Chemical Analysis Report

NW-DIST-2021-01-07-01

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

Event Description: **Defuniak Run**
Request ID: **RQ-2021-01-04-48**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 208
Pensacola, FL 32502-5794
Attn: Cheryl Bunch

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Certified by: Colin Wright, Program Administrator

Date Certified: 25-JAN-2021 11:58

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: Shoal River Above Laird Road **Collection Date/Time: 01/06/2021 10:30**

Field ID: G4NW0375 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2217418	EPA 8321B	Aldicarb	0.020	U	ug/L	P392245	
		Aldicarb Sulfone	0.0020	U	ug/L	P392245	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P392245	RPD
		Carbaryl	0.0020	U	ug/L	P392245	
		Carbofuran	0.0020	U	ug/L	P392245	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P392245	
		Methiocarb	0.0020	U	ug/L	P392245	
		Methomyl	0.0020	U	ug/L	P392245	
		Oxamyl	0.0020	U	ug/L	P392245	
		Propoxur	0.0020	U	ug/L	P392245	
2217419		2,4-D	0.0020	U	ug/L	P392144	
		Acesulfame K**	0.10	U	ug/L	P392110	
		AMPA**	0.10	U	ug/L	P392110	
		Sucralose**	0.096		ug/L	P392110	
		Acetaminophen**	0.0080	U	ug/L	P392144	
		Acetamiprid**	0.0020	U	ug/L	P392144	
		Endothall**	0.25	U	ug/L	P392110	
		Glufosinate**	0.10	U	ug/L	P392110	
		Glyphosate**	0.10	U	ug/L	P392110	
		Afidopyropen**	0.0020	U	ug/L	P392144	
		Bentazon	8.0E-04	U	ug/L	P392144	
		Benzovindiflupyr**	0.0020	U	ug/L	P392144	
		Carbamazepine**	8.0E-04	U	ug/L	P392144	
		Clothianidin**	0.0020	U	ug/L	P392144	
		Dinotefuran**	0.0020	U	ug/L	P392144	
		Diuron	0.0020	U	ug/L	P392144	
		Fenuron	0.016	U	ug/L	P392144	
		Fluridone**	8.0E-04	U	ug/L	P392144	
		Imazapyr**	0.0086	I	ug/L	P392144	
		Hydrocodone**	0.0020	U	ug/L	P392144	
		Ibuprofen**	0.020	U	ug/L	P392144	
		Imidacloprid	0.0038	I	ug/L	P392144	
		Linuron	0.0040	U	ug/L	P392144	
		Mandestrobin**	0.0020	U	ug/L	P392144	
		MCPP	0.0020	U	ug/L	P392144	
		Naproxen**	0.0080	U	ug/L	P392144	
		Primidone**	0.0040	U	ug/L	P392144	
		Pyraclostrobin**	0.0020	U	ug/L	P392144	
		Thiamethoxam**	0.0020	U	ug/L	P392144	
		Tolfenpyrad**	0.0020	U	ug/L	P392144	
		Triclopyr**	0.0040	U	ug/L	P392144	
2217422	EPA 8270E	Aldrin	0.91	U	ng/L	P392061	
		Dieldrin	0.49	U	ng/L	P392061	
		Alpha-BHC	2.4	U	ng/L	P392061	

Field ID: G4NW0375 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2217422	EPA 8270E	Kepone**	6.7	UJ	ng/L	P392061	RPD
		Alpha-Chlordane	1.2	U	ng/L	P392061	
		Beta-BHC	9.7	U	ng/L	P392061	
		Beta-Cyfluthrin**	18	U	ng/L	P392061	
		Bifenthrin**	4.9	U	ng/L	P392061	
		Delta-BHC	9.7	U	ng/L	P392061	
		Gamma-BHC	9.7	U	ng/L	P392061	
		Chlorothalonil	2.4	U	ng/L	P392061	MS
		Cis-Nonachlor**	1.2	U	ng/L	P392061	
		Cypermethrin	24	U	ng/L	P392061	
		Dacthal**	1.2	U	ng/L	P392061	
		DDD-p,p'	6.1	U	ng/L	P392061	
		DDE-p,p'	6.1	U	ng/L	P392061	
		DDT-p,p'	7.3	U	ng/L	P392061	
		Deltamethrin**	24	U	ng/L	P392061	
		Dicofol	36	U	ng/L	P392061	
		Endosulfan I	4.9	U	ng/L	P392061	
		Endosulfan II	4.9	U	ng/L	P392061	
		Endosulfan Sulfate	2.4	U	ng/L	P392061	
		Endrin	2.4	U	ng/L	P392061	
		Endrin Aldehyde	2.4	U	ng/L	P392061	
		Endrin Ketone	2.4	U	ng/L	P392061	
		Ethalfluralin**	3.6	U	ng/L	P392061	
		Gamma-Chlordane	1.2	U	ng/L	P392061	
		Dichlobenil**	2.4	U	ng/L	P392061	
		Esfenvalerate**	24	U	ng/L	P392061	
		Fenpropathrin**	12	U	ng/L	P392061	
		Heptachlor	1.8	U	ng/L	P392061	
		Heptachlor Epoxide	2.4	U	ng/L	P392061	
		Hexachlorobenzene	2.4	U	ng/L	P392061	
		Lambda-Cyhalothrin**	18	U	ng/L	P392061	
		Methoxychlor	4.9	U	ng/L	P392061	
		Mirex	2.4	U	ng/L	P392061	
		MGK-264**	3.6	U	ng/L	P392061	
		Permethrin	12	U	ng/L	P392061	
		Phenothrin**	36	U	ng/L	P392061	
		Piperonyl Butoxide**	1.8	U	ng/L	P392061	
		Prallethrin**	30	U	ng/L	P392061	
		Tau-Fluvalinate**	4.2	U	ng/L	P392061	
		Tetramethrin**	9.7	U	ng/L	P392061	
		Trans-Nonachlor**	1.2	U	ng/L	P392061	
		Triclosan Methyl**	1.2	U	ng/L	P392061	
		Trifluralin	3.0	U	ng/L	P392061	
	EPA 8276	Chlordane	6.1	U	ng/L	P392061	
		Toxaphene	36	U	ng/L	P392061	

Field ID: G4NW0375 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2217423	EPA 8270E	Acetochlor	0.26	U	ng/L	P392107	
		Alachlor	0.26	U	ng/L	P392107	
		Ametryn	0.63	U	ng/L	P392107	
		Atrazine	0.38	I	ng/L	P392107	
		Atrazine Desethyl	1.6	U	ng/L	P392107	
		Azinphos Methyl	2.1	UJ	ng/L	P392107	LCS, MS
		Azoxystrobin**	0.53	U	ng/L	P392107	
		Bromacil	0.58	I	ng/L	P392107	
		Butylate	0.42	U	ng/L	P392107	
		Carbophenothion	0.53	U	ng/L	P392107	
		Carfentrazone Ethyl**	0.11	U	ng/L	P392107	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P392107	
		Chlorpyrifos Methyl	0.053	U	ng/L	P392107	
		Cyanazine	3.4	U	ng/L	P392107	
		Demeton	1.6	U	ng/L	P392107	
		Diazinon	0.13	U	ng/L	P392107	
		Difenoconazole**	0.63	U	ng/L	P392107	
		Dimethenamid**	0.11	U	ng/L	P392107	
		Disulfoton	0.53	U	ng/L	P392107	
		Dithiopyr**	0.18	U	ng/L	P392107	
		EPTC	1.3	U	ng/L	P392107	
		Ethion	0.16	U	ng/L	P392107	
		Ethoprop	0.11	U	ng/L	P392107	
		Fenamiphos	0.53	U	ng/L	P392107	
		Fenbuconazole**	0.13	U	ng/L	P392107	
		Fipronil	0.26	U	ng/L	P392107	
		Fipronil Desulfinyl**	0.13	U	ng/L	P392107	
		Fipronil Sulfide	0.16	U	ng/L	P392107	
		Fipronil Sulfone	0.16	U	ng/L	P392107	
		Fluazifop-P-butyl**	0.11	U	ng/L	P392107	
		Fludioxonil**	0.13	U	ng/L	P392107	
		Flumioxazin**	1.8	U	ng/L	P392107	
		Flutolanil**	0.50		ng/L	P392107	
		Fluxapyroxad**	0.32	I J	ng/L	P392107	RPD
		Fonofos	0.21	U	ng/L	P392107	
		Hexazinone	1.8	I	ng/L	P392107	
		Imazalil**	0.79	U	ng/L	P392107	
		Iprodione**	0.63	U	ng/L	P392107	
		Malathion	0.37	U	ng/L	P392107	
		Metalaxyl	0.79	U	ng/L	P392107	
		Metolachlor	2.1		ng/L	P392107	
		Metribuzin	3.4	U	ng/L	P392107	
		Mevinphos	1.1	U	ng/L	P392107	
		Molinate	0.32	U	ng/L	P392107	
		Myclobutanil**	0.26	U	ng/L	P392107	

Field ID: G4NW0375 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2217423	EPA 8270E	Naled**	1.6	U	ng/L	P392107	
		Norflurazon	0.53	U	ng/L	P392107	
		Oxadiazon	0.32	U	ng/L	P392107	
		Oxyfluorfen**	0.16	U	ng/L	P392107	
		Parathion Ethyl	0.26	U	ng/L	P392107	
		Parathion Methyl	0.58	U	ng/L	P392107	
		Pendimethalin	1.1	U	ng/L	P392107	
		Phorate	0.55	U	ng/L	P392107	
		Prodiamine**	0.18	UJ	ng/L	P392107	RPD
		Prometon	0.95	U	ng/L	P392107	
		Prometryn	0.21	U	ng/L	P392107	
		Pronamide**	0.16	U	ng/L	P392107	
		Propiconazole**	0.53	U	ng/L	P392107	
		Pyriproxyfen**	0.13	UJ	ng/L	P392107	LCS, MS
		Simazine	0.53	U	ng/L	P392107	
		Sulfentrazone**	0.53	U	ng/L	P392107	
		Tebuconazole**	0.63	I	ng/L	P392107	
		Terbufos	0.11	U	ng/L	P392107	
		Terbuthylazine	0.45	U	ng/L	P392107	

Ref. Method and Comment:
EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.
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.

