxapyroxad**	0.10	U	ng/L	P414288	
		Fonofos	0.21	U	ng/L	P414288	
		Hexazinone	0.52	U	ng/L	P414288	
		Imazalil**	0.78	U	ng/L	P414288	
		Iprodione**	0.62	U	ng/L	P414288	
		Loratadine**	0.10	U	ng/L	P414288	
		Malathion	0.36	U	ng/L	P414288	
		Metalaxyl	0.78	U	ng/L	P414288	
		Metolachlor	0.36	U	ng/L	P414288	
		Metribuzin	2.6	U	ng/L	P414288	
		Mevinphos	1.1	U	ng/L	P414288	
		Molinate	0.31	U	ng/L	P414288	
		Myclobutanil**	0.26	U	ng/L	P414288	
		Naled**	1.6	U	ng/L	P414288	
		Napropamide**	0.42	UJ	ng/L	P414288	LCS
		Norflurazon	0.52	U	ng/L	P414288	
		Oxadiazon	0.31	U	ng/L	P414288	
		Oxyfluorfen**	0.16	U	ng/L	P414288	
		Parathion Ethyl	0.26	U	ng/L	P414288	
		Parathion Methyl	0.57	U	ng/L	P414288	
		Pendimethalin	1.0	U	ng/L	P414288	
		Phenytol**	3.6	U	ng/L	P414288	

Field ID: G3SW0112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2329991	EPA 8270E	Phorate	0.55	U	ng/L	P414288	
		Prodiamine**	0.31	U	ng/L	P414288	
		Prometon	0.94	U	ng/L	P414288	
		Prometryn	0.21	U	ng/L	P414288	
		Pronamide**	0.16	U	ng/L	P414288	
		Propanil**	0.13	U	ng/L	P414288	
		Propargite**	1.6	U	ng/L	P414288	
		Propiconazole**	1.1	I	ng/L	P414288	
		Pyraflufen Ethyl**	0.26	U	ng/L	P414288	
		Pyridaben**	0.47	U	ng/L	P414288	
		Pyriproxyfen**	0.13	U	ng/L	P414288	
		Simazine	0.52	U	ng/L	P414288	
		Stirophos**	0.13	U	ng/L	P414288	
		Sulfentrazone**	0.52	U	ng/L	P414288	
		Tebuconazole**	0.52	U	ng/L	P414288	
		Terbufos	0.10	U	ng/L	P414288	
		Terbutylazine	0.44	U	ng/L	P414288	
		Thiobencarb**	0.62	U	ng/L	P414288	
		Triadimefon**	0.26	U	ng/L	P414288	
2329998	EPA 200.7 Rev. 4.4	Calcium	28.9		mg/L	P414396	
		Iron	30	U	ug/L	P414396	
		Magnesium	3.38		mg/L	P414396	
		Potassium	2.0		mg/L	P414396	
		Sodium	11.1		mg/L	P414396	
		Strontium	53.0		ug/L	P414396	
		Tin	3.0	U	ug/L	P414396	
		Titanium	0.75	U	ug/L	P414396	
		Vanadium	2.0	U	ug/L	P414396	
		Zinc	5.0	U	ug/L	P414396	
	EPA 200.8 Rev. 5.4	Aluminum	68		ug/L	P414396	
		Antimony	0.12	I	ug/L	P414396	
		Arsenic	1.20		ug/L	P414396	
		Barium	2.25		ug/L	P414396	
		Beryllium	0.010	U	ug/L	P414396	
		Boron**	34.9		ug/L	P414396	
		Cadmium	0.020	U	ug/L	P414396	
		Chromium	0.40	U	ug/L	P414396	
		Cobalt	0.032	I	ug/L	P414396	
		Copper	0.40	U	ug/L	P414396	
		Lead	0.20	U	ug/L	P414396	
		Manganese	4.07		ug/L	P414396	
		Molybdenum	0.92		ug/L	P414396	
		Nickel	0.50	U	ug/L	P414396	
		Selenium	0.20	U	ug/L	P414396	
		Silver	0.010	U	ug/L	P414396	

Field ID: G3SW0112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2329998	EPA 200.8 Rev. 5.4	Thallium	0.10	U	ug/L	P414396	
	SM 2340 B-2011	Hardness	86.1		mg/L	P414396	

Ref. Method and Comment:
SM 4500-F- C-2011: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P414374

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414378

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P414396

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414396

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: P414633

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414636

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415217

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414564

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414619

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414642

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414411

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414412

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414425

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

Reference Method: EPA 8270E
Batch ID: P414288

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414288

Component	Result	Code	Units
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
Avobenzone	100	U	ng/L
Avobenzone	100	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	2.5	U	ng/L
Carbophenothion	2.5	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414288

Component	Result	Code	Units
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
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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414288

Component	Result	Code	Units
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	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
Prodiatone	0.30	U	ng/L
Prodiatone	0.30	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414288

Component	Result	Code	Units
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: P414484

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414484

Component	Result	Code	Units
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
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414484

Component	Result	Code	Units
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P414484

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: P414365

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P414365

Component	Result	Code	Units
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P414387

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: P414473

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: SM 2320 B-2011

Batch ID: P414539

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

Reference Method: SM 2540 C-2011

Batch ID: P414670

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P414674

Component	Result	Code	Units
TSS	2	U	mg/L

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Reference Method: SM 4500-F- C-2011
Batch ID: P415142

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P414515

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

Reference Method: SM 5310 B-2011
Batch ID: P414517

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: P414374

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414378

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P414396

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	107		P	85 - 115
Magnesium	110		P	85 - 115
Potassium	105		P	85 - 115
Sodium	103		P	85 - 115
Strontium	93.9		P	85 - 115
Tin	102		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	95.2		P	85 - 115
Zinc	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414396

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.9		P	85 - 115
Antimony	96.8		P	85 - 115
Arsenic	97.7		P	85 - 115
Barium	99.4		P	85 - 115
Beryllium	95.3		P	85 - 115
Boron	103		P	85 - 115
Cadmium	94.7		P	85 - 115
Chromium	95.7		P	85 - 115
Cobalt	96.9		P	85 - 115
Copper	96.2		P	85 - 115
Lead	97.8		P	85 - 115
Manganese	96.4		P	85 - 115
Molybdenum	96.2		P	85 - 115
Nickel	97.6		P	85 - 115
Selenium	96.7		P	85 - 115
Silver	97.2		P	85 - 115
Thallium	98.7		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414633

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414636

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415217

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414564

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414619

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.7		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414642

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414411

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414412

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414425

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

Reference Method: EPA 8270E
Batch ID: P414288

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	80.9		P	70 - 121
Alachlor	81.7		P	68 - 119
Ametryn	93.2		P	64 - 139
Atrazine	80.7		P	76 - 120

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P414288

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine Desethyl	70.2		P	44 - 126
Avobenzone	97.6		P	76 - 212
Azinphos Methyl	102		P	43 - 192
Azoxystrobin	120		P	36 - 224
Bromacil	65.8		P	52 - 121
Butylate	52.0		P	28 - 91.0
Caffeine	72.0		P	50 - 134
Carbophenothion	74.6		P	56 - 129
Carfentrazone Ethyl	92.2		P	60 - 141
Chlorfenapyr	71.5		P	56 - 115
Chlorpyrifos Ethyl	78.8		P	60 - 118
Chlorpyrifos Methyl	83.3		P	68 - 119
Coumaphos	58.7		P	18 - 250
Cyanazine	73.6		P	61 - 250
Cyprodinil	95.7		P	55 - 145
Demeton	68.5		P	30 - 159
Diazinon	97.6		P	70 - 123
Difenoconazole	168		P	49 - 204
Dimethenamid	59.1		F	64 - 115
Dimethomorph	126		P	12 - 219
Disulfoton	93.4		P	44 - 125
Dithiopyr	75.8		P	64 - 115
EPTC	53.4		P	28 - 86.0
Ethion	57.3		P	33 - 125
Ethoprop	98.2		P	64 - 116
Etridiazole	60.6		P	34 - 91.0
Fenamiphos	62.4		P	12 - 127
Fenbuconazole	76.1		P	59 - 151
Fipronil	82.2		P	67 - 129
Fipronil Desulfinyl	81.5		P	65 - 127
Fipronil Sulfide	76.9		P	61 - 116
Fipronil Sulfone	75.3		P	55 - 117
Fluazifop-P-butyl	89.4		P	62 - 127
Fludioxonil	63.1		P	62 - 128
Flumioxazin	51.0		P	33 - 250
Flutolanil	63.8		P	56 - 127
Fluxapyroxad	119		P	45 - 128
Fonofos	89.8		P	62 - 111
Hexazinone	69.1		P	46 - 139
Imazalil	63.2		P	38 - 142
Iprodione	73.5		P	47 - 135
Loratadine	143		P	10 - 244
Malathion	80.0		P	61 - 139
Metalaxyl	76.4		P	10 - 119
Metolachlor	74.5		P	65 - 118
Metribuzin	106		P	51 - 250
Mevinphos	85.5		P	53 - 121
Molinate	64.8		P	42 - 96.0
Myclobutanil	58.2		P	55 - 128
Naled	82.8		P	10 - 98.0
Napropamide	41.9		F	49 - 121
Norflurazon	64.3		P	61 - 126

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P414288

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Octinoxate	61.6		P	30 - 159
Oxadiazon	70.1		P	59 - 116
Oxybenzone	69.5		P	61 - 139
Oxyfluorfen	73.5		P	64 - 137
Parathion Ethyl	90.9		P	70 - 112
Parathion Methyl	116		P	76 - 133
Pendimethalin	85.8		P	52 - 117
Phenytoin	20.3		P	10 - 199
Phorate	82.0		P	48 - 121
Prodiamine	49.6		P	26 - 142
Prometon	69.1		P	43 - 123
Prometryn	88.5		P	66 - 127
Pronamide	89.1		P	75 - 121
Propanil	84.6		P	45 - 150
Propargite	100		P	42 - 208
Propiconazole	76.0		P	60 - 125
Pyraflufen Ethyl	112		P	70 - 138
Pyridaben	69.2		P	35 - 245
Pyriproxyfen	38.4		P	30 - 149
Simazine	81.5		P	72 - 125
Stirophos	64.3		P	29 - 164
Sulfentrazone	52.8		P	21 - 139
Tebuconazole	20.7		P	10 - 115
Terbufos	115		P	60 - 123
Terbuthylazine	83.3		P	72 - 115
Thiobencarb	72.7		P	31 - 139
Triadimefon	66.5		P	65 - 116

