Chemical Analysis Report

SO-DIST-2022-12-07-01

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

Event Description: **2021 SMP : Collier County**
Request ID: **RQ-2022-08-01-20**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: William Mullen

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Certified by: Colin Wright, Program Administrator

Date Certified: 22-DEC-2022 08:59

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: 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: IMKFSHCK **Collection Date/Time: 12/06/2022 10:59**

Field ID: AF71313 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373535	EPA 8321B	Aldicarb	0.020	U	ug/L	P423250	
		Aldicarb Sulfone	0.0020	U	ug/L	P423250	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P423250	MS
		Carbaryl	0.0020	U	ug/L	P423250	
		Carbofuran	0.0020	U	ug/L	P423250	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P423250	
		Methiocarb	0.0020	U	ug/L	P423250	
		Methomyl	0.0020	U	ug/L	P423250	
		Oxamyl	0.0020	U	ug/L	P423250	
		Propoxur	0.0020	U	ug/L	P423250	
2373536		2,4-D	0.0020	U	ug/L	P423248	
		Acesulfame K	0.10	U	ug/L	P423201	
		2,4,5-T	0.0040	U	ug/L	P423248	
		AMPA	0.29	I	ug/L	P423201	
		Acetaminophen	0.0080	U	ug/L	P423248	
		Acetamiprid	0.0020	U	ug/L	P423248	
		Endothall	0.25	U	ug/L	P423201	
		Glufosinate	0.10	U	ug/L	P423201	
		Glyphosate	0.19	I	ug/L	P423201	
		Afidopyropen	0.0020	U	ug/L	P423248	
		Bentazon	8.0E-04	U	ug/L	P423248	
		Sucralose	0.021	I	ug/L	P423201	
		Benzovindiflupyr	0.0020	U	ug/L	P423248	
		Carbamazepine	8.0E-04	U	ug/L	P423248	
		Clothianidin	0.0020	U	ug/L	P423248	
		Dinotefuran	0.0020	U	ug/L	P423248	
		Diuron	0.0020	U	ug/L	P423248	
		Fenuron	0.032	U	ug/L	P423248	
		Fluridone	0.0043		ug/L	P423248	
		Imazapyr	0.11		ug/L	P423248	
		Hydrocodone	0.0020	U	ug/L	P423248	
		Ibuprofen	0.20	U	ug/L	P423248	
		Imidacloprid	0.0077	I	ug/L	P423248	
		Linuron	0.0040	U	ug/L	P423248	
		Mandestrobin	0.0020	U	ug/L	P423248	
		MCPP	0.0040	U	ug/L	P423248	
		Naproxen	0.0080	U	ug/L	P423248	
		Primidone	0.0040	U	ug/L	P423248	
		Pyraclostrobin	0.0020	U	ug/L	P423248	
		Silvex	0.0040	U	ug/L	P423248	
		Thiamethoxam	0.0020	U	ug/L	P423248	
		Tolfenpyrad	0.0020	U	ug/L	P423248	
		Triclopyr	0.0040	U	ug/L	P423248	
2373553	EPA 8270E	Aldrin	0.73	U	ng/L	P423339	

Field ID: AF71313 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373553	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P423339	
		Alpha-Chlordane	0.23	U	ng/L	P423339	
		PCB-1016	2.3	U	ng/L	P423339	
		Beta-BHC	0.11	U	ng/L	P423339	
		PCB-1221	2.3	U	ng/L	P423339	
		Beta-Cyfluthrin	1.4	U	ng/L	P423339	
		PCB-1232	2.3	U	ng/L	P423339	
		Bifenthrin	0.56	U	ng/L	P423339	
		PCB-1242	2.3	U	ng/L	P423339	
		PCB-1248	2.3	U	ng/L	P423339	
		Chlorothalonil	1.4	U	ng/L	P423339	
		PCB-1254	2.3	U	ng/L	P423339	
		Cis-Nonachlor	0.23	U	ng/L	P423339	
		PCB-1260	2.3	U	ng/L	P423339	
		Cypermethrin	1.7	U	ng/L	P423339	
		Dacthal	0.17	U	ng/L	P423339	
		DDD-p,p'	0.28	U	ng/L	P423339	
		DDE-p,p'	0.23	U	ng/L	P423339	
		DDT-p,p'	0.28	U	ng/L	P423339	
		Delta-BHC	0.45	U	ng/L	P423339	
		Deltamethrin	1.4	U	ng/L	P423339	
		Dichlobenil	0.28	U	ng/L	P423339	
		Dicofol	1.4	U	ng/L	P423339	
		Dieldrin	0.45	U	ng/L	P423339	
		Endosulfan I	0.45	U	ng/L	P423339	
		Endosulfan II	0.45	U	ng/L	P423339	
		Endosulfan Sulfate	0.34	U	ng/L	P423339	
		Endrin	0.45	U	ng/L	P423339	
		Endrin Aldehyde	0.85	U	ng/L	P423339	
		Endrin Ketone	0.45	U	ng/L	P423339	
		Esfenvalerate	0.85	U	ng/L	P423339	
		Ethalfluralin	0.17	U	ng/L	P423339	
		Fenpropathrin	0.28	U	ng/L	P423339	RPD
		Gamma-BHC	0.14	U	ng/L	P423339	
		Gamma-Chlordane	0.23	U	ng/L	P423339	
		Heptachlor	0.23	U	ng/L	P423339	
		Heptachlor Epoxide	0.28	U	ng/L	P423339	
		Hexachlorobenzene**	1.1	U	ng/L	P423339	
		Kepone	5.6	U	ng/L	P423339	
		Lambda-Cyhalothrin	0.85	U	ng/L	P423339	
		Methoprene	0.85	U	ng/L	P423339	
		Methoxychlor	0.34	U	ng/L	P423339	MS, RPD
		MGK-264	0.23	U	ng/L	P423339	
		Mirex	0.40	U	ng/L	P423339	
		Oxychlordane	0.34	U	ng/L	P423339	

Field ID: AF71313 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373553	EPA 8270E	Permethrin	1.8	U	ng/L	P423339	
		Phenothrin	1.0	U	ng/L	P423339	
		Piperonyl Butoxide	0.21	I	ng/L	P423339	
		Prallethrin	2.3	U	ng/L	P423339	
		Tau-Fluvalinate	0.28	U	ng/L	P423339	
		Tetramethrin	0.85	UJ	ng/L	P423339	LCS, MS
		Trans-Nonachlor	0.23	U	ng/L	P423339	
		Triclosan Methyl	0.17	U	ng/L	P423339	
		Trifluralin	0.23	U	ng/L	P423339	
	EPA 8276	Chlordane	2.3	U	ng/L	P423339	
		Toxaphene	17	U	ng/L	P423339	RPD
2373554	EPA 8270E	Oxybenzone**	11	U	ng/L	P423233	
		Acetochlor	0.28	U	ng/L	P423233	
		Octinoxate**	22	U	ng/L	P423233	
		Alachlor	0.28	U	ng/L	P423233	
		Avobenzone**	110	U	ng/L	P423233	
		Ametryn	0.66	U	ng/L	P423233	
		Atrazine	2.3		ng/L	P423233	
		PBDE-47**	4.4	U	ng/L	P423233	
		Atrazine Desethyl	1.7	U	ng/L	P423233	
		PBDE-99**	5.5	U	ng/L	P423233	
		Azinphos Methyl	2.2	U	ng/L	P423233	
		Tri-o-cresyl Phosphate**	6.6	U	ng/L	P423233	
		Azoxystrobin	0.55	U	ng/L	P423233	
		Bromacil	3.2		ng/L	P423233	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P423233	
		Butylate	0.44	U	ng/L	P423233	
		Dechlorane Plus**	33	U	ng/L	P423233	
		Caffeine**	8.3	U	ng/L	P423233	
		Carbophenothion	0.22	U	ng/L	P423233	
		Carfentrazone Ethyl	0.11	U	ng/L	P423233	
		Chlorfenapyr	0.19	U	ng/L	P423233	
		Chlorpyrifos Ethyl	0.28	U	ng/L	P423233	
		Chlorpyrifos Methyl	0.055	U	ng/L	P423233	
		Coumaphos	0.55	U	ng/L	P423233	
		Cyanazine	3.6	U	ng/L	P423233	
		Cyprodinil	0.11	U	ng/L	P423233	
		Demeton	1.7	U	ng/L	P423233	
		Diazinon	0.14	U	ng/L	P423233	
		Difenoconazole	0.66	U	ng/L	P423233	
		Dimethenamid	0.11	U	ng/L	P423233	
		Dimethomorph	0.19	UJ	ng/L	P423233	LCS, MS
		Disulfoton	0.55	U	ng/L	P423233	
		Dithiopyr	0.69	U	ng/L	P423233	