Sample Location: Gum Creek **Collection Date/Time: 01/06/2021 11:50**

Field ID: G4NW0382 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2217420	EPA 8321B	2,4-D	0.0020	U	ug/L	P392144	
		Acesulfame K**	0.10	U	ug/L	P392110	
		AMPA**	0.10	U	ug/L	P392110	
		Sucralose**	0.12		ug/L	P392110	
		Acetaminophen**	0.0080	U	ug/L	P392144	
		Acetamiprid**	0.0020	U	ug/L	P392144	
		Endothall**	0.25	U	ug/L	P392110	
		Glufosinate**	0.10	U	ug/L	P392110	
		Glyphosate**	0.10	U	ug/L	P392110	
		Afidopyropen**	0.0020	U	ug/L	P392144	
		Bentazon	8.0E-04	U	ug/L	P392144	
		Benzovindiflupyr**	0.0020	U	ug/L	P392144	
		Carbamazepine**	8.0E-04	U	ug/L	P392144	
		Clothianidin**	0.0020	U	ug/L	P392144	
		Dinotefuran**	0.0020	U	ug/L	P392144	
		Diuron	0.0020	U	ug/L	P392144	
		Fenuron	0.016	U	ug/L	P392144	
		Fluridone**	8.0E-04	U	ug/L	P392144	
		Imazapyr**	0.0068	I	ug/L	P392144	
		Hydrocodone**	0.0020	U	ug/L	P392144	
		Ibuprofen**	0.020	U	ug/L	P392144	
		Imidacloprid	0.0036	I	ug/L	P392144	
		Linuron	0.0040	U	ug/L	P392144	
		Mandestrobin**	0.0020	U	ug/L	P392144	
		MCPP	0.0020	U	ug/L	P392144	
		Naproxen**	0.0080	U	ug/L	P392144	
		Primidone**	0.0040	U	ug/L	P392144	
		Pyraclostrobin**	0.0020	U	ug/L	P392144	
		Thiamethoxam**	0.0020	U	ug/L	P392144	
		Tolfenpyrad**	0.0020	U	ug/L	P392144	
		Triclopyr**	0.0040	U	ug/L	P392144	

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.

Sample Location: Gum Creek Above Bonita Drive **Collection Date/Time: 01/06/2021 12:15**

Field ID: G4NW0381 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2217421	EPA 8321B	2,4-D	0.0020	U	ug/L	P392144	
		Acesulfame K**	0.10	U	ug/L	P392110	
		AMPA**	0.10	U	ug/L	P392110	
		Sucralose**	0.12		ug/L	P392110	
		Acetaminophen**	0.0080	U	ug/L	P392144	
		Acetamiprid**	0.0020	U	ug/L	P392144	
		Endothall**	0.25	U	ug/L	P392110	
		Glufosinate**	0.10	U	ug/L	P392110	
		Glyphosate**	0.10	U	ug/L	P392110	
		Afidopyropen**	0.0020	U	ug/L	P392144	
		Bentazon	8.0E-04	U	ug/L	P392144	
		Benzovindiflupyr**	0.0020	U	ug/L	P392144	
		Carbamazepine**	8.0E-04	U	ug/L	P392144	
		Clothianidin**	0.0020	U	ug/L	P392144	
		Dinotefuran**	0.0020	U	ug/L	P392144	
		Diuron	0.0020	U	ug/L	P392144	
		Fenuron	0.016	U	ug/L	P392144	
		Fluridone**	8.0E-04	U	ug/L	P392144	
		Imazapyr**	0.0061	I	ug/L	P392144	
		Hydrocodone**	0.0020	U	ug/L	P392144	
		Ibuprofen**	0.020	U	ug/L	P392144	
		Imidacloprid	0.0040	I	ug/L	P392144	
		Linuron	0.0040	U	ug/L	P392144	
		Mandestrobin**	0.0020	U	ug/L	P392144	
		MCPP	0.0020	U	ug/L	P392144	
		Naproxen**	0.0080	U	ug/L	P392144	
		Primidone**	0.0040	U	ug/L	P392144	
		Pyraclostrobin**	0.0020	U	ug/L	P392144	
		Thiamethoxam**	0.0020	U	ug/L	P392144	
		Tolfenpyrad**	0.0020	U	ug/L	P392144	
		Triclopyr**	0.0040	U	ug/L	P392144	

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.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P392061

Component	Result	Code	Units
Aldrin	0.75	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	8.0	U	ng/L
Beta-Cyfluthrin	15	U	ng/L
Bifenthrin	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
Dacthal	1.0	U	ng/L
DDD-p,p'	5.0	U	ng/L
DDE-p,p'	5.0	U	ng/L
DDT-p,p'	6.0	U	ng/L
Delta-BHC	8.0	U	ng/L
Deltamethrin	20	U	ng/L
Dichlobenil	2.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Esfenvalerate	20	U	ng/L
Ethalfluralin	3.0	U	ng/L
Fenpropathrin	10	U	ng/L
Gamma-BHC	8.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Kepone	5.5	U	ng/L
Lambda-Cyhalothrin	15	U	ng/L
Methoxychlor	4.0	U	ng/L
MGK-264	3.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Phenothrin	30	U	ng/L
Piperonyl Butoxide	1.5	U	ng/L
Prallethrin	25	U	ng/L
Tau-Fluvalinate	3.5	U	ng/L
Tetramethrin	8.0	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Triclosan Methyl	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8270E
Batch ID: P392107

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P392107

Component	Result	Code	Units
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.52	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P392107

Component	Result	Code	Units
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Propiconazole	0.50	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P392061

Component	Result	Code	Units
Chlordane	5.0	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: EPA 8321B
Batch ID: P392110

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

Reference Method: EPA 8321B
Batch ID: P392144

Component	Result	Code	Units
2,4-D	0.0020	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	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P392144

Component	Result	Code	Units
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	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: P392245

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: P392061

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	40.8	43.6	P/P	20 - 110
Alpha-BHC	82.7	84.2	P/P	58 - 130
Alpha-Chlordane	85.7	77.2	P/P	61 - 105
Beta-BHC	91.4	96.1	P/P	53 - 164
Beta-Cyfluthrin	94.1	87.8	P/P	40 - 140
Bifenthrin	87.4	75.7	P/P	44 - 122
Chlorothalonil	60.8	47.4	P/P	20 - 201
Cis-Nonachlor	87.5	80.3	P/P	60 - 110
Cypermethrin	93.5	79.7	P/P	43 - 131
Dacthal	94.8	88.4	P/P	76 - 108
DDD-p,p'	91.7	85.6	P/P	68 - 118
DDE-p,p'	84.3	74.0	P/P	56 - 107
DDT-p,p'	84.7	72.9	P/P	55 - 122
Delta-BHC	118	123	P/P	60 - 181
Deltamethrin	101	100	P/P	51 - 139
Dichlobenil	61.3	67.3	P/P	20 - 106
Dicofol	95.3	91.3	P/P	56 - 130
Dieldrin	64.3	71.5	P/P	58 - 112
Endosulfan I	97.3	88.6	P/P	68 - 115
Endosulfan II	106	106	P/P	69 - 133
Endosulfan Sulfate	85.4	83.7	P/P	65 - 126
Endrin	92.6	87.7	P/P	66 - 118
Endrin Aldehyde	60.1	65.7	P/P	60 - 132
Endrin Ketone	92.9	86.7	P/P	68 - 121
Esfenvalerate	84.6	80.2	P/P	42 - 116
Ethalfluralin	76.4	71.8	P/P	50 - 118
Fenpropathrin	98.5	92.7	P/P	55 - 132
Gamma-BHC	96.3	99.0	P/P	65 - 147
Gamma-Chlordane	82.5	72.8	P/P	56 - 103
Heptachlor	66.8	57.3	P/P	47 - 95.0
Heptachlor Epoxide	87.2	80.1	P/P	67 - 107
Hexachlorobenzene	66.1	57.7	P/P	45 - 99.0
Kepone	44.0	60.8	P/P	28 - 128
Lambda-Cyhalothrin	89.9	80.1	P/P	41 - 135
Methoxychlor	87.1	83.5	P/P	61 - 138
MGK-264	64.5	60.4	P/P	20 - 109
Mirex	70.8	57.0	P/P	36 - 92.0
Permethrin	82.3	71.3	P/P	45 - 111
Phenothrin	57.7	45.9	P/P	22 - 88.0
Piperonyl Butoxide	96.7	93.4	P/P	67 - 120
Prallethrin	61.6	58.7	P/P	28 - 92.0
Tau-Fluvalinate	110	97.1	P/P	38 - 145
Tetramethrin	86.7	83.3	P/P	29 - 150
Trans-Nonachlor	82.8	73.1	P/P	54 - 105
Triclosan Methyl	97.4	91.3	P/P	76 - 115
Trifluralin	78.5	71.1	P/P	53 - 111