Reference Method: EPA 8270E

Batch ID: P414484

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	55.4		P	10 - 93.0
Alpha-BHC	96.3		P	75 - 106
Alpha-Chlordane	88.4		P	50 - 109
Beta-BHC	104		P	36 - 138
Beta-Cyfluthrin	98.6		P	23 - 167
Bifenthrin	84.1		P	11 - 123
Chlorothalonil	124		P	27 - 190
Cis-Nonachlor	74.8		P	40 - 111
Cypermethrin	97.7		P	25 - 155
Dacthal	96.7		P	72 - 119
DDD-p,p'	80.7		P	47 - 108
DDE-p,p'	83.8		P	48 - 107
DDT-p,p'	83.0		P	49 - 111
Delta-BHC	115		P	54 - 138
Deltamethrin	84.8		P	22 - 189
Dichlobenil	79.7		P	32 - 113
Dicofol	155		F	50 - 108
Dieldrin	85.9		P	56 - 110
Endosulfan I	89.6		P	60 - 105
Endosulfan II	93.7		P	50 - 120

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P414484

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endosulfan Sulfate	94.5		P	55 - 121
Endrin	90.1		P	31 - 119
Endrin Aldehyde	90.1		P	36 - 116
Endrin Ketone	100		P	69 - 177
Esfenvalerate	98.5		P	10 - 179
Ethalfuralin	84.0		P	49 - 99.0
Fenpropathrin	97.3		P	35 - 119
Gamma-BHC	103		P	69 - 120
Gamma-Chlordane	80.4		P	45 - 107
Heptachlor	73.8		P	41 - 100
Heptachlor Epoxide	83.6		P	58 - 106
Hexachlorobenzene	71.1		P	39 - 100
Kepone	186		P	10 - 191
Lambda-Cyhalothrin	88.8		P	21 - 206
Methoprene	75.9		P	10 - 129
Methoxychlor	97.5		P	61 - 111
MGK-264	83.9		P	20 - 123
Mirex	75.3		P	10 - 182
Oxychlordane	77.8		P	39 - 110
PCB-1016	81.1		P	49 - 111
PCB-1260	101		P	42 - 116
Permethrin	95.1		P	26 - 152
Phenothrin	72.6		P	10 - 109
Piperonyl Butoxide	107		P	19 - 147
Prallethrin	78.3		P	14 - 109
Tau-Fluvalinate	94.2		P	16 - 134
Tetramethrin	93.5		P	10 - 125
Trans-Nonachlor	76.8		P	45 - 107
Triclosan Methyl	87.4		P	60 - 110
Trifluralin	84.0		P	44 - 101

Reference Method: EPA 8276

Batch ID: P414484

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	105		P	61 - 118
Toxaphene	98.8		P	51 - 122

Reference Method: EPA 8321B

Batch ID: P414365

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	91.6		P	40 - 150
2,4,5-T	80.7		P	40 - 150
Acetaminophen	66.4		P	30 - 150
Acetamiprid	90.5		P	40 - 150
Afidopyropen	68.7		P	30 - 150
Bentazon	117		P	30 - 150
Benzovindiflupyr	86.7		P	40 - 150
Carbamazepine	105		P	40 - 150
Clothianidin	100		P	40 - 150
Dinotefuran	102		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P414365

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Diuron	87.8		P	40 - 150
Fenuron	99.1		P	40 - 150
Fluridone	82.0		P	40 - 150
Hydrocodone	91.2		P	40 - 150
Ibuprofen	70.2		P	40 - 150
Imazapyr	101		P	40 - 150
Imidacloprid	94.6		P	40 - 150
Linuron	71.9		P	40 - 150
Mandestrobin	84.6		P	40 - 150
MCPP	126		P	40 - 150
Naproxen	81.6		P	40 - 150
Primidone	97.3		P	40 - 150
Pyraclostrobin	94.8		P	40 - 150
Silvex	74.0		P	40 - 150
Thiamethoxam	97.6		P	40 - 150
Tolfenpyrad	50.9		P	30 - 150
Triclopyr	87.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P414387

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	139		P	40 - 150
AMPA	102		P	40 - 150
Endothall	96.3		P	40 - 150
Glufosinate	96.6		P	40 - 150
Glyphosate	94.5		P	40 - 150
Sucralose	101		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P414473

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	95.5		P	40 - 150
Aldicarb	84.3		P	30 - 150
Aldicarb Sulfone	99.9		P	40 - 150
Aldicarb Sulfoxide	97.2		P	40 - 150
Carbaryl	76.9		P	40 - 150
Carbofuran	88.5		P	40 - 150
Methiocarb	70.2		P	40 - 150
Methomyl	93.7		P	40 - 150
Oxamyl	100		P	40 - 150
Propoxur	91.8		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P414539

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	94.5		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P415142

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	93.8		F	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P414515

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.4		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P414517

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P414396

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329260	Calcium	103		P	80 - 120
2329260	Iron	108	108	P/P	80 - 120
2329260	Magnesium	111	109	P/P	80 - 120
2329260	Potassium	102	102	P/P	80 - 120
2329260	Sodium	102		P	80 - 120
2329260	Strontium	94.1	99.4	P/P	80 - 120
2329260	Tin	101	103	P/P	80 - 120
2329260	Titanium	103	104	P/P	80 - 120
2329260	Vanadium	98.4	99.6	P/P	80 - 120
2329260	Zinc	102	104	P/P	80 - 120
2330030	Calcium	104		P	80 - 120
2330030	Iron	111		P	80 - 120
2330030	Magnesium	114		P	80 - 120
2330030	Potassium	105		P	80 - 120
2330030	Sodium	110		P	80 - 120
2330030	Strontium	111		P	80 - 120
2330030	Tin	104		P	80 - 120
2330030	Titanium	104		P	80 - 120
2330030	Vanadium	99.7		P	80 - 120
2330030	Zinc	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P414396

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329260	Aluminum	102	102	P/P	80 - 120
2329260	Antimony	101	101	P/P	80 - 120
2329260	Arsenic	100	99.7	P/P	80 - 120
2329260	Barium	103	102	P/P	80 - 120
2329260	Beryllium	86.1	98.1	P/P	80 - 120
2329260	Boron	107	107	P/P	80 - 120
2329260	Cadmium	100	97.9	P/P	80 - 120
2329260	Chromium	100	98.9	P/P	80 - 120
2329260	Cobalt	99.4	97.8	P/P	80 - 120
2329260	Copper	99.6	98.9	P/P	80 - 120
2329260	Lead	102	102	P/P	80 - 120
2329260	Manganese	101	98.5	P/P	80 - 120
2329260	Molybdenum	103	101	P/P	80 - 120
2329260	Nickel	99.1	98.5	P/P	80 - 120
2329260	Selenium	96.4	98.5	P/P	80 - 120
2329260	Silver	99.0	97.4	P/P	80 - 120
2329260	Thallium	104	107	P/P	80 - 120
2330030	Aluminum	103		P	80 - 120
2330030	Antimony	99.4		P	80 - 120
2330030	Arsenic	99.6		P	80 - 120
2330030	Barium	103		P	80 - 120
2330030	Beryllium	93.3		P	80 - 120
2330030	Boron	104		P	80 - 120
2330030	Cadmium	99.5		P	80 - 120
2330030	Chromium	98.0		P	80 - 120
2330030	Cobalt	98.3		P	80 - 120
2330030	Copper	98.6		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P414396

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330030	Lead	101		P	80 - 120
2330030	Manganese	104		P	80 - 120
2330030	Molybdenum	101		P	80 - 120
2330030	Nickel	99.8		P	80 - 120
2330030	Selenium	96.7		P	80 - 120
2330030	Silver	98.4		P	80 - 120
2330030	Thallium	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P414633

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329976	Chloride	97.2		P	90 - 110
2330088	Chloride	97.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P414636

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329976	Sulfate	97.2		P	90 - 110
2330088	Sulfate	98.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P415217

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329253	Ammonia-N	98.2	97.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P414564

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329699	Kjeldahl Nitrogen	103	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P414642

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329936	NO2NO3-N	94.4	94.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P414411

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329939	Total-P	104	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P414412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330017	Total-P	102	106	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414425

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329783	O-Phosphate-P	99.0	99.5	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P414288