Field ID: AF71313 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373554	EPA 8270E	EPTC	1.4	U	ng/L	P423233	
		Ethion	0.17	U	ng/L	P423233	
		Ethoprop	0.11	U	ng/L	P423233	
		Etridiazole	0.17	U	ng/L	P423233	
		Fenamiphos	0.55	U	ng/L	P423233	
		Fenbuconazole	0.20	I	ng/L	P423233	
		Fipronil	0.28	U	ng/L	P423233	
		Fipronil Desulfinyl**	0.14	U	ng/L	P423233	
		Fipronil Sulfide	0.17	U	ng/L	P423233	
		Fipronil Sulfone	0.17	U	ng/L	P423233	
		Fluazifop-P-butyl	0.11	U	ng/L	P423233	
		Fludioxonil	0.14	U	ng/L	P423233	
		Flumioxazin	5.0	U	ng/L	P423233	
		Flutolanil	0.11	U	ng/L	P423233	
		Fluxapyroxad	0.11	U	ng/L	P423233	
		Fonofos	0.22	U	ng/L	P423233	
		Hexazinone	11		ng/L	P423233	
		Imazalil	0.83	U	ng/L	P423233	
		Iprodione	0.66	U	ng/L	P423233	
		Loratadine**	0.39	U	ng/L	P423233	
		Malathion	0.39	U	ng/L	P423233	
		Metalaxyl	0.83	U	ng/L	P423233	
		Metolachlor	1.3	I	ng/L	P423233	
		Metribuzin	2.3	I	ng/L	P423233	
		Mevinphos	1.2	U	ng/L	P423233	
		Molinate	0.33	U	ng/L	P423233	
		Myclobutanil	0.28	U	ng/L	P423233	
		Naled	1.7	U	ng/L	P423233	
		Napropamide	0.44	U	ng/L	P423233	
		Norflurazon	63		ng/L	P423233	
		Oxadiazon	0.33	U	ng/L	P423233	
		Oxyfluorfen	0.17	U	ng/L	P423233	
		Parathion Ethyl	0.28	U	ng/L	P423233	
		Parathion Methyl	0.61	U	ng/L	P423233	
		Pendimethalin	1.1	U	ng/L	P423233	
		Phenytoin**	3.9	U	ng/L	P423233	
		Phorate	0.58	U	ng/L	P423233	
		Prodiamine	0.19	U	ng/L	P423233	
		Prometon	0.99	U	ng/L	P423233	
		Prometryn	0.22	U	ng/L	P423233	
		Pronamide	0.17	U	ng/L	P423233	
		Propanil	0.14	U	ng/L	P423233	
		Propargite	1.7	U	ng/L	P423233	
		Propiconazole	0.55	U	ng/L	P423233	
		Pyraflufen Ethyl	0.28	U	ng/L	P423233	

Field ID: AF71313 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373554	EPA 8270E	Pyridaben	0.50	U	ng/L	P423233	
		Pyriproxyfen	0.14	U	ng/L	P423233	
		Simazine	0.55	U	ng/L	P423233	
		Stirophos	0.14	U	ng/L	P423233	
		Sulfentrazone	9.4		ng/L	P423233	
		Tebuconazole	0.55	U	ng/L	P423233	
		Terbufos	0.11	U	ng/L	P423233	
		Terbuthylazine	0.47	U	ng/L	P423233	
		Thiobencarb	0.66	U	ng/L	P423233	
		Triadimefon	0.28	U	ng/L	P423233	

Ref. Method and Comment:
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423233

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423233

Component	Result	Code	Units
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	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	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	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	1.5	U	ng/L
Metribuzin	1.5	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423233

Component	Result	Code	Units
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423233

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

Reference Method: EPA 8270E
Batch ID: P423339

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423339

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423339

Component	Result	Code	Units
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P423339

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B
Batch ID: P423201

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: P423248

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	0.20	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: P423250

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P423233

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	84.7		P	42 - 162
Acetochlor	97.9		P	69 - 123
Alachlor	93.6		P	65 - 118
Ametryn	96.6		P	58 - 141
Atrazine	87.9		P	73 - 118
Atrazine Desethyl	83.0		P	32 - 125
Avobenzone	114		P	40 - 203
Azinphos Methyl	105		P	36 - 197
Azoxystrobin	107		P	58 - 226
Bromacil	83.2		P	48 - 120
Butylate	49.7		P	27 - 85.0
Caffeine	84.7		P	40 - 137
Carbophenothion	73.9		P	54 - 132
Carfentrazone Ethyl	114		P	60 - 142
Chlorfenapyr	71.0		P	53 - 117
Chlorpyrifos Ethyl	102		P	59 - 116
Chlorpyrifos Methyl	77.0		P	66 - 119
Coumaphos	81.2		P	11 - 234
Cyanazine	242		P	61 - 248
Cyprodinil	101		P	50 - 147
Dechlorane Plus	99.1		P	47 - 182
Demeton	116		P	30 - 138
Diazinon	116		P	67 - 126
Difenoconazole	152		P	38 - 205
Dimethenamid	80.1		P	57 - 111
Dimethomorph	298		F	16 - 212
Disulfoton	85.5		P	46 - 126
Dithiopyr	99.5		P	62 - 115
EPTC	58.2		P	28 - 80.0
Ethion	64.1		P	24 - 122
Ethoprop	94.3		P	62 - 113
Etridiazole	66.7		P	28 - 92.0
Fenamiphos	105		P	57 - 128
Fenbuconazole	112		P	52 - 155
Fipronil	98.2		P	63 - 130
Fipronil Desulfinyl	107		P	61 - 130
Fipronil Sulfide	88.5		P	56 - 117
Fipronil Sulfone	101		P	52 - 118
Fluazifop-P-butyl	120		P	61 - 128
Fludioxonil	104		P	59 - 129
Flumioxazin	72.4		P	30 - 250
Flutolanil	97.4		P	53 - 127
Fluxapyroxad	82.6		P	42 - 132
Fonofos	81.2		P	61 - 110
Hexazinone	83.3		P	46 - 139
Imazalil	94.4		P	40 - 139
Iprodione	109		P	40 - 146
Loratadine	213		P	10 - 224
Malathion	99.9		P	61 - 135
Metalaxyl	99.2		P	58 - 121
Metolachlor	90.8		P	64 - 118
Metribuzin	87.4		P	45 - 245

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P423233

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mevinphos	83.7		P	49 - 118
Molinate	65.9		P	42 - 92.0
Myclobutanil	104		P	55 - 127
Naled	102		P	10 - 114
Napropamide	88.2		P	39 - 121
Norflurazon	57.7		P	55 - 129
Octinoxate	91.5		P	26 - 166
Oxadiazon	81.7		P	54 - 115
Oxybenzone	88.5		P	49 - 135
Oxyfluorfen	112		P	64 - 139
Parathion Ethyl	89.0		P	70 - 111
Parathion Methyl	93.5		P	76 - 136
PBDE-47	82.2		P	41 - 148
PBDE-99	84.0		P	38 - 147
Pendimethalin	95.8		P	52 - 118
Phenytoin	15.6		P	10 - 162
Phorate	83.6		P	40 - 122
Prodiamine	39.3		P	26 - 141
Prometon	86.9		P	54 - 122
Prometryn	95.7		P	61 - 128
Pronamide	99.3		P	72 - 121
Propanil	86.1		P	45 - 144
Propargite	49.2		P	10 - 199
Propiconazole	62.4		P	56 - 127
Pyraflufen Ethyl	67.2		P	56 - 140
Pyridaben	118		P	26 - 211
Pyriproxyfen	82.7		P	33 - 194
Simazine	81.4		P	67 - 121
Stirophos	69.8		P	20 - 142
Sulfentrazone	83.1		P	21 - 144
Tebuconazole	44.0		P	10 - 122
Terbufos	94.7		P	60 - 129
Terbuthylazine	87.0		P	69 - 113
Thiobencarb	87.4		P	51 - 120
Tri-o-cresyl Phosphate	99.2		P	49 - 150
Triadimefon	93.1		P	56 - 114

Reference Method: EPA 8270E
Batch ID: P423339

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	51.6		P	10 - 92.0
Alpha-BHC	87.8		P	75 - 107
Alpha-Chlordane	85.2		P	50 - 108
Beta-BHC	124		P	36 - 138
Beta-Cyfluthrin	75.7		P	20 - 161
Bifenthrin	54.3		P	10 - 119
Chlorothalonil	132		P	26 - 186
Cis-Nonachlor	62.7		P	42 - 119
Cypermethrin	61.0		P	22 - 150
Dacthal	89.6		P	72 - 119
DDD-p,p'	68.4		P	45 - 107

