

Chemical Analysis Report

SE-DIST-2022-02-16-01

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

Event Description: **St. Lucie**
Request ID: **RQ-2022-02-14-39**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Jordan Skaggs

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 10-MAR-2022 09:53



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: 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: Moores Creek @ 2nd

Collection Date/Time: 02/15/2022 08:50

Field ID: G2SE0025

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306049	EPA 8270E	Oxybenzone**	10	U	ng/L	P410080	
		Acetochlor	0.25	U	ng/L	P410080	
		Octinoxate**	41	I	ng/L	P410080	
		Alachlor	0.25	U	ng/L	P410080	
		Avobenzone**	460		ng/L	P410080	
		Ametryn	0.60	U	ng/L	P410080	
		Atrazine	8.3		ng/L	P410080	
		Atrazine Desethyl	1.5	U	ng/L	P410080	
		Azinphos Methyl	2.0	U	ng/L	P410080	
		Azoxystrobin**	0.50	U	ng/L	P410080	
		Bromacil	4.3		ng/L	P410080	
		Butylate	0.40	U	ng/L	P410080	
		Caffeine**	1.7E+03		ng/L	P410080	
		Carbophenothion	0.20	U	ng/L	P410080	
		Carfentrazone Ethyl**	0.10	U	ng/L	P410080	
		Chlorfenapyr**	0.44	I	ng/L	P410080	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P410080	
		Chlorpyrifos Methyl	0.050	U	ng/L	P410080	
		Coumaphos**	0.50	U	ng/L	P410080	
		Cyanazine	3.2	U	ng/L	P410080	
		Cyprodinil**	0.10	U	ng/L	P410080	
		Demeton	1.5	U	ng/L	P410080	
		Diazinon	0.12	U	ng/L	P410080	
		Difenoconazole**	0.60	U	ng/L	P410080	
		Dimethenamid**	0.10	U	ng/L	P410080	
		Dimethomorph**	0.18	U	ng/L	P410080	
		Disulfoton	0.50	U	ng/L	P410080	
		Dithiopyr**	0.18	U	ng/L	P410080	
		EPTC	1.2	U	ng/L	P410080	
		Ethion	0.15	U	ng/L	P410080	
		Ethoprop	0.10	U	ng/L	P410080	
		Etridiazole**	0.15	U	ng/L	P410080	MS
		Fenamiphos	0.50	U	ng/L	P410080	
		Fenbuconazole**	0.12	UJ	ng/L	P410080	LCS, MS
		Fipronil	0.64	I	ng/L	P410080	
		Fipronil Desulfinyl**	0.48	I	ng/L	P410080	
		Fipronil Sulfide	0.46	I	ng/L	P410080	
		Fipronil Sulfone	0.96		ng/L	P410080	
		Fluazifop-P-butyl**	0.10	U	ng/L	P410080	
		Fludioxonil**	0.12	U	ng/L	P410080	
		Flumioxazin**	1.8	U	ng/L	P410080	
		Flutolanil**	0.10	U	ng/L	P410080	
		Fluxapyroxad**	0.10	U	ng/L	P410080	
		Fonofos	0.20	U	ng/L	P410080	

Field ID: G2SE0025

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306049	EPA 8270E	Hexazinone	1.2	I	ng/L	P410080	
		Imazalil**	0.75	U	ng/L	P410080	
		Iprodione**	0.60	U	ng/L	P410080	
		Loratadine**	0.20	I	ng/L	P410080	
		Malathion	0.35	U	ng/L	P410080	
		Metalaxyl	0.75	U	ng/L	P410080	
		Metolachlor	1.0	I	ng/L	P410080	
		Metribuzin	2.5	U	ng/L	P410080	
		Mevinphos	1.0	U	ng/L	P410080	
		Molinate	0.30	U	ng/L	P410080	
		Myclobutanil**	0.25	U	ng/L	P410080	
		Naled**	1.5	U	ng/L	P410080	
		Napropamide**	0.40	U	ng/L	P410080	
		Norflurazon	4.8		ng/L	P410080	
		Oxadiazon	0.35	I	ng/L	P410080	
		Oxyfluorfen**	0.15	U	ng/L	P410080	
		Parathion Ethyl	0.25	U	ng/L	P410080	
		Parathion Methyl	0.55	U	ng/L	P410080	
		Pendimethalin	1.0	U	ng/L	P410080	
		Phenytol**	3.5	U	ng/L	P410080	
		Phorate	0.52	U	ng/L	P410080	
		Prodiamine**	0.18	U	ng/L	P410080	
		Prometon	0.90	U	ng/L	P410080	
		Prometryn	0.20	U	ng/L	P410080	
		Pronamide**	0.15	U	ng/L	P410080	
		Propanil**	0.12	U	ng/L	P410080	
		Propargite**	1.5	U	ng/L	P410080	
		Propiconazole**	0.50	U	ng/L	P410080	
		Pyraflufen Ethyl**	0.25	U	ng/L	P410080	
		Pyridaben**	0.45	U	ng/L	P410080	
		Pyriproxyfen**	0.12	U	ng/L	P410080	
		Simazine	0.50	U	ng/L	P410080	
		Stirophos**	0.12	U	ng/L	P410080	
		Sulfentrazone**	2.1		ng/L	P410080	
		Tebuconazole**	0.60	I	ng/L	P410080	
		Terbufos	0.10	U	ng/L	P410080	
		Terbuthylazine	0.42	U	ng/L	P410080	
		Thiobencarb**	0.60	U	ng/L	P410080	
		Triadimefon**	0.25	U	ng/L	P410080	

Ref. Method and Comment:

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

Sample Location: Fort Pierce Farm Canal @ Taylor Dairy

Collection Date/Time: 02/15/2022 10:45

Field ID: G2SE0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306029	DEP SOP: NU-094-1	Color (true)**	31		PCU	P409987	
	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P409936	
	EPA 300.0 Rev. 2.1	Chloride	470		mg Cl/L	P410229	
		Sulfate	110		mg SO4/L	P410230	
	SM 2320 B-2011	Total Alkalinity	184		mg CaCO3/L	P410034	
	SM 2540 C-2011	TDS	1.40E+03		mg/L	P410339	
	SM 2540 D-2011	TSS	5	I	mg/L	P410254	
2306030	SM 4500 F-C-2011	Fluoride	0.50		mg F/L	P410037	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P410408	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.53	J	mg N/L	P409964	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P410234	
	EPA 365.1 Rev. 2.0	Total-P	0.076		mg P/L	P409921	
2306031	SM 5310 B-2011	Organic Carbon	8.6		mg C/L	P410585	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.022		mg P/L	P409930	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB

Collection Date/Time: 02/15/2022 10:55

Field ID: FB_02152022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306035	DEP SOP: NU-094-1	Color (true)**	2.5	U	PCU	P409987	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P409936	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P410155	
		Sulfate	0.20	U	mg SO4/L	P410151	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P410035	RPD
	SM 2540 C-2011	TDS	15	U	mg/L	P410339	
	SM 2540 D-2011	TSS	2	U	mg/L	P410254	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P410038	
2306036	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P410408	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P409964	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P410234	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P409921	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P410585	
2306037	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P409930	

Ref. Method and Comment:

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

Sample Location: Tenmile Creek @ Selvitz Rd.

Collection Date/Time: 02/15/2022 11:30

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306032	DEP SOP: NU-094-1	Color (true)**	31	A	PCU	P409987	
	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P409936	
	EPA 300.0 Rev. 2.1	Chloride	480		mg Cl/L	P410155	
		Sulfate	110		mg SO4/L	P410151	
	SM 2320 B-2011	Total Alkalinity	203		mg CaCO3/L	P410035	RPD
	SM 2540 C-2011	TDS	1.10E+03		mg/L	P410339	
	SM 2540 D-2011	TSS	2	I	mg/L	P410254	
	SM 4500 F-C-2011	Fluoride	0.39		mg F/L	P410038	
2306033	EPA 350.1 Rev. 2.0	Ammonia-N	0.091		mg N/L	P410408	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.76		mg N/L	P409964	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.15		mg N/L	P410234	
	EPA 365.1 Rev. 2.0	Total-P	0.1		mg P/L	P409921	
	SM 5310 B-2011	Organic Carbon	9.2		mg C/L	P410585	
2306034	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.055		mg P/L	P409930	
2306045	EPA 8321B	Aldicarb	0.020	U	ug/L	P410021	
		Aldicarb Sulfone	0.0020	U	ug/L	P410021	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P410021	
		Carbaryl	0.0020	U	ug/L	P410021	
		Carbofuran	0.0020	U	ug/L	P410021	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P410021	
		Methiocarb	0.0020	U	ug/L	P410021	
		Methomyl	0.0020	U	ug/L	P410021	
		Oxamyl	0.0020	U	ug/L	P410021	
		Propoxur	0.0020	U	ug/L	P410021	
		2306046		Acesulfame K	0.10	U	ug/L
2,4-D	0.011				ug/L	P409839	
AMPA	1.0			U	ug/L	P409863	
2,4,5-T	0.0040			U	ug/L	P409839	
Acetaminophen	0.0080			U	ug/L	P409839	
Endothall	0.25			U	ug/L	P409863	
Acetamiprid	0.0020			U	ug/L	P409839	
Glufosinate	1.0			U	ug/L	P409863	
Glyphosate	1.0			U	ug/L	P409863	
Afidopyropen	0.0020			U	ug/L	P409839	
Sucralose	0.050				ug/L	P409863	
Bentazon	0.0018			I	ug/L	P409839	
Benzovindiflupyr	0.0020			U	ug/L	P409839	
Carbamazepine	8.0E-04			U	ug/L	P409839	
Clothianidin	0.0048			I	ug/L	P409839	
Dinotefuran	0.0020			U	ug/L	P409839	
Diuron	0.0020			U	ug/L	P409839	
Fenuron	0.016			U	ug/L	P409839	
Fluridone	8.0E-04			U	ug/L	P409839	