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328713	Acetochlor	90.1	75.0	P/P	65 - 124
2328713	Alachlor	82.1	72.1	P/P	61 - 121
2328713	Ametryn	102	99.9	P/P	52 - 216
2328713	Atrazine Desethyl	63.9	56.4	P/P	15 - 160
2328713	Avobenzone	108	110	P/P	59 - 206
2328713	Azinphos Methyl	126	104	P/P	40 - 292
2328713	Azoxystrobin	116	108	P/P	12 - 242
2328713	Bromacil	82.3	71.8	P/P	54 - 167
2328713	Butylate	49.9	41.5	P/P	14 - 94.0
2328713	Caffeine	98.3	95.6	P/P	10 - 226
2328713	Carbophenothion	77.4	66.8	P/P	49 - 122
2328713	Carfentrazone Ethyl	95.0	86.7	P/P	53 - 138
2328713	Chlorfenapyr	73.9	77.8	P/P	50 - 150
2328713	Chlorpyrifos Ethyl	68.9	69.0	P/P	52 - 122
2328713	Chlorpyrifos Methyl	88.2	79.6	P/P	66 - 117
2328713	Coumaphos	74.3	71.9	P/P	50 - 220
2328713	Cyanazine	81.0	68.7	P/P	43 - 245
2328713	Cyprodinil	100	83.2	P/P	50 - 150
2328713	Demeton	111	92.5	P/P	43 - 188
2328713	Diazinon	100	85.5	P/P	69 - 131
2328713	Difenoconazole	102	92.5	P/P	34 - 231
2328713	Dimethenamid	67.5	61.0	P/P	55 - 118
2328713	Dimethomorph	88.7	46.6	P/F	50 - 150
2328713	Disulfoton	84.4	82.2	P/P	38 - 141
2328713	Dithiopyr	71.1	64.2	P/P	42 - 116
2328713	EPTC	44.4	40.5	P/P	18 - 85.0
2328713	Ethion	55.3	51.7	P/P	10 - 131
2328713	Ethoprop	101	88.9	P/P	65 - 129
2328713	Etridiazole	60.3	53.6	P/P	50 - 150
2328713	Fenamiphos	86.1	88.5	P/P	31 - 137
2328713	Fenbuconazole	84.8	74.5	P/P	57 - 160
2328713	Fipronil	89.2	76.4	P/P	62 - 132
2328713	Fipronil Desulfinyl	98.8	83.1	P/P	57 - 131
2328713	Fipronil Sulfide	78.0	69.3	P/P	15 - 138
2328713	Fipronil Sulfone	69.9	56.1	P/P	21 - 134
2328713	Fluazifop-P-butyl	84.2	74.4	P/P	54 - 133
2328713	Fludioxonil	76.8	67.1	P/P	58 - 127
2328713	Flumioxazin	109	98.1	P/P	33 - 300
2328713	Flutolanil	73.6	72.9	P/P	42 - 130
2328713	Fluxapyroxad	64.0	56.0	P/P	23 - 141
2328713	Fonofos	86.0	79.4	P/P	58 - 119
2328713	Hexazinone	82.7	78.5	P/P	68 - 172
2328713	Imazalil	94.1	91.6	P/P	48 - 283
2328713	Iprodione	81.7	68.4	P/P	38 - 140
2328713	Loratadine	87.2	95.1	P/P	50 - 150
2328713	Malathion	79.9	78.7	P/P	40 - 137

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P414288

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328713	Metalaxyl	80.2	66.8	P/P	21 - 129
2328713	Metolachlor	72.2	64.6	P/P	55 - 122
2328713	Metribuzin	98.5	93.8	P/P	38 - 187
2328713	Mevinphos	105	91.8	P/P	54 - 134
2328713	Molinate	64.7	62.0	P/P	41 - 97.0
2328713	Myclobutanil	86.2	75.9	P/P	56 - 125
2328713	Naled	87.8	81.3	P/P	10 - 108
2328713	Napropamide	64.8	56.8	P/P	50 - 150
2328713	Norflurazon	76.3	65.1	P/P	32 - 122
2328713	Octinoxate	42.3	52.7	P/P	25 - 150
2328713	Oxadiazon	71.4	65.1	P/P	40 - 119
2328713	Oxybenzone	53.6	157	F/F	59 - 147
2328713	Oxyfluorfen	101	88.6	P/P	61 - 153
2328713	Parathion Ethyl	87.1	76.3	P/P	59 - 130
2328713	Parathion Methyl	124	112	P/P	65 - 155
2328713	Pendimethalin	101	95.6	P/P	49 - 138
2328713	Phenytoin	57.5	56.5	P/P	50 - 200
2328713	Phorate	110	84.8	P/P	54 - 161
2328713	Prodiamine	37.9	33.1	P/P	33 - 161
2328713	Prometon	69.6	77.9	P/P	48 - 140
2328713	Prometryn	87.1	74.5	P/P	55 - 134
2328713	Pronamide	93.4	80.3	P/P	66 - 137
2328713	Propanil	114	101	P/P	50 - 150
2328713	Propargite	128	126	P/P	50 - 200
2328713	Propiconazole	76.7	62.9	P/P	36 - 150
2328713	Pyraflufen Ethyl	74.0	68.4	P/P	50 - 150
2328713	Pyridaben	109	103	P/P	50 - 200
2328713	Pyriproxyfen	79.3	69.0	P/P	10 - 165
2328713	Simazine	94.8	80.1	P/P	57 - 145
2328713	Stirophos	73.3	63.4	P/P	50 - 150
2328713	Sulfentrazone	79.8	65.9	P/P	34 - 140
2328713	Tebuconazole	40.5	37.6	P/P	10 - 127
2328713	Terbufos	109	102	P/P	59 - 138
2328713	Terbuthylazine	90.1	75.1	P/P	68 - 119
2328713	Thiobencarb	64.7	64.4	P/P	50 - 150
2328713	Triadimefon	70.1	59.9	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P414484

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329988	Aldrin	69.5	69.8	P/P	10 - 89.0
2329988	Alpha-BHC	94.8	94.9	P/P	71 - 105
2329988	Alpha-Chlordane	82.2	80.1	P/P	43 - 107
2329988	Beta-BHC	127	132	P/P	57 - 152
2329988	Beta-Cyfluthrin	92.7	86.0	P/P	29 - 186
2329988	Bifenthrin	81.2	77.3	P/P	19 - 119
2329988	Chlorothalonil	239	229	P/P	10 - 245
2329988	Cis-Nonachlor	64.0	65.5	P/P	36 - 110
2329988	Cypermethrin	94.0	87.6	P/P	24 - 169
2329988	Dacthal	97.5	97.9	P/P	62 - 115
2329988	DDD-p,p'	73.6	70.8	P/P	36 - 109

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P414484

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329988	DDE-p,p'	78.5	77.6	P/P	30 - 114
2329988	DDT-p,p'	86.2	81.1	P/P	42 - 108
2329988	Delta-BHC	144	149	P/P	60 - 164
2329988	Deltamethrin	60.7	90.3	P/P	10 - 210
2329988	Dichlobenil	49.2	48.1	P/P	23 - 108
2329988	Dicofol	277	247	F/F	44 - 109
2329988	Dieldrin	82.6	78.9	P/P	37 - 119
2329988	Endosulfan I	87.2	85.7	P/P	52 - 105
2329988	Endosulfan II	84.5	82.2	P/P	35 - 127
2329988	Endosulfan Sulfate	88.3	80.8	P/P	39 - 130
2329988	Endrin	76.2	78.8	P/P	30 - 116
2329988	Endrin Aldehyde	79.6	77.3	P/P	20 - 110
2329988	Endrin Ketone	111	106	P/P	48 - 134
2329988	Esfenvalerate	97.2	90.7	P/P	10 - 199
2329988	Ethalfuralin	88.7	90.6	P/P	48 - 95.0
2329988	Fenpropathrin	105	93.4	P/P	37 - 121
2329988	Gamma-BHC	108	106	P/P	61 - 126
2329988	Gamma-Chlordane	83.7	79.6	P/P	39 - 105
2329988	Heptachlor	83.5	81.4	P/P	38 - 96.0
2329988	Heptachlor Epoxide	109	93.7	P/P	42 - 114
2329988	Hexachlorobenzene	78.1	81.8	P/P	39 - 93.0
2329988	Kepone	137	146	P/P	10 - 215
2329988	Lambda-Cyhalothrin	86.4	81.8	P/P	10 - 204
2329988	Methoprene	85.1	84.4	P/P	17 - 108
2329988	Methoxychlor	115	109	P/P	56 - 115
2329988	MGK-264	88.0	86.4	P/P	35 - 120
2329988	Mirex	70.2	67.1	P/P	10 - 178
2329988	Oxychlordane	82.8	80.2	P/P	47 - 91.0
2329988	Permethrin	97.6	90.6	P/P	27 - 170
2329988	Phenothrin	78.8	79.9	P/P	10 - 133
2329988	Piperonyl Butoxide	113	108	P/P	23 - 150
2329988	Prallethrin	101	92.3	P/P	21 - 113
2329988	Tau-Fluvalinate	87.2	83.1	P/P	16 - 158
2329988	Tetramethrin	122	113	P/P	22 - 132
2329988	Trans-Nonachlor	76.2	72.2	P/P	43 - 102
2329988	Triclosan Methyl	82.9	82.5	P/P	49 - 109
2329988	Trifluralin	86.1	83.6	P/P	48 - 93.0
2330361	PCB-1016	95.3	99.5	P/P	46 - 110
2330361	PCB-1260	90.3	90.2	P/P	42 - 111

Reference Method: EPA 8276
Batch ID: P414484

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330361	Chlordane	92.8	94.6	P/P	55 - 128
2330361	Toxaphene	99.7	102	P/P	57 - 211

Reference Method: EPA 8321B
Batch ID: P414365

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329830	2,4-D	96.3	109	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P414365

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329830	2,4,5-T	87.3	93.5	P/P	40 - 150
2329830	Acetaminophen	97.5	98.2	P/P	30 - 150
2329830	Acetamiprid	91.6	103	P/P	40 - 150
2329830	Afidopyropen	77.2	85.1	P/P	30 - 150
2329830	Bentazon	107	102	P/P	30 - 150
2329830	Benzovindiflupyr	87.1	91.3	P/P	40 - 150
2329830	Carbamazepine	102	106	P/P	40 - 150
2329830	Clothianidin	99.6	103	P/P	40 - 150
2329830	Dinotefuran	119	122	P/P	40 - 150
2329830	Diuron	86.9	89.9	P/P	40 - 150
2329830	Fenuron	91.1	94.7	P/P	40 - 150
2329830	Fluridone	81.4	80.5	P/P	40 - 150
2329830	Hydrocodone	92.3	97.3	P/P	40 - 150
2329830	Ibuprofen	74.3	77.8	P/P	40 - 150
2329830	Imazapyr	111	104	P/P	40 - 150
2329830	Imidacloprid	105	104	P/P	40 - 150
2329830	Linuron	71.5	69.7	P/P	40 - 150
2329830	Mandestrobin	84.1	84.2	P/P	40 - 150
2329830	MCCP	123	133	P/P	40 - 150
2329830	Naproxen	71.7	78.9	P/P	40 - 150
2329830	Primidone	102	101	P/P	40 - 150
2329830	Pyraclostrobin	92.6	92.5	P/P	40 - 150
2329830	Silvex	77.9	84.8	P/P	40 - 150
2329830	Thiamethoxam	102	107	P/P	40 - 150
2329830	Tolfenpyrad	41.4	43.4	P/P	30 - 150
2329830	Triclopyr	90.2	95.2	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P414387