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P423339

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDE-p,p'	68.8		P	48 - 106
DDT-p,p'	61.6		P	48 - 110
Delta-BHC	119		P	54 - 140
Deltamethrin	45.2		P	22 - 189
Dichlobenil	77.0		P	36 - 117
Dicofol	77.6		P	46 - 155
Dieldrin	74.1		P	54 - 110
Endosulfan I	69.7		P	59 - 105
Endosulfan II	82.5		P	51 - 118
Endosulfan Sulfate	92.0		P	57 - 121
Endrin	75.2		P	10 - 120
Endrin Aldehyde	83.2		P	34 - 118
Endrin Ketone	82.4		P	69 - 177
Esfenvalerate	59.8		P	23 - 168
Ethalfluralin	71.6		P	49 - 99.0
Fenpropathrin	60.2		P	34 - 117
Gamma-BHC	76.5		P	72 - 117
Gamma-Chlordane	62.3		P	43 - 106
Heptachlor	53.4		P	41 - 98.0
Heptachlor Epoxide	71.9		P	57 - 106
Hexachlorobenzene	62.2		P	36 - 99.0
Kepone	98.4		P	16 - 215
Lambda-Cyhalothrin	53.4		P	21 - 177
Methoprene	69.0		P	10 - 119
Methoxychlor	69.2		P	60 - 112
MGK-264	86.5		P	26 - 122
Mirex	49.3		P	10 - 169
Oxychlordane	67.5		P	43 - 105
PCB-1016	73.0		P	48 - 112
PCB-1260	65.6		P	44 - 118
Permethrin	84.6		P	24 - 148
Phenothrin	64.4		P	10 - 106
Piperonyl Butoxide	95.0		P	10 - 139
Prallethrin	103		P	17 - 109
Tau-Fluvalinate	60.4		P	13 - 131
Tetramethrin	133		F	10 - 132
Trans-Nonachlor	66.9		P	44 - 106
Triclosan Methyl	71.3		P	59 - 109
Trifluralin	75.2		P	44 - 101

Reference Method: EPA 8276
Batch ID: P423339

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	70.2		P	61 - 116
Toxaphene	73.2		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P423201

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	63.7		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P423201

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	87.1		P	40 - 150
Endothall	106		P	40 - 150
Glufosinate	99.4		P	40 - 150
Glyphosate	94.5		P	40 - 150
Sucralose	128		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P423248

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	90.9		P	40 - 150
2,4,5-T	64.7		P	40 - 150
Acetaminophen	81.6		P	30 - 150
Acetamiprid	87.5		P	40 - 150
Afidopyropen	78.1		P	30 - 150
Bentazon	96.6		P	30 - 150
Benzovindiflupyr	83.1		P	40 - 150
Carbamazepine	83.1		P	40 - 150
Clothianidin	89.7		P	40 - 150
Dinotefuran	98.8		P	40 - 150
Diuron	71.2		P	40 - 150
Fenuron	93.3		P	40 - 150
Fluridone	84.4		P	40 - 150
Hydrocodone	96.3		P	40 - 150
Ibuprofen	76.9		P	40 - 150
Imazapyr	81.6		P	40 - 150
Imidacloprid	87.7		P	40 - 150
Linuron	80.0		P	40 - 150
Mandestrobin	90.9		P	40 - 150
MCPP	82.1		P	40 - 150
Naproxen	97.6		P	40 - 150
Primidone	91.8		P	40 - 150
Pyraclostrobin	73.8		P	40 - 150
Silvex	79.3		P	40 - 150
Thiamethoxam	97.9		P	40 - 150
Tolfenpyrad	36.9		P	30 - 150
Triclopyr	72.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P423250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	83.0		P	40 - 150
Aldicarb	57.9		P	30 - 150
Aldicarb Sulfone	90.5		P	40 - 150
Aldicarb Sulfoxide	98.8		P	40 - 150
Carbaryl	75.6		P	40 - 150
Carbofuran	76.6		P	40 - 150
Methiocarb	65.8		P	40 - 150
Methomyl	87.0		P	40 - 150
Oxamyl	95.5		P	40 - 150
Propoxur	72.0		P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P423233

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373610	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	64.7	58.5	P/P	26 - 165
2373610	Acetochlor	98.8	91.0	P/P	67 - 124
2373610	Alachlor	85.8	80.1	P/P	60 - 120
2373610	Ametryn	110	116	P/P	54 - 216
2373610	Atrazine	98.1	92.4	P/P	66 - 128
2373610	Atrazine Desethyl	100	87.9	P/P	15 - 122
2373610	Avobenzone	76.7	69.1	P/P	37 - 178
2373610	Azinphos Methyl	95.8	91.4	P/P	40 - 292
2373610	Azoxystrobin	112	123	P/P	35 - 220
2373610	Bromacil	73.7	75.1	P/P	45 - 127
2373610	Butylate	38.4	45.1	P/P	20 - 83.0
2373610	Caffeine	81.0	80.0	P/P	10 - 194
2373610	Carbophenothion	70.3	66.5	P/P	57 - 127
2373610	Carfentrazone Ethyl	107	96.5	P/P	51 - 141
2373610	Chlorfenapyr	61.1	67.7	P/P	46 - 111
2373610	Chlorpyrifos Ethyl	107	96.5	P/P	52 - 120
2373610	Chlorpyrifos Methyl	72.8	74.8	P/P	63 - 119
2373610	Coumaphos	69.6	67.3	P/P	10 - 228
2373610	Cyanazine	232	231	P/P	59 - 241
2373610	Cyprodinil	106	99.0	P/P	47 - 146
2373610	Dechlorane Plus	67.2	61.1	P/P	50 - 150
2373610	Demeton	117	118	P/P	40 - 136
2373610	Diazinon	128	119	P/P	69 - 132
2373610	Difenoconazole	139	129	P/P	57 - 258
2373610	Dimethenamid	83.3	73.6	P/P	54 - 110
2373610	Dimethomorph	227	208	F/P	28 - 210
2373610	Disulfoton	100	92.9	P/P	43 - 133
2373610	Dithiopyr	106	94.9	P/P	39 - 116
2373610	EPTC	41.2	55.0	P/P	20 - 78.0
2373610	Ethion	49.9	51.4	P/P	17 - 119
2373610	Ethoprop	101	99.0	P/P	66 - 120
2373610	Etridiazole	55.2	61.1	P/P	28 - 96.0
2373610	Fenamiphos	96.1	93.0	P/P	41 - 126
2373610	Fenbuconazole	97.3	93.2	P/P	42 - 169
2373610	Fipronil	96.3	93.0	P/P	61 - 132
2373610	Fipronil Desulfinyl	104	99.6	P/P	56 - 132
2373610	Fipronil Sulfide	89.6	89.2	P/P	48 - 119
2373610	Fipronil Sulfone	70.8	85.9	P/P	42 - 131
2373610	Fluazifop-P-butyl	111	106	P/P	53 - 131
2373610	Fludioxonil	97.1	93.6	P/P	56 - 127
2373610	Flumioxazin	104	108	P/P	19 - 300
2373610	Flutolanil	94.5	87.9	P/P	41 - 127
2373610	Fluxapyroxad	72.9	71.4	P/P	42 - 172
2373610	Fonofos	80.2	83.1	P/P	59 - 113
2373610	Hexazinone	91.4	88.6	P/P	66 - 122
2373610	Imazalil	226	149	P/P	21 - 283
2373610	Iprodione	103	99.1	P/P	43 - 150
2373610	Loratadine	198	194	P/P	23 - 201
2373610	Malathion	104	96.9	P/P	58 - 136
2373610	Metalaxyl	103	97.9	P/P	55 - 120
2373610	Metolachlor	81.2	85.6	P/P	57 - 121
2373610	Metribuzin	81.2	87.7	P/P	58 - 294