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306046	EPA 8321B	Imazapyr	0.047		ug/L	P409839	
		Hydrocodone	0.0020	U	ug/L	P409839	
		Ibuprofen	0.020	U	ug/L	P409839	
		Imidacloprid	0.042		ug/L	P409839	
		Linuron	0.0040	U	ug/L	P409839	
		Mandestrobin	0.0020	U	ug/L	P409839	
		MCPP	0.0040	U	ug/L	P409839	
		Naproxen	0.0080	U	ug/L	P409839	
		Primidone	0.0040	U	ug/L	P409839	
		Pyraclostrobin	0.0020	U	ug/L	P409839	
		Silvex	0.0040	U	ug/L	P409839	
		Thiamethoxam	0.010		ug/L	P409839	
		Tolfenpyrad	0.0020	U	ug/L	P409839	
		Triclopyr	0.0040	U	ug/L	P409839	
2306047	EPA 8270E	Aldrin	0.65	U	ng/L	P410173	
		Alpha-BHC	0.10	U	ng/L	P410173	RPD
		Alpha-Chlordane	0.20	U	ng/L	P410173	
		PCB-1016	2.0	U	ng/L	P410173	
		Beta-BHC	0.10	U	ng/L	P410173	
		PCB-1221	2.0	U	ng/L	P410173	
		Beta-Cyfluthrin**	1.2	U	ng/L	P410173	
		PCB-1232	2.0	U	ng/L	P410173	
		Bifenthrin**	0.50	U	ng/L	P410173	
		PCB-1242	2.0	U	ng/L	P410173	
		PCB-1248	2.0	U	ng/L	P410173	
		Chlorothalonil	1.2	U	ng/L	P410173	
		PCB-1254	2.0	U	ng/L	P410173	
		Cis-Nonachlor**	0.20	U	ng/L	P410173	
		PCB-1260	2.0	U	ng/L	P410173	
		Cypermethrin	1.5	U	ng/L	P410173	
		Dacthal**	0.15	U	ng/L	P410173	MS, RPD
		DDD-p,p'	0.25	U	ng/L	P410173	
		DDE-p,p'	0.20	U	ng/L	P410173	
		DDT-p,p'	0.25	U	ng/L	P410173	
		Delta-BHC	0.40	U	ng/L	P410173	
		Deltamethrin**	1.2	U	ng/L	P410173	
		Dichlobenil**	0.25	U	ng/L	P410173	
		Dicofol	1.2	U	ng/L	P410173	
		Dieldrin	0.40	U	ng/L	P410173	
		Endosulfan I	0.40	U	ng/L	P410173	
		Endosulfan II	0.40	U	ng/L	P410173	
		Endosulfan Sulfate	0.30	U	ng/L	P410173	
		Endrin	0.40	U	ng/L	P410173	MS, RPD
		Endrin Aldehyde	0.75	U	ng/L	P410173	
		Endrin Ketone	0.40	U	ng/L	P410173	

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306047	EPA 8270E	Esfenvalerate**	0.75	U	ng/L	P410173	LCS, RPD
		Ethalfuralin**	0.15	U	ng/L	P410173	
		Fenpropathrin**	0.25	U	ng/L	P410173	
		Gamma-BHC	0.12	U	ng/L	P410173	
		Gamma-Chlordane	0.20	U	ng/L	P410173	
		Heptachlor	0.20	U	ng/L	P410173	
		Heptachlor Epoxide	0.25	U	ng/L	P410173	
		Hexachlorobenzene	1.0	U	ng/L	P410173	
		Kepone**	5.0	U	ng/L	P410173	
		Lambda-Cyhalothrin**	0.75	U	ng/L	P410173	
		Methoprene**	0.75	U	ng/L	P410173	
		Methoxychlor	0.30	U	ng/L	P410173	
		MGK-264**	0.20	U	ng/L	P410173	
		Mirex	0.70	U	ng/L	P410173	
		Oxychlordane**	0.30	U	ng/L	P410173	
		Permethrin	1.6	U	ng/L	P410173	
		Phenothrin**	0.90	U	ng/L	P410173	
		Piperonyl Butoxide**	0.15	UJ	ng/L	P410173	
		Prallethrin**	2.0	U	ng/L	P410173	
		Tau-Fluvalinate**	0.25	U	ng/L	P410173	
		Tetramethrin**	0.75	U	ng/L	P410173	
		Trans-Nonachlor**	0.20	U	ng/L	P410173	
		Triclosan Methyl**	0.15	U	ng/L	P410173	
		Trifluralin	0.20	U	ng/L	P410173	
	EPA 8276	Chlordane	2.6	U	ng/L	P410173	
		Toxaphene	15	U	ng/L	P410173	
2306048	EPA 8270E	Oxybenzone**	9.4	U	ng/L	P410080	
		Acetochlor	0.24	U	ng/L	P410080	
		Octinoxate**	29	I	ng/L	P410080	
		Alachlor	0.24	U	ng/L	P410080	
		Avobenzone**	390		ng/L	P410080	
		Ametryn	0.57	U	ng/L	P410080	
		Atrazine	3.1		ng/L	P410080	
		Atrazine Desethyl	1.4	U	ng/L	P410080	
		Azinphos Methyl	1.9	U	ng/L	P410080	
		Azoxystrobin**	6.8		ng/L	P410080	
		Bromacil	3.1		ng/L	P410080	
		Butylate	0.38	U	ng/L	P410080	
		Caffeine**	35		ng/L	P410080	
		Carbophenothion	0.19	U	ng/L	P410080	
		Carfentrazone Ethyl**	0.094	U	ng/L	P410080	
		Chlorfenapyr**	0.17	U	ng/L	P410080	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P410080	
		Chlorpyrifos Methyl	0.047	U	ng/L	P410080	
		Coumaphos**	0.47	U	ng/L	P410080	

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306048	EPA 8270E	Cyanazine	3.1	U	ng/L	P410080	
		Cyprodinil**	0.094	U	ng/L	P410080	
		Demeton	1.4	U	ng/L	P410080	
		Diazinon	0.12	U	ng/L	P410080	
		Difenoconazole**	0.57	U	ng/L	P410080	
		Dimethenamid**	0.094	U	ng/L	P410080	
		Dimethomorph**	0.51	I	ng/L	P410080	
		Disulfoton	0.47	U	ng/L	P410080	
		Dithiopyr**	0.17	U	ng/L	P410080	
		EPTC	1.2	U	ng/L	P410080	
		Ethion	0.14	U	ng/L	P410080	
		Ethoprop	0.094	U	ng/L	P410080	
		Etridiazole**	0.14	U	ng/L	P410080	MS
		Fenamiphos	0.47	U	ng/L	P410080	
		Fenbuconazole**	0.15	IJ	ng/L	P410080	LCS, MS
		Fipronil	0.24	U	ng/L	P410080	
		Fipronil DesulfinyI**	0.12	U	ng/L	P410080	
		Fipronil Sulfide	0.14	U	ng/L	P410080	
		Fipronil Sulfone	0.14	U	ng/L	P410080	
		Fluazifop-P-butyl**	0.094	U	ng/L	P410080	
		Fludioxonil**	0.12	U	ng/L	P410080	
		Flumioxazin**	1.7	U	ng/L	P410080	
		Flutolanil**	0.094	U	ng/L	P410080	
		Fluxapyroxad**	0.37	I	ng/L	P410080	
		Fonofos	0.19	U	ng/L	P410080	
		Hexazinone	16		ng/L	P410080	
		Imazalil**	0.71	U	ng/L	P410080	
		Iprodione**	0.57	U	ng/L	P410080	
		Loratadine**	0.094	U	ng/L	P410080	
		Malathion	0.33	U	ng/L	P410080	
		Metalaxyl	26		ng/L	P410080	
		Metolachlor	1.5		ng/L	P410080	
		Metribuzin	2.4	U	ng/L	P410080	
		Mevinphos	0.99	U	ng/L	P410080	
		Molinate	0.28	U	ng/L	P410080	
		Myclobutanil**	0.24	U	ng/L	P410080	
		Naled**	1.4	U	ng/L	P410080	
		Napropamide**	0.38	U	ng/L	P410080	
		Norflurazon	110		ng/L	P410080	
		Oxadiazon	0.74	I	ng/L	P410080	
		Oxyfluorfen**	0.14	U	ng/L	P410080	
		Parathion Ethyl	0.24	U	ng/L	P410080	
		Parathion Methyl	0.52	U	ng/L	P410080	
		Pendimethalin	0.94	U	ng/L	P410080	
		Phenytain**	3.3	U	ng/L	P410080	

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2306048	EPA 8270E	Phorate	0.50	U	ng/L	P410080	
		Prodiamine**	0.17	U	ng/L	P410080	
		Prometon	0.85	U	ng/L	P410080	
		Prometryn	0.19	U	ng/L	P410080	
		Pronamide**	0.14	U	ng/L	P410080	
		Propanil**	0.12	U	ng/L	P410080	
		Propargite**	1.4	U	ng/L	P410080	
		Propiconazole**	0.47	U	ng/L	P410080	
		Pyraflufen Ethyl**	0.24	U	ng/L	P410080	
		Pyridaben**	0.42	U	ng/L	P410080	
		Pyriproxyfen**	0.12	U	ng/L	P410080	
		Simazine	0.47	U	ng/L	P410080	
		Stirophos**	0.12	U	ng/L	P410080	
		Sulfentrazone**	1.4	I	ng/L	P410080	
		Tebuconazole**	0.47	U	ng/L	P410080	
		Terbufos	0.094	U	ng/L	P410080	
		Terbutylazine	0.40	U	ng/L	P410080	
		Thiobencarb**	0.57	U	ng/L	P410080	
		Triadimefon**	0.24	U	ng/L	P410080	

Ref. Method and Comment:

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

EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

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

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P409987

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409936

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410151

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410155

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410229

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410230

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410408

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409964

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410234

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409921

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409930

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

Reference Method: EPA 8270E

Batch ID: P410080

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
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	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410080

Component	Result	Code	Units
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410080

Component	Result	Code	Units
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
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
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410080

Component	Result	Code	Units
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
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: P410173

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410173

Component	Result	Code	Units
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410173

Component	Result	Code	Units
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
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: P410173

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: P409839

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P409839

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

Reference Method: EPA 8321B

Batch ID: P409863

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

Reference Method: EPA 8321B

Batch ID: P410021

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P410034

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2320 B-2011
Batch ID: P410035

