

Chemical Analysis Report

SW-DIST-2022-08-31-02

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **LVI**
Request ID: **RQ-2022-08-22-10**
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
Attn: Ben Paswater

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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 20-SEP-2022 10:08



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: Clark Lake @ NW end of Southern Quarter

Collection Date/Time: 08/30/2022 10:20

Field ID: G3SW0105

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353168	DEP SOP: NU-094-1	Color (true)	22	A	PCU	P418967	
	EPA 180.1 Rev. 2.0	Turbidity	31		NTU	P418945	
	EPA 300.0 Rev. 2.1	Chloride	99		mg Cl/L	P419469	
		Sulfate	130		mg SO4/L	P419742	
	SM 2320 B-2011	Total Alkalinity	95		mg CaCO3/L	P419034	
	SM 2540 C-2011	TDS	380		mg/L	P419427	
	SM 2540 D-2011	TSS	42	I	mg/L	P419317	
	SM 4500-F- C-2011	Fluoride	0.70		mg F/L	P419622	
2353169	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P419144	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	4.8		mg N/L	P418962	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P419212	
	EPA 365.1 Rev. 2.0	Total-P	0.30		mg P/L	P419037	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P419185	
2353170	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P418943	
2353172	EPA 8321B	Aldicarb	0.020	U	ug/L	P418942	
		Aldicarb Sulfone	0.0020	U	ug/L	P418942	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P418942	
		Carbaryl	0.0020	U	ug/L	P418942	
		Carbofuran	0.0020	U	ug/L	P418942	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P418942	
		Methiocarb	0.0020	U	ug/L	P418942	
		Methomyl	0.0020	U	ug/L	P418942	
		Oxamyl	0.0020	U	ug/L	P418942	
		Propoxur	0.0020	U	ug/L	P418942	
2353173		2,4-D	0.018		ug/L	P418839	
		Acesulfame K	0.10	U	ug/L	P418802	
		2,4,5-T	0.0040	U	ug/L	P418839	
		AMPA	0.10	U	ug/L	P418802	
		Acetaminophen	0.0080	U	ug/L	P418839	
		Acetamiprid	0.0020	U	ug/L	P418839	
		Endothall	0.25	U	ug/L	P418802	
		Glufosinate	0.10	U	ug/L	P418802	
		Glyphosate	0.25	I	ug/L	P418802	
		Afidopyropen	0.0020	U	ug/L	P418839	
		Bentazon	0.0020	I	ug/L	P418839	
		Sucralose	0.072		ug/L	P418802	
		Benzovindiflupyr	0.0020	U	ug/L	P418839	
		Carbamazepine	8.0E-04	U	ug/L	P418839	
		Clothianidin	0.0020	U	ug/L	P418839	
		Dinotefuran	0.0020	U	ug/L	P418839	
		Diuron	0.0045	I	ug/L	P418839	
		Fenuron	0.032	U	ug/L	P418839	
		Fluridone	0.0066		ug/L	P418839	

Field ID: G3SW0105

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353173	EPA 8321B	Imazapyr	0.13		ug/L	P418839	
		Hydrocodone	0.0020	U	ug/L	P418839	
		Ibuprofen	0.080	U	ug/L	P418839	
		Imidacloprid	0.0020	U	ug/L	P418839	
		Linuron	0.0040	U	ug/L	P418839	
		Mandestrobin	0.0020	U	ug/L	P418839	
		MCP	0.0040	U	ug/L	P418839	
		Naproxen	0.0080	U	ug/L	P418839	
		Primidone	0.0040	U	ug/L	P418839	MS
		Pyraclostrobin	0.0020	U	ug/L	P418839	
		Silvex	0.0040	U	ug/L	P418839	
		Thiamethoxam	0.0020	U	ug/L	P418839	
		Tolfenpyrad	0.0020	U	ug/L	P418839	
		Triclopyr	0.0040	U	ug/L	P418839	
2353176	EPA 8270E	Aldrin	0.70	UJ	ng/L	P419031	SUR
		Alpha-BHC	0.11	UJ	ng/L	P419031	SUR
		Alpha-Chlordane	0.22	UJ	ng/L	P419031	SUR
		PCB-1016	2.2	UJ	ng/L	P419031	SUR
		Beta-BHC	0.11	UJ	ng/L	P419031	SUR
		PCB-1221	2.2	UJ	ng/L	P419031	SUR
		Beta-Cyfluthrin	1.4	UJ	ng/L	P419031	SUR
		PCB-1232	2.2	UJ	ng/L	P419031	SUR
		Bifenthrin	0.54	UJ	ng/L	P419031	SUR
		PCB-1242	2.2	UJ	ng/L	P419031	SUR
		PCB-1248	2.2	UJ	ng/L	P419031	SUR
		Chlorothalonil	1.4	UJ	ng/L	P419031	SUR
		PCB-1254	2.2	UJ	ng/L	P419031	SUR
		Cis-Nonachlor	0.22	UJ	ng/L	P419031	SUR
		PCB-1260	2.2	UJ	ng/L	P419031	SUR
		Cypermethrin	1.6	UJ	ng/L	P419031	SUR
		Dacthal	0.16	UJ	ng/L	P419031	SUR
		DDD-p,p'	0.27	UJ	ng/L	P419031	SUR
		DDE-p,p'	0.22	UJ	ng/L	P419031	SUR
		DDT-p,p'	0.27	UJ	ng/L	P419031	SUR
		Delta-BHC	0.43	UJ	ng/L	P419031	SUR
		Deltamethrin	1.4	UJ	ng/L	P419031	SUR
		Dichlobenil	0.27	UJ	ng/L	P419031	SUR
		Dicofol	1.4	UJ	ng/L	P419031	SUR
		Dieldrin	0.43	UJ	ng/L	P419031	SUR
		Endosulfan I	0.43	UJ	ng/L	P419031	SUR
		Endosulfan II	0.43	UJ	ng/L	P419031	SUR
		Endosulfan Sulfate	0.33	UJ	ng/L	P419031	SUR
		Endrin	0.43	UJ	ng/L	P419031	SUR
		Endrin Aldehyde	0.81	UJ	ng/L	P419031	SUR
		Endrin Ketone	0.43	UJ	ng/L	P419031	SUR

Field ID: G3SW0105

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2353176	EPA 8270E	Esfenvalerate	0.81	UJ	ng/L	P419031	SUR	
		Ethalfuralin	0.16	UJ	ng/L	P419031	SUR	
		Fenpropathrin	0.27	UJ	ng/L	P419031	SUR	
		Gamma-BHC	0.14	UJ	ng/L	P419031	LCS, SUR	
		Gamma-Chlordane	0.22	UJ	ng/L	P419031	SUR	
		Heptachlor	0.22	UJ	ng/L	P419031	SUR	
		Heptachlor Epoxide	0.27	UJ	ng/L	P419031	SUR	
		Hexachlorobenzene**	1.1	UJ	ng/L	P419031	SUR	
		Kepone	5.4	UJ	ng/L	P419031	CCV, SUR	
		Lambda-Cyhalothrin	0.81	UJ	ng/L	P419031	SUR	
		Methoprene	0.81	UJ	ng/L	P419031	SUR	
		Methoxychlor	0.33	UJ	ng/L	P419031	SUR	
		MGK-264	0.22	UJ	ng/L	P419031	SUR	
		Mirex	0.38	UJ	ng/L	P419031	SUR	
		Oxychlordane	0.33	UJ	ng/L	P419031	SUR	
		Permethrin	1.7	UJ	ng/L	P419031	SUR	
		Phenothrin	0.98	UJ	ng/L	P419031	SUR	
		Piperonyl Butoxide	0.16	UJ	ng/L	P419031	SUR	
		Prallethrin	11	J	ng/L	P419031	SUR	
		Tau-Fluvalinate	0.27	UJ	ng/L	P419031	SUR	
		Tetramethrin	0.81	UJ	ng/L	P419031	SUR	
		Trans-Nonachlor	0.22	UJ	ng/L	P419031	SUR	
		Triclosan Methyl	0.16	UJ	ng/L	P419031	SUR	
		Trifluralin	0.22	UJ	ng/L	P419031	SUR	
	EPA 8276	Chlordane	2.7	U	ng/L	P419031		
		Toxaphene	16	U	ng/L	P419031		
	2353177	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P418990	
			Acetochlor	0.24	U	ng/L	P418990	RPD
			Octinoxate**	19	U	ng/L	P418990	
			Alachlor	0.24	U	ng/L	P418990	RPD
Avobenzone**			96	U	ng/L	P418990	RPD	
Ametryn			0.58	U	ng/L	P418990		
Atrazine			12		ng/L	P418990		
PBDE-47**			3.9	U	ng/L	P418990		
Atrazine Desethyl			1.4	U	ng/L	P418990		
PBDE-99**			4.8	U	ng/L	P418990		
Azinphos Methyl			1.9	U	ng/L	P418990		
Tri-o-cresyl Phosphate**			5.8	U	ng/L	P418990		
Azoxystrobin			0.48	U	ng/L	P418990		
Bromacil			0.48	U	ng/L	P418990		
2-Ethylhexyl			12	U	ng/L	P418990		
2,3,4,5-tetrabromobenzoate (EHTBB)**								
Butylate			0.39	U	ng/L	P418990		
Dechlorane Plus**			29	U	ng/L	P418990	RPD	
Caffeine**			18	I	ng/L	P418990		

Field ID: G3SW0105

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353177	EPA 8270E	Carbophenothion	0.19	U	ng/L	P418990	RPD
		Carfentrazone Ethyl	0.096	U	ng/L	P418990	RPD
		Chlorfenapyr	0.17	U	ng/L	P418990	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P418990	
		Chlorpyrifos Methyl	0.048	U	ng/L	P418990	RPD
		Coumaphos	0.48	U	ng/L	P418990	RPD
		Cyanazine	3.1	U	ng/L	P418990	
		Cyprodinil	0.096	U	ng/L	P418990	
		Demeton	1.4	U	ng/L	P418990	RPD
		Diazinon	0.12	U	ng/L	P418990	RPD
		Difenoconazole	0.58	U	ng/L	P418990	RPD
		Dimethenamid	0.096	U	ng/L	P418990	MS, RPD
		Dimethomorph	1.1		ng/L	P418990	RPD
		Disulfoton	0.48	U	ng/L	P418990	
		Dithiopyr	0.17	U	ng/L	P418990	RPD
		EPTC	1.2	U	ng/L	P418990	
		Ethion	0.14	U	ng/L	P418990	
		Ethoprop	0.096	U	ng/L	P418990	
		Etridiazole	0.14	U	ng/L	P418990	MS, RPD
		Fenamiphos	0.48	U	ng/L	P418990	
		Fenbuconazole	0.12	U	ng/L	P418990	
		Fipronil	0.24	U	ng/L	P418990	
		Fipronil Desulfinyl**	0.63		ng/L	P418990	RPD
		Fipronil Sulfide	0.18	I	ng/L	P418990	
		Fipronil Sulfone	0.58		ng/L	P418990	
		Fluazifop-P-butyl	0.096	U	ng/L	P418990	RPD
		Fludioxonil	0.12	U	ng/L	P418990	RPD
		Flumioxazin	1.7	U	ng/L	P418990	
		Flutolanil	0.096	U	ng/L	P418990	RPD
		Fluxapyroxad	0.096	U	ng/L	P418990	
		Fonofos	0.19	U	ng/L	P418990	RPD
		Hexazinone	0.48	U	ng/L	P418990	
		Imazalil	0.72	UJ	ng/L	P418990	LCS, MS, RPD
		Iprodione	0.58	U	ng/L	P418990	
		Loratadine**	0.096	U	ng/L	P418990	RPD
		Malathion	0.34	U	ng/L	P418990	
		Metalaxyl	0.72	U	ng/L	P418990	
		Metolachlor	0.37	I	ng/L	P418990	
		Metribuzin	2.4	U	ng/L	P418990	
		Mevinphos	1.0	U	ng/L	P418990	
		Molinate	0.29	U	ng/L	P418990	
		Myclobutanil	0.24	U	ng/L	P418990	RPD
		Naled	1.4	U	ng/L	P418990	RPD
		Napropamide	0.39	U	ng/L	P418990	

