

Chemical Analysis Report

NW-DIST-2022-08-31-01

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

Event Description: **NW Run**
Request ID: **RQ-2022-08-29-16**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
Pensacola, FL 32502-5794
Attn: Myranda Butler

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: Colin Wright, Program Administrator

Date Certified: 22-SEP-2022 12:08

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

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: Wiggins Branch below Highway 29

Collection Date/Time: 08/30/2022 09:30

Field ID: G4NW0163

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353302	DEP SOP: NU-094-1	Color (true)	46		PCU	P418965	
	EPA 180.1 Rev. 2.0	Turbidity	4.3		NTU	P418947	
	EPA 300.0 Rev. 2.1	Chloride	2.8		mg Cl/L	P419469	
		Sulfate	1.0		mg SO4/L	P419472	
	SM 2320 B-2011	Total Alkalinity	3.2		mg CaCO3/L	P419035	
	SM 2540 C-2011	TDS	17	I	mg/L	P419428	
	SM 2540 D-2011	TSS	7	I	mg/L	P419318	
2353304	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P419623	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P419156	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.43		mg N/L	P419094	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.021		mg N/L	P419215	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P419040	
2353334	SM 5310 B-2011	Organic Carbon	6.7		mg C/L	P419186	
	EPA 200.7 Rev. 4.4	Calcium	1.91		mg/L	P418968	
		Iron	1.12E+03		ug/L	P418968	
		Magnesium	0.73		mg/L	P418968	
		Potassium	0.30	U	mg/L	P418968	
		Sodium	1.4	I	mg/L	P418968	
		Strontium	4.9	I	ug/L	P418968	
		Tin	3.0	U	ug/L	P418968	
		Titanium	0.80	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	108		ug/L	P418968	
		Antimony	0.050	U	ug/L	P418968	
		Arsenic	0.52		ug/L	P418968	
		Barium	13.1		ug/L	P418968	
		Beryllium	0.039	I	ug/L	P418968	
		Boron	10.7		ug/L	P418968	
		Cadmium	0.020	U	ug/L	P418968	
		Chromium	0.40	U	ug/L	P418968	
		Cobalt	0.302		ug/L	P418968	
		Copper	0.40	U	ug/L	P418968	
		Lead	0.20	U	ug/L	P418968	
		Manganese	33.4		ug/L	P418968	
		Molybdenum	0.15	U	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	
	SM 2340 B-2011	Hardness	7.8		mg/L	P418968	

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: Big Escambia Creek downstream of Fannie Rd Collection Date/Time: 08/30/2022 10:00

Field ID: G4NW0421

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353300	DEP SOP: NU-094-1	Color (true)	59	A	PCU	P418965	
	EPA 180.1 Rev. 2.0	Turbidity	9.0	A	NTU	P418947	
	EPA 300.0 Rev. 2.1	Chloride	3.9		mg Cl/L	P419469	
		Sulfate	1.1		mg SO4/L	P419472	
	SM 2320 B-2011	Total Alkalinity	3.3		mg CaCO3/L	P419035	
	SM 2540 C-2011	TDS	27		mg/L	P419428	
	SM 2540 D-2011	TSS	11		mg/L	P419318	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P419623	
2353301	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P419156	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30		mg N/L	P419097	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.39		mg N/L	P419215	
	EPA 365.1 Rev. 2.0	Total-P	0.021		mg P/L	P419039	
	SM 5310 B-2011	Organic Carbon	5.7		mg C/L	P419186	
2353324	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	
2353325		2,4-D	0.0020	U	ug/L	P418839	
		Acesulfame K	0.10	UJ	ug/L	P418802	SUR
		2,4,5-T	0.0040	U	ug/L	P418839	
		AMPA	0.10	U	ug/L	P418802	
		Acetaminophen	0.080	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	0.10	U	ug/L	P418802	
		Afidopyropen	0.0020	U	ug/L	P418839	
		Bentazon	8.0E-04	U	ug/L	P418839	
		Sucralose	0.015	I J	ug/L	P418802	SUR
		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	0.0020	U	ug/L	P418839	
		Fenuron	0.032	U	ug/L	P418839	
		Fluridone	8.0E-04	U	ug/L	P418839	
		Imazapyr	0.078		ug/L	P418839	
		Hydrocodone	0.0020	U	ug/L	P418839	

Field ID: G4NW0421

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353325	EPA 8321B	Ibuprofen	0.080	U	ug/L	P418839	
		Imidacloprid	0.0021	I	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	
2353328	EPA 8270E	Aldrin	0.72	U	ng/L	P419031	
		Alpha-BHC	0.11	U	ng/L	P419031	
		Alpha-Chlordane	0.22	U	ng/L	P419031	
		PCB-1016	2.2	U	ng/L	P419031	
		Beta-BHC	0.11	U	ng/L	P419031	
		PCB-1221	2.2	U	ng/L	P419031	
		Beta-Cyfluthrin	1.4	U	ng/L	P419031	
		PCB-1232	2.2	U	ng/L	P419031	
		Bifenthrin	0.56	U	ng/L	P419031	
		PCB-1242	2.2	U	ng/L	P419031	
		PCB-1248	2.2	U	ng/L	P419031	
		Chlorothalonil	1.4	U	ng/L	P419031	
		PCB-1254	2.2	U	ng/L	P419031	
		Cis-Nonachlor	0.22	U	ng/L	P419031	
		PCB-1260	2.2	U	ng/L	P419031	
		Cypermethrin	1.7	U	ng/L	P419031	
		Dacthal	0.17	U	ng/L	P419031	
		DDD-p,p'	0.28	U	ng/L	P419031	
		DDE-p,p'	0.22	U	ng/L	P419031	
		DDT-p,p'	0.28	U	ng/L	P419031	
		Delta-BHC	0.45	U	ng/L	P419031	
		Deltamethrin	1.4	U	ng/L	P419031	
		Dichlobenil	0.28	U	ng/L	P419031	
		Dicofol	1.4	U	ng/L	P419031	
		Dieldrin	0.45	U	ng/L	P419031	
		Endosulfan I	0.45	U	ng/L	P419031	
		Endosulfan II	0.45	U	ng/L	P419031	
		Endosulfan Sulfate	0.33	U	ng/L	P419031	
		Endrin	0.45	U	ng/L	P419031	
		Endrin Aldehyde	0.84	U	ng/L	P419031	
		Endrin Ketone	0.45	U	ng/L	P419031	
		Esfenvalerate	0.84	U	ng/L	P419031	
		Ethalfuralin	0.17	U	ng/L	P419031	