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P410339

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P410254

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P410037

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P410038

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P410585

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: P409987

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: P409936

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410151

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410155

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410229

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410230

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410408

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409964

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410234

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409921

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.3		P	90 - 110

Reference Method: EPA 8270E

Batch ID: P410080

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	80.8		P	70 - 121
Alachlor	78.7		P	68 - 119
Ametryn	88.9		P	64 - 139
Atrazine	83.0		P	76 - 120
Atrazine Desethyl	49.9		P	44 - 126
Avobenzone	166		P	50 - 200
Azinphos Methyl	112		P	43 - 192
Azoxystrobin	77.1		P	36 - 224
Bromacil	66.6		P	52 - 121
Butylate	46.5		P	28 - 91.0
Caffeine	107		P	50 - 134
Carbophenothion	92.9		P	56 - 129
Carfentrazone Ethyl	85.6		P	60 - 141
Chlorfenapyr	85.1		P	56 - 115
Chlorpyrifos Ethyl	78.3		P	60 - 118
Chlorpyrifos Methyl	81.4		P	68 - 119
Coumaphos	94.5		P	18 - 250
Cyanazine	106		P	61 - 250
Cyprodinil	83.4		P	55 - 145
Demeton	66.4		P	30 - 159
Diazinon	75.6		P	70 - 123
Difenoconazole	135		P	49 - 204
Dimethenamid	66.1		P	64 - 115
Dimethomorph	80.0		P	12 - 219
Disulfoton	77.4		P	44 - 125
Dithiopyr	83.5		P	64 - 115
EPTC	46.8		P	28 - 86.0
Ethion	84.1		P	33 - 125
Ethoprop	68.5		P	64 - 116
Etridiazole	45.5		P	34 - 91.0
Fenamiphos	97.3		P	12 - 127
Fenbuconazole	49.5		F	59 - 151
Fipronil	83.5		P	67 - 129
Fipronil Desulfinyl	91.5		P	65 - 127
Fipronil Sulfide	71.7		P	61 - 116
Fipronil Sulfone	72.1		P	55 - 117
Fluazifop-P-butyl	93.7		P	62 - 127
Fludioxonil	96.8		P	62 - 128
Flumioxazin	71.3		P	33 - 250
Flutolanil	80.3		P	56 - 127

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P410080

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluxapyroxad	65.9		P	45 - 128
Fonofos	65.8		P	62 - 111
Hexazinone	78.9		P	46 - 139
Imazalil	103		P	38 - 142
Iprodione	90.1		P	47 - 135
Loratadine	66.0		P	10 - 244
Malathion	87.1		P	61 - 139
Metaxyl	85.1		P	10 - 119
Metolachlor	82.9		P	65 - 118
Metribuzin	90.5		P	51 - 250
Mevinphos	61.2		P	53 - 121
Molinate	56.3		P	42 - 96.0
Myclobutanil	84.3		P	55 - 128
Naled	89.7		P	10 - 98.0
Napropamide	85.1		P	49 - 121
Norflurazon	83.8		P	61 - 126
Octinoxate	93.2		P	50 - 150
Oxadiazon	71.7		P	59 - 116
Oxybenzone	97.7		P	50 - 150
Oxyfluorfen	80.9		P	64 - 137
Parathion Ethyl	73.4		P	70 - 112
Parathion Methyl	80.3		P	76 - 133
Pendimethalin	61.2		P	52 - 117
Phenytoin	58.6		P	10 - 199
Phorate	56.7		P	48 - 121
Prodiamine	38.6		P	26 - 142
Prometon	78.7		P	43 - 123
Prometryn	83.2		P	66 - 127
Pronamide	77.9		P	75 - 121
Propanil	92.5		P	45 - 150
Propargite	84.3		P	42 - 208
Propiconazole	80.2		P	60 - 125
Pyraflufen Ethyl	86.4		P	70 - 138
Pyridaben	83.9		P	35 - 245
Pyriproxyfen	74.0		P	30 - 149
Simazine	77.2		P	72 - 125
Stirophos	82.1		P	29 - 164
Sulfentrazone	80.2		P	21 - 139
Tebuconazole	73.4		P	10 - 115
Terbufos	84.9		P	60 - 123
Terbuthylazine	74.4		P	72 - 115
Thiobencarb	83.2		P	31 - 139
Triadimefon	90.3		P	65 - 116

Reference Method: EPA 8270E

Batch ID: P410173

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	45.2		P	10 - 93.0
Alpha-BHC	95.2		P	75 - 106
Alpha-Chlordane	79.0		P	50 - 109
Beta-BHC	115		P	65 - 135

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P410173

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	26.9		P	23 - 167
Bifenthrin	20.2		P	11 - 123
Chlorothalonil	92.2		P	26 - 182
Cis-Nonachlor	42.4		P	40 - 111
Cypermethrin	28.3		P	25 - 155
Dacthal	98.5		P	73 - 112
DDD-p,p'	53.3		P	47 - 108
DDE-p,p'	78.1		P	48 - 107
DDT-p,p'	64.8		P	49 - 111
Delta-BHC	111		P	68 - 143
Deltamethrin	35.3		P	16 - 176
Dichlobenil	67.4		P	32 - 113
Dicofol	53.8		P	50 - 108
Dieldrin	81.7		P	56 - 110
Endosulfan I	80.1		P	60 - 105
Endosulfan II	53.7		P	50 - 120
Endosulfan Sulfate	63.8		P	55 - 121
Endrin	49.1		P	35 - 117
Endrin Aldehyde	39.6		P	36 - 116
Endrin Ketone	128		P	56 - 130
Esfenvalerate	26.9		P	10 - 179
Ethalfuralin	65.8		P	49 - 99.0
Fenpropathrin	63.9		P	35 - 119
Gamma-BHC	75.7		P	72 - 115
Gamma-Chlordane	70.8		P	45 - 107
Heptachlor	73.5		P	41 - 100
Heptachlor Epoxide	78.7		P	58 - 106
Hexachlorobenzene	55.2		P	39 - 100
Kepone	92.8		P	10 - 191
Lambda-Cyhalothrin	24.2		P	10 - 186
Methoprene	15.3		P	10 - 129
Methoxychlor	63.1		P	61 - 111
MGK-264	57.1		P	20 - 123
Mirex	22.4		P	10 - 182
Oxychlordane	59.6		P	39 - 110
PCB-1016	64.6		P	49 - 111
PCB-1260	78.2		P	42 - 116
Permethrin	31.1		P	26 - 152
Phenothrin	15.8		P	10 - 109
Piperonyl Butoxide	12.1		F	27 - 142
Prallethrin	35.4		P	14 - 109
Tau-Fluvalinate	19.9		P	16 - 134
Tetramethrin	33.7		P	10 - 125
Trans-Nonachlor	68.7		P	45 - 107
Triclosan Methyl	88.5		P	60 - 110
Trifluralin	65.1		P	49 - 98.0

Reference Method: EPA 8276

Batch ID: P410173

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	80.1		P	61 - 118

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P410173

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Toxaphene	86.9		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P409839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	115		P	40 - 150
2,4,5-T	69.2		P	40 - 150
Acetaminophen	88.3		P	30 - 150
Acetamiprid	109		P	40 - 150
Afidopyropen	91.0		P	40 - 150
Bentazon	85.0		P	30 - 150
Benzovindiflupyr	66.3		P	40 - 150
Carbamazepine	107		P	40 - 150
Clothianidin	92.1		P	40 - 150
Dinotefuran	106		P	40 - 150
Diuron	73.5		P	40 - 150
Fenuron	102		P	40 - 150
Fluridone	99.3		P	40 - 150
Hydrocodone	109		P	40 - 150
Ibuprofen	76.7		P	40 - 150
Imazapyr	106		P	40 - 150
Imidacloprid	107		P	40 - 150
Linuron	81.5		P	40 - 150
Mandestrobin	99.2		P	40 - 150
MCPP	98.7		P	40 - 150
Naproxen	66.5		P	40 - 150
Primidone	84.7		P	40 - 150
Pyraclostrobin	72.0		P	40 - 150
Silvex	64.0		P	40 - 150
Thiamethoxam	115		P	40 - 150
Tolfenpyrad	36.2		P	30 - 150
Triclopyr	72.7		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P409863

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	103		P	40 - 150
AMPA	100		P	40 - 150
Endothall	70.2		P	40 - 150
Glufosinate	103		P	40 - 150
Glyphosate	97.9		P	40 - 150
Sucralose	112		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P410021

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	98.7		P	40 - 150
Aldicarb	88.2		P	30 - 150
Aldicarb Sulfone	90.3		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P410021

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

Reference Method: SM 2320 B-2011

Batch ID: P410034

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.9		P	94 - 106

Reference Method: SM 2320 B-2011

Batch ID: P410035

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.5		P	94 - 106

Reference Method: SM 4500 F-C-2011

Batch ID: P410037

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	93 - 104

Reference Method: SM 4500 F-C-2011

Batch ID: P410038

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	93 - 104

Reference Method: SM 5310 B-2011

Batch ID: P410585

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305747	Sulfate	100		P	90 - 110
2305749	Sulfate	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410155

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305747	Chloride	102		P	90 - 110
2305749	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410229

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305675	Chloride	95.6		P	90 - 110
2306572	Chloride	99.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410230

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305675	Sulfate	97.8		P	90 - 110
2306572	Sulfate	98.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305600	Ammonia-N	97.0	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409964

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306030	Kjeldahl Nitrogen	106	112	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410234

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305878	NO2NO3-N	96.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409921

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306030	Total-P	106	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409930

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306031	O-Phosphate-P	96.2	98.4	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P410080