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P423233

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373610	Mevinphos	76.8	87.3	P/P	50 - 126
2373610	Molinate	57.3	65.0	P/P	42 - 93.0
2373610	Myclobutanil	99.6	92.9	P/P	55 - 125
2373610	Naled	110	114	P/P	18 - 200
2373610	Napropamide	89.7	80.9	P/P	39 - 110
2373610	Norflurazon	76.3	61.6	P/P	48 - 128
2373610	Octinoxate	63.7	58.0	P/P	21 - 159
2373610	Oxadiazon	72.3	75.0	P/P	43 - 112
2373610	Oxybenzone	68.0	67.9	P/P	41 - 142
2373610	Oxyfluorfen	105	98.1	P/P	64 - 153
2373610	Parathion Ethyl	93.5	83.5	P/P	69 - 114
2373610	Parathion Methyl	96.8	92.2	P/P	79 - 139
2373610	PBDE-47	57.5	52.2	P/P	27 - 144
2373610	PBDE-99	59.6	53.7	P/P	18 - 150
2373610	Pendimethalin	110	102	P/P	50 - 139
2373610	Phenytoin	17.8	16.1	P/P	10 - 146
2373610	Phorate	79.3	88.3	P/P	54 - 161
2373610	Prodiamine	42.5	40.0	P/P	30 - 161
2373610	Prometon	98.4	95.0	P/P	45 - 134
2373610	Prometryn	101	94.9	P/P	45 - 137
2373610	Pronamide	86.7	91.7	P/P	65 - 133
2373610	Propanil	93.7	83.1	P/P	49 - 142
2373610	Propargite	54.2	52.3	P/P	10 - 203
2373610	Propiconazole	83.1	61.3	P/P	38 - 146
2373610	Pyraflufen Ethyl	86.7	71.4	P/P	34 - 153
2373610	Pyridaben	108	116	P/P	12 - 192
2373610	Pyriproxyfen	90.4	76.1	P/P	33 - 180
2373610	Simazine	90.9	84.2	P/P	51 - 157
2373610	Stirophos	65.5	60.1	P/P	10 - 128
2373610	Sulfentrazone	83.0	85.7	P/P	53 - 186
2373610	Tebuconazole	48.7	42.8	P/P	10 - 133
2373610	Terbufos	105	104	P/P	65 - 139
2373610	Terbuthylazine	96.0	90.6	P/P	66 - 117
2373610	Thiobencarb	88.4	78.0	P/P	51 - 119
2373610	Tri-o-cresyl Phosphate	70.1	65.2	P/P	31 - 144
2373610	Triadimefon	95.8	92.6	P/P	48 - 119

Reference Method: EPA 8270E
Batch ID: P423339

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374101	Aldrin	58.5	58.5	P/P	20 - 82.0
2374101	Alpha-BHC	86.0	87.7	P/P	71 - 109
2374101	Alpha-Chlordane	84.9	95.8	P/P	42 - 106
2374101	Beta-BHC	121	126	P/P	69 - 180
2374101	Beta-Cyfluthrin	100	99.8	P/P	18 - 175
2374101	Bifenthrin	90.8	72.7	P/P	21 - 128
2374101	Chlorothalonil	33.5	24.1	P/P	10 - 300
2374101	Cis-Nonachlor	59.8	77.4	P/P	34 - 106
2374101	Cypermethrin	92.4	86.3	P/P	22 - 158
2374101	Dacthal	88.8	89.3	P/P	54 - 116
2374101	DDD-p,p'	55.5	81.5	P/P	34 - 107

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P423339

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374101	DDE-p,p'	70.4	71.0	P/P	33 - 110
2374101	DDT-p,p'	63.3	71.3	P/P	50 - 122
2374101	Delta-BHC	124	121	P/P	77 - 193
2374101	Deltamethrin	119	124	P/P	10 - 195
2374101	Dichlobenil	49.8	40.8	P/P	25 - 113
2374101	Dicofol	76.4	79.8	P/P	38 - 247
2374101	Dieldrin	77.2	77.5	P/P	45 - 118
2374101	Endosulfan I	77.8	83.8	P/P	51 - 106
2374101	Endosulfan II	81.5	81.3	P/P	37 - 122
2374101	Endosulfan Sulfate	81.7	78.9	P/P	43 - 132
2374101	Endrin	77.8	80.6	P/P	29 - 101
2374101	Endrin Aldehyde	63.0	65.2	P/P	19 - 110
2374101	Endrin Ketone	68.8	85.6	P/P	60 - 140
2374101	Esfenvalerate	98.0	101	P/P	26 - 199
2374101	Ethalfluralin	74.2	76.1	P/P	45 - 99.0
2374101	Fenpropathrin	108	65.2	P/P	35 - 120
2374101	Gamma-BHC	90.6	89.6	P/P	63 - 128
2374101	Gamma-Chlordane	72.9	83.0	P/P	40 - 104
2374101	Heptachlor	71.0	68.4	P/P	36 - 97.0
2374101	Heptachlor Epoxide	80.0	81.2	P/P	49 - 184
2374101	Hexachlorobenzene	74.3	74.3	P/P	39 - 96.0
2374101	Kepone	79.6	88.0	P/P	10 - 217
2374101	Lambda-Cyhalothrin	113	112	P/P	21 - 193
2374101	Methoprene	94.1	100	P/P	20 - 106
2374101	Methoxychlor	131	78.9	F/P	53 - 118
2374101	MGK-264	43.4	42.6	P/P	40 - 118
2374101	Mirex	65.9	63.1	P/P	26 - 92.0
2374101	Oxychlordane	93.9	72.3	P/P	44 - 99.0
2374101	Permethrin	102	108	P/P	33 - 182
2374101	Phenothrin	90.9	90.3	P/P	10 - 129
2374101	Piperonyl Butoxide	97.5	90.2	P/P	10 - 211
2374101	Prallethrin	106	104	P/P	24 - 113
2374101	Tau-Fluvalinate	95.8	104	P/P	14 - 149
2374101	Tetramethrin	211	128	F/P	17 - 151
2374101	Trans-Nonachlor	74.1	76.7	P/P	42 - 102
2374101	Triclosan Methyl	73.5	81.3	P/P	48 - 108
2374101	Trifluralin	69.5	75.2	P/P	47 - 96.0
2374152	PCB-1016	63.7	62.6	P/P	46 - 111
2374152	PCB-1260	62.8	63.1	P/P	45 - 114

Reference Method: EPA 8276
Batch ID: P423339

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374152	Chlordane	72.8	58.2	P/P	53 - 126
2374152	Toxaphene	91.6	69.6	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P423201

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373536	Acesulfame K	46.9	52.3	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P423201

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373536	AMPA	63.6	59.9	P/P	40 - 150
2373536	Endothall	112	109	P/P	40 - 150
2373536	Glufosinate	88.6	90.2	P/P	40 - 150
2373536	Glyphosate	86.3	71.3	P/P	40 - 150
2373536	Sucralose	110	108	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P423248

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373230	2,4-D	90.4	93.1	P/P	40 - 150
2373230	2,4,5-T	79.6	73.4	P/P	40 - 150
2373230	Acetaminophen	91.7	96.8	P/P	30 - 150
2373230	Acetamiprid	70.2	70.7	P/P	40 - 150
2373230	Afidopyropen	63.3	54.1	P/P	30 - 150
2373230	Benzovindiflupyr	73.8	78.9	P/P	40 - 150
2373230	Carbamazepine	60.9	64.6	P/P	40 - 150
2373230	Clothianidin	98.2	101	P/P	40 - 150
2373230	Dinotefuran	94.3	101	P/P	40 - 150
2373230	Diuron	54.8	55.9	P/P	40 - 150
2373230	Fenuron	67.8	72.1	P/P	40 - 150
2373230	Fluridone	71.9	81.5	P/P	40 - 150
2373230	Hydrocodone	81.6	87.1	P/P	40 - 150
2373230	Ibuprofen	67.5	61.1	P/P	40 - 150
2373230	Imidacloprid	132	142	P/P	40 - 150
2373230	Linuron	58.5	71.4	P/P	40 - 150
2373230	Mandestrobin	83.4	87.3	P/P	40 - 150
2373230	MCPP	79.4	77.8	P/P	40 - 150
2373230	Naproxen	71.5	70.1	P/P	40 - 150
2373230	Primidone	82.5	86.9	P/P	40 - 150
2373230	Pyraclostrobin	77.8	81.3	P/P	40 - 150
2373230	Silvex	89.7	92.8	P/P	40 - 150
2373230	Thiamethoxam	109	114	P/P	40 - 150
2373230	Tolfenpyrad	47.2	44.9	P/P	30 - 150
2373230	Triclopyr	68.0	80.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P423250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373606	3-Hydroxycarbofuran	104	80.1	P/P	40 - 150
2373606	Aldicarb	74.8	57.0	P/P	30 - 150
2373606	Aldicarb Sulfone	104	92.5	P/P	40 - 150
2373606	Aldicarb Sulfoxide	42.3	38.2	P/F	40 - 150
2373606	Carbaryl	63.0	54.6	P/P	40 - 150
2373606	Carbofuran	58.3	54.2	P/P	40 - 150
2373606	Methiocarb	63.3	53.3	P/P	40 - 150
2373606	Methomyl	89.0	73.8	P/P	40 - 150
2373606	Oxamyl	94.4	93.1	P/P	40 - 150
2373606	Propoxur	54.3	47.2	P/P	40 - 150