Field ID: G3SW0105

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353177	EPA 8270E	Norflurazon	0.48	U	ng/L	P418990	
		Oxadiazon	0.29	U	ng/L	P418990	RPD
		Oxyfluorfen	0.14	U	ng/L	P418990	RPD
		Parathion Ethyl	0.24	U	ng/L	P418990	RPD
		Parathion Methyl	0.53	U	ng/L	P418990	RPD
		Pendimethalin	0.96	U	ng/L	P418990	
		Phenytol**	3.4	U	ng/L	P418990	
		Phorate	0.51	U	ng/L	P418990	
		Prodiamine	0.17	U	ng/L	P418990	
		Prometon	0.87	U	ng/L	P418990	RPD
		Prometryn	0.19	U	ng/L	P418990	RPD
		Pronamide	0.14	U	ng/L	P418990	
		Propanil	0.12	U	ng/L	P418990	
		Propargite	1.4	U	ng/L	P418990	RPD
		Propiconazole	0.48	U	ng/L	P418990	
		Pyraflufen Ethyl	0.24	U	ng/L	P418990	RPD
		Pyridaben	0.43	U	ng/L	P418990	RPD
		Pyriproxyfen	0.12	U	ng/L	P418990	
		Simazine	0.48	U	ng/L	P418990	
		Stirophos	0.12	U	ng/L	P418990	
		Sulfentrazone	0.48	U	ng/L	P418990	
		Tebuconazole	0.48	U	ng/L	P418990	
		Terbufos	0.096	U	ng/L	P418990	
		Terbuthylazine	0.41	U	ng/L	P418990	MS, RPD
		Thiobencarb	0.58	U	ng/L	P418990	
		Triadimefon	0.24	U	ng/L	P418990	
2353180	EPA 200.7 Rev. 4.4	Calcium	51.7		mg/L	P418968	
		Iron	30	U	ug/L	P418968	
		Magnesium	34.6		mg/L	P418968	
		Potassium	5.5		mg/L	P418968	
		Sodium	56.3		mg/L	P418968	
		Strontium	835		ug/L	P418968	
		Tin	3.0	U	ug/L	P418968	
		Titanium	0.96	I	ug/L	P418968	
		Vanadium	2.0	U	ug/L	P418968	
		Zinc	5.0	U	ug/L	P418968	
	EPA 200.8 Rev. 5.4	Aluminum	50		ug/L	P418968	
		Antimony	0.46		ug/L	P418968	
		Arsenic	6.17		ug/L	P418968	
		Barium	34.7		ug/L	P418968	
		Beryllium	0.010	U	ug/L	P418968	
		Boron	28.6		ug/L	P418968	
		Cadmium	0.020	U	ug/L	P418968	
		Chromium	0.40	U	ug/L	P418968	
		Cobalt	0.069	I	ug/L	P418968	

Field ID: G3SW0105

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353180	EPA 200.8 Rev. 5.4	Copper	0.60	I	ug/L	P418968	
		Lead	0.20	U	ug/L	P418968	
		Manganese	12.7		ug/L	P418968	
		Molybdenum	0.89		ug/L	P418968	
		Nickel	0.50	U	ug/L	P418968	
		Selenium	0.20	U	ug/L	P418968	
		Silver	0.010	U	ug/L	P418968	
		Thallium	0.10	U	ug/L	P418968	

Ref. Method and Comment:
 SM 2540 C-2011: The reported result is consistent with the conductivity measured in the laboratory, 776 µmhos/cm.
 SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The PQL was elevated because of sample matrix interference.
 EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
 EPA 8270E: Surrogate failures were observed in both original extraction and re-extraction. Analytical results were confirmed except for prallethrin that was a nondetect in the re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.
 EPA 8270E: Surrogate failures were observed in both original extraction and re-extraction. Analytical results were confirmed. 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.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P418967

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418945

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418968

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: P418968

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: P419469

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

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Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419742

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419144

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418962

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419212

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419037

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P418943

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

Reference Method: EPA 8270E
Batch ID: P418990

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
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

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Reference Method: EPA 8270E

Batch ID: P418990

Component	Result	Code	Units
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
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	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	0.21	I	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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418990

Component	Result	Code	Units
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
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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418990

Component	Result	Code	Units
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
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	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	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L

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Reference Method: EPA 8270E

Batch ID: P418990

Component	Result	Code	Units
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P419031

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
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L

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Reference Method: EPA 8270E

Batch ID: P419031

Component	Result	Code	Units
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	0.35	U	ng/L
Mirex	0.35	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
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L

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Reference Method: EPA 8270E

Batch ID: P419031

Component	Result	Code	Units
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: P419031

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: P418802

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: P418839

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

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Reference Method: EPA 8321B

Batch ID: P418839

Component	Result	Code	Units
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	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: P418942

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: P419034

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

Reference Method: SM 2540 C-2011

Batch ID: P419427

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P419317

Component	Result	Code	Units
TSS	2	U	mg/L

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Reference Method: SM 4500-F- C-2011
Batch ID: P419622

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P419185

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: P418967

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418945

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.3		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418968

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	110		P	85 - 115
Iron	113		P	85 - 115
Magnesium	111		P	85 - 115
Potassium	108		P	85 - 115
Sodium	106		P	85 - 115
Strontium	106		P	85 - 115
Tin	111		P	85 - 115
Titanium	110		P	85 - 115
Vanadium	108		P	85 - 115
Zinc	109		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418968

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.9		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	99.1		P	85 - 115
Barium	102		P	85 - 115
Beryllium	97.9		P	85 - 115
Boron	103		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	98.0		P	85 - 115
Cobalt	96.5		P	85 - 115
Copper	103		P	85 - 115
Lead	99.1		P	85 - 115
Manganese	100		P	85 - 115
Molybdenum	104		P	85 - 115
Nickel	96.6		P	85 - 115
Selenium	92.0		P	85 - 115
Silver	96.1		P	85 - 115
Thallium	99.0		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419469

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419742

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: P419144

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419212

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419037

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: P418943

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

Reference Method: EPA 8270E
Batch ID: P418990

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	59.7		P	50 - 150
Acetochlor	73.7		P	70 - 121
Alachlor	68.6		P	68 - 119
Ametryn	76.5		P	64 - 139
Atrazine	79.0		P	76 - 120
Atrazine Desethyl	52.1		P	44 - 126
Avobenzone	62.2		P	59 - 206
Azinphos Methyl	90.2		P	43 - 192
Azoxystrobin	79.5		P	36 - 224
Bromacil	71.4		P	52 - 121
Butylate	52.7		P	28 - 91.0
Caffeine	61.3		P	50 - 134
Carbophenothion	74.5		P	56 - 129
Carfentrazone Ethyl	82.5		P	60 - 141
Chlorfenapyr	76.0		P	56 - 115
Chlorpyrifos Ethyl	74.5		P	60 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P418990

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	74.8		P	68 - 119
Coumaphos	80.1		P	18 - 250
Cyanazine	83.7		P	61 - 250
Cyprodinil	66.4		P	55 - 145
Dechlorane Plus	64.9		P	50 - 150
Demeton	60.6		P	30 - 159
Diazinon	71.3		P	70 - 123
Difenoconazole	84.9		P	49 - 204
Dimethenamid	64.6		P	64 - 115
Dimethomorph	70.3		P	12 - 219
Disulfoton	68.9		P	44 - 125
Dithiopyr	78.6		P	64 - 115
EPTC	47.2		P	28 - 86.0
Ethion	76.6		P	33 - 125
Ethoprop	68.3		P	64 - 116
Etridiazole	45.1		P	34 - 91.0
Fenamiphos	76.0		P	12 - 127
Fenbuconazole	76.8		P	59 - 151
Fipronil	71.5		P	67 - 129
Fipronil Desulfinyl	84.8		P	65 - 127
Fipronil Sulfide	73.4		P	61 - 116
Fipronil Sulfone	60.5		P	55 - 117
Fluazifop-P-butyl	75.0		P	62 - 127
Fludioxonil	65.0		P	62 - 128
Flumioxazin	81.0		P	33 - 250
Flutolanil	71.9		P	56 - 127
Fluxapyroxad	71.8		P	45 - 128
Fonofos	66.3		P	62 - 111
Hexazinone	79.0		P	46 - 139
Imazalil	32.9		F	38 - 142
Iprodione	84.5		P	47 - 135
Loratadine	71.1		P	10 - 244
Malathion	79.0		P	61 - 139
Metaxyl	71.1		P	10 - 119
Metolachlor	69.2		P	65 - 118
Metribuzin	71.0		P	51 - 250
Mevinphos	63.1		P	53 - 121
Molinate	57.1		P	42 - 96.0
Myclobutanil	67.6		P	55 - 128
Naled	75.9		P	10 - 98.0
Napropamide	65.9		P	49 - 121
Norflurazon	67.2		P	61 - 126
Octinoxate	56.3		P	30 - 159
Oxadiazon	61.0		P	59 - 116
Oxybenzone	59.1		P	59 - 147
Oxyfluorfen	83.9		P	64 - 137
Parathion Ethyl	77.2		P	70 - 112
Parathion Methyl	88.4		P	76 - 133
PBDE-47	61.3		P	50 - 150
PBDE-99	61.2		P	50 - 150
Pendimethalin	57.7		P	52 - 117
Phenytol	55.3		P	10 - 199