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306175	Acetochlor	101	97.9	P/P	65 - 124
2306175	Alachlor	88.4	90.9	P/P	61 - 121
2306175	Ametryn	111	105	P/P	52 - 216
2306175	Avobenzone	103	93.6	P/P	50 - 200
2306175	Azinphos Methyl	109	112	P/P	40 - 292
2306175	Azoxystrobin	86.3	92.1	P/P	12 - 242
2306175	Butylate	44.0	44.7	P/P	14 - 94.0
2306175	Carbophenothion	77.6	78.5	P/P	49 - 122
2306175	Carfentrazone Ethyl	75.3	73.4	P/P	53 - 138
2306175	Chlorfenapyr	79.2	86.8	P/P	50 - 150
2306175	Chlorpyrifos Ethyl	73.2	70.3	P/P	52 - 122
2306175	Chlorpyrifos Methyl	88.5	86.1	P/P	66 - 117
2306175	Coumaphos	80.9	82.7	P/P	50 - 220
2306175	Cyanazine	127	141	P/P	43 - 245
2306175	Cyprodinil	101	90.1	P/P	50 - 150
2306175	Demeton	88.8	86.1	P/P	43 - 188
2306175	Diazinon	87.3	88.4	P/P	69 - 131
2306175	Difenoconazole	176	157	P/P	34 - 231
2306175	Dimethenamid	80.6	79.7	P/P	55 - 118
2306175	Dimethomorph	104	98.0	P/P	50 - 150
2306175	Disulfoton	85.3	95.8	P/P	38 - 141
2306175	Dithiopyr	98.5	88.2	P/P	42 - 116
2306175	EPTC	35.4	36.0	P/P	18 - 85.0
2306175	Ethion	82.0	77.3	P/P	10 - 131
2306175	Ethoprop	87.0	87.3	P/P	65 - 129
2306175	Etridiazole	49.0	44.2	F/F	50 - 150
2306175	Fenamiphos	82.7	92.4	P/P	31 - 137
2306175	Fenbuconazole	38.4	49.3	F/F	57 - 160
2306175	Fipronil	96.1	82.3	P/P	62 - 132
2306175	Fipronil Desulfinyl	102	94.4	P/P	57 - 131
2306175	Fipronil Sulfide	73.6	72.8	P/P	15 - 138
2306175	Fipronil Sulfone	72.1	67.0	P/P	21 - 134
2306175	Fluazifop-P-butyl	83.8	93.9	P/P	54 - 133
2306175	Fludioxonil	96.7	101	P/P	58 - 127
2306175	Flumioxazin	79.8	81.0	P/P	33 - 300
2306175	Flutolanil	63.5	67.7	P/P	42 - 130
2306175	Fluxapyroxad	65.5	71.0	P/P	23 - 141
2306175	Fonofos	76.0	78.4	P/P	58 - 119
2306175	Hexazinone	87.8	95.4	P/P	68 - 172
2306175	Imazalil	153	142	P/P	48 - 283
2306175	Iprodione	81.4	88.3	P/P	38 - 140
2306175	Loratadine	96.0	99.2	P/P	50 - 150
2306175	Malathion	127	128	P/P	40 - 137
2306175	Metalaxyl	96.9	90.8	P/P	21 - 129
2306175	Metolachlor	92.5	92.6	P/P	55 - 122
2306175	Metribuzin	97.6	102	P/P	38 - 187

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P410080

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306175	Mevinphos	69.0	73.9	P/P	54 - 134
2306175	Molinate	56.8	58.0	P/P	41 - 97.0
2306175	Myclobutanil	81.5	86.9	P/P	56 - 125
2306175	Naled	96.3	102	P/P	10 - 108
2306175	Napropamide	73.5	74.8	P/P	50 - 150
2306175	Norflurazon	91.0	91.0	P/P	32 - 122
2306175	Octinoxate	93.5	86.6	P/P	50 - 150
2306175	Oxadiazon	68.3	74.6	P/P	40 - 119
2306175	Oxybenzone	114	111	P/P	50 - 150
2306175	Oxyfluorfen	97.1	98.4	P/P	61 - 153
2306175	Parathion Ethyl	82.5	90.6	P/P	59 - 130
2306175	Parathion Methyl	108	113	P/P	65 - 155
2306175	Pendimethalin	79.7	79.8	P/P	49 - 138
2306175	Phenytoin	51.8	55.9	P/P	50 - 200
2306175	Phorate	73.6	75.0	P/P	54 - 161
2306175	Prodiamine	69.4	77.1	P/P	33 - 161
2306175	Prometon	94.3	98.3	P/P	48 - 140
2306175	Prometryn	91.1	88.6	P/P	55 - 134
2306175	Pronamide	97.2	97.1	P/P	66 - 137
2306175	Propanil	105	100	P/P	50 - 150
2306175	Propargite	68.8	68.1	P/P	50 - 200
2306175	Pyraflufen Ethyl	74.3	68.4	P/P	50 - 150
2306175	Pyridaben	72.7	68.3	P/P	50 - 200
2306175	Pyriproxyfen	93.3	81.5	P/P	10 - 165
2306175	Stirophos	70.2	68.9	P/P	50 - 150
2306175	Sulfentrazone	72.1	70.2	P/P	34 - 140
2306175	Tebuconazole	67.3	71.6	P/P	10 - 127
2306175	Terbufos	102	105	P/P	59 - 138
2306175	Terbuthylazine	81.8	84.7	P/P	68 - 119
2306175	Thiobencarb	94.8	90.3	P/P	50 - 150
2306175	Triadimefon	94.0	98.6	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P410173

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306496	Aldrin	65.8	54.2	P/P	10 - 89.0
2306496	Alpha-BHC	97.8	76.2	P/P	71 - 105
2306496	Alpha-Chlordane	57.1	51.1	P/P	43 - 107
2306496	Beta-BHC	78.8	69.0	P/P	57 - 152
2306496	Beta-Cyfluthrin	43.4	41.3	P/P	29 - 186
2306496	Bifenthrin	32.8	33.0	P/P	19 - 119
2306496	Chlorothalonil	142	126	P/P	10 - 245
2306496	Cis-Nonachlor	51.2	42.2	P/P	36 - 110
2306496	Cypermethrin	39.1	38.0	P/P	24 - 169
2306496	Dacthal	68.0	52.5	P/F	62 - 115
2306496	DDD-p,p'	49.7	40.8	P/P	36 - 109
2306496	DDE-p,p'	60.3	49.2	P/P	30 - 114
2306496	DDT-p,p'	78.6	66.6	P/P	42 - 108
2306496	Delta-BHC	110	90.8	P/P	60 - 164
2306496	Deltamethrin	50.7	48.7	P/P	10 - 210
2306496	Dichlobenil	88.7	66.6	P/P	23 - 108

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P410173

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306496	Dicofol	74.3	61.4	P/P	44 - 109
2306496	Dieldrin	61.4	48.1	P/P	37 - 119
2306496	Endosulfan I	82.9	71.7	P/P	52 - 105
2306496	Endosulfan II	69.5	53.5	P/P	35 - 127
2306496	Endosulfan Sulfate	56.5	43.2	P/P	39 - 130
2306496	Endrin	55.9	23.3	P/F	30 - 116
2306496	Endrin Aldehyde	38.8	20.9	P/P	20 - 110
2306496	Endrin Ketone	108	103	P/P	48 - 134
2306496	Esfenvalerate	38.0	38.4	P/P	10 - 199
2306496	Ethalfuralin	80.3	64.6	P/P	48 - 95.0
2306496	Fenpropathrin	84.7	79.7	P/P	37 - 121
2306496	Gamma-BHC	103	106	P/P	61 - 126
2306496	Gamma-Chlordane	55.6	46.7	P/P	39 - 105
2306496	Heptachlor	91.0	71.8	P/P	38 - 96.0
2306496	Heptachlor Epoxide	99.6	84.0	P/P	42 - 114
2306496	Hexachlorobenzene	65.2	54.5	P/P	39 - 93.0
2306496	Kepone	101	79.1	P/P	10 - 215
2306496	Lambda-Cyhalothrin	44.3	43.5	P/P	10 - 204
2306496	Methoprene	26.5	22.3	P/P	17 - 108
2306496	Methoxychlor	71.6	60.7	P/P	56 - 115
2306496	MGK-264	57.0	44.7	P/P	35 - 120
2306496	Mirex	41.9	33.2	P/P	10 - 178
2306496	Oxychlordane	68.6	56.4	P/P	47 - 91.0
2306496	Permethrin	42.0	40.0	P/P	27 - 170
2306496	Phenothrin	28.2	31.4	P/P	10 - 133
2306496	Piperonyl Butoxide	100	34.0	P/P	23 - 150
2306496	Prallethrin	39.4	34.1	P/P	21 - 113
2306496	Tau-Fluvalinate	27.7	27.6	P/P	16 - 158
2306496	Tetramethrin	47.4	37.9	P/P	22 - 132
2306496	Trans-Nonachlor	77.0	67.5	P/P	43 - 102
2306496	Triclosan Methyl	86.1	73.0	P/P	49 - 109
2306496	Trifluralin	79.3	67.8	P/P	48 - 93.0
2306531	PCB-1016	73.4	73.2	P/P	46 - 110
2306531	PCB-1260	98.1	92.8	P/P	42 - 111

Reference Method: EPA 8276

Batch ID: P410173

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306531	Chlordane	88.5	88.0	P/P	55 - 128
2306531	Toxaphene	94.1	94.3	P/P	57 - 211

Reference Method: EPA 8321B

Batch ID: P409839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305308	2,4-D	94.5	81.9	P/P	40 - 150
2305308	2,4,5-T	60.7	77.5	P/P	40 - 150
2305308	Acetaminophen	83.5	93.5	P/P	30 - 150
2305308	Acetamiprid	76.7	91.7	P/P	40 - 150
2305308	Afidopyropen	59.3	57.9	P/P	40 - 150
2305308	Bentazon	76.2	62.5	P/P	30 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P409839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305308	Benzovindiflupyr	92.9	97.4	P/P	40 - 150
2305308	Carbamazepine	96.7	88.7	P/P	40 - 150
2305308	Clothianidin	92.0	76.2	P/P	40 - 150
2305308	Dinotefuran	115	120	P/P	40 - 150
2305308	Diuron	64.9	81.8	P/P	40 - 150
2305308	Fenuron	93.6	99.7	P/P	40 - 150
2305308	Fluridone	96.3	96.5	P/P	40 - 150
2305308	Hydrocodone	103	99.8	P/P	40 - 150
2305308	Ibuprofen	65.1	57.6	P/P	40 - 150
2305308	Imazapyr	99.9	99.8	P/P	40 - 150
2305308	Imidacloprid	140	106	P/P	40 - 150
2305308	Linuron	103	79.4	P/P	40 - 150
2305308	Mandestrobin	91.9	92.1	P/P	40 - 150
2305308	MCPP	85.6	105	P/P	40 - 150
2305308	Naproxen	59.3	55.0	P/P	40 - 150
2305308	Primidone	86.5	111	P/P	40 - 150
2305308	Pyraclostrobin	92.2	86.3	P/P	40 - 150
2305308	Silvex	55.1	62.6	P/P	40 - 150
2305308	Thiamethoxam	122	116	P/P	40 - 150
2305308	Tolfenpyrad	41.5	49.0	P/P	30 - 150
2305308	Triclopyr	70.0	70.7	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P409863

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305549	Acesulfame K	97.5	104	P/P	40 - 150
2305549	AMPA	97.2	91.4	P/P	40 - 150
2305549	Endothall	121	129	P/P	40 - 150
2305549	Glufosinate	104	95.3	P/P	40 - 150
2305549	Glyphosate	82.7	76.3	P/P	40 - 150
2305549	Sucralose	111	107	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P410021

