

Chemical Analysis Report

CEN-DIST-2023-01-31-01

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

Event Description: **Run 2**
Request ID: **RQ-2023-01-23-27**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 21-FEB-2023 10:57



Case Narrative

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

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Spruce Creek @ Russel Property

Collection Date/Time: 01/30/2023 10:00

Field ID: G5CE0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2383948	EPA 180.1 Rev. 2.0	Turbidity	4.1		NTU	P425230	
	SM 2320 B-2011	Total Alkalinity	184		mg CaCO3/L	P425388	
	SM 2540 D-2015	TSS	2	U	mg/L	P425434	
	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P425696	
2383949	EPA 350.1 Rev. 2.0	Ammonia-N	0.037		mg N/L	P425723	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P425242	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P425306	
	EPA 365.1 Rev. 2.0	Total-P	0.087		mg P/L	P425280	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P425353	
2383956	EPA 8321B	Aldicarb	0.020	U	ug/L	P425264	
		Aldicarb Sulfone	0.0020	U	ug/L	P425264	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P425264	MS
		Carbaryl	0.0020	U	ug/L	P425264	
		Carbofuran	0.0020	UJ	ug/L	P425264	MS
		3-Hydroxycarbofuran	0.0020	U	ug/L	P425264	
		Methiocarb	0.0020	U	ug/L	P425264	
		Methomyl	0.0020	U	ug/L	P425264	
		Oxamyl	0.0020	U	ug/L	P425264	
		Propoxur	0.0020	UJ	ug/L	P425264	MS
2383957		2,4-D	0.0046	I	ug/L	P425153	
		Acesulfame K	0.16	I	ug/L	P425069	
		2,4,5-T	0.0040	U	ug/L	P425153	
		AMPA	0.10	I	ug/L	P425069	
		Acetaminophen	0.0080	U	ug/L	P425153	
		Acetamiprid	0.0020	U	ug/L	P425153	
		Endothall	0.25	U	ug/L	P425069	
		Glufosinate	0.10	U	ug/L	P425069	
		Glyphosate	0.10	U	ug/L	P425069	
		Afidopyropen	0.0020	U	ug/L	P425153	
		Bentazon	0.63		ug/L	P425153	
		Sucralose	0.85		ug/L	P425069	
		Benzovindiflupyr	0.0020	U	ug/L	P425153	
		Carbamazepine	9.0E-04	I	ug/L	P425153	
		Clothianidin	0.0072	I	ug/L	P425153	
		Dinotefuran	0.0036	I	ug/L	P425153	
		Diuron	0.0020	U	ug/L	P425153	
		Fenuron	0.032	U	ug/L	P425153	
		Fluridone	0.010		ug/L	P425153	
		Imazapyr	0.089		ug/L	P425153	
		Hydrocodone	0.0020	U	ug/L	P425153	
		Ibuprofen	0.080	U	ug/L	P425153	
		Imidacloprid	0.012		ug/L	P425153	
		Linuron	0.0040	U	ug/L	P425153	
		Mandestrobin	0.0020	U	ug/L	P425153	