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418990

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	58.0		P	48 - 121
Prodiamine	32.2		P	26 - 142
Prometon	66.0		P	43 - 123
Prometryn	73.4		P	66 - 127
Pronamide	86.4		P	75 - 121
Propanil	73.1		P	45 - 150
Propargite	71.1		P	42 - 208
Propiconazole	67.5		P	60 - 125
Pyraflufen Ethyl	70.7		P	70 - 138
Pyridaben	72.1		P	35 - 245
Pyriproxyfen	68.3		P	30 - 149
Simazine	76.5		P	72 - 125
Stirophos	81.0		P	29 - 164
Sulfentrazone	76.7		P	21 - 139
Tebuconazole	63.4		P	10 - 115
Terbufos	77.4		P	60 - 123
Terbuthylazine	75.6		P	72 - 115
Thiobencarb	63.6		P	31 - 139
Tri-o-cresyl Phosphate	65.0		P	50 - 150
Triadimefon	66.9		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P419031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.0		P	10 - 92.0
Alpha-BHC	78.0		P	75 - 107
Alpha-Chlordane	60.5		P	50 - 108
Beta-BHC	86.6		P	36 - 138
Beta-Cyfluthrin	53.8		P	20 - 161
Bifenthrin	34.5		P	10 - 119
Chlorothalonil	65.4		P	26 - 186
Cis-Nonachlor	56.2		P	42 - 119
Cypermethrin	53.6		P	22 - 150
Dacthal	75.4		P	72 - 119
DDD-p,p'	64.6		P	45 - 107
DDE-p,p'	61.4		P	48 - 106
DDT-p,p'	72.9		P	48 - 110
Delta-BHC	92.6		P	54 - 140
Deltamethrin	44.1		P	22 - 189
Dichlobenil	77.5		P	36 - 117
Dicofol	72.9		P	46 - 155
Dieldrin	65.9		P	54 - 110
Endosulfan I	69.1		P	59 - 105
Endosulfan II	71.2		P	51 - 118
Endosulfan Sulfate	75.2		P	57 - 121
Endrin	66.8		P	10 - 120
Endrin Aldehyde	64.2		P	34 - 118
Endrin Ketone	122		P	69 - 177
Esfenvalerate	50.4		P	23 - 168
Ethalfuralin	73.4		P	49 - 99.0
Fenpropathrin	54.3		P	34 - 117

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P419031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-BHC	71.6		F	72 - 117
Gamma-Chlordane	61.3		P	43 - 106
Heptachlor	63.0		P	41 - 98.0
Heptachlor Epoxide	68.8		P	57 - 106
Hexachlorobenzene	63.5		P	36 - 99.0
Kepone	181		P	16 - 215
Lambda-Cyhalothrin	45.7		P	21 - 177
Methoprene	37.3		P	10 - 119
Methoxychlor	75.3		P	60 - 112
MGK-264	71.4		P	26 - 122
Mirex	46.0		P	10 - 169
Oxychlordane	68.1		P	43 - 105
PCB-1016	92.9		P	48 - 112
PCB-1260	92.8		P	44 - 118
Permethrin	51.8		P	24 - 148
Phenothrin	37.2		P	10 - 106
Piperonyl Butoxide	75.0		P	10 - 139
Prallethrin	64.9		P	17 - 109
Tau-Fluvalinate	44.2		P	13 - 131
Tetramethrin	73.2		P	10 - 132
Trans-Nonachlor	60.5		P	44 - 106
Triclosan Methyl	67.3		P	59 - 109
Trifluralin	66.9		P	44 - 101

Reference Method: EPA 8276

Batch ID: P419031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	79.9		P	61 - 116
Toxaphene	82.6		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P418802

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	104		P	40 - 150
Endothall	97.1		P	40 - 150
Glufosinate	103		P	40 - 150
Glyphosate	99.6		P	40 - 150
Sucralose	97.7		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P418839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	72.6		P	40 - 150
2,4,5-T	67.1		P	40 - 150
Acetaminophen	108		P	30 - 150
Acetamiprid	72.1		P	40 - 150
Afidopyropen	62.7		P	30 - 150
Bentazon	82.1		P	30 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P418839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	70.1		P	40 - 150
Carbamazepine	81.4		P	40 - 150
Clothianidin	77.8		P	40 - 150
Dinotefuran	73.6		P	40 - 150
Diuron	89.0		P	40 - 150
Fenuron	99.5		P	40 - 150
Fluridone	84.5		P	40 - 150
Hydrocodone	112		P	40 - 150
Ibuprofen	59.2		P	40 - 150
Imazapyr	73.8		P	40 - 150
Imidacloprid	93.3		P	40 - 150
Linuron	90.9		P	40 - 150
Mandestrobin	86.3		P	40 - 150
MCPP	75.2		P	40 - 150
Naproxen	84.3		P	40 - 150
Primidone	70.9		P	40 - 150
Pyraclostrobin	83.0		P	40 - 150
Silvex	59.1		P	40 - 150
Thiamethoxam	97.2		P	40 - 150
Tolfenpyrad	44.1		P	30 - 150
Triclopyr	54.9		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P418942

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	53.0		P	40 - 150
Aldicarb	65.9		P	30 - 150
Aldicarb Sulfone	98.1		P	40 - 150
Aldicarb Sulfoxide	88.6		P	40 - 150
Carbaryl	80.8		P	40 - 150
Carbofuran	87.4		P	40 - 150
Methiocarb	98.9		P	40 - 150
Methomyl	92.8		P	40 - 150
Oxamyl	93.8		P	40 - 150
Propoxur	87.6		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P419034

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	94 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P419622

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.6		P	96 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P419185

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 200.7 Rev. 4.4

Batch ID: P418968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353008	Calcium	106		P	80 - 120
2353008	Iron	111		P	80 - 120
2353008	Magnesium	103		P	80 - 120
2353008	Potassium	107		P	80 - 120
2353008	Sodium	103		P	80 - 120
2353008	Strontium	104		P	80 - 120
2353008	Tin	112		P	80 - 120
2353008	Titanium	110		P	80 - 120
2353008	Vanadium	109		P	80 - 120
2353008	Zinc	108		P	80 - 120
2353098	Calcium	109	111	P/P	80 - 120
2353098	Iron	109	112	P/P	80 - 120
2353098	Magnesium	107	110	P/P	80 - 120
2353098	Potassium	107	108	P/P	80 - 120
2353098	Sodium	109	111	P/P	80 - 120
2353098	Strontium	102	105	P/P	80 - 120
2353098	Tin	108	108	P/P	80 - 120
2353098	Titanium	107	109	P/P	80 - 120
2353098	Vanadium	105	106	P/P	80 - 120
2353098	Zinc	106	104	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353008	Aluminum	98.9		P	80 - 120
2353008	Antimony	103		P	80 - 120
2353008	Arsenic	99.6		P	80 - 120
2353008	Barium	100		P	80 - 120
2353008	Beryllium	95.4		P	80 - 120
2353008	Boron	107		P	80 - 120
2353008	Cadmium	98.6		P	80 - 120
2353008	Chromium	99.3		P	80 - 120
2353008	Cobalt	94.7		P	80 - 120
2353008	Copper	98.8		P	80 - 120
2353008	Lead	99.2		P	80 - 120
2353008	Manganese	97.5		P	80 - 120
2353008	Molybdenum	104		P	80 - 120
2353008	Nickel	93.9		P	80 - 120
2353008	Selenium	90.8		P	80 - 120
2353008	Silver	93.2		P	80 - 120
2353008	Thallium	101		P	80 - 120
2353098	Aluminum	97.8	97.4	P/P	80 - 120
2353098	Antimony	103	102	P/P	80 - 120
2353098	Arsenic	98.8	99.2	P/P	80 - 120
2353098	Barium	102	101	P/P	80 - 120
2353098	Beryllium	99.0	97.7	P/P	80 - 120
2353098	Boron	100	100	P/P	80 - 120
2353098	Cadmium	98.5	98.4	P/P	80 - 120
2353098	Chromium	97.8	96.5	P/P	80 - 120
2353098	Cobalt	96.2	95.0	P/P	80 - 120
2353098	Copper	104	104	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353098	Lead	99.7	99.7	P/P	80 - 120
2353098	Manganese	98.4	97.4	P/P	80 - 120
2353098	Molybdenum	104	103	P/P	80 - 120
2353098	Nickel	96.1	95.3	P/P	80 - 120
2353098	Selenium	90.7	91.3	P/P	80 - 120
2353098	Silver	94.5	94.3	P/P	80 - 120
2353098	Thallium	99.3	100	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P419469

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353292	Chloride	98.8		P	90 - 110
2353293	Chloride	99.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P419742

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353690	Sulfate	95.1		P	90 - 110
2354011	Sulfate	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P419144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353616	Ammonia-N	98.2	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P419212

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353106	NO2NO3-N	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P419037