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

Reference Method: SM 4500 F-C-2011

Batch ID: P410037

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

Matrix Spike Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P410037

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306086	Fluoride	97.2	95.4	P/P	92 - 107

Reference Method: SM 4500 F-C-2011
Batch ID: P410038

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306102	Fluoride	96.5	97.0	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P410585

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2306033	Organic Carbon	95.7	98.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P409987

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306032	Color (true)	1.70	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305867	Turbidity	0.683	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410151

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305747	Sulfate	1.26	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410155

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305747	Chloride	1.01	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410229

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305675	Chloride	1.29	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410230

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305675	Sulfate	2.70	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410408

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305600	Ammonia-N	0.905	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409964

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306030	Kjeldahl Nitrogen	4.05	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P410234

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305878	NO2NO3-N	0.239	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409921

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306030	Total-P	0.861	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409930

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306031	O-Phosphate-P	1.84	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P410080

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306175	Acetochlor	2.76	Spike	P	0 - 27
2306175	Alachlor	2.87	Spike	P	0 - 27
2306175	Ametryn	5.41	Spike	P	0 - 34
2306175	Atrazine	5.08	Spike	P	0 - 41
2306175	Atrazine Desethyl	4.33	Spike	P	0 - 38
2306175	Avobenzone	4.52	Spike	P	0 - 30
2306175	Azinphos Methyl	2.95	Spike	P	0 - 62
2306175	Azoxystrobin	5.56	Spike	P	0 - 32
2306175	Bromacil	1.82	Spike	P	0 - 30
2306175	Butylate	1.52	Spike	P	0 - 59
2306175	Caffeine	24.2	Spike	P	0 - 60
2306175	Carbophenothion	1.18	Spike	P	0 - 25
2306175	Carfentrazone Ethyl	2.53	Spike	P	0 - 26
2306175	Chlorfenapyr	9.15	Spike	P	0 - 30
2306175	Chlorpyrifos Ethyl	4.03	Spike	P	0 - 27
2306175	Chlorpyrifos Methyl	2.77	Spike	P	0 - 26
2306175	Coumaphos	2.21	Spike	P	0 - 30
2306175	Cyanazine	10.4	Spike	P	0 - 58
2306175	Cyprodinil	11.1	Spike	P	0 - 30
2306175	Demeton	3.17	Spike	P	0 - 25
2306175	Diazinon	1.21	Spike	P	0 - 29
2306175	Difenoconazole	11.2	Spike	P	0 - 25
2306175	Dimethenamid	1.08	Spike	P	0 - 30
2306175	Dimethomorph	4.04	Spike	P	0 - 30
2306175	Disulfoton	11.7	Spike	P	0 - 33
2306175	Dithiopyr	11.0	Spike	P	0 - 22
2306175	EPTC	1.48	Spike	P	0 - 38
2306175	Ethion	5.97	Spike	P	0 - 79
2306175	Ethoprop	0.359	Spike	P	0 - 23
2306175	Etridiazole	10.2	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P410080

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306175	Fenamiphos	11.1	Spike	P	0 - 58
2306175	Fenbuconazole	24.8	Spike	P	0 - 37
2306175	Fipronil	9.69	Spike	P	0 - 33
2306175	Fipronil Desulfinyl	6.05	Spike	P	0 - 26
2306175	Fipronil Sulfide	0.776	Spike	P	0 - 37
2306175	Fipronil Sulfone	3.35	Spike	P	0 - 50
2306175	Fluazifop-P-butyl	11.3	Spike	P	0 - 24
2306175	Fludioxonil	4.02	Spike	P	0 - 26
2306175	Flumioxazin	1.44	Spike	P	0 - 37
2306175	Flutolanil	6.52	Spike	P	0 - 26
2306175	Fluxapyroxad	7.30	Spike	P	0 - 34
2306175	Fonofos	3.07	Spike	P	0 - 27
2306175	Hexazinone	8.22	Spike	P	0 - 36
2306175	Imazalil	7.61	Spike	P	0 - 65
2306175	Iprodione	8.12	Spike	P	0 - 33
2306175	Loratadine	3.23	Spike	P	0 - 30
2306175	Malathion	0.830	Spike	P	0 - 44
2306175	Metalaxyl	6.50	Spike	P	0 - 38
2306175	Metolachlor	0.0586	Spike	P	0 - 36
2306175	Metribuzin	4.42	Spike	P	0 - 63
2306175	Mevinphos	6.77	Spike	P	0 - 26
2306175	Molinate	2.12	Spike	P	0 - 40
2306175	Myclobutanil	6.44	Spike	P	0 - 21
2306175	Naled	6.17	Spike	P	0 - 26
2306175	Napropamide	1.73	Spike	P	0 - 30
2306175	Norflurazon	0.0620	Spike	P	0 - 24
2306175	Octinoxate	5.65	Spike	P	0 - 30
2306175	Oxadiazon	5.23	Spike	P	0 - 27
2306175	Oxybenzone	3.27	Spike	P	0 - 30
2306175	Oxyfluorfen	1.41	Spike	P	0 - 24
2306175	Parathion Ethyl	9.33	Spike	P	0 - 28
2306175	Parathion Methyl	4.34	Spike	P	0 - 27
2306175	Pendimethalin	0.100	Spike	P	0 - 31
2306175	Phenytol	7.67	Spike	P	0 - 30
2306175	Phorate	1.88	Spike	P	0 - 27
2306175	Prodiamine	10.5	Spike	P	0 - 52
2306175	Prometon	4.17	Spike	P	0 - 31
2306175	Prometryn	2.81	Spike	P	0 - 28
2306175	Pronamide	0.127	Spike	P	0 - 26
2306175	Propanil	4.08	Spike	P	0 - 30
2306175	Propargite	1.06	Spike	P	0 - 30
2306175	Propiconazole	8.04	Spike	P	0 - 31
2306175	Pyraflufen Ethyl	8.26	Spike	P	0 - 30
2306175	Pyridaben	6.17	Spike	P	0 - 30
2306175	Pyriproxyfen	13.6	Spike	P	0 - 50
2306175	Simazine	4.47	Spike	P	0 - 29
2306175	Stirophos	1.88	Spike	P	0 - 30
2306175	Sulfentrazone	1.94	Spike	P	0 - 33
2306175	Tebuconazole	4.75	Spike	P	0 - 44
2306175	Terbufos	2.83	Spike	P	0 - 29
2306175	Terbutylazine	3.47	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P410080

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306175	Thiobencarb	4.87	Spike	P	0 - 30
2306175	Triadimefon	3.97	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P410173

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306496	Aldrin	19.4	Spike	P	0 - 37
2306496	Alpha-BHC	24.8	Spike	F	0 - 16
2306496	Alpha-Chlordane	11.0	Spike	P	0 - 28
2306496	Beta-BHC	13.3	Spike	P	0 - 32
2306496	Beta-Cyfluthrin	5.06	Spike	P	0 - 41
2306496	Bifenthrin	0.604	Spike	P	0 - 36
2306496	Chlorothalonil	11.9	Spike	P	0 - 54
2306496	Cis-Nonachlor	19.4	Spike	P	0 - 33
2306496	Cypermethrin	2.79	Spike	P	0 - 38
2306496	Dacthal	25.7	Spike	F	0 - 23
2306496	DDD-p,p'	19.6	Spike	P	0 - 35
2306496	DDE-p,p'	20.2	Spike	P	0 - 27
2306496	DDT-p,p'	16.5	Spike	P	0 - 31
2306496	Delta-BHC	19.2	Spike	P	0 - 30
2306496	Deltamethrin	4.09	Spike	P	0 - 76
2306496	Dichlobenil	28.4	Spike	P	0 - 33
2306496	Dicofol	19.0	Spike	P	0 - 24
2306496	Dieldrin	24.2	Spike	P	0 - 35
2306496	Endosulfan I	14.5	Spike	P	0 - 25
2306496	Endosulfan II	26.1	Spike	P	0 - 31
2306496	Endosulfan Sulfate	26.6	Spike	P	0 - 38
2306496	Endrin	82.3	Spike	F	0 - 53
2306496	Endrin Aldehyde	59.7	Spike	P	0 - 81
2306496	Endrin Ketone	4.51	Spike	P	0 - 33
2306496	Esfenvalerate	1.02	Spike	P	0 - 46
2306496	Ethalfuralin	21.7	Spike	P	0 - 22
2306496	Fenpropathrin	6.16	Spike	P	0 - 29
2306496	Gamma-BHC	2.79	Spike	P	0 - 17
2306496	Gamma-Chlordane	17.4	Spike	P	0 - 28
2306496	Heptachlor	23.6	Spike	P	0 - 28
2306496	Heptachlor Epoxide	17.0	Spike	P	0 - 23
2306496	Hexachlorobenzene	17.8	Spike	P	0 - 22
2306496	Kepone	24.7	Spike	P	0 - 61
2306496	Lambda-Cyhalothrin	1.92	Spike	P	0 - 52
2306496	Methoprene	17.1	Spike	P	0 - 38
2306496	Methoxychlor	16.5	Spike	P	0 - 29
2306496	MGK-264	24.3	Spike	P	0 - 41
2306496	Mirex	23.4	Spike	P	0 - 39
2306496	Oxychlordane	19.6	Spike	P	0 - 33
2306496	Permethrin	4.79	Spike	P	0 - 39
2306496	Phenothrin	10.7	Spike	P	0 - 52
2306496	Piperonyl Butoxide	98.8	Spike	F	0 - 91
2306496	Prallethrin	14.6	Spike	P	0 - 34

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P410173

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306496	Tau-Fluvalinate	0.339	Spike	P	0 - 41
2306496	Tetramethrin	22.2	Spike	P	0 - 43
2306496	Trans-Nonachlor	13.2	Spike	P	0 - 31
2306496	Triclosan Methyl	16.5	Spike	P	0 - 24
2306496	Trifluralin	15.8	Spike	P	0 - 23
2306531	PCB-1016	0.347	Spike	P	0 - 22
2306531	PCB-1260	5.56	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P410173