Reference Method: EPA 8270E
Batch ID: P392107

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	104	94.7	P/P	70 - 121

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P392107

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alachlor	104	103	P/P	70 - 119
Ametryn	112	96.2	P/P	61 - 135
Atrazine	106	97.7	P/P	76 - 123
Atrazine Desethyl	86.4	81.6	P/P	35 - 140
Azinphos Methyl	283	281	F/F	57 - 163
Azoxystrobin	207	167	P/P	43 - 231
Bromacil	89.8	83.7	P/P	42 - 123
Butylate	68.7	58.1	P/P	34 - 92.0
Carbophenothion	103	93.8	P/P	61 - 121
Carfentrazone Ethyl	103	96.2	P/P	62 - 139
Chlorpyrifos Ethyl	98.7	94.5	P/P	67 - 121
Chlorpyrifos Methyl	102	98.9	P/P	67 - 120
Cyanazine	146	135	P/P	20 - 226
Demeton	98.8	98.1	P/P	35 - 125
Diazinon	97.4	87.3	P/P	70 - 122
Difenoconazole	166	141	P/P	56 - 186
Dimethenamid	104	92.8	P/P	67 - 119
Disulfoton	101	90.4	P/P	47 - 120
Dithiopyr	95.0	84.4	P/P	67 - 118
EPTC	65.1	57.1	P/P	33 - 90.0
Ethion	85.3	80.9	P/P	40 - 133
Ethoprop	96.8	92.1	P/P	61 - 121
Fenamiphos	112	109	P/P	31 - 139
Fenbuconazole	118	102	P/P	66 - 141
Fipronil	98.6	92.4	P/P	62 - 129
Fipronil Desulfinyl	98.0	88.9	P/P	59 - 126
Fipronil Sulfide	92.8	94.4	P/P	63 - 117
Fipronil Sulfone	90.4	85.1	P/P	57 - 117
Fluazifop-P-butyl	100	84.9	P/P	63 - 124
Fludioxonil	97.4	92.5	P/P	63 - 123
Flumioxazin	210	191	P/P	34 - 245
Flutolanil	99.3	93.5	P/P	56 - 131
Fluxapyroxad	98.5	87.4	P/P	57 - 117
Fonofos	99.5	88.3	P/P	61 - 116
Hexazinone	105	98.7	P/P	55 - 138
Imazalil	123	116	P/P	33 - 143
Iprodione	104	96.7	P/P	59 - 118
Malathion	117	103	P/P	62 - 138
Metalaxyl	106	99.6	P/P	24 - 147
Metolachlor	103	100	P/P	68 - 118
Metribuzin	100	105	P/P	20 - 239
Mevinphos	83.3	81.0	P/P	46 - 124
Molinate	81.0	71.7	P/P	46 - 100
Myclobutanil	98.4	94.1	P/P	32 - 149
Naled	49.3	44.8	P/P	32 - 95.0
Norflurazon	102	88.1	P/P	57 - 127
Oxadiazon	94.5	87.2	P/P	63 - 118
Oxyfluorfen	108	100	P/P	69 - 137
Parathion Ethyl	104	93.1	P/P	70 - 113
Parathion Methyl	112	98.2	P/P	71 - 130
Pendimethalin	87.7	79.7	P/P	55 - 118
Phorate	99.0	97.0	P/P	46 - 125

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P392107

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prodiamine	110	107	P/P	20 - 141
Prometon	104	96.8	P/P	54 - 122
Prometryn	102	96.9	P/P	66 - 124
Pronamide	105	95.8	P/P	79 - 122
Propiconazole	102	90.7	P/P	61 - 126
Pyriproxyfen	166	173	F/F	52 - 131
Simazine	115	102	P/P	75 - 128
Sulfentrazone	98.1	118	P/P	20 - 132
Tebuconazole	63.2	54.2	P/P	20 - 116
Terbufos	90.5	85.6	P/P	61 - 117
Terbuthylazine	105	99.4	P/P	74 - 116

Reference Method: EPA 8276
Batch ID: P392061

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	93.9	105	P/P	56 - 117
Toxaphene	101	97.5	P/P	45 - 116

Reference Method: EPA 8321B
Batch ID: P392110

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.5		P	40 - 150
AMPA	79.9		P	40 - 150
Endothall	91.5		P	40 - 150
Glufosinate	98.9		P	40 - 150
Glyphosate	85.5		P	40 - 140
Sucralose	97.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P392144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	118		P	30 - 160
Acetaminophen	74.6		P	30 - 160
Acetamiprid	92.6		P	30 - 160
Afidopyropen	80.5		P	30 - 160
Bentazon	87.0		P	30 - 160
Benzovindiflupyr	78.4		P	30 - 160
Carbamazepine	77.8		P	30 - 160
Clothianidin	98.7		P	30 - 160
Dinotefuran	87.3		P	30 - 160
Diuron	61.2		P	30 - 160
Fenuron	92.7		P	30 - 160
Fluridone	83.1		P	30 - 160
Hydrocodone	106		P	30 - 160
Ibuprofen	93.2		P	30 - 160
Imazapyr	93.5		P	30 - 160
Imidacloprid	109		P	30 - 160
Linuron	73.5		P	30 - 160
Mandestrobin	88.7		P	30 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P392144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
MCPP	110		P	30 - 160
Naproxen	62.6		P	30 - 160
Primidone	112		P	30 - 160
Pyraclostrobin	85.1		P	30 - 160
Thiamethoxam	106		P	30 - 160
Tolfenpyrad	53.2		P	30 - 160
Triclopyr	90.8		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P392245

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	101		P	30 - 160
Aldicarb	66.1		P	30 - 160
Aldicarb Sulfone	83.1		P	30 - 160
Aldicarb Sulfoxide	65.7		P	30 - 160
Carbaryl	75.8		P	30 - 160
Carbofuran	78.5		P	30 - 160
Methiocarb	88.4		P	30 - 160
Methomyl	90.6		P	30 - 160
Oxamyl	103		P	30 - 160
Propoxur	81.1		P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P392061

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2216844	Alpha-BHC	77.9	75.8	P/P	53 - 147
2216844	Alpha-Chlordane	67.3	65.1	P/P	56 - 107
2216844	Beta-BHC	71.6	76.3	P/P	43 - 182
2216844	Beta-Cyfluthrin	86.1	83.4	P/P	42 - 157
2216844	Bifenthrin	73.6	69.4	P/P	52 - 124
2216844	Chlorothalonil	2.31	3.10	F/F	10 - 265
2216844	Cis-Nonachlor	70.9	66.6	P/P	55 - 112
2216844	Cypermethrin	76.7	73.3	P/P	46 - 144
2216844	Dacthal	81.9	81.2	P/P	72 - 110
2216844	DDD-p,p'	74.1	72.4	P/P	58 - 123
2216844	DDE-p,p'	62.0	60.4	P/P	52 - 106
2216844	DDT-p,p'	63.0	62.3	P/P	50 - 127
2216844	Delta-BHC	115	127	P/P	56 - 222
2216844	Deltamethrin	94.4	85.9	P/P	47 - 152
2216844	Dichlobenil	48.7	48.9	P/P	22 - 99.0
2216844	Dicofol	71.5	82.9	P/P	38 - 145
2216844	Endosulfan I	84.9	86.6	P/P	64 - 124
2216844	Endosulfan II	103	97.6	P/P	52 - 159
2216844	Endosulfan Sulfate	87.4	77.7	P/P	62 - 136
2216844	Endrin	73.9	73.1	P/P	57 - 126
2216844	Endrin Aldehyde	44.7	45.8	P/P	41 - 128
2216844	Endrin Ketone	83.3	81.3	P/P	67 - 129
2216844	Esfenvalerate	77.9	70.6	P/P	50 - 120
2216844	Ethalfluralin	64.8	61.5	P/P	41 - 125
2216844	Fenpropathrin	136	169	P/P	40 - 202
2216844	Gamma-BHC	117	127	P/P	58 - 180
2216844	Gamma-Chlordane	64.7	61.4	P/P	54 - 103
2216844	Heptachlor	53.1	48.1	P/P	46 - 94.0
2216844	Heptachlor Epoxide	72.6	72.3	P/P	62 - 111
2216844	Hexachlorobenzene	46.9	46.0	P/P	42 - 95.0
2216844	Lambda-Cyhalothrin	83.4	72.5	P/P	37 - 162
2216844	Methoxychlor	75.1	76.8	P/P	52 - 143
2216844	MGK-264	64.4	56.6	P/P	37 - 102
2216844	Mirex	56.5	52.6	P/P	43 - 91.0
2216844	Permethrin	68.9	65.7	P/P	48 - 113
2216844	Phenothrin	56.6	52.2	P/P	30 - 104
2216844	Piperonyl Butoxide	96.0	96.6	P/P	67 - 127
2216844	Prallethrin	65.7	63.2	P/P	28 - 102
2216844	Tau-Fluvalinate	98.7	98.4	P/P	46 - 174
2216844	Tetramethrin	88.0	93.4	P/P	28 - 176
2216844	Trans-Nonachlor	65.0	62.0	P/P	51 - 103
2216844	Triclosan Methyl	77.0	79.1	P/P	67 - 116
2216844	Trifluralin	61.6	61.2	P/P	47 - 118
2217764	Aldrin	32.1	24.9	P/P	22 - 127
2217764	Dieldrin	87.5	109	P/P	52 - 123
2217764	Kepone	75.2	89.6	P/P	18 - 138

Reference Method: EPA 8270E
Batch ID: P392107

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2217423	Acetochlor	100	97.4	P/P	66 - 122