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353169	Total-P	95.4	99.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P418943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353108	O-Phosphate-P	96.0	97.6	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P418990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353329	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	77.6	104	P/P	50 - 150
2353329	Acetochlor	66.0	124	P/P	65 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353329	Alachlor	62.8	87.0	P/P	61 - 121
2353329	Ametryn	63.6	82.0	P/P	52 - 216
2353329	Atrazine	83.7	124	P/P	68 - 133
2353329	Atrazine Desethyl	51.2	65.6	P/P	15 - 160
2353329	Avobenzone	64.2	98.6	P/P	59 - 206
2353329	Azinphos Methyl	73.8	109	P/P	40 - 292
2353329	Azoxystrobin	75.7	113	P/P	12 - 242
2353329	Bromacil	64.2	79.9	P/P	54 - 167
2353329	Butylate	31.1	46.4	P/P	14 - 94.0
2353329	Caffeine	85.2	89.2	P/P	10 - 226
2353329	Carbophenothion	59.2	85.9	P/P	49 - 122
2353329	Carfentrazone Ethyl	61.6	85.2	P/P	53 - 138
2353329	Chlorfenapyr	84.3	109	P/P	50 - 150
2353329	Chlorpyrifos Ethyl	89.8	112	P/P	52 - 122
2353329	Chlorpyrifos Methyl	88.9	115	P/P	66 - 117
2353329	Coumaphos	60.5	85.8	P/P	50 - 220
2353329	Cyanazine	71.2	105	P/P	43 - 245
2353329	Cyprodinil	68.6	92.2	P/P	50 - 150
2353329	Dechlorane Plus	80.9	112	P/P	50 - 150
2353329	Demeton	56.3	80.1	P/P	43 - 188
2353329	Diazinon	77.2	122	P/P	69 - 131
2353329	Difenoconazole	74.4	104	P/P	34 - 231
2353329	Dimethenamid	55.0	77.2	F/P	55 - 118
2353329	Dimethomorph	70.9	98.0	P/P	50 - 150
2353329	Disulfoton	65.4	87.2	P/P	38 - 141
2353329	Dithiopyr	63.5	85.1	P/P	42 - 116
2353329	EPTC	24.9	36.0	P/P	18 - 85.0
2353329	Ethion	51.0	74.9	P/P	10 - 131
2353329	Ethoprop	70.0	83.9	P/P	65 - 129
2353329	Etridiazole	35.4	52.1	F/P	50 - 150
2353329	Fenamiphos	60.4	82.4	P/P	31 - 137
2353329	Fenbuconazole	92.0	129	P/P	57 - 160
2353329	Fipronil	67.7	89.3	P/P	62 - 132
2353329	Fipronil Desulfinyl	67.2	90.9	P/P	57 - 131
2353329	Fipronil Sulfide	52.4	66.3	P/P	15 - 138
2353329	Fipronil Sulfone	47.2	61.7	P/P	21 - 134
2353329	Fluazifop-P-butyl	57.5	84.5	P/P	54 - 133
2353329	Fludioxonil	65.1	97.6	P/P	58 - 127
2353329	Flumioxazin	94.0	124	P/P	33 - 300
2353329	Flutolanil	53.8	89.3	P/P	42 - 130
2353329	Fluxapyroxad	52.7	74.9	P/P	23 - 141
2353329	Fonofos	58.9	80.8	P/P	58 - 119
2353329	Hexazinone	73.1	100	P/P	68 - 172
2353329	Imazalil	21.3	66.1	F/P	48 - 283
2353329	Iprodione	62.4	82.4	P/P	38 - 140
2353329	Loratadine	63.8	97.4	P/P	50 - 150
2353329	Malathion	65.4	90.8	P/P	40 - 137
2353329	Metalaxyl	58.6	83.4	P/P	21 - 129
2353329	Metolachlor	58.1	91.3	P/P	55 - 122
2353329	Metribuzin	63.1	98.2	P/P	38 - 187
2353329	Mevinphos	76.9	85.0	P/P	54 - 134
2353329	Molinate	46.0	66.6	P/P	41 - 97.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P418990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353329	Myclobutanil	66.5	91.4	P/P	56 - 125
2353329	Naled	62.2	86.3	P/P	10 - 108
2353329	Napropamide	55.2	71.6	P/P	50 - 150
2353329	Norflurazon	52.7	62.7	P/P	32 - 122
2353329	Octinoxate	75.8	98.5	P/P	25 - 150
2353329	Oxadiazon	46.5	65.6	P/P	40 - 119
2353329	Oxybenzone	70.0	90.0	P/P	59 - 147
2353329	Oxyfluorfen	90.0	119	P/P	61 - 153
2353329	Parathion Ethyl	68.1	92.8	P/P	59 - 130
2353329	Parathion Methyl	82.8	111	P/P	65 - 155
2353329	PBDE-47	73.6	94.6	P/P	50 - 150
2353329	PBDE-99	70.7	93.8	P/P	50 - 150
2353329	Pendimethalin	54.1	73.3	P/P	49 - 138
2353329	Phenytoin	56.8	72.1	P/P	50 - 200
2353329	Phorate	63.4	72.0	P/P	54 - 161
2353329	Prodiamine	48.0	65.3	P/P	33 - 161
2353329	Prometon	55.4	78.1	P/P	48 - 140
2353329	Prometryn	61.6	85.8	P/P	55 - 134
2353329	Pronamide	74.0	91.2	P/P	66 - 137
2353329	Propanil	61.2	82.4	P/P	50 - 150
2353329	Propargite	94.4	140	P/P	50 - 200
2353329	Propiconazole	54.1	68.7	P/P	36 - 150
2353329	Pyraflufen Ethyl	69.9	115	P/P	50 - 150
2353329	Pyridaben	62.0	88.8	P/P	50 - 200
2353329	Pyriproxyfen	48.9	74.1	P/P	10 - 165
2353329	Simazine	62.9	78.3	P/P	57 - 145
2353329	Stirophos	51.9	69.4	P/P	50 - 150
2353329	Sulfentrazone	59.1	74.9	P/P	34 - 140
2353329	Tebuconazole	39.8	52.8	P/P	10 - 127
2353329	Terbufos	79.4	97.8	P/P	59 - 138
2353329	Terbutylazine	65.8	93.3	F/P	68 - 119
2353329	Thiobencarb	53.1	70.2	P/P	50 - 150
2353329	Tri-o-cresyl Phosphate	73.3	93.8	P/P	50 - 150
2353329	Triadimefon	53.4	67.7	P/P	50 - 150

Reference Method: EPA 8270E

Batch ID: P419031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353345	PCB-1016	89.2	94.5	P/P	46 - 111
2353345	PCB-1260	91.1	81.9	P/P	45 - 114
2353760	Aldrin	62.3	59.9	P/P	20 - 82.0
2353760	Alpha-BHC	91.8	98.2	P/P	71 - 109
2353760	Alpha-Chlordane	73.5	74.9	P/P	42 - 106
2353760	Beta-BHC	118	116	P/P	69 - 180
2353760	Beta-Cyfluthrin	88.8	86.3	P/P	18 - 175
2353760	Bifenthrin	65.9	66.6	P/P	21 - 128
2353760	Chlorothalonil	82.7	77.1	P/P	10 - 300
2353760	Cis-Nonachlor	62.8	63.1	P/P	34 - 106
2353760	Cypermethrin	88.8	86.8	P/P	22 - 158
2353760	Dacthal	91.7	89.0	P/P	54 - 116
2353760	DDD-p,p'	71.4	67.0	P/P	34 - 107

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P419031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353760	DDE-p,p'	68.8	69.7	P/P	33 - 110
2353760	DDT-p,p'	86.3	84.4	P/P	50 - 122
2353760	Delta-BHC	133	125	P/P	77 - 193
2353760	Deltamethrin	62.1	75.3	P/P	10 - 195
2353760	Dichlobenil	84.7	82.2	P/P	25 - 113
2353760	Dicofol	91.8	91.0	P/P	38 - 247
2353760	Dieldrin	74.7	75.1	P/P	45 - 118
2353760	Endosulfan I	77.2	78.3	P/P	51 - 106
2353760	Endosulfan II	83.6	81.2	P/P	37 - 122
2353760	Endosulfan Sulfate	86.1	85.0	P/P	43 - 132
2353760	Endrin	73.6	75.4	P/P	29 - 101
2353760	Endrin Aldehyde	66.3	68.3	P/P	19 - 110
2353760	Endrin Ketone	69.6	67.2	P/P	60 - 140
2353760	Esfenvalerate	88.3	87.3	P/P	26 - 199
2353760	Ethalfuralin	76.0	82.5	P/P	45 - 99.0
2353760	Fenpropathrin	73.7	74.2	P/P	35 - 120
2353760	Gamma-BHC	99.8	96.7	P/P	63 - 128
2353760	Gamma-Chlordane	74.1	73.3	P/P	40 - 104
2353760	Heptachlor	68.6	68.3	P/P	36 - 97.0
2353760	Heptachlor Epoxide	78.6	76.7	P/P	49 - 184
2353760	Hexachlorobenzene	75.6	77.3	P/P	39 - 96.0
2353760	Kepone	199	193	P/P	10 - 217
2353760	Lambda-Cyhalothrin	82.7	80.0	P/P	21 - 193
2353760	Methoprene	55.3	62.1	P/P	20 - 106
2353760	Methoxychlor	97.2	95.9	P/P	53 - 118
2353760	MGK-264	87.7	88.0	P/P	40 - 118
2353760	Mirex	58.8	59.7	P/P	26 - 92.0
2353760	Oxychlordane	77.3	76.6	P/P	44 - 99.0
2353760	Permethrin	83.0	83.8	P/P	33 - 182
2353760	Phenothrin	65.0	65.5	P/P	10 - 129
2353760	Piperonyl Butoxide	90.8	89.5	P/P	10 - 211
2353760	Prallethrin	76.8	80.7	P/P	24 - 113
2353760	Tau-Fluvalinate	82.7	83.0	P/P	14 - 149
2353760	Tetramethrin	107	107	P/P	17 - 151
2353760	Trans-Nonachlor	72.8	75.1	P/P	42 - 102
2353760	Triclosan Methyl	75.6	77.0	P/P	48 - 108
2353760	Trifluralin	76.7	75.2	P/P	47 - 96.0

Reference Method: EPA 8276

Batch ID: P419031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353345	Chlordane	78.0	72.8	P/P	53 - 126
2353345	Toxaphene	78.7	77.5	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P418802

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352891	Acesulfame K	99.6	98.9	P/P	40 - 150
2352891	AMPA	105	108	P/P	40 - 150
2352891	Endothall	92.9	96.0	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P418802

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352891	Glufosinate	96.5	94.1	P/P	40 - 150
2352891	Glyphosate	87.9	83.3	P/P	40 - 150
2352891	Sucralose	95.8	95.0	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P418839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352724	2,4-D	77.7	80.5	P/P	40 - 150
2352724	2,4,5-T	81.7	83.6	P/P	40 - 150
2352724	Acetaminophen	74.0	83.6	P/P	30 - 150
2352724	Acetamiprid	47.7	45.5	P/P	40 - 150
2352724	Afidopyropen	55.7	67.7	P/P	30 - 150
2352724	Bentazon	124	121	P/P	30 - 150
2352724	Benzovindiflupyr	78.3	83.5	P/P	40 - 150
2352724	Carbamazepine	74.1	76.9	P/P	40 - 150
2352724	Clothianidin	49.8	54.6	P/P	40 - 150
2352724	Dinotefuran	94.1	108	P/P	40 - 150
2352724	Diuron	85.6	80.7	P/P	40 - 150
2352724	Fenuron	97.5	97.1	P/P	40 - 150
2352724	Fluridone	105	106	P/P	40 - 150
2352724	Hydrocodone	104	113	P/P	40 - 150
2352724	Ibuprofen	67.1	81.2	P/P	40 - 150
2352724	Imazapyr	83.1	96.8	P/P	40 - 150
2352724	Imidacloprid	66.1	74.2	P/P	40 - 150
2352724	Linuron	91.8	99.3	P/P	40 - 150
2352724	Mandestrobin	98.0	93.3	P/P	40 - 150
2352724	MCCP	88.9	95.3	P/P	40 - 150
2352724	Naproxen	125	117	P/P	40 - 150
2352724	Primidone	44.9	35.3	P/F	40 - 150
2352724	Pyraclostrobin	92.5	94.9	P/P	40 - 150
2352724	Silvex	73.9	79.1	P/P	40 - 150
2352724	Thiamethoxam	82.0	89.7	P/P	40 - 150
2352724	Tolfenpyrad	57.1	61.2	P/P	30 - 150
2352724	Triclopyr	73.3	81.5	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P418942

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353621	3-Hydroxycarbofuran	58.8	47.4	P/P	40 - 150
2353621	Aldicarb	62.6	73.7	P/P	30 - 150
2353621	Aldicarb Sulfone	85.5	88.3	P/P	40 - 150
2353621	Aldicarb Sulfoxide	48.7	45.7	P/P	40 - 150
2353621	Carbaryl	96.6	77.3	P/P	40 - 150
2353621	Carbofuran	90.6	70.4	P/P	40 - 150
2353621	Methiocarb	105	90.6	P/P	40 - 150
2353621	Methomyl	92.6	85.9	P/P	40 - 150
2353621	Oxamyl	94.6	86.5	P/P	40 - 150
2353621	Propoxur	82.2	75.5	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P419622