Field ID: G4NW0421

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2353328	EPA 8270E	Fenpropathrin	0.28	U	ng/L	P419031	LCS	
		Gamma-BHC	0.14	UJ	ng/L	P419031		
		Gamma-Chlordane	0.22	U	ng/L	P419031		CCV
		Heptachlor	0.22	U	ng/L	P419031		
		Heptachlor Epoxide	0.28	U	ng/L	P419031		
		Hexachlorobenzene**	1.1	U	ng/L	P419031		
		Kepone	5.6	UJ	ng/L	P419031		
		Lambda-Cyhalothrin	0.84	U	ng/L	P419031		
		Methoprene	0.84	U	ng/L	P419031		
		Methoxychlor	0.33	U	ng/L	P419031		
		MGK-264	0.22	U	ng/L	P419031		
		Mirex	0.39	U	ng/L	P419031		
		Oxychlordane	0.33	U	ng/L	P419031		
		Permethrin	1.8	U	ng/L	P419031		
		Phenothrin	1.0	U	ng/L	P419031		
		Piperonyl Butoxide	0.17	U	ng/L	P419031		
		Prallethrin	2.2	U	ng/L	P419031		
		Tau-Fluvalinate	0.28	U	ng/L	P419031		
		Tetramethrin	0.84	U	ng/L	P419031		
		Trans-Nonachlor	0.22	U	ng/L	P419031		
		Triclosan Methyl	0.17	U	ng/L	P419031		
		Trifluralin	0.22	U	ng/L	P419031		
EPA 8276	Chlordane	2.8	U	ng/L	P419031			
	Toxaphene	17	U	ng/L	P419031			
2353329	EPA 8270E	Oxybenzone**	10	U	ng/L	P418990	RPD	
		Acetochlor	1.1	Q	ng/L	P419392		
		Octinoxate**	20	U	ng/L	P418990		
		Alachlor	0.25	UQ	ng/L	P419392		
		Avobenzone**	100	UJ	ng/L	P418990		
		Ametryn	0.61	UQ	ng/L	P419392		
		Atrazine	3.9	Q	ng/L	P419392		
		PBDE-47**	4.1	U	ng/L	P418990		
		Atrazine Desethyl	1.5	UQ	ng/L	P419392		
		PBDE-99**	5.1	U	ng/L	P418990		
		Azinphos Methyl	2.0	UQ	ng/L	P419392		
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P418990		
		Azoxystrobin	0.51	UQ	ng/L	P419392		
		Bromacil	0.51	UQ	ng/L	P419392		
		2-Ethylhexyl	12	U	ng/L	P418990		
		2,3,4,5-tetrabromobenzoate (EHTBB)**						
		Butylate	0.40	UQ	ng/L	P419392	RPD	
		Dechlorane Plus**	31	UJ	ng/L	P418990		
		Caffeine**	7.6	UQ	ng/L	P419392		
		Carbophenothion	0.20	UQ	ng/L	P419392		
		Carfentrazone Ethyl	0.10	UQ	ng/L	P419392		

Field ID: G4NW0421

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353329	EPA 8270E	Chlorfenapyr	0.18	UQ	ng/L	P419392	
		Chlorpyrifos Ethyl	0.25	UQ	ng/L	P419392	
		Chlorpyrifos Methyl	0.051	UQ	ng/L	P419392	
		Coumaphos	0.51	UQ	ng/L	P419392	
		Cyanazine	3.3	UQ	ng/L	P419392	
		Cyprodinil	0.10	UQ	ng/L	P419392	
		Demeton	1.5	UQ	ng/L	P419392	
		Diazinon	0.13	UQ	ng/L	P419392	
		Difenoconazole	0.61	UQ	ng/L	P419392	
		Dimethenamid	0.10	UQ	ng/L	P419392	
		Dimethomorph	0.18	UQ	ng/L	P419392	
		Disulfoton	0.51	UQ	ng/L	P419392	
		Dithiopyr	1.3	VQ	ng/L	P419392	
		EPTC	1.3	UQ	ng/L	P419392	
		Ethion	0.15	UQ	ng/L	P419392	
		Ethoprop	0.10	UQ	ng/L	P419392	
		Etridiazole	0.15	UQ	ng/L	P419392	
		Fenamiphos	0.51	UQ	ng/L	P419392	
		Fenbuconazole	0.13	UQ	ng/L	P419392	
		Fipronil	0.25	UQJ	ng/L	P419392	LCS
		Fipronil Desulfinyl**	0.13	UQ	ng/L	P419392	
		Fipronil Sulfide	0.15	UQJ	ng/L	P419392	LCS
		Fipronil Sulfone	0.15	UQ	ng/L	P419392	
		Fluazifop-P-butyl	0.10	UQ	ng/L	P419392	
		Fludioxonil	0.13	UQ	ng/L	P419392	
		Flumioxazin	1.8	UQ	ng/L	P419392	
		Flutolanil	5.4	Q	ng/L	P419392	
		Fluxapyroxad	1.9	Q	ng/L	P419392	RPD
		Fonofos	0.20	UQ	ng/L	P419392	
		Hexazinone	0.96	IQ	ng/L	P419392	
		Imazalil	0.76	UQ	ng/L	P419392	
		Iprodione	0.61	UQ	ng/L	P419392	
		Loratadine**	0.10	UQ	ng/L	P419392	
		Malathion	0.35	UQ	ng/L	P419392	
		Metalaxyl	0.76	UQ	ng/L	P419392	
		Metolachlor	6.9	Q	ng/L	P419392	
		Metribuzin	2.5	UQ	ng/L	P419392	
		Mevinphos	1.1	UQ	ng/L	P419392	
		Molinate	0.30	UQ	ng/L	P419392	
		Myclobutanil	0.25	UQ	ng/L	P419392	
		Naled	1.5	UQ	ng/L	P419392	
		Napropamide	0.40	UQ	ng/L	P419392	
		Norflurazon	0.51	UQ	ng/L	P419392	
		Oxadiazon	0.30	UQ	ng/L	P419392	
		Oxyfluorfen	0.15	UQ	ng/L	P419392	MS

Field ID: G4NW0421

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353329	EPA 8270E	Parathion Ethyl	0.25	UQ	ng/L	P419392	
		Parathion Methyl	0.56	UQ	ng/L	P419392	
		Pendimethalin	1.0	UQ	ng/L	P419392	
		Phenytain**	3.5	UQ	ng/L	P419392	MS, RPD
		Phorate	0.53	UQ	ng/L	P419392	
		Prodiamine	0.18	UQ	ng/L	P419392	
		Prometon	0.91	UQ	ng/L	P419392	
		Prometryn	0.20	UQ	ng/L	P419392	MS
		Pronamide	0.15	UQ	ng/L	P419392	
		Propanil	0.13	UQ	ng/L	P419392	
		Propargite	1.5	UQ	ng/L	P419392	
		Propiconazole	0.76	IQ	ng/L	P419392	
		Pyraflufen Ethyl	0.25	UQ	ng/L	P419392	
		Pyridaben	0.45	UQ	ng/L	P419392	
		Pyriproxyfen	0.13	UQ	ng/L	P419392	
		Simazine	0.51	UQ	ng/L	P419392	
		Stirophos	0.13	UQ	ng/L	P419392	RPD
		Sulfentrazone	0.51	UQ	ng/L	P419392	
		Tebuconazole	5.2	Q	ng/L	P419392	
		Terbufos	0.10	UQ	ng/L	P419392	
		Terbuthylazine	0.43	UQ	ng/L	P419392	
		Thiobencarb	0.61	UQ	ng/L	P419392	
		Triadimefon	0.25	UQ	ng/L	P419392	
2353333	EPA 200.7 Rev. 4.4	Calcium	2.00		mg/L	P418968	
		Iron	1.28E+03		ug/L	P418968	
		Magnesium	1.02		mg/L	P418968	
		Potassium	0.71	I	mg/L	P418968	
		Sodium	1.9	I	mg/L	P418968	
		Strontium	15.5		ug/L	P418968	
		Tin	3.0	U	ug/L	P418968	
		Titanium	0.98	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	154		ug/L	P418968	
		Antimony	0.050	U	ug/L	P418968	
		Arsenic	0.53		ug/L	P418968	
		Barium	36.6		ug/L	P418968	
		Beryllium	0.113		ug/L	P418968	
		Boron	11.2		ug/L	P418968	
		Cadmium	0.020	U	ug/L	P418968	
		Chromium	0.42	I	ug/L	P418968	
		Cobalt	1.26		ug/L	P418968	
		Copper	0.47	I	ug/L	P418968	
		Lead	0.26	I	ug/L	P418968	
		Manganese	57.7		ug/L	P418968	

Field ID: G4NW0421

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353333	EPA 200.8 Rev. 5.4	Molybdenum	0.15	U	ug/L	P418968	
		Nickel	1.1	I	ug/L	P418968	
		Selenium	0.20	U	ug/L	P418968	
		Silver	0.010	U	ug/L	P418968	
		Thallium	0.10	U	ug/L	P418968	
	SM 2340 B-2011	Hardness	9.2		mg/L	P418968	

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: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8321B: MDL for acetaminophen elevated due to matrix interference.

EPA 8321B: Results confirmed in re-analysis. Refer to the Lab Analysis Report for an explanation of QC Codes.