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306531	Chlordane	0.652	Spike	P	0 - 25
2306531	Toxaphene	0.271	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P409839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305308	2,4-D	14.2	Spike	P	0 - 30
2305308	2,4,5-T	24.4	Spike	P	0 - 30
2305308	Acetaminophen	11.3	Spike	P	0 - 30
2305308	Acetamiprid	17.9	Spike	P	0 - 30
2305308	Afidopyropen	2.32	Spike	P	0 - 30
2305308	Bentazon	13.7	Spike	P	0 - 30
2305308	Benzovindiflupyr	4.76	Spike	P	0 - 30
2305308	Carbamazepine	8.71	Spike	P	0 - 30
2305308	Clothianidin	18.1	Spike	P	0 - 30
2305308	Dinotefuran	3.84	Spike	P	0 - 30
2305308	Diuron	23.1	Spike	P	0 - 30
2305308	Fenuron	6.38	Spike	P	0 - 30
2305308	Fluridone	0.199	Spike	P	0 - 30
2305308	Hydrocodone	2.80	Spike	P	0 - 30
2305308	Ibuprofen	12.2	Spike	P	0 - 30
2305308	Imazapyr	0.0729	Spike	P	0 - 30
2305308	Imidacloprid	26.9	Spike	P	0 - 30
2305308	Linuron	26.3	Spike	P	0 - 30
2305308	Mandestrobin	0.196	Spike	P	0 - 30
2305308	MCPP	20.0	Spike	P	0 - 30
2305308	Naproxen	7.57	Spike	P	0 - 30
2305308	Primidone	25.1	Spike	P	0 - 30
2305308	Pyraclostrobin	6.59	Spike	P	0 - 30
2305308	Silvex	12.7	Spike	P	0 - 30
2305308	Thiamethoxam	5.32	Spike	P	0 - 30
2305308	Tolfenpyrad	16.6	Spike	P	0 - 30
2305308	Triclopyr	0.904	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P409863

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305549	Acesulfame K	6.74	Spike	P	0 - 30
2305549	AMPA	6.10	Spike	P	0 - 30
2305549	Endothall	6.74	Spike	P	0 - 30
2305549	Glufosinate	8.37	Spike	P	0 - 30
2305549	Glyphosate	7.97	Spike	P	0 - 30
2305549	Sucralose	3.38	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P410021

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

Reference Method: SM 2320 B-2011
Batch ID: P410034

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306086	Total Alkalinity	1.43	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P410035

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306102	Total Alkalinity	6.63	Sample	F	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P410339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306102	TDS	7.35	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P410037

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306086	Fluoride	0.953	Spike	P	0 - 2.1

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-2011
Batch ID: P410038

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306102	Fluoride	0.492	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410585

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2306033	Organic Carbon	2.06	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2306045
Field Sample ID: G5SE0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	66.3	P	30 - 160

Lab Sample ID: 2306046
Field Sample ID: G5SE0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	80.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	80.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	102	P	30 - 160
EPA 8321B	Diuron-d6	63.4	P	30 - 160
EPA 8321B	Endothall-d6	140	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	95.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.5	P	30 - 160
EPA 8321B	Primidone-d5	139	P	30 - 160
EPA 8321B	Sucralose-d6	88.0	P	30 - 160

Lab Sample ID: 2306047
Field Sample ID: G5SE0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	76.0	P	38 - 115
EPA 8270E	Decachlorobiphenyl	75.7	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	84.1	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	62.2	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	62.7	P	30 - 97.0
EPA 8276	PCNB	83.9	P	45 - 119

Lab Sample ID: 2306048
Field Sample ID: G5SE0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	91.5	P	20 - 200
EPA 8270E	Simazine-d10	119	P	71 - 140
EPA 8270E	Terbufos-d10	92.5	P	62 - 131
EPA 8270E	Terphenyl-d14	83.0	P	55 - 108

Lab Sample ID: 2306049
Field Sample ID: G2SE0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	88.6	P	20 - 200
EPA 8270E	Simazine-d10	114	P	71 - 140
EPA 8270E	Terbufos-d10	87.7	P	62 - 131
EPA 8270E	Terphenyl-d14	91.8	P	55 - 108

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110423

Included Lab Sample IDs: 2306032, 2306035

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	103	P/P	90 - 110
Sulfate	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110445

Included Lab Sample IDs: 2306031, 2306034, 2306037

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.7	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110446

Included Lab Sample IDs: 2306029, 2306032, 2306035

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

Reference Method: DEP SOP: NU-094-1

Run ID: A110466

Included Lab Sample IDs: 2306029, 2306032, 2306035

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

Reference Method: SM 2320 B-2011

Run ID: A110482

Included Lab Sample IDs: 2306029, 2306032, 2306035

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.3	93.9	P/P	90 - 110
Total Alkalinity	96.4	96.3	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110482

Included Lab Sample IDs: 2306029, 2306032, 2306035

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	99.5	P/P	90 - 110
Fluoride	99.5	99.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A110506

Included Lab Sample IDs: 2306046

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	96.5		P	60 - 160
Glufosinate	101		P	60 - 160
Glyphosate	90.7		P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A110513
Included Lab Sample IDs: 2306046

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	109	98.7	P/P	60 - 160
Endothall	111	83.1	P/P	60 - 160
Sucralose	98.1	94.6	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A110532
Included Lab Sample IDs: 2306030, 2306033

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	105	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A110537
Included Lab Sample IDs: 2306030, 2306033, 2306036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.0	98.4	P/P	90 - 110
Kjeldahl Nitrogen	99.3	97.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A110543
Included Lab Sample IDs: 2306029

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.0	98.9	P/P	90 - 110
Sulfate	100	99.9	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A110555
Included Lab Sample IDs: 2306047

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.2		P	80 - 120
Alpha-BHC	99.0		P	80 - 120
Alpha-Chlordane	104		P	80 - 120
Beta-BHC	86.5		P	80 - 120
Beta-Cyfluthrin	93.0		P	80 - 120
Bifenthrin	101		P	80 - 120
Chlorothalonil	91.7		P	80 - 120
Cis-Nonachlor	97.4		P	80 - 120
Cypermethrin	97.1		P	80 - 120
Dacthal	97.9		P	80 - 120
DDD-p,p'	99.3		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	91.2		P	80 - 120
Deltamethrin	93.1		P	80 - 120
Dichlobenil	87.1		P	80 - 120
Dicofol	97.9		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	98.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110555
Included Lab Sample IDs: 2306047

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endosulfan II	98.4		P	80 - 120
Endosulfan Sulfate	90.8		P	80 - 120
Endrin	99.0		P	80 - 120
Endrin Aldehyde	91.5		P	80 - 120
Endrin Ketone	85.7		P	80 - 120
Esfenvalerate	94.8		P	80 - 120
Ethalfuralin	99.4		P	80 - 120
Fenpropathrin	97.2		P	80 - 120
Gamma-BHC	102		P	80 - 120
Gamma-Chlordane	98.4		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	94.4		P	80 - 120
Hexachlorobenzene	98.7		P	80 - 120
Kepone	91.4		P	80 - 120
Lambda-Cyhalothrin	95.4		P	80 - 120
Methoprene	98.9		P	80 - 120
Methoxychlor	99.4		P	80 - 120
MGK-264	98.3		P	80 - 120
Mirex	101		P	80 - 120
Oxychlordane	104		P	80 - 120
Permethrin	99.0		P	80 - 120
Phenothrin	102		P	80 - 120
Piperonyl Butoxide	96.2		P	80 - 120
Prallethrin	96.5		P	80 - 120
Tau-Fluvalinate	94.2		P	80 - 120
Tetramethrin	108		P	80 - 120
Trans-Nonachlor	91.9		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A110561
Included Lab Sample IDs: 2306036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A110565
Included Lab Sample IDs: 2306030, 2306033, 2306036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A110581
Included Lab Sample IDs: 2306047

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.8		P	80 - 120
Toxaphene	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110611

Included Lab Sample IDs: 2306048, 2306049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.3		P	80 - 120
Alachlor	99.6		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	95.5		P	80 - 120
Atrazine Desethyl	98.8		P	80 - 120
Azinphos Methyl	104		P	80 - 120
Azoxystrobin	97.9		P	80 - 120
Bromacil	95.2		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	89.1		P	80 - 120
Carbophenothion	96.8		P	80 - 120
Carfentrazone Ethyl	93.4		P	80 - 120
Chlorfenapyr	97.9		P	80 - 120
Chlorpyrifos Ethyl	99.2		P	80 - 120
Chlorpyrifos Methyl	98.5		P	80 - 120
Coumaphos	98.2		P	80 - 120
Cyanazine	90.8		P	80 - 120
Cyprodinil	105		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	104		P	80 - 120
Difenoconazole	106		P	80 - 120
Dimethenamid	94.3		P	80 - 120
Dimethomorph	100		P	80 - 120
Disulfoton	94.0		P	80 - 120
Dithiopyr	97.3		P	80 - 120
EPTC	104		P	80 - 120
Ethion	94.4		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	96.0		P	80 - 120
Fenamiphos	107		P	80 - 120
Fenbuconazole	115		P	80 - 120
Fipronil	91.5		P	80 - 120
Fipronil Desulfinyl	96.9		P	80 - 120
Fipronil Sulfide	104		P	80 - 120
Fipronil Sulfone	98.4		P	80 - 120
Fluazifop-P-butyl	110		P	80 - 120
Fludioxonil	105		P	80 - 120
Flumioxazin	102		P	80 - 120
Flutolanil	99.5		P	80 - 120
Fluxapyroxad	97.0		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	85.7		P	80 - 120
Imazalil	109		P	80 - 120
Iprodione	104		P	80 - 120
Loratadine	97.5		P	80 - 120
Malathion	106		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	99.3		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	109		P	80 - 120
Molinate	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110611

Included Lab Sample IDs: 2306048, 2306049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Myclobutanil	97.9		P	80 - 120
Naled	111		P	80 - 120
Napropamide	96.5		P	80 - 120
Norflurazon	92.9		P	80 - 120
Oxadiazon	98.3		P	80 - 120
Oxyfluorfen	85.7		P	80 - 120
Parathion Ethyl	91.8		P	80 - 120
Parathion Methyl	91.5		P	80 - 120
Pendimethalin	93.3		P	80 - 120
Phenytol	100		P	80 - 120
Phorate	104		P	80 - 120
Prodiamine	95.9		P	80 - 120
Prometon	95.3		P	80 - 120
Prometryn	99.0		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	109		P	80 - 120
Propargite	94.7		P	80 - 120
Propiconazole	94.9		P	80 - 120
Pyraflufen Ethyl	99.4		P	80 - 120
Pyridaben	105		P	80 - 120
Pyriproxyfen	99.3		P	80 - 120
Simazine	104		P	80 - 120
Stiophos	93.1		P	80 - 120
Sulfentrazone	98.5		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	98.8		P	80 - 120
Terbutylazine	100		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	106		P	80 - 120