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355112	Fluoride	99.7	98.5	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419185

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353034	Organic Carbon	89.1	93.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P418967

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353168	Color (true)	5.40	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418945

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353117	Turbidity	2.13	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353098	Calcium	1.63	Spike	P	0 - 20
2353098	Iron	2.55	Spike	P	0 - 20
2353098	Magnesium	2.24	Spike	P	0 - 20
2353098	Potassium	1.31	Spike	P	0 - 20
2353098	Sodium	0.952	Spike	P	0 - 20
2353098	Strontium	2.31	Spike	P	0 - 20
2353098	Tin	0.451	Spike	P	0 - 20
2353098	Titanium	2.12	Spike	P	0 - 20
2353098	Vanadium	0.996	Spike	P	0 - 20
2353098	Zinc	1.65	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353098	Aluminum	0.347	Spike	P	0 - 20
2353098	Antimony	1.41	Spike	P	0 - 20
2353098	Arsenic	0.443	Spike	P	0 - 20
2353098	Barium	0.604	Spike	P	0 - 20
2353098	Beryllium	1.25	Spike	P	0 - 20
2353098	Boron	0.0451	Spike	P	0 - 20
2353098	Cadmium	0.0424	Spike	P	0 - 20
2353098	Chromium	1.39	Spike	P	0 - 20
2353098	Cobalt	1.33	Spike	P	0 - 20
2353098	Copper	0.0407	Spike	P	0 - 20
2353098	Lead	0.0130	Spike	P	0 - 20
2353098	Manganese	0.858	Spike	P	0 - 20
2353098	Molybdenum	0.302	Spike	P	0 - 20
2353098	Nickel	0.783	Spike	P	0 - 20
2353098	Selenium	0.693	Spike	P	0 - 20
2353098	Silver	0.268	Spike	P	0 - 20
2353098	Thallium	0.918	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353292	Chloride	0.130	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419742

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353690	Sulfate	0.105	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353616	Ammonia-N	0.347	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352954	Kjeldahl Nitrogen	2.67	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419212

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353106	NO2NO3-N	0.477	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419037

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353169	Total-P	2.14	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P418943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353108	O-Phosphate-P	1.56	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P418990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353329	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	29.3	Spike	P	0 - 30
2353329	Acetochlor	54.2	Spike	F	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P418990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353329	Alachlor	32.4	Spike	F	0 - 27
2353329	Ametryn	25.2	Spike	P	0 - 34
2353329	Atrazine	25.4	Spike	P	0 - 41
2353329	Atrazine Desethyl	24.6	Spike	P	0 - 38
2353329	Avobenzone	42.1	Spike	F	0 - 30
2353329	Azinphos Methyl	38.9	Spike	P	0 - 62
2353329	Azoxystrobin	28.3	Spike	P	0 - 32
2353329	Bromacil	21.8	Spike	P	0 - 30
2353329	Butylate	39.5	Spike	P	0 - 59
2353329	Caffeine	4.54	Spike	P	0 - 60
2353329	Carbophenothion	36.8	Spike	F	0 - 25
2353329	Carfentrazone Ethyl	32.1	Spike	F	0 - 26
2353329	Chlorfenapyr	25.3	Spike	P	0 - 30
2353329	Chlorpyrifos Ethyl	22.4	Spike	P	0 - 27
2353329	Chlorpyrifos Methyl	26.0	Spike	F	0 - 26
2353329	Coumaphos	34.7	Spike	F	0 - 30
2353329	Cyanazine	38.1	Spike	P	0 - 58
2353329	Cyprodinil	29.3	Spike	P	0 - 30
2353329	Dechlorane Plus	32.2	Spike	F	0 - 30
2353329	Demeton	34.8	Spike	F	0 - 25
2353329	Diazinon	44.9	Spike	F	0 - 29
2353329	Difenoconazole	33.5	Spike	F	0 - 25
2353329	Dimethenamid	33.7	Spike	F	0 - 30
2353329	Dimethomorph	32.1	Spike	F	0 - 30
2353329	Disulfoton	28.6	Spike	P	0 - 33
2353329	Dithiopyr	27.3	Spike	F	0 - 22
2353329	EPTC	36.5	Spike	P	0 - 38
2353329	Ethion	37.9	Spike	P	0 - 79
2353329	Ethoprop	18.1	Spike	P	0 - 23
2353329	Etridiazole	38.2	Spike	F	0 - 30
2353329	Fenamiphos	30.9	Spike	P	0 - 58
2353329	Fenbuconazole	33.4	Spike	P	0 - 37
2353329	Fipronil	27.5	Spike	P	0 - 33
2353329	Fipronil Desulfanyl	29.9	Spike	F	0 - 26
2353329	Fipronil Sulfide	23.4	Spike	P	0 - 37
2353329	Fipronil Sulfone	26.6	Spike	P	0 - 50
2353329	Fluazifop-P-butyl	38.1	Spike	F	0 - 24
2353329	Fludioxonil	39.9	Spike	F	0 - 26
2353329	Flumioxazin	27.2	Spike	P	0 - 37
2353329	Flutolanil	28.3	Spike	F	0 - 26
2353329	Fluxapyroxad	30.6	Spike	P	0 - 34
2353329	Fonofos	31.3	Spike	F	0 - 27
2353329	Hexazinone	31.2	Spike	P	0 - 36
2353329	Imazalil	102	Spike	F	0 - 65
2353329	Iprodione	27.6	Spike	P	0 - 33
2353329	Loratadine	41.6	Spike	F	0 - 30
2353329	Malathion	32.5	Spike	P	0 - 44
2353329	Metalaxyl	34.9	Spike	P	0 - 38
2353329	Metolachlor	31.2	Spike	P	0 - 36
2353329	Metribuzin	43.5	Spike	P	0 - 63
2353329	Mevinphos	9.97	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P418990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353329	Molinate	36.6	Spike	P	0 - 40
2353329	Myclobutanil	31.6	Spike	F	0 - 21
2353329	Naled	32.5	Spike	F	0 - 26
2353329	Napropamide	25.9	Spike	P	0 - 30
2353329	Norflurazon	17.4	Spike	P	0 - 24
2353329	Octinoxate	26.0	Spike	P	0 - 30
2353329	Oxadiazon	34.1	Spike	F	0 - 27
2353329	Oxybenzone	25.0	Spike	P	0 - 30
2353329	Oxyfluorfen	27.8	Spike	F	0 - 24
2353329	Parathion Ethyl	30.6	Spike	F	0 - 28
2353329	Parathion Methyl	29.3	Spike	F	0 - 27
2353329	PBDE-47	24.9	Spike	P	0 - 30
2353329	PBDE-99	28.2	Spike	P	0 - 30
2353329	Pendimethalin	30.1	Spike	P	0 - 31
2353329	Phenytoin	23.8	Spike	P	0 - 30
2353329	Phorate	12.8	Spike	P	0 - 27
2353329	Prodiamine	30.6	Spike	P	0 - 52
2353329	Prometon	34.1	Spike	F	0 - 31
2353329	Prometryn	32.9	Spike	F	0 - 28
2353329	Pronamide	20.8	Spike	P	0 - 26
2353329	Propanil	29.6	Spike	P	0 - 30
2353329	Propargite	39.1	Spike	F	0 - 30
2353329	Propiconazole	23.8	Spike	P	0 - 31
2353329	Pyraflufen Ethyl	48.7	Spike	F	0 - 30
2353329	Pyridaben	35.6	Spike	F	0 - 30
2353329	Pyriproxyfen	41.1	Spike	P	0 - 50
2353329	Simazine	21.8	Spike	P	0 - 29
2353329	Stirophos	28.9	Spike	P	0 - 30
2353329	Sulfentrazone	23.5	Spike	P	0 - 33
2353329	Tebuconazole	24.7	Spike	P	0 - 44
2353329	Terbufos	20.7	Spike	P	0 - 29
2353329	Terbutylazine	34.6	Spike	F	0 - 27
2353329	Thiobencarb	27.7	Spike	P	0 - 30
2353329	Tri-o-cresyl Phosphate	24.6	Spike	P	0 - 30
2353329	Triadimefon	23.5	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P419031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353345	PCB-1016	5.78	Spike	P	0 - 32
2353345	PCB-1260	10.6	Spike	P	0 - 31
2353760	Aldrin	3.94	Spike	P	0 - 41
2353760	Alpha-BHC	6.64	Spike	P	0 - 25
2353760	Alpha-Chlordane	1.93	Spike	P	0 - 33
2353760	Beta-BHC	1.79	Spike	P	0 - 36
2353760	Beta-Cyfluthrin	2.86	Spike	P	0 - 42
2353760	Bifenthrin	1.06	Spike	P	0 - 53
2353760	Chlorothalonil	7.04	Spike	P	0 - 71
2353760	Cis-Nonachlor	0.400	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P419031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353760	Cypermethrin	2.31	Spike	P	0 - 40
2353760	Dacthal	3.05	Spike	P	0 - 26
2353760	DDD-p,p'	5.56	Spike	P	0 - 39
2353760	DDE-p,p'	1.35	Spike	P	0 - 33
2353760	DDT-p,p'	1.99	Spike	P	0 - 40
2353760	Delta-BHC	5.84	Spike	P	0 - 37
2353760	Deltamethrin	19.2	Spike	P	0 - 100
2353760	Dichlobenil	2.95	Spike	P	0 - 40
2353760	Dicofol	0.878	Spike	P	0 - 31
2353760	Dieldrin	0.562	Spike	P	0 - 27
2353760	Endosulfan I	1.45	Spike	P	0 - 23
2353760	Endosulfan II	2.97	Spike	P	0 - 28
2353760	Endosulfan Sulfate	1.31	Spike	P	0 - 38
2353760	Endrin	2.50	Spike	P	0 - 63
2353760	Endrin Aldehyde	2.98	Spike	P	0 - 60
2353760	Endrin Ketone	3.51	Spike	P	0 - 37
2353760	Esfenvalerate	1.08	Spike	P	0 - 52
2353760	Ethalfuralin	8.24	Spike	P	0 - 23
2353760	Fenpropathrin	0.729	Spike	P	0 - 32
2353760	Gamma-BHC	3.19	Spike	P	0 - 17
2353760	Gamma-Chlordane	1.13	Spike	P	0 - 40
2353760	Heptachlor	0.416	Spike	P	0 - 29
2353760	Heptachlor Epoxide	2.54	Spike	P	0 - 25
2353760	Hexachlorobenzene	2.31	Spike	P	0 - 36
2353760	Kepone	3.11	Spike	P	0 - 93
2353760	Lambda-Cyhalothrin	3.31	Spike	P	0 - 55
2353760	Methoprene	11.4	Spike	P	0 - 53
2353760	Methoxychlor	1.33	Spike	P	0 - 29
2353760	MGK-264	0.423	Spike	P	0 - 35
2353760	Mirex	1.45	Spike	P	0 - 46
2353760	Oxychlordane	0.912	Spike	P	0 - 29
2353760	Permethrin	1.02	Spike	P	0 - 44
2353760	Phenothrin	0.849	Spike	P	0 - 56
2353760	Piperonyl Butoxide	1.47	Spike	P	0 - 100
2353760	Prallethrin	4.97	Spike	P	0 - 42
2353760	Tau-Fluvalinate	0.410	Spike	P	0 - 54
2353760	Tetramethrin	0.277	Spike	P	0 - 51
2353760	Trans-Nonachlor	3.10	Spike	P	0 - 37
2353760	Triclosan Methyl	1.87	Spike	P	0 - 31
2353760	Trifluralin	2.00	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P419031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353345	Chlordane	6.83	Spike	P	0 - 25
2353345	Toxaphene	1.48	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P418802