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

EPA 8270E: Sample expired for preparation due to need for re-extraction. MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in one of the Method Blanks and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Brushy Creek upstream of Arthur Brown Rd. Collection Date/Time: 08/30/2022 11:00

Field ID: G5NW0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353336	EPA 200.7 Rev. 4.4	Calcium	2.63		mg/L	P418968	
		Iron	850		ug/L	P418968	
		Magnesium	1.07		mg/L	P418968	
		Potassium	0.92	I	mg/L	P418968	
		Sodium	2.3		mg/L	P418968	
		Strontium	11.1		ug/L	P418968	
		Tin	3.0	U	ug/L	P418968	
		Titanium	1.4	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	161		ug/L	P418968	
		Antimony	0.050	U	ug/L	P418968	
		Arsenic	0.65		ug/L	P418968	
		Barium	26.9		ug/L	P418968	
		Beryllium	0.047		ug/L	P418968	
		Boron	13.5		ug/L	P418968	
		Cadmium	0.020	U	ug/L	P418968	
		Chromium	0.40	U	ug/L	P418968	
		Cobalt	0.367		ug/L	P418968	
		Copper	0.63	I	ug/L	P418968	
		Lead	0.35	I	ug/L	P418968	
		Manganese	29.5		ug/L	P418968	
		Molybdenum	0.15	U	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	
	SM 2340 B-2011	Hardness	11.0		mg/L	P418968	

Sample Location: Little Pine Barren Creek above CR99

Collection Date/Time: 08/30/2022 11:30

Field ID: G4NW0420

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353337	EPA 200.7 Rev. 4.4	Calcium	2.78		mg/L	P418968	
		Iron	2.20E+03		ug/L	P418968	
		Magnesium	2.07		mg/L	P418968	
		Potassium	2.0		mg/L	P418968	
		Sodium	2.1		mg/L	P418968	
		Strontium	18.1		ug/L	P418968	
		Tin	3.0	U	ug/L	P418968	
		Titanium	0.81	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	61		ug/L	P418968	
		Antimony	0.050	U	ug/L	P418968	
		Arsenic	0.68		ug/L	P418968	
		Barium	60.5		ug/L	P418968	
		Beryllium	0.035	I	ug/L	P418968	
		Boron	14.0		ug/L	P418968	
		Cadmium	0.020	U	ug/L	P418968	
		Chromium	0.40	U	ug/L	P418968	
		Cobalt	0.506		ug/L	P418968	
		Copper	0.40	U	ug/L	P418968	
		Lead	0.20	U	ug/L	P418968	
		Manganese	61.4		ug/L	P418968	
		Molybdenum	0.15	U	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	
	SM 2340 B-2011	Hardness	15.5		mg/L	P418968	

Sample Location: Little Pine Barren Creek below CR99A

Collection Date/Time: 08/30/2022 12:00

Field ID: G4NW0192

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353303	DEP SOP: NU-094-1	Color (true)	58		PCU	P418965	
	EPA 180.1 Rev. 2.0	Turbidity	4.8		NTU	P418947	
	EPA 300.0 Rev. 2.1	Chloride	5.8		mg Cl/L	P419469	
		Sulfate	1.3		mg SO4/L	P419472	
	SM 2320 B-2011	Total Alkalinity	11		mg CaCO3/L	P419035	
	SM 2540 C-2011	TDS	36		mg/L	P419428	
	SM 2540 D-2011	TSS	5	I	mg/L	P419318	
2353305	SM 4500-F- C-2011	Fluoride	0.044	I	mg F/L	P419623	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.082		mg N/L	P419156	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.48		mg N/L	P419098	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.46		mg N/L	P419215	
	EPA 365.1 Rev. 2.0	Total-P	0.040		mg P/L	P419040	
2353335	SM 5310 B-2011	Organic Carbon	4.2		mg C/L	P419186	
	EPA 200.7 Rev. 4.4	Calcium	3.59		mg/L	P418968	
		Iron	2.33E+03		ug/L	P418968	
		Magnesium	2.18		mg/L	P418968	
		Potassium	2.8		mg/L	P418968	
		Sodium	1.9	I	mg/L	P418968	
		Strontium	16.4		ug/L	P418968	
		Tin	3.0	U	ug/L	P418968	
		Titanium	0.75	U	ug/L	P418968	
		Vanadium	2.0	U	ug/L	P418968	
		Zinc	5.0	U	ug/L	P418968	
		Aluminum	53		ug/L	P418968	
		Antimony	0.050	U	ug/L	P418968	
		Arsenic	0.85		ug/L	P418968	
		Barium	48.4		ug/L	P418968	
		Beryllium	0.025	I	ug/L	P418968	
		Boron	18.2		ug/L	P418968	
		Cadmium	0.020	U	ug/L	P418968	
		Chromium	0.40	U	ug/L	P418968	
		Cobalt	0.613		ug/L	P418968	
		Copper	0.46	I	ug/L	P418968	
		Lead	0.20	U	ug/L	P418968	
		Manganese	129		ug/L	P418968	
		Molybdenum	0.15	U	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	
	SM 2340 B-2011	Hardness	17.9		mg/L	P418968	

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: McDavid Creek 100 m upstream SR99

Collection Date/Time: 08/30/2022 12:50

Field ID: G5NW0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353338	EPA 200.7 Rev. 4.4	Calcium	1.10		mg/L	P418968	
		Iron	1.44E+03		ug/L	P418968	
		Magnesium	0.71		mg/L	P418968	
		Potassium	0.48	I	mg/L	P418968	
		Sodium	1.7	I	mg/L	P418968	
		Strontium	5.3	I	ug/L	P418968	
		Tin	3.0	U	ug/L	P418968	
		Titanium	1.4	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	291		ug/L	P418968	
		Antimony	0.050	U	ug/L	P418968	
		Arsenic	0.64		ug/L	P418968	
		Barium	16.5		ug/L	P418968	
		Beryllium	0.044		ug/L	P418968	
		Boron	9.4		ug/L	P418968	
		Cadmium	0.020	U	ug/L	P418968	
		Chromium	0.45	I	ug/L	P418968	
		Cobalt	0.323		ug/L	P418968	
		Copper	0.40	U	ug/L	P418968	
		Lead	0.31	I	ug/L	P418968	
		Manganese	18.2		ug/L	P418968	
		Molybdenum	0.15	U	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	
	SM 2340 B-2011	Hardness	5.7		mg/L	P418968	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P418965

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418947

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: P419472

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419156

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419094

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419097

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419098

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419215

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419039

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419040

Component	Result	Code	Units
Total-P	0.002	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
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418990

Component	Result	Code	Units
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	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
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	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

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Reference Method: EPA 8270E

Batch ID: P419031

Component	Result	Code	Units
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	0.35	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

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Reference Method: EPA 8270E

Batch ID: P419031

Component	Result	Code	Units
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 8270E

Batch ID: P419392

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419392

Component	Result	Code	Units
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.36	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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419392

Component	Result	Code	Units
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
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419392

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

Reference Method: EPA 8276

Batch ID: 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

Quality Assurance Report

Method Blank Results

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
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: P419035

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2011
Batch ID: P419428

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P419318

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P419623

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P419186

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: P418965

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: P418947

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: P419472

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419156

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419094

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419097

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.9		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419098

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419215

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: P419039

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419040

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	104		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
Avobenzone	62.2		P	59 - 206
Dechlorane Plus	64.9		P	50 - 150
Octinoxate	56.3		P	30 - 159

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418990

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxybenzone	59.1		P	59 - 147
PBDE-47	61.3		P	50 - 150
PBDE-99	61.2		P	50 - 150
Tri-o-cresyl Phosphate	65.0		P	50 - 150

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
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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P419031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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 8270E
Batch ID: P419392