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Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2383957	EPA 8321B	MCP	0.0020	U	ug/L	P425153	
		Naproxen	0.0080	U	ug/L	P425153	
		Primidone	0.0044	I	ug/L	P425153	
		Pyraclorobin	0.0020	U	ug/L	P425153	
		Silvex	0.0040	U	ug/L	P425153	
		Thiamethoxam	0.0020	U	ug/L	P425153	
		Tolfenpyrad	0.0020	U	ug/L	P425153	
		Triclopyr	0.0040	U	ug/L	P425153	
2383965	EPA 8270E	Aldrin	0.68	U	ng/L	P425297	
		Alpha-BHC	0.11	U	ng/L	P425297	
		Alpha-Chlordane	0.21	U	ng/L	P425297	
		PCB-1016	2.1	U	ng/L	P425297	
		Beta-BHC	0.11	U	ng/L	P425297	
		PCB-1221	2.1	U	ng/L	P425297	
		Beta-Cyfluthrin	1.3	U	ng/L	P425297	
		PCB-1232	2.1	U	ng/L	P425297	
		Bifenthrin	0.53	U	ng/L	P425297	
		PCB-1242	2.1	U	ng/L	P425297	
		PCB-1248	2.1	U	ng/L	P425297	
		Chlorothalonil	3.8	U	ng/L	P425297	
		PCB-1254	2.1	U	ng/L	P425297	
		Cis-Nonachlor	0.21	U	ng/L	P425297	
		PCB-1260	2.1	U	ng/L	P425297	
		Cypermethrin	1.6	U	ng/L	P425297	
		Dacthal	0.16	U	ng/L	P425297	
		DDD-p,p'	0.26	U	ng/L	P425297	
		DDE-p,p'	0.21	U	ng/L	P425297	
		DDT-p,p'	0.26	U	ng/L	P425297	
		Delta-BHC	0.42	U	ng/L	P425297	
		Deltamethrin	1.3	U	ng/L	P425297	
		Dichlobenil	0.26	U	ng/L	P425297	
		Dicofol	1.3	U	ng/L	P425297	
		Dieldrin	0.42	U	ng/L	P425297	
		Endosulfan I	0.42	U	ng/L	P425297	
		Endosulfan II	0.42	U	ng/L	P425297	
		Endosulfan Sulfate	0.32	U	ng/L	P425297	
		Endrin	0.42	U	ng/L	P425297	
		Endrin Aldehyde	0.79	U	ng/L	P425297	
		Endrin Ketone	0.42	U	ng/L	P425297	
		Esfenvalerate	0.79	U	ng/L	P425297	
		Ethalfuralin	0.16	U	ng/L	P425297	
		Fenpropathrin	0.26	U	ng/L	P425297	
		Gamma-BHC	0.13	U	ng/L	P425297	
		Gamma-Chlordane	0.21	U	ng/L	P425297	
		Heptachlor	0.21	U	ng/L	P425297	

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Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2383965	EPA 8270E	Heptachlor Epoxide	0.26	U	ng/L	P425297	
		Hexachlorobenzene**	1.1	U	ng/L	P425297	
		Kepone	5.3	U	ng/L	P425297	
		Lambda-Cyhalothrin	0.79	U	ng/L	P425297	
		Methoprene	0.79	U	ng/L	P425297	
		Methoxychlor	0.32	U	ng/L	P425297	
		MGK-264	0.21	U	ng/L	P425297	
		Mirex	0.37	U	ng/L	P425297	
		Oxychlordane	0.32	U	ng/L	P425297	
		Permethrin	1.7	U	ng/L	P425297	
		Phenothrin	0.95	U	ng/L	P425297	
		Piperonyl Butoxide	0.16	U	ng/L	P425297	
		Prallethrin	2.1	U	ng/L	P425297	
		Tau-Fluvalinate	0.26	U	ng/L	P425297	
		Tetramethrin	0.79	U	ng/L	P425297	
		Trans-Nonachlor	0.21	U	ng/L	P425297	
		Triclosan Methyl	0.16	U	ng/L	P425297	
		Trifluralin	0.21	U	ng/L	P425297	
		Chlordane	2.1	U	ng/L	P425297	
		Toxaphene	16	U	ng/L	P425297	
2383966	EPA 8270E	Oxybenzone**	9.9	U	ng/L	P425253	
		Acetochlor	0.25	U	ng/L	P425253	
		Octinoxate**	20	U	ng/L	P425253	
		Alachlor	0.25	U	ng/L	P425253	
		Avobenzone**	99	U	ng/L	P425253	
		Ametryn	1.2	I	ng/L	P425253	
		Atrazine	35		ng/L	P425253	
		PBDE-47**	4.0	U	ng/L	P425253	
		Atrazine Desethyl	11		ng/L	P425253	
		PBDE-99**	4.9	U	ng/L	P425253	
		Azinphos Methyl	2.0	U	ng/L	P425253	
		Tri-o-cresyl Phosphate**	5.9	U	ng/L	P425253	
		Azoxystrobin	0.58	I	ng/L	P425253	
		Bromacil	0.49	U	ng/L	P425253	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P425253	
		Butylate	0.40	U	ng/L	P425253	
		Dechlorane Plus**	30	U	ng/L	P425253	
		Caffeine**	7.4	U	ng/L	P425253	
		Carbophenothion	0.20	U	ng/L	P425253	
		Carfentrazone Ethyl	0.099	U	ng/L	P425253	
		Chlorfenapyr	0.17	U	ng/L	P425253	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P425253	
		Chlorpyrifos Methyl	0.049	U	ng/L	P425253	
		Coumaphos	0.49	U	ng/L	P425253	