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352891	Acesulfame K	0.674	Spike	P	0 - 30
2352891	AMPA	2.20	Spike	P	0 - 30
2352891	Endothall	3.24	Spike	P	0 - 30
2352891	Glufosinate	2.45	Spike	P	0 - 30
2352891	Glyphosate	5.37	Spike	P	0 - 30
2352891	Sucralose	0.783	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P418839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352724	2,4-D	3.61	Spike	P	0 - 30
2352724	2,4,5-T	2.26	Spike	P	0 - 30
2352724	Acetaminophen	12.1	Spike	P	0 - 30
2352724	Acetamiprid	4.64	Spike	P	0 - 30
2352724	Afidopyropen	19.4	Spike	P	0 - 30
2352724	Bentazon	1.98	Spike	P	0 - 30
2352724	Benzovindiflupyr	6.34	Spike	P	0 - 30
2352724	Carbamazepine	3.75	Spike	P	0 - 30
2352724	Clothianidin	9.25	Spike	P	0 - 30
2352724	Dinotefuran	13.7	Spike	P	0 - 30
2352724	Diuron	6.01	Spike	P	0 - 30
2352724	Fenuron	0.455	Spike	P	0 - 30
2352724	Fluridone	1.59	Spike	P	0 - 30
2352724	Hydrocodone	8.10	Spike	P	0 - 30
2352724	Ibuprofen	19.0	Spike	P	0 - 30
2352724	Imazapyr	15.2	Spike	P	0 - 30
2352724	Imidacloprid	11.5	Spike	P	0 - 30
2352724	Linuron	7.90	Spike	P	0 - 30
2352724	Mandestrobin	4.93	Spike	P	0 - 30
2352724	MCPP	6.97	Spike	P	0 - 30
2352724	Naproxen	6.99	Spike	P	0 - 30
2352724	Primidone	24.0	Spike	P	0 - 30
2352724	Pyraclostrobin	2.62	Spike	P	0 - 30
2352724	Silvex	6.75	Spike	P	0 - 30
2352724	Thiamethoxam	9.02	Spike	P	0 - 30
2352724	Tolfenpyrad	6.89	Spike	P	0 - 30
2352724	Triclopyr	10.5	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P418942

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353621	3-Hydroxycarbofuran	21.4	Spike	P	0 - 30
2353621	Aldicarb	16.3	Spike	P	0 - 30
2353621	Aldicarb Sulfone	3.25	Spike	P	0 - 30
2353621	Aldicarb Sulfoxide	6.48	Spike	P	0 - 30
2353621	Carbaryl	22.2	Spike	P	0 - 30
2353621	Carbofuran	25.1	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P418942

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353621	Methiocarb	15.1	Spike	P	0 - 30
2353621	Methomyl	7.52	Spike	P	0 - 30
2353621	Oxamyl	8.92	Spike	P	0 - 30
2353621	Propoxur	8.57	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P419034

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353215	Total Alkalinity	1.95	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P419427

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352991	TDS	7.74	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P419622

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355112	Fluoride	0.953	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P419185

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353034	Organic Carbon	3.09	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2353172
Field Sample ID: G3SW0105

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	57.2	P	30 - 160

Lab Sample ID: 2353173
Field Sample ID: G3SW0105

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	31.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	58.5	P	30 - 160
EPA 8321B	Diuron-d6	92.9	P	30 - 160
EPA 8321B	Endothall-d6	111	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	77.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	91.4	P	30 - 160
EPA 8321B	Primidone-d5	37.0	P	30 - 160
EPA 8321B	Sucralose-d6	93.4	P	30 - 160

Lab Sample ID: 2353176
Field Sample ID: G3SW0105

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	37.0	P	29 - 130
EPA 8270E	Decachlorobiphenyl	42.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	27.2	F	29 - 104
EPA 8270E	Tetrachloro-m-xylene	27.3	F	30 - 97.0
EPA 8276	Decachlorobiphenyl	35.5	P	30 - 101
EPA 8276	PCNB	53.8	P	48 - 121

Lab Sample ID: 2353177
Field Sample ID: G3SW0105

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	58.6	P	20 - 200
EPA 8270E	Simazine-d10	105	P	71 - 140
EPA 8270E	Terbufos-d10	118	P	62 - 131
EPA 8270E	Terphenyl-d14	59.1	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A114460

Included Lab Sample IDs: 2353170

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114462

Included Lab Sample IDs: 2353168

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: A114473

Included Lab Sample IDs: 2353168

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	102	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A114506

Included Lab Sample IDs: 2353168

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	105	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114544

Included Lab Sample IDs: 2353169

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114549

Included Lab Sample IDs: 2353169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.0	98.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114551

Included Lab Sample IDs: 2353173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	100	104	P/P	60 - 160
Sucralose	97.8	97.6	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A114552

Included Lab Sample IDs: 2353173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	103	102	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A114552
Included Lab Sample IDs: 2353173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endothall	98.0	88.2	P/P	60 - 160
Glufosinate	102	81.0	P/P	60 - 160
Glyphosate	95.9	97.6	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114561
Included Lab Sample IDs: 2353169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.7	94.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A114566
Included Lab Sample IDs: 2353180

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	95.4	97.4	P/P	90 - 110
Antimony	99.8	98.6	P/P	90 - 110
Arsenic	100	98.2	P/P	90 - 110
Barium	97.4	96.0	P/P	90 - 110
Boron	96.6	99.9	P/P	90 - 110
Cadmium	102	102	P/P	90 - 110
Chromium	99.2	97.6	P/P	90 - 110
Cobalt	96.7	95.7	P/P	90 - 110
Manganese	98.7	98.2	P/P	90 - 110
Nickel	97.2	95.7	P/P	90 - 110
Selenium	97.1	97.4	P/P	90 - 110
Silver	95.6	95.9	P/P	90 - 110
Thallium	101	100	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A114570
Included Lab Sample IDs: 2353169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.1	95.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A114574
Included Lab Sample IDs: 2353169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A114588
Included Lab Sample IDs: 2353180

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	103	P/P	95 - 105
Magnesium	102	105	P/P	95 - 105

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114588

Included Lab Sample IDs: 2353180

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Potassium	102	106	P/P	95 - 105
Sodium	104	106	P/P	95 - 105
Strontium	100	105	P/P	95 - 105
Tin	101	104	P/P	95 - 105
Titanium	97.7	101	P/P	95 - 105
Vanadium	98.6	102	P/P	95 - 105
Zinc	99.5	102	P/P	95 - 105

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114593

Included Lab Sample IDs: 2353180

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	97.9	96.4	P/P	90 - 110
Copper	103	102	P/P	90 - 110
Lead	94.4	95.0	P/P	90 - 110
Molybdenum	101	101	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114598

Included Lab Sample IDs: 2353177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	99.6		P	80 - 120
Ametryn	107		P	80 - 120
Atrazine	99.1		P	80 - 120
Atrazine Desethyl	104		P	80 - 120
Azinphos Methyl	114		P	80 - 120
Azoxystrobin	98.0		P	80 - 120
Bromacil	107		P	80 - 120
Butylate	101		P	80 - 120
Caffeine	89.3		P	80 - 120
Carbophenothion	107		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	108		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	110		P	80 - 120
Cyanazine	105		P	80 - 120
Cyprodinil	106		P	80 - 120
Demeton	104		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	106		P	80 - 120
Dimethenamid	106		P	80 - 120
Dimethomorph	99.1		P	80 - 120
Disulfoton	99.7		P	80 - 120
Dithiopyr	107		P	80 - 120
EPTC	99.7		P	80 - 120
Ethion	106		P	80 - 120
Ethoprop	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A114598
 Included Lab Sample IDs: 2353177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Etridiazole	98.0		P	80 - 120
Fenamiphos	97.2		P	80 - 120
Fenbuconazole	105		P	80 - 120
Fipronil	99.6		P	80 - 120
Fipronil Desulfinyl	107		P	80 - 120
Fipronil Sulfide	106		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	106		P	80 - 120
Fludioxonil	98.4		P	80 - 120
Flumioxazin	107		P	80 - 120
Flutolanil	97.6		P	80 - 120
Fluxapyroxad	108		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	99.9		P	80 - 120
Imazalil	101		P	80 - 120
Iprodione	105		P	80 - 120
Loratadine	95.1		P	80 - 120
Malathion	104		P	80 - 120
Metalaxyl	100		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	99.7		P	80 - 120
Mevinphos	99.0		P	80 - 120
Molinate	99.0		P	80 - 120
Myclobutanil	104		P	80 - 120
Naled	118		P	80 - 120
Napropamide	98.7		P	80 - 120
Norflurazon	102		P	80 - 120
Oxadiazon	100		P	80 - 120
Oxyfluorfen	109		P	80 - 120
Parathion Ethyl	98.1		P	80 - 120
Parathion Methyl	100		P	80 - 120
Pendimethalin	92.3		P	80 - 120
Phenytoin	105		P	80 - 120
Phorate	99.7		P	80 - 120
Prodiamine	112		P	80 - 120
Prometon	97.3		P	80 - 120
Prometryn	103		P	80 - 120
Pronamide	95.3		P	80 - 120
Propanil	94.4		P	80 - 120
Propargite	104		P	80 - 120
Propiconazole	106		P	80 - 120
Pyraflufen Ethyl	99.3		P	80 - 120
Pyridaben	106		P	80 - 120
Pyriproxyfen	103		P	80 - 120
Simazine	93.9		P	80 - 120
Stirophos	109		P	80 - 120
Sulfentrazone	112		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	102		P	80 - 120
Terbuthylazine	101		P	80 - 120
Thiobencarb	98.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114598
Included Lab Sample IDs: 2353177

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A114600
Included Lab Sample IDs: 2353168