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P392107

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2217423	Alachlor	104	107	P/P	65 - 122
2217423	Ametryn	93.5	96.4	P/P	45 - 173
2217423	Atrazine	103	104	P/P	70 - 134
2217423	Atrazine Desethyl	83.4	67.5	P/P	25 - 150
2217423	Azinphos Methyl	293	276	F/F	44 - 174
2217423	Azoxystrobin	158	150	P/P	10 - 268
2217423	Bromacil	77.2	70.2	P/P	31 - 145
2217423	Butylate	56.1	53.4	P/P	15 - 97.0
2217423	Carbophenothion	122	99.9	P/P	42 - 129
2217423	Carfentrazone Ethyl	116	102	P/P	62 - 145
2217423	Chlorpyrifos Ethyl	99.2	102	P/P	60 - 124
2217423	Chlorpyrifos Methyl	97.2	101	P/P	66 - 119
2217423	Cyanazine	134	160	P/P	17 - 225
2217423	Demeton	101	95.1	P/P	36 - 142
2217423	Diazinon	94.7	93.7	P/P	70 - 128
2217423	Difenoconazole	157	147	P/P	33 - 222
2217423	Dimethenamid	99.6	99.7	P/P	54 - 125
2217423	Disulfoton	92.2	85.4	P/P	49 - 133
2217423	Dithiopyr	93.5	96.9	P/P	55 - 123
2217423	EPTC	52.3	53.7	P/P	19 - 91.0
2217423	Ethion	68.8	85.4	P/P	13 - 143
2217423	Ethoprop	94.9	93.4	P/P	49 - 144
2217423	Fenamiphos	111	114	P/P	32 - 136
2217423	Fenbuconazole	108	105	P/P	73 - 148
2217423	Fipronil	99.0	103	P/P	57 - 129
2217423	Fipronil Desulfinyl	92.0	92.8	P/P	49 - 127
2217423	Fipronil Sulfide	87.3	91.4	P/P	44 - 127
2217423	Fipronil Sulfone	91.8	102	P/P	35 - 126
2217423	Fluazifop-P-butyl	95.9	108	P/P	67 - 129
2217423	Fludioxonil	95.5	104	P/P	61 - 126
2217423	Flumioxazin	210	191	P/P	38 - 279
2217423	Flutolanil	98.7	114	P/P	55 - 136
2217423	Fluxapyroxad	90.0	134	P/P	33 - 140
2217423	Fonofos	90.4	88.9	P/P	58 - 125
2217423	Hexazinone	106	108	P/P	57 - 148
2217423	Imazalil	87.1	71.5	P/P	10 - 221
2217423	Iprodione	97.0	131	P/P	32 - 140
2217423	Malathion	114	134	P/P	52 - 138
2217423	Metalaxyl	98.6	103	P/P	46 - 134
2217423	Metolachlor	89.0	99.5	P/P	58 - 122
2217423	Metribuzin	105	104	P/P	16 - 272
2217423	Mevinphos	85.2	87.5	P/P	45 - 140
2217423	Molinate	73.9	70.8	P/P	41 - 103
2217423	Myclobutanil	96.3	115	P/P	60 - 134
2217423	Naled	44.5	48.3	P/P	20 - 113
2217423	Norflurazon	91.3	119	P/P	51 - 123
2217423	Oxadiazon	92.0	115	P/P	44 - 125
2217423	Oxyfluorfen	118	147	P/P	66 - 176
2217423	Parathion Ethyl	97.0	95.1	P/P	57 - 132
2217423	Parathion Methyl	106	94.1	P/P	59 - 156
2217423	Pendimethalin	97.3	93.9	P/P	59 - 129
2217423	Phorate	106	97.7	P/P	47 - 136

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P392107

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2217423	Prodiamine	127	90.1	P/P	10 - 159
2217423	Prometon	107	106	P/P	59 - 127
2217423	Prometryn	100	98.2	P/P	59 - 129
2217423	Pronamide	98.6	101	P/P	65 - 145
2217423	Propiconazole	89.2	121	P/P	28 - 165
2217423	Pyriproxyfen	183	207	F/F	21 - 180
2217423	Simazine	95.5	80.1	P/P	63 - 147
2217423	Sulfentrazone	109	117	P/P	32 - 136
2217423	Tebuconazole	58.9	68.2	P/P	10 - 117
2217423	Terbufos	94.2	92.2	P/P	61 - 131
2217423	Terbuthylazine	104	98.1	P/P	62 - 126

Reference Method: EPA 8276
Batch ID: P392061

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2217764	Chlordane	102	103	P/P	47 - 128
2217764	Toxaphene	131	133	P/P	11 - 163

Reference Method: EPA 8321B
Batch ID: P392110

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2216230	Acesulfame K	64.1	65.5	P/P	40 - 150
2216230	AMPA	91.4	87.4	P/P	40 - 150
2216230	Endothall	108	120	P/P	40 - 150
2216230	Glufosinate	93.9	97.8	P/P	40 - 150
2216230	Glyphosate	96.9	108	P/P	40 - 140
2216230	Sucralose	101	106	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P392144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2216796	2,4-D	93.1	92.3	P/P	30 - 160
2216796	Acetaminophen	75.3	85.8	P/P	30 - 160
2216796	Acetamiprid	77.2	78.5	P/P	30 - 160
2216796	Afidopyropen	64.3	64.8	P/P	30 - 160
2216796	Benzovindiflupyr	64.3	62.2	P/P	30 - 160
2216796	Carbamazepine	51.6	49.0	P/P	30 - 160
2216796	Clothianidin	88.5	79.5	P/P	30 - 160
2216796	Dinotefuran	94.4	85.3	P/P	30 - 160
2216796	Diuron	42.6	39.3	P/P	30 - 160
2216796	Fenuron	60.0	63.4	P/P	30 - 160
2216796	Fluridone	61.1	48.8	P/P	30 - 160
2216796	Hydrocodone	95.9	91.1	P/P	30 - 160
2216796	Ibuprofen	64.1	71.1	P/P	30 - 160
2216796	Imidacloprid	111	114	P/P	30 - 160
2216796	Linuron	52.4	50.3	P/P	30 - 160
2216796	Mandestrobin	69.4	65.0	P/P	30 - 160
2216796	MCPP	78.3	78.8	P/P	30 - 160
2216796	Naproxen	66.1	79.6	P/P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P392144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2216796	Primidone	99.4	74.8	P/P	30 - 160
2216796	Pyraclostrobin	72.2	72.4	P/P	30 - 160
2216796	Thiamethoxam	93.4	104	P/P	30 - 160
2216796	Tolfenpyrad	52.7	52.4	P/P	30 - 160
2216796	Triclopyr	72.2	79.9	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P392245

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2217418	3-Hydroxycarbofuran	92.5	73.1	P/P	30 - 160
2217418	Aldicarb	58.5	46.1	P/P	30 - 160
2217418	Aldicarb Sulfone	91.1	83.8	P/P	30 - 160
2217418	Aldicarb Sulfoxide	54.7	30.2	P/P	30 - 160
2217418	Carbaryl	50.4	45.0	P/P	30 - 160
2217418	Carbofuran	60.0	51.0	P/P	30 - 160
2217418	Methiocarb	59.7	58.9	P/P	30 - 160
2217418	Methomyl	72.9	70.7	P/P	30 - 160
2217418	Oxamyl	85.5	81.9	P/P	30 - 160
2217418	Propoxur	52.4	49.5	P/P	30 - 160

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P392061

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2216844	Alpha-BHC	2.75	Spike	P	0 - 30
2216844	Alpha-Chlordane	3.25	Spike	P	0 - 30
2216844	Beta-BHC	6.33	Spike	P	0 - 30
2216844	Beta-Cyfluthrin	3.24	Spike	P	0 - 30
2216844	Bifenthrin	5.80	Spike	P	0 - 30
2216844	Chlorothalonil	29.3	Spike	P	0 - 30
2216844	Cis-Nonachlor	6.20	Spike	P	0 - 30
2216844	Cypermethrin	4.48	Spike	P	0 - 30
2216844	Dacthal	0.871	Spike	P	0 - 30
2216844	DDD-p,p'	2.26	Spike	P	0 - 30
2216844	DDE-p,p'	2.50	Spike	P	0 - 30
2216844	DDT-p,p'	1.14	Spike	P	0 - 30
2216844	Delta-BHC	10.1	Spike	P	0 - 30
2216844	Deltamethrin	9.38	Spike	P	0 - 30
2216844	Dichlobenil	0.516	Spike	P	0 - 30
2216844	Dicofol	14.9	Spike	P	0 - 30
2216844	Endosulfan I	1.98	Spike	P	0 - 30
2216844	Endosulfan II	4.91	Spike	P	0 - 30
2216844	Endosulfan Sulfate	11.7	Spike	P	0 - 30
2216844	Endrin	1.04	Spike	P	0 - 30
2216844	Endrin Aldehyde	2.55	Spike	P	0 - 30
2216844	Endrin Ketone	2.37	Spike	P	0 - 30
2216844	Esfenvalerate	9.75	Spike	P	0 - 30
2216844	Ethalfluralin	5.18	Spike	P	0 - 30
2216844	Fenpropathrin	21.5	Spike	P	0 - 30
2216844	Gamma-BHC	8.19	Spike	P	0 - 30
2216844	Gamma-Chlordane	5.22	Spike	P	0 - 30
2216844	Heptachlor	9.89	Spike	P	0 - 30
2216844	Heptachlor Epoxide	0.457	Spike	P	0 - 30
2216844	Hexachlorobenzene	1.77	Spike	P	0 - 30
2216844	Lambda-Cyhalothrin	14.0	Spike	P	0 - 30
2216844	Methoxychlor	2.23	Spike	P	0 - 30
2216844	MGK-264	12.8	Spike	P	0 - 30
2216844	Mirex	7.12	Spike	P	0 - 30
2216844	Permethrin	4.81	Spike	P	0 - 30
2216844	Phenothrin	8.06	Spike	P	0 - 30
2216844	Piperonyl Butoxide	0.583	Spike	P	0 - 30
2216844	Prallethrin	3.87	Spike	P	0 - 30
2216844	Tau-Fluvalinate	0.344	Spike	P	0 - 30
2216844	Tetramethrin	5.94	Spike	P	0 - 30
2216844	Trans-Nonachlor	4.82	Spike	P	0 - 30
2216844	Triclosan Methyl	2.79	Spike	P	0 - 30
2216844	Trifluralin	0.740	Spike	P	0 - 30
2217764	Aldrin	25.1	Spike	P	0 - 30
2217764	Dieldrin	20.3	Spike	P	0 - 30
2217764	Kepone	17.4	Spike	P	0 - 30
LFB	Aldrin	6.61	LCS	P	0 - 30
LFB	Alpha-BHC	1.80	LCS	P	0 - 30
LFB	Alpha-Chlordane	10.4	LCS	P	0 - 30
LFB	Beta-BHC	5.00	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	6.99	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P392061