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329967	Acesulfame K	123	122	P/P	40 - 150
2329967	AMPA	98.5	93.8	P/P	40 - 150
2329967	Endothall	95.2	94.1	P/P	40 - 150
2329967	Glufosinate	91.9	94.2	P/P	40 - 150
2329967	Glyphosate	92.0	86.4	P/P	40 - 150
2329967	Sucralose	95.9	98.1	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P414473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329909	3-Hydroxycarbofuran	106	112	P/P	40 - 150
2329909	Aldicarb	85.4	90.4	P/P	30 - 150
2329909	Aldicarb Sulfone	109	115	P/P	40 - 150
2329909	Aldicarb Sulfoxide	50.5	52.8	P/P	40 - 150
2329909	Carbaryl	71.5	76.9	P/P	40 - 150
2329909	Carbofuran	81.5	91.7	P/P	40 - 150
2329909	Methiocarb	68.2	74.5	P/P	40 - 150
2329909	Methomyl	86.7	93.3	P/P	40 - 150
2329909	Oxamyl	99.1	104	P/P	40 - 150
2329909	Propoxur	86.9	92.3	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P415142

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330089	Fluoride	96.3	97.4	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P414515

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2328666	Organic Carbon	96.8	95.5	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P414517

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2329782	Organic Carbon	94.0	94.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P414374

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329977	Color (true)	2.12	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414378

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329884	Turbidity	1.83	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P414396

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329260	Calcium	0.719	Spike	P	0 - 20
2329260	Iron	0.126	Spike	P	0 - 20
2329260	Magnesium	0.675	Spike	P	0 - 20
2329260	Potassium	0.102	Spike	P	0 - 20
2329260	Sodium	1.48	Spike	P	0 - 20
2329260	Strontium	5.41	Spike	P	0 - 20
2329260	Tin	1.34	Spike	P	0 - 20
2329260	Titanium	1.19	Spike	P	0 - 20
2329260	Vanadium	1.22	Spike	P	0 - 20
2329260	Zinc	1.41	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414396

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329260	Aluminum	0.235	Spike	P	0 - 20
2329260	Antimony	0.545	Spike	P	0 - 20
2329260	Arsenic	0.655	Spike	P	0 - 20
2329260	Barium	0.534	Spike	P	0 - 20
2329260	Beryllium	13.1	Spike	P	0 - 20
2329260	Boron	0.398	Spike	P	0 - 20
2329260	Cadmium	2.64	Spike	P	0 - 20
2329260	Chromium	1.41	Spike	P	0 - 20
2329260	Cobalt	1.67	Spike	P	0 - 20
2329260	Copper	0.632	Spike	P	0 - 20
2329260	Lead	0.258	Spike	P	0 - 20
2329260	Manganese	1.84	Spike	P	0 - 20
2329260	Molybdenum	1.90	Spike	P	0 - 20
2329260	Nickel	0.622	Spike	P	0 - 20
2329260	Selenium	2.06	Spike	P	0 - 20
2329260	Silver	1.60	Spike	P	0 - 20
2329260	Thallium	2.72	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414633

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329976	Chloride	0.551	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P414636

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329976	Sulfate	0.754	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329253	Ammonia-N	0.916	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414564

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329699	Kjeldahl Nitrogen	0.406	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414619

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329979	Kjeldahl Nitrogen	1.98	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P414642

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329936	NO2NO3-N	0.409	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414411

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329939	Total-P	1.42	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330017	Total-P	2.27	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414425

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329783	O-Phosphate-P	0.504	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P414288

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328713	Acetochlor	18.3	Spike	P	0 - 27
2328713	Alachlor	13.0	Spike	P	0 - 27
2328713	Ametryn	1.76	Spike	P	0 - 34
2328713	Atrazine	4.12	Spike	P	0 - 41
2328713	Atrazine Desethyl	10.7	Spike	P	0 - 38
2328713	Avobenzone	1.41	Spike	P	0 - 30
2328713	Azinphos Methyl	19.3	Spike	P	0 - 62
2328713	Azoxystrobin	7.31	Spike	P	0 - 32
2328713	Bromacil	13.6	Spike	P	0 - 30
2328713	Butylate	18.3	Spike	P	0 - 59
2328713	Caffeine	2.84	Spike	P	0 - 60
2328713	Carbophenothion	14.8	Spike	P	0 - 25
2328713	Carfentrazone Ethyl	9.09	Spike	P	0 - 26
2328713	Chlorfenapyr	5.19	Spike	P	0 - 30
2328713	Chlorpyrifos Ethyl	0.0625	Spike	P	0 - 27
2328713	Chlorpyrifos Methyl	10.2	Spike	P	0 - 26
2328713	Coumaphos	3.19	Spike	P	0 - 30
2328713	Cyanazine	16.5	Spike	P	0 - 58
2328713	Cyprodinil	18.6	Spike	P	0 - 30
2328713	Demeton	17.8	Spike	P	0 - 25
2328713	Diazinon	15.7	Spike	P	0 - 29
2328713	Difenoconazole	9.37	Spike	P	0 - 25
2328713	Dimethenamid	10.1	Spike	P	0 - 30
2328713	Dimethomorph	62.2	Spike	F	0 - 30
2328713	Disulfoton	2.65	Spike	P	0 - 33
2328713	Dithiopyr	10.2	Spike	P	0 - 22
2328713	EPTC	9.36	Spike	P	0 - 38
2328713	Ethion	6.63	Spike	P	0 - 79
2328713	Ethoprop	12.6	Spike	P	0 - 23
2328713	Etridiazole	11.7	Spike	P	0 - 30
2328713	Fenamiphos	2.79	Spike	P	0 - 58
2328713	Fenbuconazole	13.0	Spike	P	0 - 37
2328713	Fipronil	15.4	Spike	P	0 - 33
2328713	Fipronil Desulfinyl	17.2	Spike	P	0 - 26
2328713	Fipronil Sulfide	9.46	Spike	P	0 - 37
2328713	Fipronil Sulfone	16.4	Spike	P	0 - 50
2328713	Fluazifop-P-butyl	12.4	Spike	P	0 - 24
2328713	Fludioxonil	13.5	Spike	P	0 - 26
2328713	Flumioxazin	10.6	Spike	P	0 - 37
2328713	Flutolanil	0.996	Spike	P	0 - 26
2328713	Fluxapyroxad	13.2	Spike	P	0 - 34
2328713	Fonofos	7.98	Spike	P	0 - 27
2328713	Hexazinone	5.14	Spike	P	0 - 36
2328713	Imazalil	2.71	Spike	P	0 - 65

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P414288

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328713	Iprodione	17.7	Spike	P	0 - 33
2328713	Loratadine	8.69	Spike	P	0 - 30
2328713	Malathion	0.613	Spike	P	0 - 44
2328713	Metalaxyl	18.2	Spike	P	0 - 38
2328713	Metolachlor	11.1	Spike	P	0 - 36
2328713	Metribuzin	4.85	Spike	P	0 - 63
2328713	Mevinphos	13.5	Spike	P	0 - 26
2328713	Molinate	4.21	Spike	P	0 - 40
2328713	Myclobutanil	12.8	Spike	P	0 - 21
2328713	Naled	7.64	Spike	P	0 - 26
2328713	Napropamide	13.2	Spike	P	0 - 30
2328713	Norflurazon	15.8	Spike	P	0 - 24
2328713	Octinoxate	21.8	Spike	P	0 - 30
2328713	Oxadiazon	9.29	Spike	P	0 - 27
2328713	Oxybenzone	98.2	Spike	F	0 - 30
2328713	Oxyfluorfen	13.3	Spike	P	0 - 24
2328713	Parathion Ethyl	13.2	Spike	P	0 - 28
2328713	Parathion Methyl	10.1	Spike	P	0 - 27
2328713	Pendimethalin	5.33	Spike	P	0 - 31
2328713	Phenytol	1.89	Spike	P	0 - 30
2328713	Phorate	25.5	Spike	P	0 - 27
2328713	Prodiamine	13.6	Spike	P	0 - 52
2328713	Prometon	11.3	Spike	P	0 - 31
2328713	Prometryn	15.6	Spike	P	0 - 28
2328713	Pronamide	15.0	Spike	P	0 - 26
2328713	Propanil	12.1	Spike	P	0 - 30
2328713	Propargite	1.08	Spike	P	0 - 30
2328713	Propiconazole	14.2	Spike	P	0 - 31
2328713	Pyraflufen Ethyl	7.81	Spike	P	0 - 30
2328713	Pyridaben	5.60	Spike	P	0 - 30
2328713	Pyriproxyfen	13.8	Spike	P	0 - 50
2328713	Simazine	16.9	Spike	P	0 - 29
2328713	Stirophos	14.4	Spike	P	0 - 30
2328713	Sulfentrazone	19.0	Spike	P	0 - 33
2328713	Tebuconazole	5.56	Spike	P	0 - 44
2328713	Terbufos	6.39	Spike	P	0 - 29
2328713	Terbuthylazine	18.1	Spike	P	0 - 27
2328713	Thiobencarb	0.423	Spike	P	0 - 30
2328713	Triadimefon	15.8	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P414484

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329988	Aldrin	0.393	Spike	P	0 - 37
2329988	Alpha-BHC	0.0560	Spike	P	0 - 16
2329988	Alpha-Chlordane	2.57	Spike	P	0 - 28
2329988	Beta-BHC	3.52	Spike	P	0 - 32
2329988	Beta-Cyfluthrin	7.48	Spike	P	0 - 41
2329988	Bifenthrin	4.98	Spike	P	0 - 36