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P423233

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373610	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	10.1	Spike	P	0 - 37
2373610	Acetochlor	8.21	Spike	P	0 - 28
2373610	Alachlor	6.89	Spike	P	0 - 30
2373610	Ametryn	5.87	Spike	P	0 - 32
2373610	Atrazine	5.50	Spike	P	0 - 41
2373610	Atrazine Desethyl	13.3	Spike	P	0 - 36
2373610	Avobenzone	10.3	Spike	P	0 - 36
2373610	Azinphos Methyl	4.77	Spike	P	0 - 75
2373610	Azoxystrobin	8.87	Spike	P	0 - 39
2373610	Bromacil	1.87	Spike	P	0 - 33
2373610	Butylate	16.1	Spike	P	0 - 44
2373610	Caffeine	1.22	Spike	P	0 - 74
2373610	Carbophenothion	5.54	Spike	P	0 - 25
2373610	Carfentrazone Ethyl	10.3	Spike	P	0 - 27
2373610	Chlorfenapyr	10.1	Spike	P	0 - 24
2373610	Chlorpyrifos Ethyl	9.97	Spike	P	0 - 26
2373610	Chlorpyrifos Methyl	2.73	Spike	P	0 - 26
2373610	Coumaphos	3.39	Spike	P	0 - 28
2373610	Cyanazine	0.121	Spike	P	0 - 48
2373610	Cyprodinil	6.68	Spike	P	0 - 29
2373610	Dechlorane Plus	9.45	Spike	P	0 - 30
2373610	Demeton	0.770	Spike	P	0 - 33
2373610	Diazinon	7.79	Spike	P	0 - 29
2373610	Difenoconazole	7.07	Spike	P	0 - 34
2373610	Dimethenamid	12.4	Spike	P	0 - 39
2373610	Dimethomorph	8.74	Spike	P	0 - 51
2373610	Disulfoton	7.43	Spike	P	0 - 30
2373610	Dithiopyr	10.9	Spike	P	0 - 26
2373610	EPTC	28.7	Spike	P	0 - 43
2373610	Ethion	2.87	Spike	P	0 - 79
2373610	Ethoprop	1.95	Spike	P	0 - 29
2373610	Etridiazole	10.2	Spike	P	0 - 33
2373610	Fenamiphos	3.27	Spike	P	0 - 40
2373610	Fenbuconazole	4.24	Spike	P	0 - 74
2373610	Fipronil	3.49	Spike	P	0 - 29
2373610	Fipronil Desulfinyl	3.87	Spike	P	0 - 32
2373610	Fipronil Sulfide	0.538	Spike	P	0 - 30
2373610	Fipronil Sulfone	19.3	Spike	P	0 - 33
2373610	Fluazifop-P-butyl	4.16	Spike	P	0 - 38
2373610	Fludioxonil	3.63	Spike	P	0 - 29
2373610	Flumioxazin	3.82	Spike	P	0 - 51
2373610	Flutolanil	7.23	Spike	P	0 - 25
2373610	Fluxapyroxad	2.11	Spike	P	0 - 45
2373610	Fonofos	3.59	Spike	P	0 - 27
2373610	Hexazinone	3.19	Spike	P	0 - 30
2373610	Imazalil	41.2	Spike	P	0 - 100
2373610	Iprodione	4.31	Spike	P	0 - 33
2373610	Loratadine	2.08	Spike	P	0 - 56
2373610	Malathion	7.53	Spike	P	0 - 37
2373610	Metalaxyl	5.50	Spike	P	0 - 40
2373610	Metolachlor	5.11	Spike	P	0 - 29

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P423233

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373610	Metribuzin	7.66	Spike	P	0 - 45
2373610	Mevinphos	12.8	Spike	P	0 - 29
2373610	Molinate	12.5	Spike	P	0 - 33
2373610	Myclobutanil	6.92	Spike	P	0 - 26
2373610	Naled	3.56	Spike	P	0 - 37
2373610	Napropamide	10.3	Spike	P	0 - 44
2373610	Norflurazon	20.0	Spike	P	0 - 30
2373610	Octinoxate	9.43	Spike	P	0 - 45
2373610	Oxadiazon	3.66	Spike	P	0 - 28
2373610	Oxybenzone	0.226	Spike	P	0 - 46
2373610	Oxyfluorfen	6.77	Spike	P	0 - 28
2373610	Parathion Ethyl	11.3	Spike	P	0 - 31
2373610	Parathion Methyl	4.90	Spike	P	0 - 29
2373610	PBDE-47	9.68	Spike	P	0 - 36
2373610	PBDE-99	10.6	Spike	P	0 - 40
2373610	Pendimethalin	7.67	Spike	P	0 - 33
2373610	Phenytoin	9.94	Spike	P	0 - 100
2373610	Phorate	10.7	Spike	P	0 - 36
2373610	Prodiamine	6.00	Spike	P	0 - 71
2373610	Prometon	3.50	Spike	P	0 - 36
2373610	Prometryn	6.13	Spike	P	0 - 28
2373610	Pronamide	5.67	Spike	P	0 - 24
2373610	Propanil	11.9	Spike	P	0 - 28
2373610	Propargite	3.63	Spike	P	0 - 43
2373610	Propiconazole	30.2	Spike	P	0 - 33
2373610	Pyraflufen Ethyl	19.4	Spike	P	0 - 29
2373610	Pyridaben	6.31	Spike	P	0 - 30
2373610	Pyriproxyfen	17.1	Spike	P	0 - 79
2373610	Simazine	7.65	Spike	P	0 - 29
2373610	Stirophos	8.61	Spike	P	0 - 61
2373610	Sulfentrazone	3.18	Spike	P	0 - 33
2373610	Tebuconazole	12.9	Spike	P	0 - 69
2373610	Terbufos	0.256	Spike	P	0 - 29
2373610	Terbuthylazine	5.83	Spike	P	0 - 32
2373610	Thiobencarb	12.5	Spike	P	0 - 26
2373610	Tri-o-cresyl Phosphate	7.21	Spike	P	0 - 33
2373610	Triadimefon	3.39	Spike	P	0 - 28

Reference Method: EPA 8270E
Batch ID: P423339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374101	Aldrin	0.00535	Spike	P	0 - 41
2374101	Alpha-BHC	1.94	Spike	P	0 - 25
2374101	Alpha-Chlordane	12.1	Spike	P	0 - 33
2374101	Beta-BHC	4.48	Spike	P	0 - 36
2374101	Beta-Cyfluthrin	0.333	Spike	P	0 - 42
2374101	Bifenthrin	22.2	Spike	P	0 - 53
2374101	Chlorothalonil	32.6	Spike	P	0 - 71
2374101	Cis-Nonachlor	25.6	Spike	P	0 - 29

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P423339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374101	Cypermethrin	6.87	Spike	P	0 - 40
2374101	Dacthal	0.476	Spike	P	0 - 26
2374101	DDD-p,p'	38.0	Spike	P	0 - 39
2374101	DDE-p,p'	0.850	Spike	P	0 - 33
2374101	DDT-p,p'	11.9	Spike	P	0 - 40
2374101	Delta-BHC	2.18	Spike	P	0 - 37
2374101	Deltamethrin	3.90	Spike	P	0 - 100
2374101	Dichlobenil	19.8	Spike	P	0 - 40
2374101	Dicofol	4.25	Spike	P	0 - 31
2374101	Dieldrin	0.466	Spike	P	0 - 27
2374101	Endosulfan I	7.38	Spike	P	0 - 23
2374101	Endosulfan II	0.247	Spike	P	0 - 28
2374101	Endosulfan Sulfate	3.50	Spike	P	0 - 38
2374101	Endrin	3.45	Spike	P	0 - 63
2374101	Endrin Aldehyde	3.36	Spike	P	0 - 60
2374101	Endrin Ketone	21.8	Spike	P	0 - 37
2374101	Esfenvalerate	3.14	Spike	P	0 - 52
2374101	Ethalfluralin	2.58	Spike	P	0 - 23
2374101	Fenpropathrin	49.5	Spike	F	0 - 32
2374101	Gamma-BHC	1.18	Spike	P	0 - 17
2374101	Gamma-Chlordane	12.9	Spike	P	0 - 40
2374101	Heptachlor	3.81	Spike	P	0 - 29
2374101	Heptachlor Epoxide	1.59	Spike	P	0 - 25
2374101	Hexachlorobenzene	0.120	Spike	P	0 - 36
2374101	Kepone	9.98	Spike	P	0 - 93
2374101	Lambda-Cyhalothrin	0.874	Spike	P	0 - 55
2374101	Methoprene	6.09	Spike	P	0 - 53
2374101	Methoxychlor	49.6	Spike	F	0 - 29
2374101	MGK-264	1.79	Spike	P	0 - 35
2374101	Mirex	4.38	Spike	P	0 - 46
2374101	Oxychlordane	26.0	Spike	P	0 - 29
2374101	Permethrin	6.17	Spike	P	0 - 44
2374101	Phenothrin	0.697	Spike	P	0 - 56
2374101	Piperonyl Butoxide	7.71	Spike	P	0 - 100
2374101	Prallethrin	1.78	Spike	P	0 - 42
2374101	Tau-Fluvalinate	7.92	Spike	P	0 - 54
2374101	Tetramethrin	48.7	Spike	P	0 - 51
2374101	Trans-Nonachlor	3.47	Spike	P	0 - 37
2374101	Triclosan Methyl	10.2	Spike	P	0 - 31
2374101	Trifluralin	7.85	Spike	P	0 - 30
2374152	PCB-1016	1.71	Spike	P	0 - 32
2374152	PCB-1260	0.467	Spike	P	0 - 31