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Bifenthrin	14.4	LCS	P	0 - 30
LFB	Chlorothalonil	24.7	LCS	P	0 - 30
LFB	Cis-Nonachlor	8.55	LCS	P	0 - 30
LFB	Cypermethrin	15.9	LCS	P	0 - 30
LFB	Dacthal	7.04	LCS	P	0 - 30
LFB	DDD-p,p'	6.91	LCS	P	0 - 30
LFB	DDE-p,p'	13.0	LCS	P	0 - 30
LFB	DDT-p,p'	15.0	LCS	P	0 - 30
LFB	Delta-BHC	3.57	LCS	P	0 - 30
LFB	Deltamethrin	1.14	LCS	P	0 - 30
LFB	Dichlobenil	9.27	LCS	P	0 - 30
LFB	Dicofol	4.34	LCS	P	0 - 30
LFB	Dieldrin	10.6	LCS	P	0 - 30
LFB	Endosulfan I	9.38	LCS	P	0 - 30
LFB	Endosulfan II	0.846	LCS	P	0 - 30
LFB	Endosulfan Sulfate	1.98	LCS	P	0 - 30
LFB	Endrin	5.47	LCS	P	0 - 30
LFB	Endrin Aldehyde	8.83	LCS	P	0 - 30
LFB	Endrin Ketone	6.93	LCS	P	0 - 30
LFB	Esfenvalerate	5.27	LCS	P	0 - 30
LFB	Ethalfluralin	6.31	LCS	P	0 - 30
LFB	Fenpropathrin	6.09	LCS	P	0 - 30
LFB	Gamma-BHC	2.86	LCS	P	0 - 30
LFB	Gamma-Chlordane	12.4	LCS	P	0 - 30
LFB	Heptachlor	15.3	LCS	P	0 - 30
LFB	Heptachlor Epoxide	8.55	LCS	P	0 - 30
LFB	Hexachlorobenzene	13.6	LCS	P	0 - 30
LFB	Kepone	32.0	LCS	F	0 - 30
LFB	Lambda-Cyhalothrin	11.5	LCS	P	0 - 30
LFB	Methoxychlor	4.13	LCS	P	0 - 30
LFB	MGK-264	6.57	LCS	P	0 - 30
LFB	Mirex	21.6	LCS	P	0 - 30
LFB	Permethrin	14.3	LCS	P	0 - 30
LFB	Phenothrin	22.9	LCS	P	0 - 30
LFB	Piperonyl Butoxide	3.41	LCS	P	0 - 30
LFB	Prallethrin	4.86	LCS	P	0 - 30
LFB	Tau-Fluvalinate	12.7	LCS	P	0 - 30
LFB	Tetramethrin	4.05	LCS	P	0 - 30
LFB	Trans-Nonachlor	12.4	LCS	P	0 - 30
LFB	Triclosan Methyl	6.54	LCS	P	0 - 30
LFB	Trifluralin	9.84	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P392107

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2217423	Acetochlor	2.99	Spike	P	0 - 30
2217423	Alachlor	2.39	Spike	P	0 - 30
2217423	Ametryn	3.06	Spike	P	0 - 30
2217423	Atrazine	0.543	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P392107

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2217423	Atrazine Desethyl	21.1	Spike	P	0 - 30
2217423	Azinphos Methyl	5.84	Spike	P	0 - 30
2217423	Azoxystrobin	5.22	Spike	P	0 - 30
2217423	Bromacil	8.70	Spike	P	0 - 30
2217423	Butylate	4.80	Spike	P	0 - 30
2217423	Carbophenothion	20.0	Spike	P	0 - 30
2217423	Carfentrazone Ethyl	12.7	Spike	P	0 - 30
2217423	Chlorpyrifos Ethyl	2.39	Spike	P	0 - 30
2217423	Chlorpyrifos Methyl	3.69	Spike	P	0 - 30
2217423	Cyanazine	17.7	Spike	P	0 - 30
2217423	Demeton	5.85	Spike	P	0 - 30
2217423	Diazinon	1.08	Spike	P	0 - 30
2217423	Difenoconazole	6.79	Spike	P	0 - 30
2217423	Dimethenamid	0.147	Spike	P	0 - 30
2217423	Disulfoton	7.67	Spike	P	0 - 30
2217423	Dithiopyr	3.60	Spike	P	0 - 30
2217423	EPTC	2.69	Spike	P	0 - 30
2217423	Ethion	21.5	Spike	P	0 - 30
2217423	Ethoprop	1.60	Spike	P	0 - 30
2217423	Fenamiphos	2.18	Spike	P	0 - 30
2217423	Fenbuconazole	3.17	Spike	P	0 - 30
2217423	Fipronil	3.90	Spike	P	0 - 30
2217423	Fipronil Desulfinyl	0.849	Spike	P	0 - 30
2217423	Fipronil Sulfide	4.60	Spike	P	0 - 30
2217423	Fipronil Sulfone	10.4	Spike	P	0 - 30
2217423	Fluazifop-P-butyl	12.2	Spike	P	0 - 30
2217423	Fludioxonil	8.55	Spike	P	0 - 30
2217423	Flumioxazin	9.35	Spike	P	0 - 30
2217423	Flutolanil	12.6	Spike	P	0 - 30
2217423	Fluxapyroxad	37.1	Spike	F	0 - 30
2217423	Fonofos	1.72	Spike	P	0 - 30
2217423	Hexazinone	1.34	Spike	P	0 - 30
2217423	Imazalil	19.6	Spike	P	0 - 30
2217423	Iprodione	29.6	Spike	P	0 - 30
2217423	Malathion	15.8	Spike	P	0 - 30
2217423	Metalaxyl	4.41	Spike	P	0 - 30
2217423	Metolachlor	9.40	Spike	P	0 - 30
2217423	Metribuzin	0.650	Spike	P	0 - 30
2217423	Mevinphos	2.74	Spike	P	0 - 30
2217423	Molinate	4.26	Spike	P	0 - 30
2217423	Myclobutanil	17.8	Spike	P	0 - 30
2217423	Naled	8.12	Spike	P	0 - 30
2217423	Norflurazon	26.4	Spike	P	0 - 30
2217423	Oxadiazon	22.0	Spike	P	0 - 30
2217423	Oxyfluorfen	21.5	Spike	P	0 - 30
2217423	Parathion Ethyl	1.97	Spike	P	0 - 30
2217423	Parathion Methyl	11.5	Spike	P	0 - 30
2217423	Pendimethalin	3.50	Spike	P	0 - 30
2217423	Phorate	7.87	Spike	P	0 - 30
2217423	Prodiamine	34.2	Spike	F	0 - 30
2217423	Prometon	0.998	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P392107

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2217423	Prometryn	2.28	Spike	P	0 - 30
2217423	Pronamide	2.17	Spike	P	0 - 30
2217423	Propiconazole	29.9	Spike	P	0 - 30
2217423	Pyriproxyfen	12.5	Spike	P	0 - 30
2217423	Simazine	17.6	Spike	P	0 - 30
2217423	Sulfentrazone	7.33	Spike	P	0 - 30
2217423	Tebuconazole	13.5	Spike	P	0 - 30
2217423	Terbufos	2.10	Spike	P	0 - 30
2217423	Terbuthylazine	6.19	Spike	P	0 - 30
LFB	Acetochlor	9.67	LCS	P	0 - 30
LFB	Alachlor	1.48	LCS	P	0 - 30
LFB	Ametryn	15.1	LCS	P	0 - 30
LFB	Atrazine	8.65	LCS	P	0 - 30
LFB	Atrazine Desethyl	5.71	LCS	P	0 - 30
LFB	Azinphos Methyl	0.690	LCS	P	0 - 30
LFB	Azoxystrobin	21.8	LCS	P	0 - 30
LFB	Bromacil	7.00	LCS	P	0 - 30
LFB	Butylate	16.7	LCS	P	0 - 30
LFB	Carbophenothion	9.43	LCS	P	0 - 30
LFB	Carfentrazone Ethyl	6.99	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	4.31	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	3.09	LCS	P	0 - 30
LFB	Cyanazine	8.33	LCS	P	0 - 30
LFB	Demeton	0.666	LCS	P	0 - 30
LFB	Diazinon	10.9	LCS	P	0 - 30
LFB	Difenoconazole	15.9	LCS	P	0 - 30
LFB	Dimethenamid	11.1	LCS	P	0 - 30
LFB	Disulfoton	11.3	LCS	P	0 - 30
LFB	Dithiopyr	11.8	LCS	P	0 - 30
LFB	EPTC	12.9	LCS	P	0 - 30
LFB	Ethion	5.24	LCS	P	0 - 30
LFB	Ethoprop	4.93	LCS	P	0 - 30
LFB	Fenamiphos	3.14	LCS	P	0 - 30
LFB	Fenbuconazole	14.3	LCS	P	0 - 30
LFB	Fipronil	6.48	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	9.77	LCS	P	0 - 30
LFB	Fipronil Sulfide	1.68	LCS	P	0 - 30
LFB	Fipronil Sulfone	6.10	LCS	P	0 - 30
LFB	Fluazifop-P-butyl	16.3	LCS	P	0 - 30
LFB	Fludioxonil	5.23	LCS	P	0 - 30
LFB	Flumioxazin	9.53	LCS	P	0 - 30
LFB	Flutolanil	6.06	LCS	P	0 - 30
LFB	Fluxapyroxad	11.9	LCS	P	0 - 30
LFB	Fonofos	11.9	LCS	P	0 - 30
LFB	Hexazinone	5.85	LCS	P	0 - 30
LFB	Imazalil	6.18	LCS	P	0 - 30
LFB	Iprodione	7.15	LCS	P	0 - 30
LFB	Malathion	11.9	LCS	P	0 - 30
LFB	Metalaxyl	6.27	LCS	P	0 - 30
LFB	Metolachlor	2.60	LCS	P	0 - 30
LFB	Metribuzin	4.28	LCS	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P392107