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P414484

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329988	Chlorothalonil	4.40	Spike	P	0 - 54
2329988	Cis-Nonachlor	2.30	Spike	P	0 - 33
2329988	Cypermethrin	7.02	Spike	P	0 - 38
2329988	Dacthal	0.409	Spike	P	0 - 23
2329988	DDD-p,p'	3.84	Spike	P	0 - 35
2329988	DDE-p,p'	1.17	Spike	P	0 - 27
2329988	DDT-p,p'	6.09	Spike	P	0 - 31
2329988	Delta-BHC	3.15	Spike	P	0 - 30
2329988	Deltamethrin	39.3	Spike	P	0 - 76
2329988	Dichlobenil	2.10	Spike	P	0 - 33
2329988	Dicofol	11.6	Spike	P	0 - 24
2329988	Dieldrin	4.53	Spike	P	0 - 35
2329988	Endosulfan I	1.69	Spike	P	0 - 25
2329988	Endosulfan II	2.75	Spike	P	0 - 31
2329988	Endosulfan Sulfate	8.85	Spike	P	0 - 38
2329988	Endrin	3.43	Spike	P	0 - 53
2329988	Endrin Aldehyde	2.85	Spike	P	0 - 81
2329988	Endrin Ketone	5.36	Spike	P	0 - 33
2329988	Esfenvalerate	6.95	Spike	P	0 - 46
2329988	Ethalfuralin	2.21	Spike	P	0 - 22
2329988	Fenpropathrin	11.4	Spike	P	0 - 29
2329988	Gamma-BHC	2.28	Spike	P	0 - 17
2329988	Gamma-Chlordane	4.93	Spike	P	0 - 28
2329988	Heptachlor	2.58	Spike	P	0 - 28
2329988	Heptachlor Epoxide	15.0	Spike	P	0 - 23
2329988	Hexachlorobenzene	4.70	Spike	P	0 - 22
2329988	Kepone	6.23	Spike	P	0 - 61
2329988	Lambda-Cyhalothrin	5.42	Spike	P	0 - 52
2329988	Methoprene	0.724	Spike	P	0 - 38
2329988	Methoxychlor	4.73	Spike	P	0 - 29
2329988	MGK-264	1.66	Spike	P	0 - 41
2329988	Mirex	4.53	Spike	P	0 - 39
2329988	Oxychlordane	3.31	Spike	P	0 - 33
2329988	Permethrin	7.44	Spike	P	0 - 39
2329988	Phenothrin	1.39	Spike	P	0 - 52
2329988	Piperonyl Butoxide	3.69	Spike	P	0 - 91
2329988	Prallethrin	9.35	Spike	P	0 - 34
2329988	Tau-Fluvalinate	4.77	Spike	P	0 - 41
2329988	Tetramethrin	7.41	Spike	P	0 - 43
2329988	Trans-Nonachlor	5.36	Spike	P	0 - 31
2329988	Triclosan Methyl	0.469	Spike	P	0 - 24
2329988	Trifluralin	2.94	Spike	P	0 - 23
2330361	PCB-1016	4.28	Spike	P	0 - 32
2330361	PCB-1260	0.100	Spike	P	0 - 31

Reference Method: EPA 8276

Batch ID: P414484

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330361	Chlordane	1.97	Spike	P	0 - 25

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P414484

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330361	Toxaphene	2.36	Spike	P	0 - 24

Reference Method: EPA 8321B

Batch ID: P414365

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329830	2,4-D	12.2	Spike	P	0 - 30
2329830	2,4,5-T	6.95	Spike	P	0 - 30
2329830	Acetaminophen	0.691	Spike	P	0 - 30
2329830	Acetamiprid	11.9	Spike	P	0 - 30
2329830	Afidopyropen	9.69	Spike	P	0 - 30
2329830	Bentazon	4.80	Spike	P	0 - 30
2329830	Benzovindiflupyr	4.70	Spike	P	0 - 30
2329830	Carbamazepine	3.18	Spike	P	0 - 30
2329830	Clothianidin	3.31	Spike	P	0 - 30
2329830	Dinotefuran	1.79	Spike	P	0 - 30
2329830	Diuron	3.44	Spike	P	0 - 30
2329830	Fenuron	3.95	Spike	P	0 - 30
2329830	Fluridone	1.08	Spike	P	0 - 30
2329830	Hydrocodone	5.32	Spike	P	0 - 30
2329830	Ibuprofen	4.53	Spike	P	0 - 30
2329830	Imazapyr	6.53	Spike	P	0 - 30
2329830	Imidacloprid	1.12	Spike	P	0 - 30
2329830	Linuron	2.58	Spike	P	0 - 30
2329830	Mandestrobin	0.146	Spike	P	0 - 30
2329830	MCP	7.83	Spike	P	0 - 30
2329830	Naproxen	9.58	Spike	P	0 - 30
2329830	Primidone	1.12	Spike	P	0 - 30
2329830	Pyraclostrobin	0.0307	Spike	P	0 - 30
2329830	Silvex	8.40	Spike	P	0 - 30
2329830	Thiamethoxam	4.95	Spike	P	0 - 30
2329830	Tolfenpyrad	4.60	Spike	P	0 - 30
2329830	Triclopyr	5.46	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P414387

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329967	Acesulfame K	0.414	Spike	P	0 - 30
2329967	AMPA	4.89	Spike	P	0 - 30
2329967	Endothall	1.12	Spike	P	0 - 30
2329967	Glufosinate	2.43	Spike	P	0 - 30
2329967	Glyphosate	6.36	Spike	P	0 - 30
2329967	Sucralose	1.57	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P414473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329909	3-Hydroxycarbofuran	5.71	Spike	P	0 - 30
2329909	Aldicarb	5.76	Spike	P	0 - 30
2329909	Aldicarb Sulfone	5.61	Spike	P	0 - 30
2329909	Aldicarb Sulfoxide	4.56	Spike	P	0 - 30
2329909	Carbaryl	7.22	Spike	P	0 - 30
2329909	Carbofuran	11.8	Spike	P	0 - 30
2329909	Methiocarb	8.86	Spike	P	0 - 30
2329909	Methomyl	7.37	Spike	P	0 - 30
2329909	Oxamyl	4.78	Spike	P	0 - 30
2329909	Propoxur	6.06	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P414539

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330089	Total Alkalinity	0.261	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P414670

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329935	TDS	5.38	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P414674

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329935	TSS	3.45	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P415142

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330089	Fluoride	1.03	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P414515

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2328666	Organic Carbon	0.917	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P414517

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

Reference Method: SM 5310 B-2011
Batch ID: P414517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2329782	Organic Carbon	0.739	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2329984
Field Sample ID: G4SW0115

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	71.8	P	30 - 160

Lab Sample ID: 2329985
Field Sample ID: G3SW0112

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	68.2	P	30 - 160

Lab Sample ID: 2329986
Field Sample ID: G4SW0115

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	110	P	30 - 160
EPA 8321B	Carbamazepine-d10	126	P	30 - 160
EPA 8321B	Diuron-d6	87.3	P	30 - 160
EPA 8321B	Endothall-d6	95.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	84.2	P	30 - 160
EPA 8321B	Primidone-d5	130	P	30 - 160
EPA 8321B	Sucralose-d6	133	P	30 - 160

Lab Sample ID: 2329987
Field Sample ID: G3SW0112

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	98.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	95.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	108	P	30 - 160
EPA 8321B	Diuron-d6	75.1	P	30 - 160
EPA 8321B	Endothall-d6	99.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	73.4	P	30 - 160
EPA 8321B	Primidone-d5	108	P	30 - 160
EPA 8321B	Sucralose-d6	129	P	30 - 160

Lab Sample ID: 2329988
Field Sample ID: G4SW0115

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	97.2	P	38 - 115
EPA 8270E	Decachlorobiphenyl	79.1	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	81.6	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	66.9	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	69.2	P	30 - 97.0
EPA 8276	PCNB	100	P	45 - 119

Lab Sample ID: 2329989
Field Sample ID: G3SW0112

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	78.9	P	38 - 115

Quality Assurance Report Surrogates

Lab Sample ID: 2329989

Field Sample ID: G3SW0112

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	64.2	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	49.7	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	40.9	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	57.2	P	30 - 97.0
EPA 8276	PCNB	97.8	P	45 - 119

Lab Sample ID: 2329990

Field Sample ID: G4SW0115

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	49.3	P	20 - 200
EPA 8270E	Simazine-d10	102	P	71 - 140
EPA 8270E	Terbufos-d10	95.1	P	62 - 131
EPA 8270E	Terphenyl-d14	73.7	P	52 - 141

Lab Sample ID: 2329991

Field Sample ID: G3SW0112

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	37.2	P	20 - 200
EPA 8270E	Simazine-d10	79.1	P	71 - 140
EPA 8270E	Terbufos-d10	78.5	P	62 - 131
EPA 8270E	Terphenyl-d14	56.5	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A112402

Included Lab Sample IDs: 2329976, 2329977

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	105	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A112403

Included Lab Sample IDs: 2329976, 2329977

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A112422

Included Lab Sample IDs: 2329980, 2329981

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	98.2	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A112457

Included Lab Sample IDs: 2329997, 2329998

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.3	99.3	P/P	90 - 110
Antimony	97.4	96.8	P/P	90 - 110
Arsenic	98.3	97.4	P/P	90 - 110
Barium	97.6	96.5	P/P	90 - 110
Beryllium	92.7	93.2	P/P	90 - 110
Boron	100	99.8	P/P	90 - 110
Cadmium	98.1	97.4	P/P	90 - 110
Chromium	97.7	97.5	P/P	90 - 110
Cobalt	97.5	97.2	P/P	90 - 110
Copper	97.9	97.7	P/P	90 - 110
Lead	98.4	96.9	P/P	90 - 110
Manganese	97.9	97.7	P/P	90 - 110
Molybdenum	98.4	98.5	P/P	90 - 110
Nickel	98.3	97.9	P/P	90 - 110
Selenium	95.7	95.6	P/P	90 - 110
Silver	99.4	98.7	P/P	90 - 110
Thallium	98.5	95.9	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A112488

Included Lab Sample IDs: 2329979

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.0	96.5	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A112492

Included Lab Sample IDs: 2329978

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

Reference Method: SM 5310 B-2011

Run ID: A112492

Included Lab Sample IDs: 2329978

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	95.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A112498