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	86.6		P	70 - 121
Alachlor	79.9		P	68 - 119
Ametryn	79.2		P	64 - 139
Atrazine	81.1		P	76 - 120
Atrazine Desethyl	61.3		P	44 - 126
Azinphos Methyl	109		P	43 - 192
Azoxystrobin	104		P	36 - 224
Bromacil	108		P	52 - 121
Butylate	40.8		P	28 - 91.0
Caffeine	72.6		P	50 - 134
Carbophenothion	81.0		P	56 - 129
Carfentrazone Ethyl	88.8		P	60 - 141
Chlorfenapyr	83.3		P	56 - 115
Chlorpyrifos Ethyl	106		P	60 - 118
Chlorpyrifos Methyl	93.1		P	68 - 119
Coumaphos	144		P	18 - 250
Cyanazine	130		P	61 - 250
Cyprodinil	107		P	55 - 145
Demeton	85.9		P	30 - 159
Diazinon	118		P	70 - 123
Difenoconazole	112		P	49 - 204
Dimethenamid	69.5		P	64 - 115
Dimethomorph	89.4		P	12 - 219
Disulfoton	80.3		P	44 - 125
Dithiopyr	92.7		P	64 - 115
EPTC	46.8		P	28 - 86.0
Ethion	86.8		P	33 - 125
Ethoprop	84.1		P	64 - 116
Etridiazole	50.6		P	34 - 91.0
Fenamiphos	85.0		P	12 - 127
Fenbuconazole	111		P	59 - 151
Fipronil	55.0		F	67 - 129
Fipronil Desulfinyl	72.4		P	65 - 127
Fipronil Sulfide	52.5		F	61 - 116
Fipronil Sulfone	70.1		P	55 - 117
Fluazifop-P-butyl	87.8		P	62 - 127
Fludioxonil	86.3		P	62 - 128
Flumioxazin	98.3		P	33 - 250
Flutolanil	89.7		P	56 - 127
Fluxapyroxad	104		P	45 - 128

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P419392

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fonofos	81.6		P	62 - 111
Hexazinone	87.2		P	46 - 139
Imazalil	74.8		P	38 - 142
Iprodione	134		P	47 - 135
Loratadine	113		P	10 - 244
Malathion	95.7		P	61 - 139
Metalaxyl	89.4		P	10 - 119
Metolachlor	93.8		P	65 - 118
Metribuzin	89.5		P	51 - 250
Mevinphos	73.2		P	53 - 121
Molinate	61.5		P	42 - 96.0
Myclobutanil	98.2		P	55 - 128
Naled	83.8		P	10 - 98.0
Napropamide	67.8		P	49 - 121
Norflurazon	82.8		P	61 - 126
Oxadiazon	77.1		P	59 - 116
Oxyfluorfen	98.5		P	64 - 137
Parathion Ethyl	74.6		P	70 - 112
Parathion Methyl	98.3		P	76 - 133
Pendimethalin	74.4		P	52 - 117
Phenytol	25.2		P	10 - 199
Phorate	82.0		P	48 - 121
Prodiamine	57.5		P	26 - 142
Prometon	77.1		P	43 - 123
Prometryn	109		P	66 - 127
Pronamide	117		P	75 - 121
Propanil	74.4		P	45 - 150
Propargite	120		P	42 - 208
Propiconazole	92.8		P	60 - 125
Pyraflufen Ethyl	92.4		P	70 - 138
Pyridaben	124		P	35 - 245
Pyriproxyfen	121		P	30 - 149
Simazine	83.8		P	72 - 125
Stirophos	80.5		P	29 - 164
Sulfentrazone	96.7		P	21 - 139
Tebuconazole	82.8		P	10 - 115
Terbufos	111		P	60 - 123
Terbuthylazine	81.3		P	72 - 115
Thiobencarb	76.5		P	31 - 139
Triadimefon	78.5		P	65 - 116

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
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Quality Assurance Report Laboratory Control Sample Accuracy

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
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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P418942

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propoxur	87.6		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P419035

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

Reference Method: SM 4500-F- C-2011
Batch ID: P419623

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419186

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.5		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: P419472

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353292	Sulfate	95.6		P	90 - 110
2353293	Sulfate	94.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419156

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353201	Ammonia-N	101	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419094

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353304	Kjeldahl Nitrogen	98.1	93.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419098

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353658	Kjeldahl Nitrogen	101	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419215

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353301	NO2NO3-N	98.5	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419039

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353290	Total-P	106	105	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P419040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353370	Total-P	104	105	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	Avobenzene	64.2	98.6	P/P	59 - 206
2353329	Dechlorane Plus	80.9	112	P/P	50 - 150
2353329	Octinoxate	75.8	98.5	P/P	25 - 150
2353329	Oxybenzone	70.0	90.0	P/P	59 - 147
2353329	PBDE-47	73.6	94.6	P/P	50 - 150
2353329	PBDE-99	70.7	93.8	P/P	50 - 150
2353329	Tri-o-cresyl Phosphate	73.3	93.8	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
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

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	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	Oxychlorane	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 8270E

Batch ID: P419392

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355923	Acetochlor	105	97.1	P/P	65 - 124
2355923	Alachlor	120	112	P/P	61 - 121
2355923	Ametryn	103	118	P/P	52 - 216
2355923	Atrazine Desethyl	38.5	37.8	P/P	15 - 160
2355923	Azinphos Methyl	142	153	P/P	40 - 292
2355923	Azoxystrobin	220	217	P/P	12 - 242
2355923	Bromacil	90.1	79.1	P/P	54 - 167
2355923	Butylate	20.4	23.4	P/P	14 - 94.0
2355923	Carbophenothion	99.6	94.6	P/P	49 - 122
2355923	Carfentrazone Ethyl	136	115	P/P	53 - 138
2355923	Chlorfenapyr	90.4	77.6	P/P	50 - 150
2355923	Chlorpyrifos Ethyl	115	94.0	P/P	52 - 122
2355923	Chlorpyrifos Methyl	101	88.3	P/P	66 - 117
2355923	Coumaphos	146	126	P/P	50 - 220
2355923	Cyanazine	220	217	P/P	43 - 245
2355923	Cyprodinil	97.1	75.5	P/P	50 - 150
2355923	Demeton	67.4	65.2	P/P	43 - 188
2355923	Diazinon	84.1	79.9	P/P	69 - 131
2355923	Difenoconazole	136	146	P/P	34 - 231
2355923	Dimethenamid	103	93.8	P/P	55 - 118
2355923	Dimethomorph	119	142	P/P	50 - 150
2355923	Disulfoton	73.5	62.9	P/P	38 - 141
2355923	Dithiopyr	111	97.6	P/P	42 - 116
2355923	EPTC	26.8	26.6	P/P	18 - 85.0
2355923	Ethion	97.3	84.7	P/P	10 - 131
2355923	Ethoprop	116	105	P/P	65 - 129
2355923	Etridiazole	81.6	82.8	P/P	50 - 150
2355923	Fenamiphos	114	104	P/P	31 - 137
2355923	Fenbuconazole	156	158	P/P	57 - 160
2355923	Fipronil Desulfinyl	120	102	P/P	57 - 131