Field ID: G5CE0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2383966	EPA 8270E	Cyanazine	3.2	U	ng/L	P425253	
		Cyprodinil	0.099	U	ng/L	P425253	
		Demeton	1.5	U	ng/L	P425253	
		Diazinon	0.12	U	ng/L	P425253	
		Difenoconazole	0.59	UJ	ng/L	P425253	RPD
		Dimethenamid	0.099	U	ng/L	P425253	
		Dimethomorph	0.17	U	ng/L	P425253	
		Disulfoton	0.49	U	ng/L	P425253	
		Dithiopyr	0.62	U	ng/L	P425253	
		EPTC	1.2	U	ng/L	P425253	
		Ethion	0.15	U	ng/L	P425253	
		Ethoprop	0.099	U	ng/L	P425253	
		Etridiazole	0.15	U	ng/L	P425253	
		Fenamiphos	0.49	U	ng/L	P425253	
		Fenbuconazole	0.12	U	ng/L	P425253	
		Fipronil	0.44	I	ng/L	P425253	
		Fipronil Desulfinyl**	0.81		ng/L	P425253	
		Fipronil Sulfide	1.8		ng/L	P425253	
		Fipronil Sulfone	3.9		ng/L	P425253	
		Fluazifop-P-butyl	0.099	U	ng/L	P425253	
		Fludioxonil	0.12	U	ng/L	P425253	
		Flumioxazin	4.4	U	ng/L	P425253	
		Flutolanil	0.24	I	ng/L	P425253	
		Fluxapyroxad	0.67		ng/L	P425253	
		Fonofos	0.20	U	ng/L	P425253	
		Hexazinone	0.49	U	ng/L	P425253	
		Imazalil	0.74	U	ng/L	P425253	
		Iprodione	0.59	U	ng/L	P425253	
		Loratadine**	0.35	U	ng/L	P425253	
		Malathion	0.35	U	ng/L	P425253	
		Metalaxyl	0.74	U	ng/L	P425253	
		Metolachlor	4.9		ng/L	P425253	
		Metribuzin	1.5	U	ng/L	P425253	
		Mevinphos	1.0	U	ng/L	P425253	
		Molinate	0.30	U	ng/L	P425253	
		Myclobutanil	0.36	I	ng/L	P425253	
		Naled	1.5	U	ng/L	P425253	
		Napropamide	0.40	U	ng/L	P425253	
		Norflurazon	0.49	U	ng/L	P425253	
		Oxadiazon	1.4		ng/L	P425253	
		Oxyfluorfen	0.15	U	ng/L	P425253	
		Parathion Ethyl	0.25	U	ng/L	P425253	
		Parathion Methyl	0.54	U	ng/L	P425253	
		Pendimethalin	0.99	U	ng/L	P425253	