Included Lab Sample IDs: 2329986, 2329987

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	93.4	91.3	P/P	60 - 160
Endothall	96.2	102	P/P	60 - 160
Glufosinate	102	102	P/P	60 - 160
Glyphosate	98.6	100	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A112499

Included Lab Sample IDs: 2329986, 2329987

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	106	129	P/P	60 - 160
Sucralose	74.7	96.1	P/P	60 - 160

Reference Method: SM 2320 B-2011

Run ID: A112501

Included Lab Sample IDs: 2329976, 2329977

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.0	94.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A112515

Included Lab Sample IDs: 2329986, 2329987

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	98.5	103	P/P	50 - 150
2,4,5-T	104	98.7	P/P	50 - 150
Acetaminophen	108	106	P/P	60 - 160
Acetamiprid	104	104	P/P	50 - 150
Afidopyropen	101	98.5	P/P	50 - 150
Bentazon	108	109	P/P	50 - 160
Benzovindiflupyr	107	107	P/P	50 - 150
Carbamazepine	104	104	P/P	60 - 150
Clothianidin	110	104	P/P	60 - 150
Dinotefuran	102	102	P/P	50 - 150
Diuron	111	107	P/P	60 - 160
Fenuron	102	102	P/P	60 - 150
Fluridone	108	108	P/P	60 - 160
Hydrocodone	96.9	103	P/P	60 - 150
Ibuprofen	102	104	P/P	50 - 160
Imazapyr	100	92.2	P/P	50 - 150
Imidacloprid	99.5	100	P/P	60 - 150
Linuron	100	107	P/P	60 - 150
Mandestrobin	108	107	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A112515

Included Lab Sample IDs: 2329986, 2329987

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
MCP	98.8	102	P/P	50 - 150
Naproxen	93.7	78.1	P/P	50 - 160
Primidone	108	97.2	P/P	60 - 150
Pyraclorobin	110	113	P/P	60 - 150
Silvex	102	102	P/P	50 - 150
Thiamethoxam	102	102	P/P	50 - 150
Tolfenpyrad	102	101	P/P	60 - 150
Triclopyr	92.2	104	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112531

Included Lab Sample IDs: 2329978

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.8	96.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112535

Included Lab Sample IDs: 2329979

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A112541

Included Lab Sample IDs: 2329997, 2329998

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	99.6	P/P	90 - 110
Calcium	99.6	101	P/P	90 - 110
Iron	103	99.5	P/P	90 - 110
Iron	99.5	102	P/P	90 - 110
Magnesium	103	99.7	P/P	90 - 110
Magnesium	99.7	101	P/P	90 - 110
Potassium	102	103	P/P	90 - 110
Potassium	104	102	P/P	90 - 110
Sodium	102	105	P/P	90 - 110
Sodium	104	102	P/P	90 - 110
Tin	102	101	P/P	90 - 110
Tin	99.6	102	P/P	90 - 110
Titanium	100	100	P/P	90 - 110
Titanium	101	100	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110
Zinc	100	102	P/P	90 - 110
Zinc	102	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A112549

Included Lab Sample IDs: 2329984, 2329985

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	103	103	P/P	60 - 150
Aldicarb	98.3	98.5	P/P	60 - 150
Aldicarb Sulfone	102	100	P/P	50 - 150
Aldicarb Sulfoxide	97.2	99.7	P/P	50 - 150
Carbaryl	103	102	P/P	60 - 150
Carbofuran	102	104	P/P	50 - 150
Methiocarb	106	108	P/P	50 - 150
Methomyl	97.4	98.5	P/P	50 - 150
Oxamyl	101	102	P/P	50 - 150
Propoxur	104	105	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A112552

Included Lab Sample IDs: 2329976, 2329977

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.3	98.8	P/P	90 - 110
Sulfate	99.1	99.6	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112560

Included Lab Sample IDs: 2329988, 2329989

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.4		P	80 - 120
PCB-1260	98.7		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A112565

Included Lab Sample IDs: 2329978, 2329979

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	99.0	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112585

Included Lab Sample IDs: 2329990, 2329991

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.8		P	80 - 120
Alachlor	90.2		P	80 - 120
Ametryn	96.9		P	80 - 120
Atrazine	95.5		P	80 - 120
Atrazine Desethyl	105		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Azoxystrobin	95.7		P	80 - 120
Bromacil	91.4		P	80 - 120
Butylate	99.1		P	80 - 120
Caffeine	101		P	80 - 120
Carbophenothion	98.4		P	80 - 120
Carfentrazone Ethyl	94.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112585

Included Lab Sample IDs: 2329990, 2329991

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorfenapyr	88.6		P	80 - 120
Chlorpyrifos Ethyl	98.6		P	80 - 120
Chlorpyrifos Methyl	104		P	80 - 120
Coumaphos	99.4		P	80 - 120
Cyanazine	90.1		P	80 - 120
Cyprodinil	89.0		P	80 - 120
Demeton	96.7		P	80 - 120
Diazinon	94.9		P	80 - 120
Difenoconazole	87.6		P	80 - 120
Dimethenamid	96.3		P	80 - 120
Dimethomorph	98.7		P	80 - 120
Disulfoton	97.8		P	80 - 120
Dithiopyr	93.5		P	80 - 120
EPTC	98.5		P	80 - 120
Ethion	97.8		P	80 - 120
Ethoprop	99.7		P	80 - 120
Etridiazole	93.1		P	80 - 120
Fenamiphos	97.6		P	80 - 120
Fenbuconazole	91.9		P	80 - 120
Fipronil	96.2		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	95.8		P	80 - 120
Fipronil Sulfone	89.7		P	80 - 120
Fluazifop-P-butyl	92.3		P	80 - 120
Fludioxonil	89.4		P	80 - 120
Flumioxazin	89.3		P	80 - 120
Flutolanil	91.8		P	80 - 120
Fluxapyroxad	86.9		P	80 - 120
Fonofos	100		P	80 - 120
Hexazinone	95.6		P	80 - 120
Imazalil	90.9		P	80 - 120
Iprodione	108		P	80 - 120
Loratadine	98.7		P	80 - 120
Malathion	97.9		P	80 - 120
Metaxyl	97.2		P	80 - 120
Metolachlor	94.8		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	99.3		P	80 - 120
Myclobutanil	90.1		P	80 - 120
Naled	98.9		P	80 - 120
Napropamide	93.4		P	80 - 120
Norflurazon	93.2		P	80 - 120
Oxadiazon	92.7		P	80 - 120
Oxyfluorfen	94.9		P	80 - 120
Parathion Ethyl	97.6		P	80 - 120
Parathion Methyl	94.6		P	80 - 120
Pendimethalin	93.8		P	80 - 120
Phenytoin	91.0		P	80 - 120
Phorate	104		P	80 - 120
Prodiamine	98.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112585

Included Lab Sample IDs: 2329990, 2329991

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometon	93.3		P	80 - 120
Prometryn	94.5		P	80 - 120
Pronamide	88.9		P	80 - 120
Propanil	103		P	80 - 120
Propargite	97.0		P	80 - 120
Propiconazole	93.5		P	80 - 120
Pyraflufen Ethyl	92.1		P	80 - 120
Pyridaben	94.5		P	80 - 120
Pyriproxyfen	90.3		P	80 - 120
Simazine	97.9		P	80 - 120
Stirophos	106		P	80 - 120
Sulfentrazone	86.4		P	80 - 120
Tebuconazole	95.0		P	80 - 120
Terbufos	99.9		P	80 - 120
Terbuthylazine	98.0		P	80 - 120
Thiobencarb	80.9		P	80 - 120
Triadimefon	98.6		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A112599

Included Lab Sample IDs: 2329997, 2329998

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Strontium	96.9	103	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112608

Included Lab Sample IDs: 2329988, 2329989

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	94.6		P	80 - 120
Alpha-BHC	95.6		P	80 - 120
Alpha-Chlordane	99.4		P	80 - 120
Beta-BHC	96.5		P	80 - 120
Beta-Cyfluthrin	97.1		P	80 - 120
Bifenthrin	100		P	80 - 120
Chlorothalonil	99.5		P	80 - 120
Cis-Nonachlor	95.3		P	80 - 120
Cypermethrin	98.6		P	80 - 120
Dacthal	99.4		P	80 - 120
DDD-p,p'	99.7		P	80 - 120
DDE-p,p'	99.6		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	96.1		P	80 - 120
Deltamethrin	89.4		P	80 - 120
Dichlobenil	99.1		P	80 - 120
Dicofol	109		P	80 - 120
Dieldrin	98.0		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	96.4		P	80 - 120
Endosulfan Sulfate	93.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112608

Included Lab Sample IDs: 2329988, 2329989

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin	95.9		P	80 - 120
Endrin Aldehyde	95.9		P	80 - 120
Endrin Ketone	103		P	80 - 120
Esfenvalerate	99.9		P	80 - 120
Ethalfuralin	99.1		P	80 - 120
Fenpropathrin	98.0		P	80 - 120
Gamma-BHC	99.5		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	97.4		P	80 - 120
Heptachlor Epoxide	97.4		P	80 - 120
Hexachlorobenzene	99.1		P	80 - 120
Kepone	92.2		P	80 - 120
Lambda-Cyhalothrin	98.6		P	80 - 120
Methoprene	100		P	80 - 120
Methoxychlor	98.8		P	80 - 120
MGK-264	100		P	80 - 120
Mirex	99.6		P	80 - 120
Oxychlordane	102		P	80 - 120
Permethrin	99.6		P	80 - 120
Phenothrin	99.8		P	80 - 120
Piperonyl Butoxide	96.8		P	80 - 120
Prallethrin	95.8		P	80 - 120
Tau-Fluvalinate	98.6		P	80 - 120
Tetramethrin	98.0		P	80 - 120
Trans-Nonachlor	97.2		P	80 - 120
Triclosan Methyl	98.7		P	80 - 120
Trifluralin	98.7		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112613

Included Lab Sample IDs: 2329978

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.6	98.3	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112620

Included Lab Sample IDs: 2329990, 2329991

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	110		P	80 - 120
Octinoxate	95.2		P	80 - 120
Oxybenzone	92.8		P	80 - 120