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mevinphos	2.85	LCS	P	0 - 30
LFB	Molinate	12.1	LCS	P	0 - 30
LFB	Myclobutanil	4.46	LCS	P	0 - 30
LFB	Naled	9.67	LCS	P	0 - 30
LFB	Norflurazon	14.6	LCS	P	0 - 30
LFB	Oxadiazon	8.06	LCS	P	0 - 30
LFB	Oxyfluorfen	7.87	LCS	P	0 - 30
LFB	Parathion Ethyl	11.3	LCS	P	0 - 30
LFB	Parathion Methyl	13.2	LCS	P	0 - 30
LFB	Pendimethalin	9.53	LCS	P	0 - 30
LFB	Phorate	2.08	LCS	P	0 - 30
LFB	Prodiamine	2.47	LCS	P	0 - 30
LFB	Prometon	6.79	LCS	P	0 - 30
LFB	Prometryn	4.90	LCS	P	0 - 30
LFB	Pronamide	9.43	LCS	P	0 - 30
LFB	Propiconazole	11.7	LCS	P	0 - 30
LFB	Pyriproxyfen	4.18	LCS	P	0 - 30
LFB	Simazine	12.0	LCS	P	0 - 30
LFB	Sulfentrazone	18.3	LCS	P	0 - 30
LFB	Tebuconazole	15.4	LCS	P	0 - 30
LFB	Terbufos	5.57	LCS	P	0 - 30
LFB	Terbuthylazine	5.69	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P392061

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2217764	Chlordane	1.35	Spike	P	0 - 30
2217764	Toxaphene	1.75	Spike	P	0 - 30
LFB	Chlordane	11.2	LCS	P	0 - 30
LFB	Toxaphene	3.48	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P392110

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2216230	Acesulfame K	2.16	Spike	P	0 - 30
2216230	AMPA	4.07	Spike	P	0 - 30
2216230	Endothall	10.3	Spike	P	0 - 30
2216230	Glufosinate	4.09	Spike	P	0 - 30
2216230	Glyphosate	10.8	Spike	P	0 - 30
2216230	Sucralose	4.54	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P392144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2216796	2,4-D	0.714	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P392144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2216796	Acetaminophen	7.39	Spike	P	0 - 30
2216796	Acetamiprid	1.72	Spike	P	0 - 30
2216796	Afidopyropen	0.897	Spike	P	0 - 30
2216796	Bentazon	3.71	Spike	P	0 - 30
2216796	Benzovindiflupyr	3.33	Spike	P	0 - 30
2216796	Carbamazepine	5.20	Spike	P	0 - 30
2216796	Clothianidin	10.7	Spike	P	0 - 30
2216796	Dinotefuran	10.1	Spike	P	0 - 30
2216796	Diuron	7.45	Spike	P	0 - 30
2216796	Fenuron	5.56	Spike	P	0 - 30
2216796	Fluridone	18.9	Spike	P	0 - 30
2216796	Hydrocodone	5.14	Spike	P	0 - 30
2216796	Ibuprofen	10.3	Spike	P	0 - 30
2216796	Imazapyr	11.4	Spike	P	0 - 30
2216796	Imidacloprid	2.92	Spike	P	0 - 30
2216796	Linuron	4.07	Spike	P	0 - 30
2216796	Mandestrobin	6.57	Spike	P	0 - 30
2216796	MCPP	0.582	Spike	P	0 - 30
2216796	Naproxen	18.6	Spike	P	0 - 30
2216796	Primidone	28.2	Spike	P	0 - 30
2216796	Pyraclostrobin	0.305	Spike	P	0 - 30
2216796	Thiamethoxam	11.1	Spike	P	0 - 30
2216796	Tolfenpyrad	0.595	Spike	P	0 - 30
2216796	Triclopyr	10.1	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P392245

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2217418	3-Hydroxycarbofuran	23.3	Spike	P	0 - 30
2217418	Aldicarb	23.7	Spike	P	0 - 30
2217418	Aldicarb Sulfone	8.28	Spike	P	0 - 30
2217418	Aldicarb Sulfoxide	57.6	Spike	F	0 - 30
2217418	Carbaryl	11.2	Spike	P	0 - 30
2217418	Carbofuran	16.2	Spike	P	0 - 30
2217418	Methiocarb	1.43	Spike	P	0 - 30
2217418	Methomyl	3.09	Spike	P	0 - 30
2217418	Oxamyl	4.19	Spike	P	0 - 30
2217418	Propoxur	5.71	Spike	P	0 - 30

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2217418
Field Sample ID: G4NW0375

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	49.6	P	30 - 160

Lab Sample ID: 2217419
Field Sample ID: G4NW0375

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	72.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	56.6	P	30 - 160
EPA 8321B	Diuron-d6	51.9	P	30 - 160
EPA 8321B	Endothall-d6	97.1	P	40 - 160
EPA 8321B	Endothall-d6	97.1	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	94.9	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	94.9	P	40 - 160
EPA 8321B	Ibuprofen-d3	65.8	P	30 - 160
EPA 8321B	Primidone-d5	80.9	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	30 - 160

Lab Sample ID: 2217420
Field Sample ID: G4NW0382

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	72.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	54.3	P	30 - 160
EPA 8321B	Diuron-d6	48.2	P	30 - 160
EPA 8321B	Endothall-d6	101	P	40 - 160
EPA 8321B	Endothall-d6	101	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	98.4	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	98.4	P	40 - 160
EPA 8321B	Ibuprofen-d3	66.4	P	30 - 160
EPA 8321B	Primidone-d5	82.9	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160

Lab Sample ID: 2217421
Field Sample ID: G4NW0381

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	96.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	74.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	54.2	P	30 - 160
EPA 8321B	Diuron-d6	56.1	P	30 - 160
EPA 8321B	Endothall-d6	98.2	P	40 - 160
EPA 8321B	Endothall-d6	98.2	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	96.9	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	96.9	P	40 - 160
EPA 8321B	Ibuprofen-d3	65.4	P	30 - 160
EPA 8321B	Primidone-d5	65.3	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2217422
Field Sample ID: G4NW0375

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	112	P	40 - 123
EPA 8270E	Decachlorobiphenyl	74.7	P	47 - 111
EPA 8270E	Tetrachloro-m-xylene	52.1	P	31 - 100
EPA 8270E	Tetrachloro-m-xylene	46.5	P	33 - 102
EPA 8276	Decachlorobiphenyl	68.5	P	29 - 92.0
EPA 8276	PCNB	85.4	P	43 - 134

Lab Sample ID: 2217423
Field Sample ID: G4NW0375

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	102	P	73 - 135
EPA 8270E	Terbufos-d10	102	P	58 - 130

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A102982
Included Lab Sample IDs: 2217419, 2217420, 2217421

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	101	95.7	P/P	60 - 160
AMPA	96.8	89.9	P/P	60 - 160
Endothall	98.7	98.9	P/P	60 - 160
Glufosinate	94.9	88.3	P/P	60 - 160
Glyphosate	107	111	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A103029
Included Lab Sample IDs: 2217419, 2217420, 2217421

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	102	94.5	P/P	50 - 150
2,4-D	94.5	91.6	P/P	50 - 150
3-Hydroxycarbofuran	124	124	P/P	60 - 150
Acetaminophen	107	106	P/P	60 - 160
Acetaminophen	89.5	107	P/P	60 - 160
Acetamiprid	114	97.3	P/P	50 - 150
Acetamiprid	86.9	114	P/P	50 - 150
Afidopyropen	105	109	P/P	50 - 150
Afidopyropen	94.9	105	P/P	50 - 150
Aldicarb	109	108	P/P	60 - 150
Aldicarb Sulfone	113	112	P/P	50 - 150
Aldicarb Sulfoxide	110	109	P/P	50 - 150
Bentazon	94.3	92.4	P/P	50 - 160
Bentazon	94.6	94.3	P/P	50 - 160
Benzovindiflupyr	103	112	P/P	50 - 160
Benzovindiflupyr	112	113	P/P	50 - 160
Carbamazepine	104	106	P/P	60 - 150
Carbamazepine	106	111	P/P	60 - 150
Carbaryl	100	95.7	P/P	60 - 150
Carbofuran	110	101	P/P	50 - 150
Clothianidin	107	97.3	P/P	60 - 150
Clothianidin	120	107	P/P	60 - 150
Dinotefuran	100	108	P/P	50 - 150
Dinotefuran	108	110	P/P	50 - 150
Diuron	108	117	P/P	60 - 160
Diuron	117	113	P/P	60 - 160
Fenuron	108	83.3	P/P	60 - 150
Fenuron	87.3	108	P/P	60 - 150
Fluridone	120	119	P/P	60 - 160
Fluridone	122	120	P/P	60 - 160
Hydrocodone	124	97.8	P/P	60 - 150
Hydrocodone	97.8	130	P/P	60 - 150
Ibuprofen	116	107	P/P	50 - 160
Ibuprofen	94.9	116	P/P	50 - 160
Imazapyr	88.1	90.7	P/P	50 - 160
Imazapyr	90.8	88.1	P/P	50 - 160
Imidacloprid	101	112	P/P	60 - 150
Imidacloprid	104	101	P/P	60 - 150
Linuron	106	98.7	P/P	60 - 150
Linuron	98.7	98.7	P/P	60 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A103029
Included Lab Sample IDs: 2217419, 2217420, 2217421