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

Reference Method: EPA 8321B
Run ID: A114605
Included Lab Sample IDs: 2353173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	110	105	P/P	50 - 150
2,4,5-T	116	129	P/P	50 - 150
3-Hydroxycarbofuran	78.1	98.9	P/P	60 - 150
Acetaminophen	63.5	102	P/P	60 - 160
Acetamiprid	89.4	96.7	P/P	50 - 150
Afidopyropen	119	127	P/P	50 - 150
Aldicarb	99.3	91.6	P/P	60 - 150
Aldicarb Sulfone	101	87.7	P/P	50 - 150
Aldicarb Sulfoxide	77.2	94.8	P/P	50 - 150
Bentazon	94.6	98.6	P/P	50 - 160
Benzovindiflupyr	91.9	122	P/P	50 - 150
Carbamazepine	112	127	P/P	60 - 150
Carbaryl	113	119	P/P	60 - 150
Carbofuran	83.9	100	P/P	50 - 150
Clothianidin	93.8	113	P/P	60 - 150
Dinotefuran	74.5	105	P/P	50 - 150
Diuron	114	139	P/P	60 - 160
Fenuron	88.7	103	P/P	60 - 150
Fluridone	101	116	P/P	60 - 160
Hydrocodone	79.8	91.5	P/P	60 - 150
Ibuprofen	99.9	126	P/P	50 - 160
Imazapyr	83.4	112	P/P	50 - 150
Imidacloprid	84.3	107	P/P	60 - 150
Linuron	110	147	P/P	60 - 150
Mandestrobin	104	113	P/P	50 - 150
MCPP	105	106	P/P	50 - 150
Methiocarb	112	125	P/P	50 - 150
Methomyl	96.5	95.3	P/P	50 - 150
Naproxen	138	111	P/P	50 - 160
Oxamyl	85.7	106	P/P	50 - 150
Primidone	101	114	P/P	60 - 150
Propoxur	114	102	P/P	50 - 150
Pyraclostrobin	101	111	P/P	60 - 150
Silvex	100	108	P/P	50 - 150
Thiamethoxam	77.0	90.9	P/P	50 - 150
Tolfenpyrad	101	108	P/P	60 - 150
Triclopyr	89.9	91.5	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A114625
 Included Lab Sample IDs: 2353176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.4		P	80 - 120
Alpha-BHC	97.7		P	80 - 120
Alpha-Chlordane	108		P	80 - 120
Beta-BHC	87.8		P	80 - 120
Beta-Cyfluthrin	101		P	80 - 120
Bifenthrin	97.8		P	80 - 120
Chlorothalonil	95.2		P	80 - 120
Cis-Nonachlor	101		P	80 - 120
Cypermethrin	95.9		P	80 - 120
Dacthal	104		P	80 - 120
DDE-p,p'	102		P	80 - 120
Delta-BHC	99.3		P	80 - 120
Deltamethrin	93.5		P	80 - 120
Dichlobenil	97.4		P	80 - 120
Dicofol	97.9		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	107		P	80 - 120
Endosulfan II	110		P	80 - 120
Endosulfan Sulfate	98.4		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	90.1		P	80 - 120
Endrin Ketone	111		P	80 - 120
Esfenvalerate	102		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	103		P	80 - 120
Gamma-BHC	99.8		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	97.1		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Hexachlorobenzene	99.4		P	80 - 120
Kepone	71.8*		F	80 - 120
Lambda-Cyhalothrin	103		P	80 - 120
Methoprene	100		P	80 - 120
Methoxychlor	96.6		P	80 - 120
MGK-264	103		P	80 - 120
Mirex	101		P	80 - 120
Oxychlordane	102		P	80 - 120
Permethrin	98.5		P	80 - 120
Phenothrin	99.8		P	80 - 120
Piperonyl Butoxide	102		P	80 - 120
Prallethrin	98.1		P	80 - 120
Tau-Fluvalinate	103		P	80 - 120
Tetramethrin	93.9		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	105		P	80 - 120
Trifluralin	99.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114630
Included Lab Sample IDs: 2353176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	109		P	80 - 120
PCB-1260	98.6		P	80 - 120

Reference Method: EPA 8276
Run ID: A114662
Included Lab Sample IDs: 2353176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.0		P	80 - 120
Toxaphene	103		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114671
Included Lab Sample IDs: 2353177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.8		P	80 - 120
Avobenzone	102		P	80 - 120
Dechlorane Plus	105		P	80 - 120
Octinoxate	98.7		P	80 - 120
Oxybenzone	103		P	80 - 120
PBDE-47	101		P	80 - 120
PBDE-99	100		P	80 - 120
Tri-o-cresyl Phosphate	101		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A114674
Included Lab Sample IDs: 2353180

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	103	108	P/P	95 - 105

Reference Method: EPA 8270E
Run ID: A114682
Included Lab Sample IDs: 2353176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDD-p,p'	109		P	80 - 120
DDT-p,p'	98.3		P	80 - 120

Reference Method: SM 4500-F- C-2011
Run ID: A114739
Included Lab Sample IDs: 2353168