Reference Method: EPA 8276

Run ID: A112621

Included Lab Sample IDs: 2329988, 2329989

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.8		P	80 - 120
Toxaphene	88.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112631

Included Lab Sample IDs: 2329979

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	108	105	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A112796

Included Lab Sample IDs: 2329976, 2329977

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	96.5	95.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A112830

Included Lab Sample IDs: 2329978, 2329979

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.0	96.9	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	100				2.12	
EPA 180.1 Rev. 2.0	Turbidity	96.9				1.83	
EPA 200.7 Rev. 4.4	Calcium	104	103	104			0.719
	Iron	107	108	108	111		0.126
	Magnesium	110	111	109	114		0.675
	Potassium	105	102	102	105		0.102
	Sodium	103	102	110			1.48
	Strontium	93.9	94.1	99.4	111		5.41
	Tin	102	101	103	104		1.34
	Titanium	102	103	104	104		1.19
	Vanadium	95.2	98.4	99.6	99.7		1.22
	Zinc	100	102	104	102		1.41
EPA 200.8 Rev. 5.4	Aluminum	97.9	102	102	103		0.235
	Antimony	96.8	101	101	99.4		0.545
	Arsenic	97.7	100	99.7	99.6		0.655
	Barium	99.4	103	102	103		0.534
	Beryllium	95.3	86.1	98.1	93.3		13.1
	Boron	103	107	107	104		0.398
	Cadmium	94.7	100	97.9	99.5		2.64
	Chromium	95.7	100	98.9	98.0		1.41
	Cobalt	96.9	99.4	97.8	98.3		1.67
	Copper	96.2	99.6	98.9	98.6		0.632
	Lead	97.8	102	102	101		0.258
	Manganese	96.4	101	98.5	104		1.84
	Molybdenum	96.2	103	101	101		1.90
	Nickel	97.6	99.1	98.5	99.8		0.622
	Selenium	96.7	96.4	98.5	96.7		2.06
	Silver	97.2	99.0	97.4	98.4		1.60
	Thallium	98.7	104	107	103		2.72
EPA 300.0 Rev. 2.1	Chloride	98.1	97.2	97.6		0.551	
	Sulfate	98.2	97.2	98.2		0.754	
EPA 350.1 Rev. 2.0	Ammonia-N	96.8	97.0	98.2			0.916
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	94.8	103	102			0.406
	Kjeldahl Nitrogen	97.7					1.98
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	94.4	94.8			0.409
EPA 365.1 Rev. 2.0	Total-P	101	104	101			1.42
	Total-P	104	102	106			2.27
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	99.0	99.5			0.504
EPA 8270E	Acetochlor	80.9	90.1	75.0			18.3
	Alachlor	81.7	82.1	72.1			13.0
	Aldrin	55.4	69.5	69.8			0.393
	Alpha-BHC	96.3	94.8	94.9			0.0560
	Alpha-Chlordane	88.4	82.2	80.1			2.57
	Ametryn	93.2	102	99.9			1.76
	Atrazine	80.7					4.12
	Atrazine Desethyl	70.2	63.9	56.4			10.7
	Avobenzone	97.6	108	110			1.41
	Azinphos Methyl	102	126	104			19.3
	Azoxystrobin	120	116	108			7.31
	Beta-BHC	104	127	132			3.52
	Beta-Cyfluthrin	98.6	92.7	86.0			7.48
	Bifenthrin	84.1	81.2	77.3			4.98
	Bromacil	65.8	82.3	71.8			13.6
	Butylate	52.0	49.9	41.5			18.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Caffeine	72.0	98.3	95.6			2.84
	Carbophenothion	74.6	77.4	66.8			14.8
	Carfentrazone Ethyl	92.2	95.0	86.7			9.09
	Chlorfenapyr	71.5	73.9	77.8			5.19
	Chlorothalonil	124	239	229			4.40
	Chlorpyrifos Ethyl	78.8	68.9	69.0			0.0625
	Chlorpyrifos Methyl	83.3	88.2	79.6			10.2
	Cis-Nonachlor	74.8	64.0	65.5			2.30
	Coumaphos	58.7	74.3	71.9			3.19
	Cyanazine	73.6	81.0	68.7			16.5
	Cypermethrin	97.7	94.0	87.6			7.02
	Cyprodinil	95.7	100	83.2			18.6
	Dacthal	96.7	97.5	97.9			0.409
	DDD-p,p'	80.7	73.6	70.8			3.84
	DDE-p,p'	83.8	78.5	77.6			1.17
	DDT-p,p'	83.0	86.2	81.1			6.09
	Delta-BHC	115	144	149			3.15
	Deltamethrin	84.8	60.7	90.3			39.3
	Demeton	68.5	111	92.5			17.8
	Diazinon	97.6	100	85.5			15.7
	Dichlobenil	79.7	49.2	48.1			2.10
	Dicofol	155	277	247			11.6
	Dieldrin	85.9	82.6	78.9			4.53
	Difenoconazole	168	102	92.5			9.37
	Dimethenamid	59.1	67.5	61.0			10.1
	Dimethomorph	126	88.7	46.6			62.2
	Disulfoton	93.4	84.4	82.2			2.65
	Dithiopyr	75.8	71.1	64.2			10.2
	Endosulfan I	89.6	87.2	85.7			1.69
	Endosulfan II	93.7	84.5	82.2			2.75
	Endosulfan Sulfate	94.5	88.3	80.8			8.85
	Endrin	90.1	76.2	78.8			3.43
	Endrin Aldehyde	90.1	79.6	77.3			2.85
	Endrin Ketone	100	111	106			5.36
	EPTC	53.4	44.4	40.5			9.36
	Esfenvalerate	98.5	97.2	90.7			6.95
	Ethalfuralin	84.0	88.7	90.6			2.21
	Ethion	57.3	55.3	51.7			6.63
	Ethoprop	98.2	101	88.9			12.6
	Etridiazole	60.6	60.3	53.6			11.7
	Fenamiphos	62.4	86.1	88.5			2.79
	Fenbuconazole	76.1	84.8	74.5			13.0
	Fenpropathrin	97.3	105	93.4			11.4
	Fipronil	82.2	89.2	76.4			15.4
	Fipronil Desulfinyl	81.5	98.8	83.1			17.2
	Fipronil Sulfide	76.9	78.0	69.3			9.46
	Fipronil Sulfone	75.3	69.9	56.1			16.4
	Fluazifop-P-butyl	89.4	84.2	74.4			12.4
	Fludioxonil	63.1	76.8	67.1			13.5
	Flumioxazin	51.0	109	98.1			10.6
	Flutolanil	63.8	73.6	72.9			0.996
	Fluxapyroxad	119	64.0	56.0			13.2
	Fonofos	89.8	86.0	79.4			7.98
	Gamma-BHC	103	108	106			2.28

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Gamma-Chlordane	80.4	83.7	79.6			4.93
	Heptachlor	73.8	83.5	81.4			2.58
	Heptachlor Epoxide	83.6	109	93.7			15.0
	Hexachlorobenzene	71.1	78.1	81.8			4.70
	Hexazinone	69.1	82.7	78.5			5.14
	Imazalil	63.2	94.1	91.6			2.71
	Iprodione	73.5	81.7	68.4			17.7
	Kepone	186	137	146			6.23
	Lambda-Cyhalothrin	88.8	86.4	81.8			5.42
	Loratadine	143	87.2	95.1			8.69
	Malathion	80.0	79.9	78.7			0.613
	Metalaxyl	76.4	80.2	66.8			18.2
	Methoprene	75.9	85.1	84.4			0.724
	Methoxychlor	97.5	115	109			4.73
	Metolachlor	74.5	72.2	64.6			11.1
	Metribuzin	106	98.5	93.8			4.85
	Mevinphos	85.5	105	91.8			13.5
	MGK-264	83.9	88.0	86.4			1.66
	Mirex	75.3	70.2	67.1			4.53
	Molinate	64.8	64.7	62.0			4.21
	Myclobutanil	58.2	86.2	75.9			12.8
	Naled	82.8	87.8	81.3			7.64
	Napropamide	41.9	64.8	56.8			13.2
	Norflurazon	64.3	76.3	65.1			15.8
	Octinoxate	61.6	42.3	52.7			21.8
	Oxadiazon	70.1	71.4	65.1			9.29
	Oxybenzone	69.5	53.6	157			98.2
	Oxychlordane	77.8	82.8	80.2			3.31
	Oxyfluorfen	73.5	101	88.6			13.3
	Parathion Ethyl	90.9	87.1	76.3			13.2
	Parathion Methyl	116	124	112			10.1
	PCB-1016	81.1	95.3	99.5			4.28
	PCB-1260	101	90.3	90.2			0.100
	Pendimethalin	85.8	101	95.6			5.33
	Permethrin	95.1	97.6	90.6			7.44
	Phenothrin	72.6	78.8	79.9			1.39
	Phenytoin	20.3	57.5	56.5			1.89
	Phorate	82.0	110	84.8			25.5
	Piperonyl Butoxide	107	113	108			3.69
	Prallethrin	78.3	101	92.3			9.35
	Prodiamine	49.6	37.9	33.1			13.6
	Prometon	69.1	69.6	77.9			11.3
	Prometryn	88.5	87.1	74.5			15.6
	Pronamide	89.1	93.4	80.3			15.0
	Propanil	84.6	114	101			12.1
	Propargite	100	128	126			1.08
	Propiconazole	76.0	76.7	62.9			14.2
	Pyraflufen Ethyl	112	74.0	68.4			7.81
	Pyridaben	69.2	109	103			5.60
	Pyriproxyfen	38.4	79.3	69.0			13.8
	Simazine	81.5	94.8	80.1			16.9
	Stirophos	64.3	73.3	63.4			14.4
	Sulfentrazone	52.8	79.8	65.9			19.0
	Tau-Fluvalinate	94.2	87.2	83.1			4.77