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mandestrobin	111	112	P/P	50 - 150
Mandestrobin	112	106	P/P	50 - 150
MCPP	102	94.0	P/P	50 - 150
MCPP	94.0	98.0	P/P	50 - 150
Methiocarb	107	115	P/P	50 - 150
Methomyl	111	131	P/P	50 - 150
Naproxen	101	108	P/P	50 - 160
Naproxen	108	109	P/P	50 - 160
Oxamyl	105	106	P/P	50 - 150
Primidone	109	111	P/P	60 - 150
Primidone	112	109	P/P	60 - 150
Propoxur	109	108	P/P	50 - 150
Pyraclostrobin	107	107	P/P	60 - 150
Pyraclostrobin	118	107	P/P	60 - 150
Thiamethoxam	109	107	P/P	50 - 150
Thiamethoxam	115	109	P/P	50 - 150
Tolfenpyrad	104	102	P/P	60 - 150
Tolfenpyrad	105	104	P/P	60 - 150
Triclopyr	92.0	96.0	P/P	50 - 150
Triclopyr	96.0	99.0	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A103048
Included Lab Sample IDs: 2217423

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	100		P	80 - 120
Carbophenothion	99.6		P	80 - 120
Carfentrazone Ethyl	94.9		P	80 - 120
Ethion	97.0		P	80 - 120
Flutolanil	93.7		P	80 - 120
Metolachlor	93.8		P	80 - 120
Pronamide	99.5		P	80 - 120
Sulfentrazone	92.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A103051
Included Lab Sample IDs: 2217422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-BHC	99.9		P	80 - 120
Beta-BHC	102		P	80 - 120
Chlorothalonil	110		P	80 - 120
Delta-BHC	96.9		P	80 - 120
Gamma-BHC	100		P	80 - 120

Reference Method: EPA 8270E
Run ID: A103054
Included Lab Sample IDs: 2217422

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A103054
Included Lab Sample IDs: 2217422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-Chlordane	98.6		P	80 - 120
Beta-Cyfluthrin	96.2		P	80 - 120
Bifenthrin	98.5		P	80 - 120
Cis-Nonachlor	95.9		P	80 - 120
Cypermethrin	92.5		P	80 - 120
Dacthal	97.8		P	80 - 120
DDD-p,p'	96.2		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	99.6		P	80 - 120
Deltamethrin	91.5		P	80 - 120
Dichlobenil	90.3		P	80 - 120
Dicofol	96.3		P	80 - 120
Endosulfan I	95.9		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	91.6		P	80 - 120
Endrin	97.9		P	80 - 120
Endrin Aldehyde	111		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	88.3		P	80 - 120
Ethalfluralin	99.5		P	80 - 120
Fenpropathrin	98.0		P	80 - 120
Gamma-Chlordane	97.6		P	80 - 120
Heptachlor	95.1		P	80 - 120
Heptachlor Epoxide	98.7		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Lambda-Cyhalothrin	96.7		P	80 - 120
Methoxychlor	99.8		P	80 - 120
MGK-264	96.8		P	80 - 120
Mirex	98.3		P	80 - 120
Permethrin	93.3		P	80 - 120
Phenothrin	92.1		P	80 - 120
Piperonyl Butoxide	93.1		P	80 - 120
Prallethrin	87.5		P	80 - 120
Tau-Fluvalinate	95.6		P	80 - 120
Tetramethrin	91.1		P	80 - 120
Trans-Nonachlor	98.1		P	80 - 120
Triclosan Methyl	97.7		P	80 - 120
Trifluralin	98.7		P	80 - 120

Reference Method: EPA 8270E
Run ID: A103059
Included Lab Sample IDs: 2217422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.6		P	80 - 120
Dieldrin	98.0		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8276
Run ID: A103060
Included Lab Sample IDs: 2217422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.5		P	80 - 120
Toxaphene	107		P	80 - 120

Reference Method: EPA 8270E
Run ID: A103093
Included Lab Sample IDs: 2217422

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kepone	80.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A103100
Included Lab Sample IDs: 2217423

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	92.7		P	80 - 120
Alachlor	97.4		P	80 - 120
Ametryn	90.6		P	80 - 120
Atrazine Desethyl	98.4		P	80 - 120
Azinphos Methyl	90.1		P	80 - 120
Azoxystrobin	99.6		P	80 - 120
Bromacil	93.4		P	80 - 120
Butylate	95.0		P	80 - 120
Chlorpyrifos Ethyl	96.5		P	80 - 120
Chlorpyrifos Methyl	98.5		P	80 - 120
Cyanazine	120		P	80 - 120
Demeton	96.8		P	80 - 120
Diazinon	94.9		P	80 - 120
Difenoconazole	95.6		P	80 - 120
Dimethenamid	91.8		P	80 - 120
Disulfoton	93.8		P	80 - 120
Dithiopyr	94.8		P	80 - 120
EPTC	97.7		P	80 - 120
Ethoprop	97.5		P	80 - 120
Fenamiphos	103		P	80 - 120
Fenbuconazole	96.0		P	80 - 120
Fipronil	97.6		P	80 - 120
Fipronil Desulfinyl	98.4		P	80 - 120
Fipronil Sulfide	98.1		P	80 - 120
Fipronil Sulfone	98.5		P	80 - 120
Fluazifop-P-butyl	91.4		P	80 - 120
Fludioxonil	94.7		P	80 - 120
Flumioxazin	94.6		P	80 - 120
Fluxapyroxad	98.8		P	80 - 120
Fonofos	96.6		P	80 - 120
Hexazinone	109		P	80 - 120
Imazalil	92.3		P	80 - 120
Iprodione	92.5		P	80 - 120
Malathion	99.4		P	80 - 120
Metalaxyl	98.7		P	80 - 120
Metribuzin	103		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A103100
Included Lab Sample IDs: 2217423

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mevinphos	98.9		P	80 - 120
Molinate	98.7		P	80 - 120
Myclobutanil	96.9		P	80 - 120
Naled	108		P	80 - 120
Norflurazon	93.6		P	80 - 120
Oxadiazon	95.1		P	80 - 120
Oxyfluorfen	99.2		P	80 - 120
Parathion Ethyl	99.0		P	80 - 120
Parathion Methyl	100		P	80 - 120
Pendimethalin	93.2		P	80 - 120
Phorate	96.3		P	80 - 120
Prodiamine	95.1		P	80 - 120
Prometon	95.5		P	80 - 120
Prometryn	95.7		P	80 - 120
Propiconazole	97.5		P	80 - 120
Pyriproxyfen	93.4		P	80 - 120
Simazine	96.8		P	80 - 120
Tebuconazole	97.0		P	80 - 120
Terbufos	94.6		P	80 - 120
Terbuthylazine	94.4		P	80 - 120

Reference Method: EPA 8321B
Run ID: A103189
Included Lab Sample IDs: 2217419, 2217420, 2217421

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	87.5	89.8	P/P	60 - 160

* 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	Acetochlor	104	94.7	100	97.4	9.67		2.99
	Alachlor	104	103	104	107	1.48		2.39
	Aldrin	40.8	43.6	32.1	24.9	6.61		25.1
	Alpha-BHC	82.7	84.2	77.9	75.8	1.80		2.75
	Alpha-Chlordane	85.7	77.2	67.3	65.1	10.4		3.25
	Ametryn	112	96.2	93.5	96.4	15.1		3.06
	Atrazine	106	97.7	103	104	8.65		0.543
	Atrazine Desethyl	86.4	81.6	83.4	67.5	5.71		21.1
	Azinphos Methyl	283	281	293	276	0.690		5.84
	Azoxystrobin	207	167	150	158	21.8		5.22
	Beta-BHC	91.4	96.1	71.6	76.3	5.00		6.33
	Beta-Cyfluthrin	94.1	87.8	86.1	83.4	6.99		3.24
	Bifenthrin	87.4	75.7	73.6	69.4	14.4		5.80
	Bromacil	89.8	83.7	70.2	77.2	7.00		8.70
	Butylate	68.7	58.1	53.4	56.1	16.7		4.80
	Carbophenothion	103	93.8	122	99.9	9.43		20.0
	Carfentrazone Ethyl	103	96.2	116	102	6.99		12.7
	Chlorothalonil	60.8	47.4	2.31	3.10	24.7		29.3
	Chlorpyrifos Ethyl	98.7	94.5	99.2	102	4.31		2.39
	Chlorpyrifos Methyl	102	98.9	97.2	101	3.09		3.69
	Cis-Nonachlor	87.5	80.3	70.9	66.6	8.55		6.20
	Cyanazine	146	135	134	160	8.33		17.7
	Cypermethrin	93.5	79.7	76.7	73.3	15.9		4.48
	Dacthal	94.8	88.4	81.9	81.2	7.04		0.871
	DDD-p,p'	91.7	85.6	74.1	72.4	6.91		2.26
	DDE-p,p'	84.3	74.0	62.0	60.4	13.0		2.50
	DDT-p,p'	84.7	72.9	63.0	62.3	15.0		1.14
	Delta-BHC	118	123	115	127	3.57		10.1
	Deltamethrin	101	100	94.4	85.9	1.14		9.38
	Demeton	98.8	98.1	101	95.1	0.666		5.85
	Diazinon	97.4	87.3	94.7	93.7	10.9		1.08
	Dichlobenil	61.3	67.3	48.7	48.9	9.27		0.516
	Dicofol	95.3	91.3	71.5	82.9	4.34		14.9
	Dieldrin	64.3	71.5	87.5	109	10.6		20.3
	Difenoconazole	166	141	157	147	15.9		6.79
	Dimethenamid	104	92.8	99.6	99.7	11.1		0.147
	Disulfoton	101	90.4	92.2	85.4	11.3		7.67
	Dithiopyr	95.0	84.4	93.5	96.9	11.8		3.60
	Endosulfan I	97.3	88.6	84.9	86.6	9.38		1.98
	Endosulfan II	106	106	103	97.6	0.846		4.91
	Endosulfan Sulfate	85.4	83.7	87.4	77.7	1.98		11.7
	Endrin	92.6	87.7	73.9	73.1	5.47		1.04
	Endrin Aldehyde	60.1	65.7	44.7	45.8	8.83		2.55
	Endrin Ketone	92.9	86.7	83.3	81.3	6.93		2.37
	EPTC	65.1	57.1	52.3	53.7	12.9		2.69
	Esfenvalerate	84.6	80.2	77.9	70.6	5.27		9.75
	Ethalfluralin	76.4	71.8	64.8	61.5	6.31		5.18
	Ethion	85.3	80.9	68.8	85.4	5.24		21.5
	Ethoprop	96.8	92.1	94.9	93.4	4.93		1.60
	Fenamiphos	112	109	111	114	3.14		2.18
	Fenbuconazole	118	102	108	105	14.3		3.17
	Fenpropathrin	98.5	92.7	136	169	6.09		21.5
	Fipronil	98.6	92.4	99.0	103	6.48		3.90
	Fipronil Desulfinyl	98.0	88.9	92.0	92.8	9.77		0.849