Reference Method: EPA 8276
Batch ID: P423339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374152	Chlordane	22.2	Spike	P	0 - 25
2374152	Toxaphene	27.4	Spike	F	0 - 26

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P423201

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373536	Acesulfame K	10.8	Spike	P	0 - 30
2373536	AMPA	5.05	Spike	P	0 - 30
2373536	Endothall	2.80	Spike	P	0 - 30
2373536	Glufosinate	1.76	Spike	P	0 - 30
2373536	Glyphosate	17.4	Spike	P	0 - 30
2373536	Sucralose	1.87	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P423248

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373230	2,4-D	1.91	Spike	P	0 - 30
2373230	2,4,5-T	8.10	Spike	P	0 - 30
2373230	Acetaminophen	5.44	Spike	P	0 - 30
2373230	Acetamiprid	0.790	Spike	P	0 - 30
2373230	Afidopyropen	15.7	Spike	P	0 - 30
2373230	Bentazon	2.27	Spike	P	0 - 30
2373230	Benzovindiflupyr	6.72	Spike	P	0 - 30
2373230	Carbamazepine	5.83	Spike	P	0 - 30
2373230	Clothianidin	2.80	Spike	P	0 - 30
2373230	Dinotefuran	7.31	Spike	P	0 - 30
2373230	Diuron	1.92	Spike	P	0 - 30
2373230	Fenuron	6.21	Spike	P	0 - 30
2373230	Fluridone	10.6	Spike	P	0 - 30
2373230	Hydrocodone	6.52	Spike	P	0 - 30
2373230	Ibuprofen	9.91	Spike	P	0 - 30
2373230	Imazapyr	9.08	Spike	P	0 - 30
2373230	Imidacloprid	7.04	Spike	P	0 - 30
2373230	Linuron	19.9	Spike	P	0 - 30
2373230	Mandestrobin	4.57	Spike	P	0 - 30
2373230	MCPP	2.04	Spike	P	0 - 30
2373230	Naproxen	1.90	Spike	P	0 - 30
2373230	Primidone	5.20	Spike	P	0 - 30
2373230	Pyraclostrobin	4.38	Spike	P	0 - 30
2373230	Silvex	3.46	Spike	P	0 - 30
2373230	Thiamethoxam	4.39	Spike	P	0 - 30
2373230	Tolfenpyrad	5.16	Spike	P	0 - 30
2373230	Triclopyr	16.4	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P423250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373606	3-Hydroxycarbofuran	26.3	Spike	P	0 - 30
2373606	Aldicarb	27.0	Spike	P	0 - 30
2373606	Aldicarb Sulfone	11.4	Spike	P	0 - 30
2373606	Aldicarb Sulfoxide	10.1	Spike	P	0 - 30
2373606	Carbaryl	14.3	Spike	P	0 - 30
2373606	Carbofuran	7.38	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P423250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373606	Methiocarb	17.2	Spike	P	0 - 30
2373606	Methomyl	18.7	Spike	P	0 - 30
2373606	Oxamyl	1.39	Spike	P	0 - 30
2373606	Propoxur	13.9	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2373535
Field Sample ID: AF71313

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	42.2	P	30 - 160

Lab Sample ID: 2373536
Field Sample ID: AF71313

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	106	P	30 - 160
EPA 8321B	Carbamazepine-d10	61.2	P	30 - 160
EPA 8321B	Diuron-d6	51.2	P	30 - 160
EPA 8321B	Endothall-d6	104	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.1	P	30 - 160
EPA 8321B	Primidone-d5	89.7	P	30 - 160
EPA 8321B	Sucralose-d6	88.3	P	30 - 160

Lab Sample ID: 2373553
Field Sample ID: AF71313

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	96.4	P	29 - 130
EPA 8270E	Decachlorobiphenyl	76.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	66.7	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	67.6	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	60.8	P	30 - 101
EPA 8276	PCNB	78.3	P	48 - 121

Lab Sample ID: 2373554
Field Sample ID: AF71313

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	54.3	P	20 - 200
EPA 8270E	Simazine-d10	105	P	62 - 142
EPA 8270E	Terbufos-d10	92.9	P	58 - 132
EPA 8270E	Terphenyl-d14	86.6	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A116326
Included Lab Sample IDs: 2373536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	78.5	78.8	P/P	60 - 160
Sucralose	120	108	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A116359
Included Lab Sample IDs: 2373536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	89.9	89.2	P/P	60 - 160
Endothall	111	84.9	P/P	60 - 160
Glufosinate	99.6	91.8	P/P	60 - 160
Glyphosate	95.2	103	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A116397
Included Lab Sample IDs: 2373536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.3	111	P/P	50 - 150
2,4,5-T	103	80.9	P/P	50 - 150
3-Hydroxycarbofuran	98.1	103	P/P	60 - 150
Acetaminophen	91.0	90.7	P/P	60 - 160
Acetamiprid	101	98.3	P/P	50 - 150
Afidopyropen	111	109	P/P	50 - 150
Aldicarb	100	108	P/P	60 - 150
Aldicarb Sulfone	103	113	P/P	50 - 150
Aldicarb Sulfoxide	107	115	P/P	50 - 150
Bentazon	98.6	91.8	P/P	50 - 160
Benzovindiflupyr	101	97.7	P/P	50 - 150
Carbamazepine	107	103	P/P	60 - 150
Carbaryl	103	87.2	P/P	60 - 150
Carbofuran	98.9	99.4	P/P	50 - 150
Clothianidin	93.1	90.6	P/P	60 - 150
Dinotefuran	108	109	P/P	50 - 150
Diuron	102	97.0	P/P	60 - 160
Fenuron	103	99.5	P/P	60 - 150
Fluridone	107	108	P/P	60 - 160
Hydrocodone	107	110	P/P	60 - 150
Ibuprofen	95.1	98.3	P/P	50 - 160
Imazapyr	98.6	99.7	P/P	50 - 150
Imidacloprid	98.4	95.1	P/P	60 - 150
Linuron	85.1	89.7	P/P	60 - 150
Mandestrobin	99.4	106	P/P	50 - 150
MCPP	90.8	90.6	P/P	50 - 150
Methiocarb	97.8	99.2	P/P	50 - 150
Methomyl	108	103	P/P	50 - 150
Naproxen	72.4	99.3	P/P	50 - 160
Oxamyl	104	110	P/P	50 - 150
Primidone	94.1	96.4	P/P	60 - 150
Propoxur	104	106	P/P	50 - 150
Pyraclostrobin	101	99.4	P/P	60 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A116397
Included Lab Sample IDs: 2373536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silvex	92.3	96.1	P/P	50 - 150
Thiamethoxam	102	105	P/P	50 - 150
Tolfenpyrad	100	100	P/P	60 - 150
Triclopyr	83.0	111	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A116448
Included Lab Sample IDs: 2373553