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P419392

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2355923	Fluazifop-P-butyl	100	87.5	P/P	54 - 133
2355923	Fludioxonil	91.9	106	P/P	58 - 127
2355923	Flumioxazin	149	102	P/P	33 - 300
2355923	Flutolanil	89.1	81.6	P/P	42 - 130
2355923	Fluxapyroxad	84.1	54.9	P/P	23 - 141
2355923	Fonofos	75.3	63.9	P/P	58 - 119
2355923	Imazalil	202	167	P/P	48 - 283
2355923	Iprodione	91.5	85.9	P/P	38 - 140
2355923	Malathion	89.0	86.1	P/P	40 - 137
2355923	Metaxyl	52.3	52.5	P/P	21 - 129
2355923	Metolachlor	60.2	60.0	P/P	55 - 122
2355923	Metribuzin	132	132	P/P	38 - 187
2355923	Mevinphos	107	90.8	P/P	54 - 134
2355923	Molinate	45.6	42.9	P/P	41 - 97.0
2355923	Myclobutanil	98.8	87.0	P/P	56 - 125
2355923	Naled	91.4	89.5	P/P	10 - 108
2355923	Napropamide	85.9	63.8	P/P	50 - 150
2355923	Norflurazon	122	104	P/P	32 - 122
2355923	Oxadiazon	50.4	45.9	P/P	40 - 119
2355923	Oxyfluorfen	164	143	F/P	61 - 153
2355923	Parathion Ethyl	99.6	92.4	P/P	59 - 130
2355923	Parathion Methyl	113	112	P/P	65 - 155
2355923	Pendimethalin	91.2	86.4	P/P	49 - 138
2355923	Phenytoin	141	41.3	P/F	50 - 200
2355923	Phorate	110	104	P/P	54 - 161
2355923	Prodiamine	55.2	61.0	P/P	33 - 161
2355923	Prometon	78.1	80.6	P/P	48 - 140
2355923	Prometryn	62.4	54.7	P/F	55 - 134
2355923	Pronamide	73.1	68.6	P/P	66 - 137
2355923	Propanil	121	120	P/P	50 - 150
2355923	Propargite	199	174	P/P	50 - 200
2355923	Propiconazole	141	141	P/P	36 - 150
2355923	Pyraflufen Ethyl	139	125	P/P	50 - 150
2355923	Pyridaben	189	175	P/P	50 - 200
2355923	Pyriproxyfen	94.0	92.1	P/P	10 - 165
2355923	Simazine	118	108	P/P	57 - 145
2355923	Stirophos	100	57.4	P/P	50 - 150
2355923	Sulfentrazone	80.1	57.7	P/P	34 - 140
2355923	Terbufos	129	121	P/P	59 - 138
2355923	Terbuthylazine	115	116	P/P	68 - 119
2355923	Thiobencarb	121	107	P/P	50 - 150
2355923	Triadimefon	115	110	P/P	50 - 150

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

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	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
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	MCPP	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

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P418942

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353621	Propoxur	82.2	75.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P419623

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353393	Fluoride	98.2	97.5	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419186

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353290	Organic Carbon	96.4	96.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P418965

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353300	Color (true)	0.421	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418947

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353300	Turbidity	1.72	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: P419472

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353292	Sulfate	0.408	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419156

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353201	Ammonia-N	1.01	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419094

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353304	Kjeldahl Nitrogen	3.52	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419097

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353316	Kjeldahl Nitrogen	2.05	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419098

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353658	Kjeldahl Nitrogen	0.516	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419215

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353301	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353290	Total-P	0.910	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P419040

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353370	Total-P	0.481	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	Avobenzone	42.1	Spike	F	0 - 30
2353329	Dechlorane Plus	32.2	Spike	F	0 - 30
2353329	Octinoxate	26.0	Spike	P	0 - 30
2353329	Oxybenzone	25.0	Spike	P	0 - 30
2353329	PBDE-47	24.9	Spike	P	0 - 30
2353329	PBDE-99	28.2	Spike	P	0 - 30
2353329	Tri-o-cresyl Phosphate	24.6	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
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

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	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 8270E
Batch ID: P419392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355923	Acetochlor	8.11	Spike	P	0 - 27
2355923	Alachlor	7.34	Spike	P	0 - 27
2355923	Ametryn	13.5	Spike	P	0 - 34
2355923	Atrazine	0.258	Spike	P	0 - 41
2355923	Atrazine Desethyl	1.78	Spike	P	0 - 38
2355923	Azinphos Methyl	7.47	Spike	P	0 - 62
2355923	Azoxystrobin	1.16	Spike	P	0 - 32
2355923	Bromacil	13.0	Spike	P	0 - 30
2355923	Butylate	13.7	Spike	P	0 - 59
2355923	Caffeine	3.21	Spike	P	0 - 60
2355923	Carbophenothion	5.14	Spike	P	0 - 25
2355923	Carfentrazone Ethyl	16.7	Spike	P	0 - 26
2355923	Chlorfenapyr	12.0	Spike	P	0 - 30
2355923	Chlorpyrifos Ethyl	20.3	Spike	P	0 - 27
2355923	Chlorpyrifos Methyl	13.0	Spike	P	0 - 26
2355923	Coumaphos	14.8	Spike	P	0 - 30
2355923	Cyanazine	1.37	Spike	P	0 - 58
2355923	Cyprodinil	25.1	Spike	P	0 - 30
2355923	Demeton	3.35	Spike	P	0 - 25
2355923	Diazinon	5.19	Spike	P	0 - 29
2355923	Difenoconazole	6.73	Spike	P	0 - 25
2355923	Dimethenamid	9.76	Spike	P	0 - 30
2355923	Dimethomorph	17.6	Spike	P	0 - 30
2355923	Disulfoton	15.5	Spike	P	0 - 33
2355923	Dithiopyr	10.4	Spike	P	0 - 22

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P419392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355923	EPTC	0.938	Spike	P	0 - 38
2355923	Ethion	13.9	Spike	P	0 - 79
2355923	Ethoprop	9.69	Spike	P	0 - 23
2355923	Etridiazole	1.45	Spike	P	0 - 30
2355923	Fenamiphos	9.43	Spike	P	0 - 58
2355923	Fenbuconazole	1.38	Spike	P	0 - 37
2355923	Fipronil	4.77	Spike	P	0 - 33
2355923	Fipronil Desulfinyl	13.4	Spike	P	0 - 26
2355923	Fipronil Sulfide	1.35	Spike	P	0 - 37
2355923	Fipronil Sulfone	2.49	Spike	P	0 - 50
2355923	Fluazifop-P-butyl	13.5	Spike	P	0 - 24
2355923	Fludioxonil	10.3	Spike	P	0 - 26
2355923	Flumioxazin	36.9	Spike	P	0 - 37
2355923	Flutolanil	8.50	Spike	P	0 - 26
2355923	Fluxapyroxad	39.9	Spike	F	0 - 34
2355923	Fonofos	16.5	Spike	P	0 - 27
2355923	Hexazinone	9.03	Spike	P	0 - 36
2355923	Imazalil	19.3	Spike	P	0 - 65
2355923	Iprodione	6.30	Spike	P	0 - 33
2355923	Loratadine	27.8	Spike	P	0 - 30
2355923	Malathion	3.25	Spike	P	0 - 44
2355923	Metalaxyl	0.368	Spike	P	0 - 38
2355923	Metolachlor	0.337	Spike	P	0 - 36
2355923	Metribuzin	0.145	Spike	P	0 - 63
2355923	Mevinphos	16.3	Spike	P	0 - 26
2355923	Molinate	6.14	Spike	P	0 - 40
2355923	Myclobutanil	11.8	Spike	P	0 - 21
2355923	Naled	2.04	Spike	P	0 - 26
2355923	Napropamide	29.6	Spike	P	0 - 30
2355923	Norflurazon	15.9	Spike	P	0 - 24
2355923	Oxadiazon	9.39	Spike	P	0 - 27
2355923	Oxyfluorfen	13.4	Spike	P	0 - 24
2355923	Parathion Ethyl	7.48	Spike	P	0 - 28
2355923	Parathion Methyl	1.32	Spike	P	0 - 27
2355923	Pendimethalin	5.45	Spike	P	0 - 31
2355923	Phenytoin	60.3	Spike	F	0 - 30
2355923	Phorate	5.02	Spike	P	0 - 27
2355923	Prodiamine	9.88	Spike	P	0 - 52
2355923	Prometon	3.24	Spike	P	0 - 31
2355923	Prometryn	13.2	Spike	P	0 - 28
2355923	Pronamide	6.41	Spike	P	0 - 26
2355923	Propanil	0.850	Spike	P	0 - 30
2355923	Propargite	12.9	Spike	P	0 - 30
2355923	Propiconazole	0.293	Spike	P	0 - 31
2355923	Pyraflufen Ethyl	10.2	Spike	P	0 - 30
2355923	Pyridaben	7.45	Spike	P	0 - 30
2355923	Pyriproxyfen	2.01	Spike	P	0 - 50
2355923	Simazine	8.52	Spike	P	0 - 29
2355923	Stirophos	54.4	Spike	F	0 - 30
2355923	Sulfentrazone	18.6	Spike	P	0 - 33
2355923	Tebuconazole	29.1	Spike	P	0 - 44