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Tebuconazole	20.7	40.5	37.6			5.56
	Terbufos	115	109	102			6.39
	Terbutylazine	83.3	90.1	75.1			18.1
	Tetramethrin	93.5	122	113			7.41
	Thiobencarb	72.7	64.7	64.4			0.423
	Trans-Nonachlor	76.8	76.2	72.2			5.36
	Triadimefon	66.5	70.1	59.9			15.8
	Triclosan Methyl	87.4	82.9	82.5			0.469
	Trifluralin	84.0	86.1	83.6			2.94
EPA 8276	Chlordane	105	92.8	94.6			1.97
	Toxaphene	98.8	99.7	102			2.36
EPA 8321B	2,4-D	91.6	96.3	109			12.2
	2,4,5-T	80.7	87.3	93.5			6.95
	3-Hydroxycarbofuran	95.5	106	112			5.71
	Acesulfame K	139	123	122			0.414
	Acetaminophen	66.4	97.5	98.2			0.691
	Acetamiprid	90.5	91.6	103			11.9
	Afidopyropen	68.7	77.2	85.1			9.69
	Aldicarb	84.3	85.4	90.4			5.76
	Aldicarb Sulfone	99.9	109	115			5.61
	Aldicarb Sulfoxide	97.2	50.5	52.8			4.56
	AMPA	102	98.5	93.8			4.89
	Bentazon	117	107	102			4.80
	Benzovindiflupyr	86.7	87.1	91.3			4.70
	Carbamazepine	105	102	106			3.18
	Carbaryl	76.9	71.5	76.9			7.22
	Carbofuran	88.5	81.5	91.7			11.8
	Clothianidin	100	99.6	103			3.31
	Dinotefuran	102	119	122			1.79
	Diuron	87.8	86.9	89.9			3.44
	Endothall	96.3	95.2	94.1			1.12
	Fenuron	99.1	91.1	94.7			3.95
	Fluridone	82.0	81.4	80.5			1.08
	Glufosinate	96.6	91.9	94.2			2.43
	Glyphosate	94.5	86.4	92.0			6.36
	Hydrocodone	91.2	92.3	97.3			5.32
	Ibuprofen	70.2	74.3	77.8			4.53
	Imazapyr	101	111	104			6.53
	Imidacloprid	94.6	105	104			1.12
	Linuron	71.9	71.5	69.7			2.58
	Mandestrobin	84.6	84.1	84.2			0.146
	MCPP	126	123	133			7.83
	Methiocarb	70.2	68.2	74.5			8.86
	Methomyl	93.7	86.7	93.3			7.37
	Naproxen	81.6	71.7	78.9			9.58
	Oxamyl	100	99.1	104			4.78
	Primidone	97.3	102	101			1.12
	Propoxur	91.8	86.9	92.3			6.06
	Pyraclostrobin	94.8	92.6	92.5			0.0307
	Silvex	74.0	77.9	84.8			8.40
	Sucralose	101	98.1	95.9			1.57
	Thiamethoxam	97.6	102	107			4.95
	Tolfenpyrad	50.9	41.4	43.4			4.60
	Triclopyr	87.6	90.2	95.2			5.46

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	Precision		
				LCS	SMP	MS
SM 2320 B-2011	Total Alkalinity	94.5			0.261	
SM 2540 C-2011	TDS				5.38	
SM 2540 D-2011	TSS				3.45	
SM 4500-F- C-2011	Fluoride	93.8	96.3 97.4			1.03
SM 5310 B-2011	Organic Carbon	95.4	96.8 95.5			0.917
	Organic Carbon	94.6	94.0 94.8			0.739

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2329976, 2329977
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2329976, 2329977
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2329997, 2329998
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2329997, 2329998
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2329976, 2329977
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2329976, 2329977
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2329978, 2329979
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2329978, 2329979
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2329978, 2329979
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2329978, 2329979
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2329980, 2329981
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2329990, 2329991
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2329988, 2329989
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2329990, 2329991
EPA 8270E	PCBs in water matrices by GC/MS/MS	2329988, 2329989
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2329988, 2329989
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2329984, 2329985
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2329986, 2329987
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2329976, 2329977
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2329997, 2329998
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2329976, 2329977
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2329976, 2329977
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2329976, 2329977
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2329978, 2329979

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	05/25/2022			05/25/2022 15:34	Samantha L Bates	2329976
	05/25/2022			05/25/2022 15:35	Samantha L Bates	2329977
EPA 180.1 Rev. 2.0	05/25/2022			05/25/2022 15:08	Khloe J Berg	2329976
	05/25/2022			05/25/2022 15:09	Khloe J Berg	2329977
EPA 200.7 Rev. 4.4	05/25/2022	05/26/2022 10:15	Megan Whitefoot	06/01/2022 00:03	McKinley C Carter	2329997
	05/25/2022	05/26/2022 10:15	Megan Whitefoot	06/01/2022 00:40	McKinley C Carter	2329998
	05/25/2022	05/26/2022 10:15	Megan Whitefoot	06/02/2022 20:32	McKinley C Carter	2329997
	05/25/2022	05/26/2022 10:15	Megan Whitefoot	06/02/2022 20:35	McKinley C Carter	2329998
EPA 200.8 Rev. 5.4	05/25/2022	05/26/2022 10:15	Megan Whitefoot	05/26/2022 20:49	Alexander Thompson	2329997
	05/25/2022	05/26/2022 10:15	Megan Whitefoot	05/26/2022 20:58	Alexander Thompson	2329998
EPA 300.0 Rev. 2.1	05/25/2022			06/01/2022 22:14	Anna M. Plaviak	2329976
	05/25/2022			06/02/2022 00:14	Anna M. Plaviak	2329977
EPA 350.1 Rev. 2.0	05/25/2022			06/14/2022 12:14	Ping Hua	2329979
	05/25/2022			06/14/2022 12:21	Ping Hua	2329978
EPA 351.2 Rev. 2.0	05/25/2022	06/02/2022 15:43	Samantha L Bates	06/03/2022 15:19	Alexandra J Mattheus	2329978
	05/25/2022	06/03/2022 11:24	Samantha L Bates	06/06/2022 12:52	Alexandra J Mattheus	2329979
EPA 353.2 Rev. 2.0	05/25/2022			06/01/2022 17:14	Nathaniel J Jones	2329978
	05/25/2022			06/01/2022 17:16	Nathaniel J Jones	2329979
EPA 365.1 Rev. 2.0	05/25/2022	05/27/2022 16:17	Adam P Silver	05/31/2022 16:35	James L Waggeberby	2329978
	05/25/2022	05/27/2022 16:17	Adam P Silver	06/01/2022 10:31	James L Waggeberby	2329979
EPA 365.1 Rev. 2.0 dissolved	05/25/2022			05/25/2022 18:30	Nathaniel J Jones	2329980
	05/25/2022			05/25/2022 18:31	Nathaniel J Jones	2329981
EPA 8270E	05/25/2022	05/26/2022 08:00	Fe-Val Siddell	05/27/2022 21:46	Vandana T. Nagar	2329990
	05/25/2022	05/26/2022 08:00	Fe-Val Siddell	05/27/2022 22:13	Vandana T. Nagar	2329991
	05/25/2022	05/26/2022 08:00	Fe-Val Siddell	06/02/2022 00:29	Arthur Maknenko	2329990
	05/25/2022	05/26/2022 08:00	Fe-Val Siddell	06/02/2022 00:54	Arthur Maknenko	2329991
	05/25/2022	05/31/2022 08:00	Fe-Val Siddell	06/02/2022 06:05	Arthur Maknenko	2329988
	05/25/2022	05/31/2022 08:00	Fe-Val Siddell	06/02/2022 06:35	Arthur Maknenko	2329989
	05/25/2022	05/31/2022 08:00	Fe-Val Siddell	06/02/2022 17:54	Michael Poppell	2329988
	05/25/2022	05/31/2022 08:00	Fe-Val Siddell	06/02/2022 21:50	Michael Poppell	2329989
EPA 8276	05/25/2022	05/31/2022 08:00	Fe-Val Siddell	06/03/2022 12:21	Julie Wi	2329988
	05/25/2022	05/31/2022 08:00	Fe-Val Siddell	06/03/2022 13:16	Julie Wi	2329989
EPA 8321B	05/25/2022	05/26/2022 09:30	June Rhew	05/29/2022 01:13	Juyoung Kim	2329986
	05/25/2022	05/26/2022 09:30	June Rhew	05/29/2022 01:48	Juyoung Kim	2329987
	05/25/2022	05/27/2022 09:30	Umesh Chiluwal	05/27/2022 12:13	Umesh Chiluwal	2329986
	05/25/2022	05/27/2022 09:30	Umesh Chiluwal	05/27/2022 12:26	Umesh Chiluwal	2329987
	05/25/2022	05/27/2022 09:30	Umesh Chiluwal	05/28/2022 01:42	Umesh Chiluwal	2329986
	05/25/2022	05/27/2022 09:30	Umesh Chiluwal	05/28/2022 01:57	Umesh Chiluwal	2329987
	05/25/2022	05/31/2022 09:00	Hoor Shaik	06/01/2022 12:39	Juyoung Kim	2329984
	05/25/2022	05/31/2022 09:00	Hoor Shaik	06/01/2022 13:14	Juyoung Kim	2329985

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-2011	05/25/2022			05/27/2022 12:25	Dale L. Simmons	2329976
	05/25/2022			05/27/2022 12:36	Dale L. Simmons	2329977
SM 2340 B-2011	05/25/2022			06/01/2022 00:03	McKinley C Carter	2329997
	05/25/2022			06/01/2022 00:40	McKinley C Carter	2329998
SM 2540 C-2011	05/25/2022			05/27/2022 14:56	Yijie Li	2329976, 2329977
SM 2540 D-2011	05/25/2022			05/27/2022 14:56	Yijie Li	2329976, 2329977
SM 4500-F- C-2011	05/25/2022			06/14/2022 08:22	Dale L. Simmons	2329976
	05/25/2022			06/14/2022 08:27	Dale L. Simmons	2329977
SM 5310 B-2011	05/25/2022			05/28/2022 04:15	Khloe J Berg	2329979
	05/25/2022			05/28/2022 06:37	Khloe J Berg	2329978