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.8		P	80 - 120
Alpha-BHC	96.2		P	80 - 120
Alpha-Chlordane	86.3		P	80 - 120
Beta-BHC	107		P	80 - 120
Beta-Cyfluthrin	100		P	80 - 120
Bifenthrin	102		P	80 - 120
Chlorothalonil	94.5		P	80 - 120
Cis-Nonachlor	108		P	80 - 120
Cypermethrin	101		P	80 - 120
Dacthal	98.7		P	80 - 120
DDD-p,p'	109		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	99.4		P	80 - 120
Delta-BHC	101		P	80 - 120
Deltamethrin	97.9		P	80 - 120
Dichlobenil	103		P	80 - 120
Dicofol	93.3		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	88.7		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	95.9		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	94.0		P	80 - 120
Endrin Ketone	97.3		P	80 - 120
Esfenvalerate	103		P	80 - 120
Ethalfluralin	93.7		P	80 - 120
Fenpropathrin	98.2		P	80 - 120
Gamma-BHC	108		P	80 - 120
Gamma-Chlordane	94.2		P	80 - 120
Heptachlor	96.9		P	80 - 120
Heptachlor Epoxide	106		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	97.0		P	80 - 120
Lambda-Cyhalothrin	95.7		P	80 - 120
Methoprene	96.7		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	98.5		P	80 - 120
Mirex	99.6		P	80 - 120
Oxychlordane	106		P	80 - 120
Permethrin	103		P	80 - 120
Phenothrin	109		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A116448
Included Lab Sample IDs: 2373553

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Piperonyl Butoxide	93.8		P	80 - 120
Prallethrin	98.5		P	80 - 120
Tau-Fluvalinate	101		P	80 - 120
Tetramethrin	99.3		P	80 - 120
Trans-Nonachlor	97.4		P	80 - 120
Triclosan Methyl	86.7		P	80 - 120
Trifluralin	99.7		P	80 - 120

Reference Method: EPA 8270E
Run ID: A116488
Included Lab Sample IDs: 2373553

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.1		P	80 - 120
PCB-1260	106		P	80 - 120

Reference Method: EPA 8270E
Run ID: A116506
Included Lab Sample IDs: 2373554

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.6		P	80 - 120
Avobenzone	102		P	80 - 120
Dechlorane Plus	102		P	80 - 120
Octinoxate	97.9		P	80 - 120
Oxybenzone	94.7		P	80 - 120
PBDE-47	98.6		P	80 - 120
PBDE-99	101		P	80 - 120
Tri-o-cresyl Phosphate	99.0		P	80 - 120

Reference Method: EPA 8276
Run ID: A116522
Included Lab Sample IDs: 2373553

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	103		P	80 - 120

Reference Method: EPA 8270E
Run ID: A116540
Included Lab Sample IDs: 2373554

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.4		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	96.3		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	120		P	80 - 120
Azinphos Methyl	96.3		P	80 - 120
Azoxystrobin	95.4		P	80 - 120
Bromacil	98.2		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A116540
Included Lab Sample IDs: 2373554

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Butylate	98.2		P	80 - 120
Caffeine	101		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	97.8		P	80 - 120
Chlorfenapyr	89.4		P	80 - 120
Chlorpyrifos Ethyl	111		P	80 - 120
Chlorpyrifos Methyl	99.0		P	80 - 120
Coumaphos	95.1		P	80 - 120
Cyanazine	118		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	107		P	80 - 120
Diazinon	104		P	80 - 120
Difenoconazole	94.0		P	80 - 120
Dimethenamid	106		P	80 - 120
Dimethomorph	94.9		P	80 - 120
Disulfoton	101		P	80 - 120
Dithiopyr	102		P	80 - 120
EPTC	101		P	80 - 120
Ethion	98.1		P	80 - 120
Ethoprop	94.1		P	80 - 120
Etridiazole	95.5		P	80 - 120
Fenamiphos	104		P	80 - 120
Fenbuconazole	97.8		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	104		P	80 - 120
Fipronil Sulfide	106		P	80 - 120
Fipronil Sulfone	99.3		P	80 - 120
Fluazifop-P-butyl	110		P	80 - 120
Fludioxonil	107		P	80 - 120
Flumioxazin	96.6		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	95.8		P	80 - 120
Fonofos	91.3		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	102		P	80 - 120
Iprodione	96.9		P	80 - 120
Loratadine	95.1		P	80 - 120
Malathion	101		P	80 - 120
Metalaxyl	105		P	80 - 120
Metolachlor	99.1		P	80 - 120
Metribuzin	94.7		P	80 - 120
Mevinphos	96.9		P	80 - 120
Molinate	97.4		P	80 - 120
Myclobutanil	106		P	80 - 120
Naled	109		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	100		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	94.1		P	80 - 120
Parathion Ethyl	93.7		P	80 - 120
Parathion Methyl	96.7		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A116540
Included Lab Sample IDs: 2373554

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pendimethalin	96.1		P	80 - 120
Phenytoin	98.2		P	80 - 120
Phorate	92.1		P	80 - 120
Prodiamine	102		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	98.5		P	80 - 120
Pronamide	99.9		P	80 - 120
Propanil	100		P	80 - 120
Propargite	93.6		P	80 - 120
Propiconazole	97.4		P	80 - 120
Pyraflufen Ethyl	107		P	80 - 120
Pyridaben	93.8		P	80 - 120
Pyriproxyfen	99.7		P	80 - 120
Simazine	103		P	80 - 120
Stirophos	103		P	80 - 120
Sulfentrazone	96.8		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	90.2		P	80 - 120
Terbuthylazine	100		P	80 - 120
Thiobencarb	100		P	80 - 120
Triadimefon	93.9		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		Precision		
					LCS	SMP	MS
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	84.7	64.7	58.5			10.1
	Acetochlor	97.9	98.8	91.0			8.21
	Alachlor	93.6	85.8	80.1			6.89
	Aldrin	51.6	58.5	58.5			0.0053
	Alpha-BHC	87.8	86.0	87.7			1.94
	Alpha-Chlordane	85.2	84.9	95.8			12.1
	Ametryn	96.6	110	116			5.87
	Atrazine	87.9	98.1	92.4			5.50
	Atrazine Desethyl	83.0	100	87.9			13.3
	Avobenzone	114	76.7	69.1			10.3
	Azinphos Methyl	105	95.8	91.4			4.77
	Azoxystrobin	107	112	123			8.87
	Beta-BHC	124	121	126			4.48
	Beta-Cyfluthrin	75.7	100	99.8			0.333
	Bifenthrin	54.3	90.8	72.7			22.2
	Bromacil	83.2	73.7	75.1			1.87
	Butylate	49.7	38.4	45.1			16.1
	Caffeine	84.7	81.0	80.0			1.22
	Carbophenothion	73.9	70.3	66.5			5.54
	Carfentrazone Ethyl	114	107	96.5			10.3
	Chlorfenapyr	71.0	61.1	67.7			10.1
	Chlorothalonil	132	33.5	24.1			32.6
	Chlorpyrifos Ethyl	102	107	96.5			9.97
	Chlorpyrifos Methyl	77.0	72.8	74.8			2.73
	Cis-Nonachlor	62.7	59.8	77.4			25.6
	Coumaphos	81.2	69.6	67.3			3.39
	Cyanazine	242	232	231			0.121
	Cypermethrin	61.0	92.4	86.3			6.87
	Cyprodinil	101	106	99.0			6.68
	Dacthal	89.6	88.8	89.3			0.476
	DDD-p,p'	68.4	55.5	81.5			38.0
	DDE-p,p'	68.8	70.4	71.0			0.850
	DDT-p,p'	61.6	63.3	71.3			11.9
	Dechlorane Plus	99.1	61.1	67.2			9.45
	Delta-BHC	119	124	121			2.18
	Deltamethrin	45.2	119	124			3.90
	Demeton	116	117	118			0.770
	Diazinon	116	128	119			7.79
	Dichlobenil	77.0	49.8	40.8			19.8
	Dicofol	77.6	76.4	79.8			4.25
	Dieldrin	74.1	77.2	77.5			0.466
	Difenoconazole	152	139	129			7.07
	Dimethenamid	80.1	83.3	73.6			12.4
	Dimethomorph	298	227	208			8.74
	Disulfoton	85.5	100	92.9			7.43
	Dithiopyr	99.5	106	94.9			10.9
	Endosulfan I	69.7	77.8	83.8			7.38
	Endosulfan II	82.5	81.5	81.3			0.247
	Endosulfan Sulfate	92.0	81.7	78.9			3.50
	Endrin	75.2	77.8	80.6			3.45
	Endrin Aldehyde	83.2	63.0	65.2			3.36
	Endrin Ketone	82.4	68.8	85.6			21.8