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

Quality Assurance Report

Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A114789

Included Lab Sample IDs: 2353168

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	100	101	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)	101				5.40	
EPA 180.1 Rev. 2.0	Turbidity	96.3				2.13	
EPA 200.7 Rev. 4.4	Calcium	110	106	109	111		1.63
	Iron	113	111	109	112		2.55
	Magnesium	111	103	107	110		2.24
	Potassium	108	107	107	108		1.31
	Sodium	106	103	109	111		0.952
	Strontium	106	104	102	105		2.31
	Tin	111	112	108	108		0.451
	Titanium	110	110	107	109		2.12
	Vanadium	108	109	105	106		0.996
	Zinc	109	108	106	104		1.65
EPA 200.8 Rev. 5.4	Aluminum	98.9	97.8	97.4	98.9		0.347
	Antimony	103	103	102	103		1.41
	Arsenic	99.1	98.8	99.2	99.6		0.443
	Barium	102	102	101	100		0.604
	Beryllium	97.9	99.0	97.7	95.4		1.25
	Boron	103	100	100	107		0.0451
	Cadmium	100	98.5	98.4	98.6		0.0424
	Chromium	98.0	97.8	96.5	99.3		1.39
	Cobalt	96.5	96.2	95.0	94.7		1.33
	Copper	103	104	104	98.8		0.0407
	Lead	99.1	99.7	99.7	99.2		0.0130
	Manganese	100	98.4	97.4	97.5		0.858
	Molybdenum	104	104	103	104		0.302
	Nickel	96.6	96.1	95.3	93.9		0.783
	Selenium	92.0	90.7	91.3	90.8		0.693
	Silver	96.1	94.5	94.3	93.2		0.268
	Thallium	99.0	99.3	100	101		0.918
EPA 300.0 Rev. 2.1	Chloride	100	98.8	99.2		0.130	
	Sulfate	98.2	95.1	97.6		0.105	
EPA 350.1 Rev. 2.0	Ammonia-N	96.0	98.2	98.8			0.347
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.5					2.67
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	105			0.477
EPA 365.1 Rev. 2.0	Total-P	104	95.4	99.1			2.14
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.3	96.0	97.6			1.56
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	59.7	77.6	104			29.3
	Acetochlor	73.7	66.0	124			54.2
	Alachlor	68.6	62.8	87.0			32.4
	Aldrin	50.0	62.3	59.9			3.94
	Alpha-BHC	78.0	91.8	98.2			6.64
	Alpha-Chlordane	60.5	73.5	74.9			1.93
	Ametryn	76.5	63.6	82.0			25.2
	Atrazine	79.0	83.7	124			25.4
	Atrazine Desethyl	52.1	51.2	65.6			24.6
	Avobenzone	62.2	64.2	98.6			42.1
	Azinphos Methyl	90.2	73.8	109			38.9
	Azoxystrobin	79.5	75.7	113			28.3
	Beta-BHC	86.6	118	116			1.79
	Beta-Cyfluthrin	53.8	88.8	86.3			2.86
	Bifenthrin	34.5	65.9	66.6			1.06
	Bromacil	71.4	64.2	79.9			21.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Butylate	52.7	31.1	46.4		39.5
	Caffeine	61.3	85.2	89.2		4.54
	Carbophenothion	74.5	59.2	85.9		36.8
	Carfentrazone Ethyl	82.5	61.6	85.2		32.1
	Chlorfenapyr	76.0	84.3	109		25.3
	Chlorothalonil	65.4	82.7	77.1		7.04
	Chlorpyrifos Ethyl	74.5	89.8	112		22.4
	Chlorpyrifos Methyl	74.8	88.9	115		26.0
	Cis-Nonachlor	56.2	62.8	63.1		0.400
	Coumaphos	80.1	60.5	85.8		34.7
	Cyanazine	83.7	71.2	105		38.1
	Cypermethrin	53.6	88.8	86.8		2.31
	Cyprodinil	66.4	68.6	92.2		29.3
	Dacthal	75.4	91.7	89.0		3.05
	DDD-p,p'	64.6	71.4	67.0		5.56
	DDE-p,p'	61.4	68.8	69.7		1.35
	DDT-p,p'	72.9	86.3	84.4		1.99
	Dechlorane Plus	64.9	80.9	112		32.2
	Delta-BHC	92.6	133	125		5.84
	Deltamethrin	44.1	62.1	75.3		19.2
	Demeton	60.6	56.3	80.1		34.8
	Diazinon	71.3	77.2	122		44.9
	Dichlobenil	77.5	84.7	82.2		2.95
	Dicofol	72.9	91.8	91.0		0.878
	Dieldrin	65.9	74.7	75.1		0.562
	Difenoconazole	84.9	74.4	104		33.5
	Dimethenamid	64.6	55.0	77.2		33.7
	Dimethomorph	70.3	70.9	98.0		32.1
	Disulfoton	68.9	65.4	87.2		28.6
	Dithiopyr	78.6	63.5	85.1		27.3
	Endosulfan I	69.1	77.2	78.3		1.45
	Endosulfan II	71.2	83.6	81.2		2.97
	Endosulfan Sulfate	75.2	86.1	85.0		1.31
	Endrin	66.8	73.6	75.4		2.50
	Endrin Aldehyde	64.2	66.3	68.3		2.98
	Endrin Ketone	122	69.6	67.2		3.51
	EPTC	47.2	24.9	36.0		36.5
	Esfenvalerate	50.4	88.3	87.3		1.08
	Ethalfuralin	73.4	76.0	82.5		8.24
	Ethion	76.6	51.0	74.9		37.9
	Ethoprop	68.3	70.0	83.9		18.1
	Etridiazole	45.1	35.4	52.1		38.2
	Fenamiphos	76.0	60.4	82.4		30.9
	Fenbuconazole	76.8	92.0	129		33.4
	Fenpropathrin	54.3	73.7	74.2		0.729
	Fipronil	71.5	67.7	89.3		27.5
	Fipronil Desulfinyl	84.8	67.2	90.9		29.9
	Fipronil Sulfide	73.4	52.4	66.3		23.4
	Fipronil Sulfone	60.5	47.2	61.7		26.6
	Fluazifop-P-butyl	75.0	57.5	84.5		38.1
	Fludioxonil	65.0	65.1	97.6		39.9
	Flumioxazin	81.0	94.0	124		27.2
	Flutolanil	71.9	53.8	89.3		28.3
	Fluxapyroxad	71.8	52.7	74.9		30.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Fonofos	66.3	58.9	80.8			31.3
	Gamma-BHC	71.6	99.8	96.7			3.19
	Gamma-Chlordane	61.3	74.1	73.3			1.13
	Heptachlor	63.0	68.6	68.3			0.416
	Heptachlor Epoxide	68.8	78.6	76.7			2.54
	Hexachlorobenzene	63.5	75.6	77.3			2.31
	Hexazinone	79.0	73.1	100			31.2
	Imazalil	32.9	21.3	66.1			102
	Iprodione	84.5	62.4	82.4			27.6
	Kepone	181	199	193			3.11
	Lambda-Cyhalothrin	45.7	82.7	80.0			3.31
	Loratadine	71.1	63.8	97.4			41.6
	Malathion	79.0	65.4	90.8			32.5
	Metalaxyl	71.1	58.6	83.4			34.9
	Methoprene	37.3	55.3	62.1			11.4
	Methoxychlor	75.3	97.2	95.9			1.33
	Metolachlor	69.2	58.1	91.3			31.2
	Metribuzin	71.0	63.1	98.2			43.5
	Mevinphos	63.1	76.9	85.0			9.97
	MGK-264	71.4	87.7	88.0			0.423
	Mirex	46.0	58.8	59.7			1.45
	Molinate	57.1	46.0	66.6			36.6
	Myclobutanil	67.6	66.5	91.4			31.6
	Naled	75.9	62.2	86.3			32.5
	Napropamide	65.9	55.2	71.6			25.9
	Norflurazon	67.2	52.7	62.7			17.4
	Octinoxate	56.3	75.8	98.5			26.0
	Oxadiazon	61.0	46.5	65.6			34.1
	Oxybenzone	59.1	70.0	90.0			25.0
	Oxychlordane	68.1	77.3	76.6			0.912
	Oxyfluorfen	83.9	90.0	119			27.8
	Parathion Ethyl	77.2	68.1	92.8			30.6
	Parathion Methyl	88.4	82.8	111			29.3
	PBDE-47	61.3	73.6	94.6			24.9
	PBDE-99	61.2	70.7	93.8			28.2
	PCB-1016	92.9	89.2	94.5			5.78
	PCB-1260	92.8	91.1	81.9			10.6
	Pendimethalin	57.7	54.1	73.3			30.1
	Permethrin	51.8	83.0	83.8			1.02
	Phenothrin	37.2	65.0	65.5			0.849
	Phenytain	55.3	56.8	72.1			23.8
	Phorate	58.0	63.4	72.0			12.8
	Piperonyl Butoxide	75.0	90.8	89.5			1.47
	Prallethrin	64.9	76.8	80.7			4.97
	Prodimamine	32.2	48.0	65.3			30.6
	Prometon	66.0	55.4	78.1			34.1
	Prometryn	73.4	61.6	85.8			32.9
	Pronamide	86.4	74.0	91.2			20.8
	Propanil	73.1	61.2	82.4			29.6
	Propargite	71.1	94.4	140			39.1
	Propiconazole	67.5	54.1	68.7			23.8
	Pyraflufen Ethyl	70.7	69.9	115			48.7
	Pyridaben	72.1	62.0	88.8			35.6
	Pyriproxyfen	68.3	48.9	74.1			41.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Simazine	76.5	62.9	78.3			21.8
	Stirophos	81.0	51.9	69.4			28.9
	Sulfentrazone	76.7	59.1	74.9			23.5
	Tau-Fluvalinate	44.2	82.7	83.0			0.410
	Tebuconazole	63.4	39.8	52.8			24.7
	Terbufos	77.4	79.4	97.8			20.7
	Terbuthylazine	75.6	65.8	93.3			34.6
	Tetramethrin	73.2	107	107			0.277
	Thiobencarb	63.6	53.1	70.2			27.7
	Trans-Nonachlor	60.5	72.8	75.1			3.10
	Tri-o-cresyl Phosphate	65.0	73.3	93.8			24.6
	Triadimefon	66.9	53.4	67.7			23.5
	Triclosan Methyl	67.3	75.6	77.0			1.87
	Trifluralin	66.9	76.7	75.2			2.00
EPA 8276	Chlordane	79.9	78.0	72.8			6.83
	Toxaphene	82.6	78.7	77.5			1.48
EPA 8321B	2,4-D	72.6	80.5	77.7			3.61
	2,4,5-T	67.1	83.6	81.7			2.26
	3-Hydroxycarbofuran	53.0	58.8	47.4			21.4
	Acesulfame K	101	99.6	98.9			0.674
	Acetaminophen	108	74.0	83.6			12.1
	Acetamiprid	72.1	47.7	45.5			4.64
	Afidopyropen	62.7	55.7	67.7			19.4
	Aldicarb	65.9	62.6	73.7			16.3
	Aldicarb Sulfone	98.1	85.5	88.3			3.25
	Aldicarb Sulfoxide	88.6	48.7	45.7			6.48
	AMPA	104	105	108			2.20
	Bentazon	82.1	121	124			1.98
	Benzovindiflupyr	70.1	78.3	83.5			6.34
	Carbamazepine	81.4	74.1	76.9			3.75
	Carbaryl	80.8	96.6	77.3			22.2
	Carbofuran	87.4	90.6	70.4			25.1
	Clothianidin	77.8	49.8	54.6			9.25
	Dinotefuran	73.6	94.1	108			13.7
	Diuron	89.0	85.6	80.7			6.01
	Endothall	97.1	92.9	96.0			3.24
	Fenuron	99.5	97.5	97.1			0.455
	Fluridone	84.5	105	106			1.59
	Glufosinate	103	96.5	94.1			2.45
	Glyphosate	99.6	87.9	83.3			5.37
	Hydrocodone	112	104	113			8.10
	Ibuprofen	59.2	81.2	67.1			19.0
	Imazapyr	73.8	96.8	83.1			15.2
	Imidacloprid	93.3	66.1	74.2			11.5
	Linuron	90.9	91.8	99.3			7.90
	Mandestrobin	86.3	98.0	93.3			4.93
	MCPP	75.2	95.3	88.9			6.97
	Methiocarb	98.9	105	90.6			15.1
	Methomyl	92.8	92.6	85.9			7.52
	Naproxen	84.3	117	125			6.99
	Oxamyl	93.8	94.6	86.5			8.92
	Primidone	70.9	44.9	35.3			24.0
	Propoxur	87.6	82.2	75.5			8.57
	Pyraclostrobin	83.0	92.5	94.9			2.62

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Silvex	59.1	79.1	73.9			6.75
	Sucralose	97.7	95.8	95.0			0.783
	Thiamethoxam	97.2	82.0	89.7			9.02
	Tolfenpyrad	44.1	57.1	61.2			6.89
	Triclopyr	54.9	81.5	73.3			10.5
SM 2320 B-2011	Total Alkalinity	104				1.95	
SM 2540 C-2011	TDS					7.74	
SM 4500-F- C-2011	Fluoride	99.6	99.7	98.5			0.953
SM 5310 B-2011	Organic Carbon	95.6	89.1	93.6			3.09

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2353168
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2353168
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2353180
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2353180
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2353168
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2353168
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2353169
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2353169
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2353169
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2353169
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2353170
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2353177
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2353176
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2353177
EPA 8270E	PCBs in water matrices by GC/MS/MS	2353176
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2353176
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2353172
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2353173
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2353168
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2353168
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2353168
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2353168
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2353169

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	08/31/2022			08/31/2022 15:44	Blanca Fach	2353168
EPA 180.1 Rev. 2.0	08/31/2022			08/31/2022 13:18	Chandler E Cox	2353168
EPA 200.7 Rev. 4.4	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 15:06	McKinley C Carter	2353180
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/09/2022 18:20	McKinley C Carter	2353180
EPA 200.8 Rev. 5.4	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/06/2022 23:33	Emily M Philpot	2353180
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/08/2022 05:15	Megan Whitefoot	2353180
EPA 300.0 Rev. 2.1	08/31/2022			09/10/2022 01:41	Anna M. Plaviak	2353168
	08/31/2022			09/14/2022 19:38	Anna M. Plaviak	2353168
EPA 350.1 Rev. 2.0	08/31/2022			09/06/2022 12:37	Ping Hua	2353169
EPA 351.2 Rev. 2.0	08/31/2022	09/02/2022 08:53	Samantha L Bates	09/06/2022 16:09	Samantha L Bates	2353169
EPA 353.2 Rev. 2.0	08/31/2022			09/07/2022 10:41	Beverly Y. Sanders	2353169
EPA 365.1 Rev. 2.0	08/31/2022	09/02/2022 10:28	Simonne.V. Calhoun	09/06/2022 10:18	James L Waggeberby	2353169
EPA 365.1 Rev. 2.0 dissolved	08/31/2022			08/31/2022 15:13	Elise M. Gillis	2353170
EPA 8270E	08/31/2022	09/01/2022 09:30	Rasheda Ghaffari	09/06/2022 00:51	Michael Poppell	2353177
	08/31/2022	09/01/2022 09:30	Rasheda Ghaffari	09/09/2022 16:36	Lipi Saha	2353177
	08/31/2022	09/06/2022 08:30	Rasheda Ghaffari	09/08/2022 18:20	Vandana T. Nagar	2353176
	08/31/2022	09/06/2022 08:30	Rasheda Ghaffari	09/08/2022 22:59	Julie Wi	2353176
	08/31/2022	09/06/2022 08:30	Rasheda Ghaffari	09/09/2022 17:05	Vandana T. Nagar	2353176
EPA 8276	08/31/2022	09/06/2022 08:30	Rasheda Ghaffari	09/09/2022 10:42	Arthur Maknenko	2353176
EPA 8321B	08/31/2022	09/01/2022 09:00	June Rhew	09/08/2022 18:46	Juyoung Kim	2353173
	08/31/2022	09/01/2022 14:00	Umesh Chiluwal	09/01/2022 23:37	Umesh Chiluwal	2353173
	08/31/2022	09/01/2022 14:00	Umesh Chiluwal	09/03/2022 00:55	Umesh Chiluwal	2353173
	08/31/2022	09/02/2022 13:00	Hoor Shaik	09/07/2022 19:33	Juyoung Kim	2353172
SM 2320 B-2011	08/31/2022			09/02/2022 01:28	Dale L. Simmons	2353168
SM 2540 C-2011	08/31/2022			09/02/2022 16:08	Yijie Li	2353168
SM 2540 D-2011	08/31/2022			09/02/2022 16:08	Yijie Li	2353168
SM 4500-F- C-2011	08/31/2022			09/15/2022 02:31	Dale L. Simmons	2353168
SM 5310 B-2011	08/31/2022			09/06/2022 23:07	Khloe J Berg	2353169