Field ID: G5CE0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2383966	EPA 8270E	Phenytain**	3.5	UJ	ng/L	P425253	LCS, MS, RPD
		Phorate	0.52	U	ng/L	P425253	
		Prodiamine	0.17	U	ng/L	P425253	
		Prometon	0.89	U	ng/L	P425253	
		Prometryn	0.20	U	ng/L	P425253	
		Pronamide	0.47	I	ng/L	P425253	
		Propanil	0.12	U	ng/L	P425253	
		Propargite	1.5	UJ	ng/L	P425253	RPD
		Propiconazole	0.84	I	ng/L	P425253	
		Pyraflufen Ethyl	0.25	U	ng/L	P425253	
		Pyridaben	0.44	U	ng/L	P425253	
		Pyriproxyfen	0.12	U	ng/L	P425253	
		Simazine	13		ng/L	P425253	
		Stiophos	0.12	U	ng/L	P425253	
		Sulfentrazone	65		ng/L	P425253	
		Tebuconazole	0.49	U	ng/L	P425253	
		Terbufos	0.099	U	ng/L	P425253	
		Terbuthylazine	0.42	U	ng/L	P425253	
		Thiobencarb	0.59	U	ng/L	P425253	
		Triadimefon	0.25	UJ	ng/L	P425253	RPD
2383970	EPA 200.7 Rev. 4.4	Calcium	76.5		mg/L	P425338	
		Chromium	1.0	U	ug/L	P425338	
		Iron	1.13E+03		ug/L	P425338	
		Magnesium	12.9		mg/L	P425338	
		Strontium	412		ug/L	P425338	
		Tin	3.0	U	ug/L	P425338	
		Titanium	1.2	I	ug/L	P425338	
		Vanadium	2.0	U	ug/L	P425338	
		Zinc	5.0	U	ug/L	P425338	
		Aluminum	74		ug/L	P425338	
	EPA 200.8 Rev. 5.4	Antimony	0.050	U	ug/L	P425338	
		Arsenic	0.47		ug/L	P425338	
		Beryllium	0.013	I	ug/L	P425338	
		Cadmium	0.020	U	ug/L	P425338	
		Cobalt	0.090		ug/L	P425338	
		Copper	0.84		ug/L	P425338	
		Lead	0.20	U	ug/L	P425338	
		Manganese	15.8		ug/L	P425338	
		Molybdenum	1.02		ug/L	P425338	
		Nickel	0.50	U	ug/L	P425338	
		Selenium	0.20	U	ug/L	P425338	
		Silver	0.010	U	ug/L	P425338	
		Thallium	0.10	U	ug/L	P425338	

Field ID: G5CE0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
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: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425230

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P425338

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Chromium	1.0	U	ug/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P425338

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Beryllium	0.010	U	ug/L
Cadmium	0.020	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425723

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425242

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425306

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P425280

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

Reference Method: EPA 8270E

Batch ID: P425253

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425253

Component	Result	Code	Units
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425253

Component	Result	Code	Units
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
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
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425253

Component	Result	Code	Units
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
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: P425297

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	3.6	U	ng/L
Chlorothalonil	3.6	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425297

Component	Result	Code	Units
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425297

Component	Result	Code	Units
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
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: P425297

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: P425069

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P425069

Component	Result	Code	Units
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: P425153

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	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: P425264

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P425388

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

Reference Method: SM 2540 D-2015
Batch ID: P425434

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P425696

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P425353

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P425230

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

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P425338

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Chromium	101		P	85 - 115
Iron	104		P	85 - 115
Magnesium	99.9		P	85 - 115
Strontium	101		P	85 - 115
Tin	101		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P425338

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	96.0		P	85 - 115
Arsenic	101		P	85 - 115
Beryllium	99.5		P	85 - 115
Cadmium	99.2		P	85 - 115
Cobalt	97.3		P	85 - 115
Copper	101		P	85 - 115
Lead	93.0		P	85 - 115
Manganese	99.4		P	85 - 115
Molybdenum	95.1		P	85 - 115
Nickel	102		P	85 - 115
Selenium	100		P	85 - 115
Silver	97.1		P	85 - 115
Thallium	95.5		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P425723