Reference Method: EPA 8270E

Run ID: A110614

Included Lab Sample IDs: 2306048, 2306049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azoxystrobin	101		P	80 - 120
Caffeine	92.0		P	80 - 120
Norflurazon	107		P	80 - 120

Reference Method: EPA 8321B

Run ID: A110620

Included Lab Sample IDs: 2306046

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	103	87.1	P/P	50 - 150
2,4,5-T	86.7	104	P/P	50 - 150
Acetaminophen	109	108	P/P	60 - 160
Acetamiprid	121	110	P/P	50 - 150
Afidopyropen	123	101	P/P	50 - 150
Bentazon	120	106	P/P	50 - 160
Benzovindiflupyr	84.7	112	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A110620
Included Lab Sample IDs: 2306046

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbamazepine	104	111	P/P	60 - 150
Clothianidin	99.7	118	P/P	60 - 150
Dinotefuran	104	113	P/P	50 - 150
Diuron	113	122	P/P	60 - 160
Fenuron	106	99.7	P/P	60 - 150
Fluridone	104	116	P/P	60 - 160
Hydrocodone	101	105	P/P	60 - 150
Ibuprofen	62.7	79.6	P/P	50 - 160
Imazapyr	91.2	94.4	P/P	50 - 150
Imidacloprid	103	102	P/P	60 - 150
Linuron	99.0	102	P/P	60 - 150
Mandestrobin	99.4	104	P/P	50 - 150
MCPP	96.3	93.6	P/P	50 - 150
Naproxen	91.0	128	P/P	50 - 160
Primidone	68.5	83.3	P/P	60 - 150
Pyraclostrobin	101	124	P/P	60 - 150
Silvex	87.7	94.2	P/P	50 - 150
Thiamethoxam	99.3	112	P/P	50 - 150
Tolfenpyrad	105	93.5	P/P	60 - 150
Triclopyr	93.3	100	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A110624
Included Lab Sample IDs: 2306045

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	99.1	104	P/P	60 - 150
Aldicarb	98.3	106	P/P	60 - 150
Aldicarb Sulfone	94.3	92.2	P/P	50 - 150
Aldicarb Sulfoxide	105	91.3	P/P	50 - 150
Carbaryl	113	109	P/P	60 - 150
Carbofuran	103	103	P/P	50 - 150
Methiocarb	103	93.4	P/P	50 - 150
Methomyl	96.5	101	P/P	50 - 150
Oxamyl	98.6	92.6	P/P	50 - 150
Propoxur	104	104	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A110644
Included Lab Sample IDs: 2306030, 2306033, 2306036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	99.5	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A110680
Included Lab Sample IDs: 2306047

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	105		P	80 - 120
PCB-1260	120		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110703

Included Lab Sample IDs: 2306048, 2306049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	92.5		P	80 - 120
Octinoxate	96.9		P	80 - 120
Oxybenzone	96.1		P	80 - 120

Reference Method: SM 5310 B-2011

Run ID: A110715

Included Lab Sample IDs: 2306030, 2306033, 2306036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.6	98.1	P/P	90 - 110
Organic Carbon	99.0	95.6	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP MS
DEP SOP: NU-094-1	Color (true)	100				1.70
EPA 180.1 Rev. 2.0	Turbidity	98.1				0.683
EPA 300.0 Rev. 2.1	Chloride	102	102	103		1.01
	Chloride	98.1	95.6	99.0		1.29
	Sulfate	101	100	101		1.26
	Sulfate	99.4	97.8	98.7		2.70
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	97.0	98.4		0.905
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.8	106	112		4.05
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	96.2			0.239
EPA 365.1 Rev. 2.0	Total-P	107	106	105		0.861
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.3	96.2	98.4		1.84
EPA 8270E	Acetochlor	80.8	101	97.9		2.76
	Alachlor	78.7	88.4	90.9		2.87
	Aldrin	45.2	65.8	54.2		19.4
	Alpha-BHC	95.2	97.8	76.2		24.8
	Alpha-Chlordane	79.0	57.1	51.1		11.0
	Ametryn	88.9	111	105		5.41
	Atrazine	83.0				5.08
	Atrazine Desethyl	49.9				4.33
	Avobenzone	166	103	93.6		4.52
	Azinphos Methyl	112	109	112		2.95
	Azoxystrobin	77.1	86.3	92.1		5.56
	Beta-BHC	115	78.8	69.0		13.3
	Beta-Cyfluthrin	26.9	43.4	41.3		5.06
	Bifenthrin	20.2	32.8	33.0		0.604
	Bromacil	66.6				1.82
	Butylate	46.5	44.0	44.7		1.52
	Caffeine	107				24.2
	Carbophenothion	92.9	77.6	78.5		1.18
	Carfentrazone Ethyl	85.6	75.3	73.4		2.53
	Chlorfenapyr	85.1	79.2	86.8		9.15
	Chlorothalonil	92.2	142	126		11.9
	Chlorpyrifos Ethyl	78.3	73.2	70.3		4.03
	Chlorpyrifos Methyl	81.4	88.5	86.1		2.77
	Cis-Nonachlor	42.4	51.2	42.2		19.4
	Coumaphos	94.5	80.9	82.7		2.21
	Cyanazine	106	127	141		10.4
	Cypermethrin	28.3	39.1	38.0		2.79
	Cyprodinil	83.4	101	90.1		11.1
	Dacthal	98.5	68.0	52.5		25.7
	DDD-p,p'	53.3	49.7	40.8		19.6
	DDE-p,p'	78.1	60.3	49.2		20.2
	DDT-p,p'	64.8	78.6	66.6		16.5
	Delta-BHC	111	110	90.8		19.2
	Deltamethrin	35.3	50.7	48.7		4.09
	Demeton	66.4	88.8	86.1		3.17
	Diazinon	75.6	87.3	88.4		1.21
	Dichlobenil	67.4	88.7	66.6		28.4
	Dicofol	53.8	74.3	61.4		19.0
	Dieldrin	81.7	61.4	48.1		24.2
	Difenoconazole	135	176	157		11.2
	Dimethenamid	66.1	80.6	79.7		1.08
	Dimethomorph	80.0	104	98.0		4.04
	Disulfoton	77.4	85.3	95.8		11.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Dithiopyr	83.5	98.5	88.2		11.0
	Endosulfan I	80.1	82.9	71.7		14.5
	Endosulfan II	53.7	69.5	53.5		26.1
	Endosulfan Sulfate	63.8	56.5	43.2		26.6
	Endrin	49.1	55.9	23.3		82.3
	Endrin Aldehyde	39.6	38.8	20.9		59.7
	Endrin Ketone	128	108	103		4.51
	EPTC	46.8	35.4	36.0		1.48
	Esfenvalerate	26.9	38.0	38.4		1.02
	Ethalfuralin	65.8	80.3	64.6		21.7
	Ethion	84.1	82.0	77.3		5.97
	Ethoprop	68.5	87.0	87.3		0.359
	Etridiazole	45.5	49.0	44.2		10.2
	Fenamiphos	97.3	82.7	92.4		11.1
	Fenbuconazole	49.5	38.4	49.3		24.8
	Fenpropathrin	63.9	84.7	79.7		6.16
	Fipronil	83.5	96.1	82.3		9.69
	Fipronil Desulfinyl	91.5	102	94.4		6.05
	Fipronil Sulfide	71.7	73.6	72.8		0.776
	Fipronil Sulfone	72.1	72.1	67.0		3.35
	Fluazifop-P-butyl	93.7	83.8	93.9		11.3
	Fludioxonil	96.8	96.7	101		4.02
	Flumioxazin	71.3	79.8	81.0		1.44
	Flutolanil	80.3	63.5	67.7		6.52
	Fluxapyroxad	65.9	65.5	71.0		7.30
	Fonofos	65.8	76.0	78.4		3.07
	Gamma-BHC	75.7	103	106		2.79
	Gamma-Chlordane	70.8	55.6	46.7		17.4
	Heptachlor	73.5	91.0	71.8		23.6
	Heptachlor Epoxide	78.7	99.6	84.0		17.0
	Hexachlorobenzene	55.2	65.2	54.5		17.8
	Hexazinone	78.9	87.8	95.4		8.22
	Imazalil	103	153	142		7.61
	Iprodione	90.1	81.4	88.3		8.12
	Kepone	92.8	101	79.1		24.7
	Lambda-Cyhalothrin	24.2	44.3	43.5		1.92
	Loratadine	66.0	96.0	99.2		3.23
	Malathion	87.1	127	128		0.830
	Metalaxyl	85.1	96.9	90.8		6.50
	Methoprene	15.3	26.5	22.3		17.1
	Methoxychlor	63.1	71.6	60.7		16.5
	Metolachlor	82.9	92.5	92.6		0.0586
	Metribuzin	90.5	97.6	102		4.42
	Mevinphos	61.2	69.0	73.9		6.77
	MGK-264	57.1	57.0	44.7		24.3
	Mirex	22.4	41.9	33.2		23.4
	Molinate	56.3	56.8	58.0		2.12
	Myclobutanil	84.3	81.5	86.9		6.44
	Naled	89.7	96.3	102		6.17
	Napropamide	85.1	73.5	74.8		1.73
	Norflurazon	83.8	91.0	91.0		0.0620
	Octinoxate	93.2	93.5	86.6		5.65
	Oxadiazon	71.7	68.3	74.6		5.23
	Oxybenzone	97.7	114	111		3.27