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Fipronil Sulfide	92.8	94.4	87.3	91.4	1.68		4.60
	Fipronil Sulfone	90.4	85.1	91.8	102	6.10		10.4
	Fluazifop-P-butyl	100	84.9	95.9	108	16.3		12.2
	Fludioxonil	97.4	92.5	95.5	104	5.23		8.55
	Flumioxazin	210	191	210	191	9.53		9.35
	Flutolanil	99.3	93.5	98.7	114	6.06		12.6
	Fluxapyroxad	98.5	87.4	90.0	134	11.9		37.1
	Fonofos	99.5	88.3	90.4	88.9	11.9		1.72
	Gamma-BHC	96.3	99.0	117	127	2.86		8.19
	Gamma-Chlordane	82.5	72.8	64.7	61.4	12.4		5.22
	Heptachlor	66.8	57.3	53.1	48.1	15.3		9.89
	Heptachlor Epoxide	87.2	80.1	72.6	72.3	8.55		0.457
	Hexachlorobenzene	66.1	57.7	46.9	46.0	13.6		1.77
	Hexazinone	105	98.7	106	108	5.85		1.34
	Imazalil	123	116	87.1	71.5	6.18		19.6
	Iprodione	104	96.7	97.0	131	7.15		29.6
	Kepone	44.0	60.8	75.2	89.6	32.0		17.4
	Lambda-Cyhalothrin	89.9	80.1	83.4	72.5	11.5		14.0
	Malathion	117	103	114	134	11.9		15.8
	Metalaxyl	106	99.6	98.6	103	6.27		4.41
	Methoxychlor	87.1	83.5	75.1	76.8	4.13		2.23
	Metolachlor	103	100	89.0	99.5	2.60		9.40
	Metribuzin	100	105	105	104	4.28		0.650
	Mevinphos	83.3	81.0	85.2	87.5	2.85		2.74
	MGK-264	64.5	60.4	64.4	56.6	6.57		12.8
	Mirex	70.8	57.0	56.5	52.6	21.6		7.12
	Molinate	81.0	71.7	73.9	70.8	12.1		4.26
	Myclobutanil	98.4	94.1	96.3	115	4.46		17.8
	Naled	49.3	44.8	44.5	48.3	9.67		8.12
	Norflurazon	102	88.1	91.3	119	14.6		26.4
	Oxadiazon	94.5	87.2	92.0	115	8.06		22.0
	Oxyfluorfen	108	100	118	147	7.87		21.5
	Parathion Ethyl	104	93.1	97.0	95.1	11.3		1.97
	Parathion Methyl	112	98.2	106	94.1	13.2		11.5
	Pendimethalin	87.7	79.7	97.3	93.9	9.53		3.50
	Permethrin	82.3	71.3	68.9	65.7	14.3		4.81
	Phenothrin	57.7	45.9	56.6	52.2	22.9		8.06
	Phorate	99.0	97.0	106	97.7	2.08		7.87
	Piperonyl Butoxide	96.7	93.4	96.0	96.6	3.41		0.583
	Prallethrin	61.6	58.7	65.7	63.2	4.86		3.87
	Prodiamine	110	107	127	90.1	2.47		34.2
	Prometon	104	96.8	107	106	6.79		0.998
	Prometryn	102	96.9	100	98.2	4.90		2.28
	Pronamide	105	95.8	98.6	101	9.43		2.17
	Propiconazole	102	90.7	89.2	121	11.7		29.9
	Pyriproxyfen	166	173	183	207	4.18		12.5
	Simazine	115	102	95.5	80.1	12.0		17.6
	Sulfentrazone	98.1	118	109	117	18.3		7.33
	Tau-Fluvalinate	110	97.1	98.7	98.4	12.7		0.344
	Tebuconazole	63.2	54.2	58.9	68.2	15.4		13.5
	Terbufos	90.5	85.6	94.2	92.2	5.57		2.10
	Terbuthylazine	105	99.4	104	98.1	5.69		6.19
	Tetramethrin	86.7	83.3	88.0	93.4	4.05		5.94
	Trans-Nonachlor	82.8	73.1	65.0	62.0	12.4		4.82

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision		
						LCS	SMP	MS
EPA 8270E	Triclosan Methyl	97.4	91.3	77.0	79.1	6.54		2.79
	Trifluralin	78.5	71.1	61.6	61.2	9.84		0.740
EPA 8276	Chlordane	93.9	105	102	103	11.2		1.35
	Toxaphene	101	97.5	131	133	3.48		1.75
EPA 8321B	2,4-D	118		93.1	92.3			0.714
	3-Hydroxycarbofuran	101		92.5	73.1			23.3
	Acesulfame K	98.5		64.1	65.5			2.16
	Acetaminophen	74.6		75.3	85.8			7.39
	Acetamiprid	92.6		77.2	78.5			1.72
	Afidopyropen	80.5		64.3	64.8			0.897
	Aldicarb	66.1		58.5	46.1			23.7
	Aldicarb Sulfone	83.1		91.1	83.8			8.28
	Aldicarb Sulfoxide	65.7		54.7	30.2			57.6
	AMPA	79.9		91.4	87.4			4.07
	Bentazon	87.0						3.71
	Benzovindiflupyr	78.4		64.3	62.2			3.33
	Carbamazepine	77.8		51.6	49.0			5.20
	Carbaryl	75.8		50.4	45.0			11.2
	Carbofuran	78.5		60.0	51.0			16.2
	Clothianidin	98.7		88.5	79.5			10.7
	Dinotefuran	87.3		94.4	85.3			10.1
	Diuron	61.2		42.6	39.3			7.45
	Endothall	91.5		108	120			10.3
	Fenuron	92.7		60.0	63.4			5.56
	Fluridone	83.1		61.1	48.8			18.9
	Glufosinate	98.9		93.9	97.8			4.09
	Glyphosate	85.5		96.9	108			10.8
	Hydrocodone	106		95.9	91.1			5.14
	Ibuprofen	93.2		64.1	71.1			10.3
	Imazapyr	93.5						11.4
	Imidacloprid	109		111	114			2.92
	Linuron	73.5		52.4	50.3			4.07
	Mandestrobin	88.7		69.4	65.0			6.57
	MCPP	110		78.3	78.8			0.582
	Methiocarb	88.4		59.7	58.9			1.43
	Methomyl	90.6		72.9	70.7			3.09
	Naproxen	62.6		66.1	79.6			18.6
	Oxamyl	103		85.5	81.9			4.19
	Primidone	112		99.4	74.8			28.2
	Propoxur	81.1		52.4	49.5			5.71
	Pyraclostrobin	85.1		72.2	72.4			0.305
	Sucralose	97.9		101	106			4.54
	Thiamethoxam	106		93.4	104			11.1
	Tolfenpyrad	53.2		52.7	52.4			0.595
	Triclopyr	90.8		72.2	79.9			10.1

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Dieldrin (ultra low level) in water matrices by GC/MS/MS	2217422
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS-SIM	2217422
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2217423

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2217422
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2217418
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2217419, 2217420, 2217421
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2217419, 2217420, 2217421

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	01/07/2021	01/11/2021 08:00	Fe-Val Siddell	01/12/2021 20:29	Julie Wi	2217422
	01/07/2021	01/11/2021 08:00	Fe-Val Siddell	01/13/2021 16:37	Michael Poppell	2217422
	01/07/2021	01/11/2021 08:00	Fe-Val Siddell	01/13/2021 19:44	Julie Wi	2217422
	01/07/2021	01/11/2021 08:00	Fe-Val Siddell	01/15/2021 17:10	Michael Poppell	2217422
	01/07/2021	01/11/2021 08:30	Rasheda Ghaffari	01/13/2021 14:52	Vandana T. Nagar	2217423
	01/07/2021	01/11/2021 08:30	Rasheda Ghaffari	01/14/2021 18:37	Vandana T. Nagar	2217423
EPA 8276	01/07/2021	01/11/2021 08:00	Fe-Val Siddell	01/14/2021 01:53	Michael Poppell	2217422
EPA 8321B	01/07/2021	01/08/2021 11:30	Rebecca Ware	01/08/2021 17:46	Rebecca Ware	2217419
	01/07/2021	01/08/2021 11:30	Rebecca Ware	01/08/2021 18:00	Rebecca Ware	2217420
	01/07/2021	01/08/2021 11:30	Rebecca Ware	01/08/2021 18:14	Rebecca Ware	2217421
	01/07/2021	01/08/2021 11:30	Rebecca Ware	01/20/2021 19:43	Rebecca Ware	2217419
	01/07/2021	01/08/2021 11:30	Rebecca Ware	01/20/2021 19:55	Rebecca Ware	2217420
	01/07/2021	01/08/2021 11:30	Rebecca Ware	01/20/2021 20:06	Rebecca Ware	2217421
	01/07/2021	01/11/2021 09:00	Hoor Shaik	01/13/2021 02:49	Juyoung Kim	2217419
	01/07/2021	01/11/2021 09:00	Hoor Shaik	01/13/2021 03:23	Juyoung Kim	2217420
	01/07/2021	01/11/2021 09:00	Hoor Shaik	01/13/2021 04:33	Juyoung Kim	2217421
	01/07/2021	01/13/2021 09:00	Hoor Shaik	01/13/2021 15:23	Juyoung Kim	2217418