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	EPTC	58.2	41.2	55.0			28.7
	Esfenvalerate	59.8	98.0	101			3.14
	Ethalfluralin	71.6	74.2	76.1			2.58
	Ethion	64.1	49.9	51.4			2.87
	Ethoprop	94.3	101	99.0			1.95
	Etridiazole	66.7	55.2	61.1			10.2
	Fenamiphos	105	96.1	93.0			3.27
	Fenbuconazole	112	97.3	93.2			4.24
	Fenpropathrin	60.2	108	65.2			49.5
	Fipronil	98.2	96.3	93.0			3.49
	Fipronil Desulfinyl	107	104	99.6			3.87
	Fipronil Sulfide	88.5	89.6	89.2			0.538
	Fipronil Sulfone	101	70.8	85.9			19.3
	Fluazifop-P-butyl	120	111	106			4.16
	Fludioxonil	104	97.1	93.6			3.63
	Flumioxazin	72.4	104	108			3.82
	Flutolanil	97.4	94.5	87.9			7.23
	Fluxapyroxad	82.6	72.9	71.4			2.11
	Fonofos	81.2	80.2	83.1			3.59
	Gamma-BHC	76.5	90.6	89.6			1.18
	Gamma-Chlordane	62.3	72.9	83.0			12.9
	Heptachlor	53.4	71.0	68.4			3.81
	Heptachlor Epoxide	71.9	80.0	81.2			1.59
	Hexachlorobenzene	62.2	74.3	74.3			0.120
	Hexazinone	83.3	91.4	88.6			3.19
	Imazalil	94.4	226	149			41.2
	Iprodione	109	103	99.1			4.31
	Kepone	98.4	79.6	88.0			9.98
	Lambda-Cyhalothrin	53.4	113	112			0.874
	Loratadine	213	198	194			2.08
	Malathion	99.9	104	96.9			7.53
	Metalaxyl	99.2	103	97.9			5.50
	Methoprene	69.0	94.1	100			6.09
	Methoxychlor	69.2	131	78.9			49.6
	Metolachlor	90.8	81.2	85.6			5.11
	Metribuzin	87.4	81.2	87.7			7.66
	Mevinphos	83.7	76.8	87.3			12.8
	MGK-264	86.5	43.4	42.6			1.79
	Mirex	49.3	65.9	63.1			4.38
	Molinate	65.9	57.3	65.0			12.5
	Myclobutanil	104	99.6	92.9			6.92
	Naled	102	110	114			3.56
	Napropamide	88.2	89.7	80.9			10.3
	Norflurazon	57.7	76.3	61.6			20.0
	Octinoxate	91.5	63.7	58.0			9.43
	Oxadiazon	81.7	72.3	75.0			3.66
	Oxybenzone	88.5	68.0	67.9			0.226
	Oxychlordane	67.5	93.9	72.3			26.0
	Oxyfluorfen	112	105	98.1			6.77
	Parathion Ethyl	89.0	93.5	83.5			11.3
	Parathion Methyl	93.5	96.8	92.2			4.90
	PBDE-47	82.2	57.5	52.2			9.68
	PBDE-99	84.0	59.6	53.7			10.6
	PCB-1016	73.0	63.7	62.6			1.71

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	PCB-1260	65.6	62.8	63.1			0.467
	Pendimethalin	95.8	110	102			7.67
	Permethrin	84.6	102	108			6.17
	Phenothrin	64.4	90.9	90.3			0.697
	Phenytoin	15.6	17.8	16.1			9.94
	Phorate	83.6	79.3	88.3			10.7
	Piperonyl Butoxide	95.0	97.5	90.2			7.71
	Prallethrin	103	106	104			1.78
	Prodiamine	39.3	42.5	40.0			6.00
	Prometon	86.9	98.4	95.0			3.50
	Prometryn	95.7	101	94.9			6.13
	Pronamide	99.3	86.7	91.7			5.67
	Propanil	86.1	93.7	83.1			11.9
	Propargite	49.2	54.2	52.3			3.63
	Propiconazole	62.4	83.1	61.3			30.2
	Pyraflufen Ethyl	67.2	86.7	71.4			19.4
	Pyridaben	118	108	116			6.31
	Pyriproxyfen	82.7	90.4	76.1			17.1
	Simazine	81.4	90.9	84.2			7.65
	Stirophos	69.8	65.5	60.1			8.61
	Sulfentrazone	83.1	83.0	85.7			3.18
	Tau-Fluvalinate	60.4	95.8	104			7.92
	Tebuconazole	44.0	48.7	42.8			12.9
	Terbufos	94.7	105	104			0.256
	Terbuthylazine	87.0	96.0	90.6			5.83
	Tetramethrin	133	211	128			48.7
	Thiobencarb	87.4	88.4	78.0			12.5
	Trans-Nonachlor	66.9	74.1	76.7			3.47
	Tri-o-cresyl Phosphate	99.2	70.1	65.2			7.21
	Triadimefon	93.1	95.8	92.6			3.39
	Triclosan Methyl	71.3	73.5	81.3			10.2
	Trifluralin	75.2	69.5	75.2			7.85
EPA 8276	Chlordane	70.2	72.8	58.2			22.2
	Toxaphene	73.2	91.6	69.6			27.4
EPA 8321B	2,4-D	90.9	90.4	93.1			1.91
	2,4,5-T	64.7	79.6	73.4			8.10
	3-Hydroxycarbofuran	83.0	104	80.1			26.3
	Acesulfame K	63.7	46.9	52.3			10.8
	Acetaminophen	81.6	91.7	96.8			5.44
	Acetamiprid	87.5	70.2	70.7			0.790
	Afidopyropen	78.1	63.3	54.1			15.7
	Aldicarb	57.9	74.8	57.0			27.0
	Aldicarb Sulfone	90.5	104	92.5			11.4
	Aldicarb Sulfoxide	98.8	42.3	38.2			10.1
	AMPA	87.1	63.6	59.9			5.05
	Bentazon	96.6					2.27
	Benzovindiflupyr	83.1	73.8	78.9			6.72
	Carbamazepine	83.1	60.9	64.6			5.83
	Carbaryl	75.6	63.0	54.6			14.3
	Carbofuran	76.6	58.3	54.2			7.38
	Clothianidin	89.7	98.2	101			2.80
	Dinotefuran	98.8	94.3	101			7.31
	Diuron	71.2	54.8	55.9			1.92
	Endothall	106	112	109			2.80

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Fenuron	93.3	67.8	72.1			6.21
	Fluridone	84.4	71.9	81.5			10.6
	Glufosinate	99.4	88.6	90.2			1.76
	Glyphosate	94.5	86.3	71.3			17.4
	Hydrocodone	96.3	81.6	87.1			6.52
	Ibuprofen	76.9	67.5	61.1			9.91
	Imazapyr	81.6					9.08
	Imidacloprid	87.7	132	142			7.04
	Linuron	80.0	58.5	71.4			19.9
	Mandestrobin	90.9	83.4	87.3			4.57
	MCPP	82.1	79.4	77.8			2.04
	Methiocarb	65.8	63.3	53.3			17.2
	Methomyl	87.0	89.0	73.8			18.7
	Naproxen	97.6	71.5	70.1			1.90
	Oxamyl	95.5	94.4	93.1			1.39
	Primidone	91.8	82.5	86.9			5.20
	Propoxur	72.0	54.3	47.2			13.9
	Pyraclostrobin	73.8	77.8	81.3			4.38
	Silvex	79.3	89.7	92.8			3.46
	Sucralose	128	110	108			1.87
	Thiamethoxam	97.9	109	114			4.39
	Tolfenpyrad	36.9	47.2	44.9			5.16
	Triclopyr	72.8	68.0	80.2			16.4

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2373554
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2373553
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2373554
EPA 8270E	PCBs in water matrices by GC/MS/MS	2373553
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2373553
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2373535
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2373536

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	12/07/2022	12/08/2022 10:00	Fe-Val Siddell	12/13/2022 18:07	Arthur Maknenko	2373554
	12/07/2022	12/08/2022 10:00	Fe-Val Siddell	12/16/2022 21:52	Michael Poppell	2373554
	12/07/2022	12/12/2022 08:00	Fe-Val Siddell	12/14/2022 19:37	Vandana T. Nagar	2373553
	12/07/2022	12/12/2022 08:00	Fe-Val Siddell	12/14/2022 22:35	Vandana T. Nagar	2373553
EPA 8276	12/07/2022	12/12/2022 08:00	Fe-Val Siddell	12/16/2022 06:58	Arthur Maknenko	2373553
EPA 8321B	12/07/2022	12/08/2022 06:00	Umesh Chiluwal	12/08/2022 07:12	Umesh Chiluwal	2373536
	12/07/2022	12/08/2022 06:00	Umesh Chiluwal	12/08/2022 14:50	Umesh Chiluwal	2373536
	12/07/2022	12/09/2022 09:30	June Rhew	12/13/2022 06:31	Juyoung Kim	2373536
	12/07/2022	12/12/2022 09:00	June Rhew	12/13/2022 10:35	Juyoung Kim	2373535