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Oxychlordane	59.6	68.6	56.4			19.6
	Oxyfluorfen	80.9	97.1	98.4			1.41
	Parathion Ethyl	73.4	82.5	90.6			9.33
	Parathion Methyl	80.3	108	113			4.34
	PCB-1016	64.6	73.4	73.2			0.347
	PCB-1260	78.2	98.1	92.8			5.56
	Pendimethalin	61.2	79.7	79.8			0.100
	Permethrin	31.1	42.0	40.0			4.79
	Phenothrin	15.8	28.2	31.4			10.7
	Phenytol	58.6	51.8	55.9			7.67
	Phorate	56.7	73.6	75.0			1.88
	Piperonyl Butoxide	12.1	100	34.0			98.8
	Prallethrin	35.4	39.4	34.1			14.6
	Prodiamine	38.6	69.4	77.1			10.5
	Prometon	78.7	94.3	98.3			4.17
	Prometryn	83.2	91.1	88.6			2.81
	Pronamide	77.9	97.2	97.1			0.127
	Propanil	92.5	105	100			4.08
	Propargite	84.3	68.8	68.1			1.06
	Propiconazole	80.2					8.04
	Pyraflufen Ethyl	86.4	74.3	68.4			8.26
	Pyridaben	83.9	72.7	68.3			6.17
	Pyriproxyfen	74.0	93.3	81.5			13.6
	Simazine	77.2					4.47
	Stirophos	82.1	70.2	68.9			1.88
	Sulfentrazone	80.2	72.1	70.2			1.94
	Tau-Fluvalinate	19.9	27.7	27.6			0.339
	Tebuconazole	73.4	67.3	71.6			4.75
	Terbufos	84.9	102	105			2.83
	Terbutylazine	74.4	81.8	84.7			3.47
	Tetramethrin	33.7	47.4	37.9			22.2
	Thiobencarb	83.2	94.8	90.3			4.87
	Trans-Nonachlor	68.7	77.0	67.5			13.2
	Triadimefon	90.3	94.0	98.6			3.97
	Triclosan Methyl	88.5	86.1	73.0			16.5
	Trifluralin	65.1	79.3	67.8			15.8
EPA 8276	Chlordane	80.1	88.5	88.0			0.652
	Toxaphene	86.9	94.1	94.3			0.271
EPA 8321B	2,4-D	115	94.5	81.9			14.2
	2,4,5-T	69.2	60.7	77.5			24.4
	3-Hydroxycarbofuran	98.7	101	96.3			4.28
	Acesulfame K	103	97.5	104			6.74
	Acetaminophen	88.3	83.5	93.5			11.3
	Acetamiprid	109	76.7	91.7			17.9
	Afidopyropen	91.0	59.3	57.9			2.32
	Aldicarb	88.2	101	87.6			14.3
	Aldicarb Sulfone	90.3	105	107			1.75
	Aldicarb Sulfoxide	90.1	51.8	51.6			0.346
	AMPA	100	97.2	91.4			6.10
	Bentazon	85.0	76.2	62.5			13.7
	Benzovindiflupyr	66.3	92.9	97.4			4.76
	Carbamazepine	107	96.7	88.7			8.71
	Carbaryl	76.9	71.2	61.7			14.4
	Carbofuran	99.1	75.9	81.3			6.95

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	MS
			LCS	SMP		
EPA 8321B	Clothianidin	92.1	92.0	76.2		18.1
	Dinotefuran	106	115	120		3.84
	Diuron	73.5	64.9	81.8		23.1
	Endothall	70.2	121	129		6.74
	Fenuron	102	93.6	99.7		6.38
	Fluridone	99.3	96.3	96.5		0.199
	Glufosinate	103	104	95.3		8.37
	Glyphosate	97.9	82.7	76.3		7.97
	Hydrocodone	109	103	99.8		2.80
	Ibuprofen	76.7	65.1	57.6		12.2
	Imazapyr	106	99.9	99.8		0.0729
	Imidacloprid	107	140	106		26.9
	Linuron	81.5	103	79.4		26.3
	Mandestrobin	99.2	91.9	92.1		0.196
	MCPP	98.7	85.6	105		20.0
	Methiocarb	101	69.8	67.3		3.65
	Methomyl	94.3	87.1	89.0		2.16
	Naproxen	66.5	59.3	55.0		7.57
	Oxamyl	97.4	94.9	94.0		0.980
	Primidone	84.7	86.5	111		25.1
	Propoxur	98.1	84.3	88.3		4.67
	Pyraclostrobin	72.0	92.2	86.3		6.59
	Silvex	64.0	55.1	62.6		12.7
	Sucralose	112	111	107		3.38
	Thiamethoxam	115	122	116		5.32
	Tolfenpyrad	36.2	41.5	49.0		16.6
	Triclopyr	72.7	70.0	70.7		0.904
SM 2320 B-2011	Total Alkalinity	98.9			1.43	
	Total Alkalinity	96.5			6.63	
SM 2540 C-2011	TDS				7.35	
SM 4500 F-C-2011	Fluoride	98.3	97.2	95.4		0.953
	Fluoride	98.3	96.5	97.0		0.492
SM 5310 B-2011	Organic Carbon	95.6	95.7	98.6		2.06

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2306029, 2306032, 2306035
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2306029, 2306032, 2306035
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2306029, 2306032, 2306035
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2306029, 2306032, 2306035
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2306030, 2306033, 2306036
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2306030, 2306033, 2306036
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2306030, 2306033, 2306036
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2306030, 2306033, 2306036
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2306031, 2306034, 2306037
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2306048, 2306049
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2306047
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2306048, 2306049
EPA 8270E	PCBs in water matrices by GC/MS/MS	2306047
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2306047

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2306045
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2306046
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2306029, 2306032, 2306035
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2306029, 2306032, 2306035
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2306029, 2306032, 2306035
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2306029, 2306032, 2306035
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2306030, 2306033, 2306036

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	02/16/2022			02/16/2022 16:37	Anna M. Plaviak	2306029
	02/16/2022			02/16/2022 16:38	Anna M. Plaviak	2306032
	02/16/2022			02/16/2022 16:39	Anna M. Plaviak	2306035
EPA 180.1 Rev. 2.0	02/16/2022			02/16/2022 14:49	Khloe J Berg	2306029
	02/16/2022			02/16/2022 14:51	Khloe J Berg	2306032
	02/16/2022			02/16/2022 14:53	Khloe J Berg	2306035
EPA 300.0 Rev. 2.1	02/16/2022			02/18/2022 18:03	Roberta Tatti	2306032
	02/16/2022			02/18/2022 18:14	Roberta Tatti	2306035
	02/16/2022			02/22/2022 14:56	Roberta Tatti	2306029
EPA 350.1 Rev. 2.0	02/16/2022			02/25/2022 15:27	Ping Hua	2306030
	02/16/2022			02/25/2022 15:28	Ping Hua	2306033
	02/16/2022			02/25/2022 15:31	Ping Hua	2306036
EPA 351.2 Rev. 2.0	02/16/2022	02/18/2022 10:12	Samantha L Bates	02/22/2022 10:51	Alexandra J Mattheus	2306030
	02/16/2022	02/18/2022 10:12	Samantha L Bates	02/22/2022 10:59	Alexandra J Mattheus	2306033
	02/16/2022	02/18/2022 10:12	Samantha L Bates	02/22/2022 11:00	Alexandra J Mattheus	2306036
EPA 353.2 Rev. 2.0	02/16/2022			02/23/2022 09:53	Beverly Y. Sanders	2306030
	02/16/2022			02/23/2022 09:54	Beverly Y. Sanders	2306033
	02/16/2022			02/23/2022 09:55	Beverly Y. Sanders	2306036
EPA 365.1 Rev. 2.0	02/16/2022	02/17/2022 14:00	Simonne.V. Calhoun	02/18/2022 14:40	Shengyu Ding	2306030
	02/16/2022	02/17/2022 14:00	Simonne.V. Calhoun	02/18/2022 14:42	Shengyu Ding	2306033
	02/16/2022	02/17/2022 14:00	Simonne.V. Calhoun	02/22/2022 17:55	Sarah A Nixon	2306036
EPA 365.1 Rev. 2.0 dissolved	02/16/2022			02/16/2022 14:39	James L Waggeberby	2306031
	02/16/2022			02/16/2022 14:43	James L Waggeberby	2306034, 2306037
EPA 8270E	02/16/2022	02/18/2022 08:30	Rasheda Ghaffari	02/22/2022 22:48	Vandana T. Nagar	2306047
	02/16/2022	02/18/2022 08:30	Rasheda Ghaffari	03/01/2022 03:47	Michael Poppell	2306047
	02/16/2022	02/21/2022 08:30	Rasheda Ghaffari	02/22/2022 17:57	Michael Poppell	2306048
	02/16/2022	02/21/2022 08:30	Rasheda Ghaffari	02/22/2022 18:22	Michael Poppell	2306049
	02/16/2022	02/21/2022 08:30	Rasheda Ghaffari	02/24/2022 15:16	Michael Poppell	2306048
	02/16/2022	02/21/2022 08:30	Rasheda Ghaffari	02/24/2022 15:41	Michael Poppell	2306048
	02/16/2022	02/21/2022 08:30	Rasheda Ghaffari	02/24/2022 16:32	Michael Poppell	2306049
	02/16/2022	02/21/2022 08:30	Rasheda Ghaffari	03/01/2022 00:07	Lipi Saha	2306048
	02/16/2022	02/21/2022 08:30	Rasheda Ghaffari	03/01/2022 00:32	Lipi Saha	2306049
	02/16/2022	02/18/2022 08:30	Rasheda Ghaffari	02/23/2022 10:15	Arthur Maknenko	2306047
EPA 8276	02/16/2022	02/16/2022 14:00	June Rhew	02/18/2022 02:48	Juyoung Kim	2306046
EPA 8321B	02/16/2022	02/18/2022 09:00	Umesh Chiluwal	02/18/2022 20:17	Manjita Shrestha	2306046
	02/16/2022	02/18/2022 09:00	Umesh Chiluwal	02/19/2022 19:15	Umesh Chiluwal	2306046
	02/16/2022	02/18/2022 10:00	June Rhew	02/19/2022 14:54	Juyoung Kim	2306045
SM 2320 B-2011	02/16/2022			02/17/2022 20:49	Dale L. Simmons	2306029
	02/16/2022			02/17/2022 22:01	Dale L. Simmons	2306035
	02/16/2022			02/18/2022 00:04	Dale L. Simmons	2306032

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2540 C-2011	02/16/2022			02/18/2022 15:06	Yijie Li	2306029, 2306032, 2306035
SM 2540 D-2011	02/16/2022			02/18/2022 15:06	Yijie Li	2306029, 2306032, 2306035
SM 4500 F-C-2011	02/16/2022			02/17/2022 20:49	Dale L. Simmons	2306029
	02/16/2022			02/17/2022 22:01	Dale L. Simmons	2306035
	02/16/2022			02/18/2022 00:04	Dale L. Simmons	2306032
SM 5310 B-2011	02/16/2022			03/01/2022 18:31	Nathaniel J Jones	2306033
	02/16/2022			03/01/2022 21:47	Nathaniel J Jones	2306030
	02/16/2022			03/01/2022 22:22	Nathaniel J Jones	2306036