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P419392

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2355923	Terbufos	5.97	Spike	P	0 - 29
2355923	Terbuthylazine	1.52	Spike	P	0 - 27
2355923	Thiobencarb	12.2	Spike	P	0 - 30
2355923	Triadimefon	4.60	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

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	MCP	6.97	Spike	P	0 - 30
2352724	Naproxen	6.99	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P418839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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
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: P419035

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353351	Total Alkalinity	0.596	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P419428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353352	TDS	3.48	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P419623

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353393	Fluoride	0.476	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P419186

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353290	Organic Carbon	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

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

Quality Assurance Report Surrogates

Lab Sample ID: 2353324
Field Sample ID: G4NW0421

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	86.1	P	30 - 160

Lab Sample ID: 2353325
Field Sample ID: G4NW0421

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	37.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	95.5	P	30 - 160
EPA 8321B	Diuron-d6	109	P	30 - 160
EPA 8321B	Endothall-d6	92.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	78.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	95.6	P	30 - 160
EPA 8321B	Primidone-d5	47.1	P	30 - 160
EPA 8321B	Sucralose-d6	11.7	F	30 - 160

Lab Sample ID: 2353328
Field Sample ID: G4NW0421

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	73.5	P	29 - 130
EPA 8270E	Decachlorobiphenyl	79.9	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	56.7	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	51.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	73.0	P	30 - 101
EPA 8276	PCNB	70.4	P	48 - 121

Lab Sample ID: 2353329
Field Sample ID: G4NW0421

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	41.8	P	20 - 200
EPA 8270E	Caffeine-d9	101	P	20 - 200
EPA 8270E	Simazine-d10	107	P	71 - 140
EPA 8270E	Simazine-d10	64.6	F	71 - 140
EPA 8270E	Terbufos-d10	63.4	P	62 - 131
EPA 8270E	Terbufos-d10	122	P	62 - 131
EPA 8270E	Terphenyl-d14	62.4	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114462

Included Lab Sample IDs: 2353300, 2353302, 2353303

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: 2353300, 2353302, 2353303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A114506

Included Lab Sample IDs: 2353300, 2353302, 2353303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	106	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114548

Included Lab Sample IDs: 2353301, 2353304, 2353305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	99.8	P/P	90 - 110
Total-P	99.8	99.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114551

Included Lab Sample IDs: 2353325

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	104	107	P/P	60 - 160
Sucralose	97.6	102	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A114552

Included Lab Sample IDs: 2353325

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	102	103	P/P	60 - 160
Endothall	88.2	88.4	P/P	60 - 160
Glufosinate	81.0	92.7	P/P	60 - 160
Glyphosate	97.6	105	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114553

Included Lab Sample IDs: 2353301, 2353304, 2353305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114559

Included Lab Sample IDs: 2353333, 2353334, 2353335, 2353336, 2353337, 2353338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	102	P/P	90 - 110
Iron	105	103	P/P	90 - 110
Magnesium	104	102	P/P	90 - 110
Potassium	101	99.1	P/P	90 - 110
Sodium	102	100	P/P	90 - 110
Strontium	99.6	99.5	P/P	90 - 110
Tin	104	107	P/P	90 - 110
Titanium	103	104	P/P	90 - 110
Vanadium	101	102	P/P	90 - 110
Zinc	102	104	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114566

Included Lab Sample IDs: 2353334, 2353335, 2353336, 2353337, 2353338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.4	96.6	P/P	90 - 110
Antimony	98.6	98.7	P/P	90 - 110
Arsenic	98.2	99.7	P/P	90 - 110
Barium	96.0	97.3	P/P	90 - 110
Boron	99.9	98.3	P/P	90 - 110
Cadmium	102	102	P/P	90 - 110
Chromium	97.6	98.3	P/P	90 - 110
Cobalt	95.7	95.7	P/P	90 - 110
Manganese	98.2	99.0	P/P	90 - 110
Nickel	95.7	96.8	P/P	90 - 110
Selenium	97.4	95.9	P/P	90 - 110
Silver	95.9	95.5	P/P	90 - 110
Thallium	100	99.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114569

Included Lab Sample IDs: 2353304

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

Reference Method: SM 5310 B-2011

Run ID: A114570

Included Lab Sample IDs: 2353301, 2353304, 2353305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	95.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114574

Included Lab Sample IDs: 2353301, 2353304, 2353305

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114576

Included Lab Sample IDs: 2353301, 2353305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	103	P/P	90 - 110
Kjeldahl Nitrogen	107	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114593

Included Lab Sample IDs: 2353333, 2353334, 2353335, 2353336, 2353337, 2353338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.9	100	P/P	90 - 110
Antimony	100	101	P/P	90 - 110
Arsenic	105	103	P/P	90 - 110
Barium	101	101	P/P	90 - 110
Beryllium	96.4	97.3	P/P	90 - 110
Beryllium	97.9	96.4	P/P	90 - 110
Boron	103	103	P/P	90 - 110
Cadmium	104	104	P/P	90 - 110
Chromium	106	105	P/P	90 - 110
Cobalt	101	98.8	P/P	90 - 110
Copper	102	102	P/P	90 - 110
Copper	103	102	P/P	90 - 110
Lead	94.4	95.0	P/P	90 - 110
Lead	95.0	95.1	P/P	90 - 110
Manganese	106	106	P/P	90 - 110
Molybdenum	101	101	P/P	90 - 110
Molybdenum	101	101	P/P	90 - 110
Nickel	102	99.6	P/P	90 - 110
Selenium	104	103	P/P	90 - 110
Silver	99.8	99.7	P/P	90 - 110
Thallium	105	105	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A114600

Included Lab Sample IDs: 2353300, 2353302, 2353303

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

Reference Method: EPA 8321B

Run ID: A114605

Included Lab Sample IDs: 2353325

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	102	81.2	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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A114605
Included Lab Sample IDs: 2353324

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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

Reference Method: EPA 8270E
Run ID: A114625
Included Lab Sample IDs: 2353328

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
DDD-p,p'	101		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	99.3		P	80 - 120
Delta-BHC	99.3		P	80 - 120
Deltamethrin	93.5		P	80 - 120
Dichlobenil	97.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114625
Included Lab Sample IDs: 2353328

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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

Reference Method: EPA 8270E
Run ID: A114630
Included Lab Sample IDs: 2353328

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: 2353328

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114671
Included Lab Sample IDs: 2353329

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.8		P	80 - 120
Avobenzene	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: SM 4500-F- C-2011
Run ID: A114739
Included Lab Sample IDs: 2353300, 2353302, 2353303

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	99.5	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A114821
Included Lab Sample IDs: 2353329

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	103		P	80 - 120
Ametryn	113		P	80 - 120
Atrazine	103		P	80 - 120
Atrazine Desethyl	99.7		P	80 - 120
Azinphos Methyl	111		P	80 - 120
Azoxystrobin	93.4		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	108		P	80 - 120
Caffeine	95.1		P	80 - 120
Carbophenothion	104		P	80 - 120
Carfentrazone Ethyl	104		P	80 - 120
Chlorfenapyr	105		P	80 - 120
Chlorpyrifos Ethyl	101		P	80 - 120
Chlorpyrifos Methyl	99.5		P	80 - 120
Coumaphos	92.9		P	80 - 120
Cyanazine	101		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	105		P	80 - 120
Difenoconazole	100		P	80 - 120
Dimethenamid	104		P	80 - 120
Dimethomorph	96.8		P	80 - 120
Disulfoton	104		P	80 - 120
Dithiopyr	107		P	80 - 120
EPTC	100		P	80 - 120
Ethion	100		P	80 - 120
Ethoprop	99.0		P	80 - 120
Etridiazole	99.6		P	80 - 120
Fenamiphos	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114821
Included Lab Sample IDs: 2353329

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenbuconazole	96.2		P	80 - 120
Fipronil	105		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	106		P	80 - 120
Fluazifop-P-butyl	104		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	88.7		P	80 - 120
Flutolanil	99.8		P	80 - 120
Fluxapyroxad	117		P	80 - 120
Fonofos	92.6		P	80 - 120
Hexazinone	99.9		P	80 - 120
Imazalil	96.7		P	80 - 120
Iprodione	93.6		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	91.4		P	80 - 120
Metaxyl	105		P	80 - 120
Metolachlor	99.9		P	80 - 120
Metribuzin	106		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	104		P	80 - 120
Myclobutanil	108		P	80 - 120
Naled	95.6		P	80 - 120
Napropamide	98.2		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	106		P	80 - 120
Parathion Ethyl	107		P	80 - 120
Parathion Methyl	104		P	80 - 120
Pendimethalin	102		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	120		P	80 - 120
Prometon	110		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	95.0		P	80 - 120
Propanil	100		P	80 - 120
Propargite	103		P	80 - 120
Propiconazole	101		P	80 - 120
Pyraflufen Ethyl	96.3		P	80 - 120
Pyridaben	96.3		P	80 - 120
Pyriproxyfen	97.2		P	80 - 120
Simazine	99.2		P	80 - 120
Stirophos	103		P	80 - 120
Sulfentrazone	98.6		P	80 - 120
Tebuconazole	113		P	80 - 120
Terbufos	98.4		P	80 - 120
Terbuthylazine	102		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	94.8		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
Run ID: A114834
Included Lab Sample IDs: 2353329

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Phenytoin	104		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	101					0.421	
EPA 180.1 Rev. 2.0	Turbidity	96.3					1.72	
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	99.5	95.6	94.8			0.408	
EPA 350.1 Rev. 2.0	Ammonia-N	99.0	101	100				1.01
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.8	98.1	93.5				3.52
	Kjeldahl Nitrogen	94.9						2.05
	Kjeldahl Nitrogen	96.6	101	102				0.516
EPA 353.2 Rev. 2.0	NO2NO3-N	104	98.5	98.5				0.0
EPA 365.1 Rev. 2.0	Total-P	102	106	105				0.910
	Total-P	104	104	105				0.481
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	59.7	77.6	104				29.3
	Acetochlor	86.6	105	97.1				8.11
	Alachlor	79.9	120	112				7.34
	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	79.2	103	118				13.5
	Atrazine	81.1						0.258
	Atrazine Desethyl	61.3	38.5	37.8				1.78
	Avobenzone	62.2	64.2	98.6				42.1
	Azinphos Methyl	109	142	153				7.47
	Azoxystrobin	104	220	217				1.16
	Beta-BHC	86.6	118	116				1.79
	Beta-Cyfluthrin	53.8	88.8	86.3				2.86

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Bifenthrin	34.5	65.9	66.6			1.06
	Bromacil	108	90.1	79.1			13.0
	Butylate	40.8	20.4	23.4			13.7
	Caffeine	72.6					3.21
	Carbophenothion	81.0	99.6	94.6			5.14
	Carfentrazone Ethyl	88.8	136	115			16.7
	Chlorfenapyr	83.3	90.4	77.6			12.0
	Chlorothalonil	65.4	82.7	77.1			7.04
	Chlorpyrifos Ethyl	106	115	94.0			20.3
	Chlorpyrifos Methyl	93.1	101	88.3			13.0
	Cis-Nonachlor	56.2	62.8	63.1			0.400
	Coumaphos	144	146	126			14.8
	Cyanazine	130	220	217			1.37
	Cypermethrin	53.6	88.8	86.8			2.31
	Cyprodinil	107	97.1	75.5			25.1
	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	85.9	67.4	65.2			3.35
	Diazinon	118	84.1	79.9			5.19
	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	112	136	146			6.73
	Dimethenamid	69.5	103	93.8			9.76
	Dimethomorph	89.4	119	142			17.6
	Disulfoton	80.3	73.5	62.9			15.5
	Dithiopyr	92.7	111	97.6			10.4
	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	46.8	26.8	26.6			0.938
	Esfenvalerate	50.4	88.3	87.3			1.08
	Ethalfuralin	73.4	76.0	82.5			8.24
	Ethion	86.8	97.3	84.7			13.9
	Ethoprop	84.1	116	105			9.69
	Etridiazole	50.6	81.6	82.8			1.45
	Fenamiphos	85.0	114	104			9.43
	Fenbuconazole	111	158	156			1.38
	Fenpropathrin	54.3	73.7	74.2			0.729
	Fipronil	55.0					4.77
	Fipronil Desulfinyl	72.4	120	102			13.4
	Fipronil Sulfide	52.5					1.35
	Fipronil Sulfone	70.1					2.49
	Fluazifop-P-butyl	87.8	100	87.5			13.5
	Fludioxonil	86.3	91.9	106			10.3
	Flumioxazin	98.3	149	102			36.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Flutolanil	89.7	89.1	81.6			8.50
	Fluxapyroxad	104	84.1	54.9			39.9
	Fonofos	81.6	75.3	63.9			16.5
	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	87.2					9.03
	Imazalil	74.8	202	167			19.3
	Iprodione	134	91.5	85.9			6.30
	Kepone	181	199	193			3.11
	Lambda-Cyhalothrin	45.7	82.7	80.0			3.31
	Loratadine	113					27.8
	Malathion	95.7	89.0	86.1			3.25
	Metalaxyl	89.4	52.3	52.5			0.368
	Methoprene	37.3	55.3	62.1			11.4
	Methoxychlor	75.3	97.2	95.9			1.33
	Metolachlor	93.8	60.2	60.0			0.337
	Metribuzin	89.5	132	132			0.145
	Mevinphos	73.2	107	90.8			16.3
	MGK-264	71.4	87.7	88.0			0.423
	Mirex	46.0	58.8	59.7			1.45
	Molinate	61.5	45.6	42.9			6.14
	Myclobutanil	98.2	98.8	87.0			11.8
	Naled	83.8	91.4	89.5			2.04
	Napropamide	67.8	85.9	63.8			29.6
	Norflurazon	82.8	122	104			15.9
	Octinoxate	56.3	75.8	98.5			26.0
	Oxadiazon	77.1	50.4	45.9			9.39
	Oxybenzone	59.1	70.0	90.0			25.0
	Oxychlordane	68.1	77.3	76.6			0.912
	Oxyfluorfen	98.5	164	143			13.4
	Parathion Ethyl	74.6	99.6	92.4			7.48
	Parathion Methyl	98.3	113	112			1.32
	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	74.4	91.2	86.4			5.45
	Permethrin	51.8	83.0	83.8			1.02
	Phenothrin	37.2	65.0	65.5			0.849
	Phenytoin	25.2	141	41.3			60.3
	Phorate	82.0	110	104			5.02
	Piperonyl Butoxide	75.0	90.8	89.5			1.47
	Prallethrin	64.9	76.8	80.7			4.97
	Prodiamine	57.5	55.2	61.0			9.88
	Prometon	77.1	78.1	80.6			3.24
	Prometryn	109	62.4	54.7			13.2
	Pronamide	117	73.1	68.6			6.41
	Propanil	74.4	121	120			0.850
	Propargite	120	199	174			12.9
	Propiconazole	92.8	141	141			0.293
	Pyraflufen Ethyl	92.4	139	125			10.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pyridaben	124	189	175		7.45
	Pyriproxyfen	121	94.0	92.1		2.01
	Simazine	83.8	118	108		8.52
	Stirophos	80.5	100	57.4		54.4
	Sulfentrazone	96.7	80.1	57.7		18.6
	Tau-Fluvalinate	44.2	82.7	83.0		0.410
	Tebuconazole	82.8				29.1
	Terbufos	111	129	121		5.97
	Terbutylazine	81.3	115	116		1.52
	Tetramethrin	73.2	107	107		0.277
	Thiobencarb	76.5	121	107		12.2
	Trans-Nonachlor	60.5	72.8	75.1		3.10
	Tri-o-cresyl Phosphate	65.0	73.3	93.8		24.6
	Triadimefon	78.5	115	110		4.60
	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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Propoxur	87.6	82.2	75.5		8.57
	Pyraclostrobin	83.0	92.5	94.9		2.62
	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	106			0.596	
SM 2540 C-2011	TDS				3.48	
SM 4500-F- C-2011	Fluoride	99.0	98.2	97.5		0.476
SM 5310 B-2011	Organic Carbon	96.5	96.4	96.4		0.0

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2353300, 2353302, 2353303
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2353300, 2353302, 2353303
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2353333, 2353334, 2353335, 2353336, 2353337, 2353338
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2353333, 2353334, 2353335, 2353336, 2353337, 2353338
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2353300, 2353302, 2353303
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2353300, 2353302, 2353303
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2353301, 2353304, 2353305
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2353301, 2353304, 2353305
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2353301, 2353304, 2353305
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2353301, 2353304, 2353305
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2353329
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2353328
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2353329
EPA 8270E	PCBs in water matrices by GC/MS/MS	2353328
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2353328
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2353324
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2353325
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2353300, 2353302, 2353303
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2353333, 2353334, 2353335, 2353336, 2353337, 2353338
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2353300, 2353302, 2353303
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2353300, 2353302, 2353303
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2353300, 2353302, 2353303
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2353301, 2353304, 2353305

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 15:28	Blanca Fach	2353300
	08/31/2022			08/31/2022 15:31	Blanca Fach	2353302
	08/31/2022			08/31/2022 15:32	Blanca Fach	2353303
EPA 180.1 Rev. 2.0	08/31/2022			08/31/2022 14:32	Chandler E Cox	2353300
	08/31/2022			08/31/2022 14:38	Chandler E Cox	2353302
	08/31/2022			08/31/2022 14:39	Chandler E Cox	2353303
EPA 200.7 Rev. 4.4	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 00:09	McKinley C Carter	2353333
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 00:15	McKinley C Carter	2353334
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 00:21	McKinley C Carter	2353335
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 00:26	McKinley C Carter	2353336
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 00:32	McKinley C Carter	2353337
EPA 200.8 Rev. 5.4	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 00:38	McKinley C Carter	2353338
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 01:04	Emily M Philpot	2353334
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 01:13	Emily M Philpot	2353335
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 01:22	Emily M Philpot	2353336
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 01:31	Emily M Philpot	2353337
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 01:40	Emily M Philpot	2353338
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/08/2022 05:44	Megan Whitefoot	2353333
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/08/2022 06:52	Megan Whitefoot	2353334
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/08/2022 07:01	Megan Whitefoot	2353335
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/08/2022 07:11	Megan Whitefoot	2353336
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/08/2022 07:21	Megan Whitefoot	2353337
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/08/2022 07:30	Megan Whitefoot	2353338
EPA 300.0 Rev. 2.1	08/31/2022			09/10/2022 04:57	Anna M. Plaviak	2353300
	08/31/2022			09/10/2022 05:13	Anna M. Plaviak	2353302
	08/31/2022			09/10/2022 05:28	Anna M. Plaviak	2353303
EPA 350.1 Rev. 2.0	08/31/2022			09/06/2022 14:11	Judith K. Clark	2353301
	08/31/2022			09/06/2022 14:12	Judith K. Clark	2353304
	08/31/2022			09/06/2022 14:13	Judith K. Clark	2353305
EPA 351.2 Rev. 2.0	08/31/2022	09/06/2022 14:30	Alexandra J Mattheus	09/07/2022 10:00	Alexandra J Mattheus	2353304
	08/31/2022	09/06/2022 14:30	Alexandra J Mattheus	09/07/2022 11:22	Alexandra J Mattheus	2353301
	08/31/2022	09/06/2022 14:30	Alexandra J Mattheus	09/07/2022 11:50	Alexandra J Mattheus	2353305
EPA 353.2 Rev. 2.0	08/31/2022			09/07/2022 12:00	Beverly Y. Sanders	2353301
	08/31/2022			09/07/2022 12:06	Beverly Y. Sanders	2353304
	08/31/2022			09/07/2022 12:07	Beverly Y. Sanders	2353305
EPA 365.1 Rev. 2.0	08/31/2022	09/02/2022 10:28	Simonne.V. Calhoun	09/06/2022 13:11	James L Waggeberby	2353301
	08/31/2022	09/02/2022 10:28	Simonne.V. Calhoun	09/06/2022 13:31	James L Waggeberby	2353304
	08/31/2022	09/02/2022 10:28	Simonne.V. Calhoun	09/06/2022 13:32	James L Waggeberby	2353305
EPA 8270E	08/31/2022	09/01/2022 09:30	Rasheda Ghaffari	09/09/2022 16:16	Lipi Saha	2353329
	08/31/2022	09/06/2022 08:30	Rasheda Ghaffari	09/08/2022 18:49	Vandana T. Nagar	2353328

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	08/31/2022	09/06/2022 08:30	Rasheda Ghaffari	09/08/2022 23:29	Julie Wi	2353328
	08/31/2022	09/14/2022 08:30	Rasheda Ghaffari	09/18/2022 17:46	Michael Poppell	2353329
	08/31/2022	09/14/2022 08:30	Rasheda Ghaffari	09/20/2022 19:48	Michael Poppell	2353329
EPA 8276	08/31/2022	09/06/2022 08:30	Rasheda Ghaffari	09/09/2022 11:39	Arthur Maknenko	2353328
EPA 8321B	08/31/2022	09/01/2022 09:00	June Rhew	09/08/2022 19:48	Juyoung Kim	2353325
	08/31/2022	09/01/2022 09:00	June Rhew	09/08/2022 23:16	Juyoung Kim	2353325
	08/31/2022	09/01/2022 14:00	Umesh Chiluwal	09/02/2022 01:07	Umesh Chiluwal	2353325
	08/31/2022	09/01/2022 14:00	Umesh Chiluwal	09/03/2022 02:13	Umesh Chiluwal	2353325
	08/31/2022	09/02/2022 13:00	Hoor Shaik	09/07/2022 19:54	Juyoung Kim	2353324
SM 2320 B-2011	08/31/2022			09/02/2022 05:54	Dale L. Simmons	2353300
	08/31/2022			09/02/2022 06:02	Dale L. Simmons	2353302
	08/31/2022			09/02/2022 06:11	Dale L. Simmons	2353303
SM 2340 B-2011	08/31/2022			09/07/2022 00:09	McKinley C Carter	2353333
	08/31/2022			09/07/2022 00:15	McKinley C Carter	2353334
	08/31/2022			09/07/2022 00:21	McKinley C Carter	2353335
	08/31/2022			09/07/2022 00:26	McKinley C Carter	2353336
	08/31/2022			09/07/2022 00:32	McKinley C Carter	2353337
	08/31/2022			09/07/2022 00:38	McKinley C Carter	2353338
SM 2540 C-2011	08/31/2022			09/02/2022 16:08	Yijie Li	2353300, 2353302, 2353303
SM 2540 D-2011	08/31/2022			09/02/2022 16:08	Yijie Li	2353300, 2353302, 2353303
SM 4500-F- C-2011	08/31/2022			09/15/2022 04:20	Dale L. Simmons	2353300
	08/31/2022			09/15/2022 04:25	Dale L. Simmons	2353302
	08/31/2022			09/15/2022 04:30	Dale L. Simmons	2353303
SM 5310 B-2011	08/31/2022			09/07/2022 04:50	Khloe J Berg	2353301
	08/31/2022			09/07/2022 05:03	Khloe J Berg	2353304
	08/31/2022			09/07/2022 05:17	Khloe J Berg	2353305