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P425242

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P425306

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P425280

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	109		P	90 - 110

Reference Method: EPA 8270E

Batch ID: P425253

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	90.8		P	42 - 162
Acetochlor	90.3		P	69 - 123
Alachlor	85.6		P	65 - 118
Ametryn	88.6		P	58 - 141
Atrazine	85.9		P	73 - 118
Atrazine Desethyl	77.6		P	32 - 125
Avobenzone	103		P	40 - 203
Azinphos Methyl	103		P	36 - 197
Azoxystrobin	112		P	58 - 226
Bromacil	75.7		P	48 - 120
Butylate	60.7		P	27 - 85.0
Caffeine	79.7		P	40 - 137
Carbophenothion	88.4		P	54 - 132
Carfentrazone Ethyl	105		P	60 - 142
Chlorfenapyr	84.1		P	53 - 117
Chlorpyrifos Ethyl	90.0		P	59 - 116
Chlorpyrifos Methyl	89.4		P	66 - 119
Coumaphos	64.5		P	11 - 234
Cyanazine	215		P	61 - 248
Cyprodinil	102		P	50 - 147
Dechlorane Plus	95.8		P	47 - 182
Demeton	83.0		P	30 - 138
Diazinon	99.6		P	67 - 126
Difenoconazole	60.2		P	38 - 205
Dimethenamid	71.7		P	57 - 111
Dimethomorph	125		P	16 - 212
Disulfoton	94.8		P	46 - 126
Dithiopyr	90.7		P	62 - 115
EPTC	59.8		P	28 - 80.0
Ethion	24.9		P	24 - 122
Ethoprop	92.4		P	62 - 113
Etridiazole	61.8		P	28 - 92.0
Fenamiphos	80.8		P	57 - 128
Fenbuconazole	81.4		P	52 - 155
Fipronil	117		P	63 - 130
Fipronil Desulfinyl	98.1		P	61 - 130
Fipronil Sulfide	96.6		P	56 - 117
Fipronil Sulfone	99.4		P	52 - 118
Fluazifop-P-butyl	86.1		P	61 - 128
Fludioxonil	86.9		P	59 - 129
Flumioxazin	61.0		P	30 - 250
Flutolanil	79.8		P	53 - 127
Fluxapyroxad	45.7		P	42 - 132
Fonofos	95.0		P	61 - 110
Hexazinone	77.6		P	46 - 139
Imazalil	79.2		P	40 - 139

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P425253

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iprodione	75.1		P	40 - 146
Loratadine	141		P	10 - 224
Malathion	84.8		P	61 - 135
Metalaxyl	92.6		P	58 - 121
Metolachlor	92.3		P	64 - 118
Metribuzin	96.1		P	45 - 245
Mevinphos	85.0		P	49 - 118
Molinate	67.2		P	42 - 92.0
Myclobutanil	83.6		P	55 - 127
Naled	81.7		P	10 - 114
Napropamide	49.1		P	39 - 121
Norflurazon	63.9		P	55 - 129
Octinoxate	89.2		P	26 - 166
Oxadiazon	85.7		P	54 - 115
Oxybenzone	85.2		P	49 - 135
Oxyfluorfen	90.5		P	64 - 139
Parathion Ethyl	88.0		P	70 - 111
Parathion Methyl	112		P	76 - 136
PBDE-47	76.6		P	41 - 148
PBDE-99	67.4		P	38 - 147
Pendimethalin	111		P	52 - 118
Phenytoin	2.63		F	10 - 162
Phorate	83.5		P	40 - 122
Prodiamine	45.7		P	26 - 141
Prometon	65.5		P	54 - 122
Prometryn	98.2		P	61 - 128
Pronamide	90.9		P	72 - 121
Propanil	77.6		P	45 - 144
Propargite	29.5		P	10 - 199
Propiconazole	88.2		P	56 - 127
Pyraflufen Ethyl	78.4		P	56 - 140
Pyridaben	68.8		P	26 - 211
Pyriproxyfen	37.0		P	33 - 194
Simazine	106		P	67 - 121
Stirophos	40.2		P	20 - 142
Sulfentrazone	87.3		P	21 - 144
Tebuconazole	21.3		P	10 - 122
Terbufos	118		P	60 - 129
Terbuthylazine	86.6		P	69 - 113
Thiobencarb	71.5		P	51 - 120
Tri-o-cresyl Phosphate	89.4		P	49 - 150
Triadimefon	79.7		P	56 - 114

Reference Method: EPA 8270E
 Batch ID: P425297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	41.4		P	10 - 92.0
Alpha-BHC	75.0		P	75 - 107
Alpha-Chlordane	61.9		P	50 - 108
Beta-BHC	80.4		P	36 - 138
Beta-Cyfluthrin	50.8		P	20 - 161

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P425297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bifenthrin	28.4		P	10 - 119
Chlorothalonil	79.8		P	26 - 186
Cis-Nonachlor	53.1		P	42 - 119
Cypermethrin	46.0		P	22 - 150
Dacthal	74.5		P	72 - 119
DDD-p,p'	64.1		P	45 - 107
DDE-p,p'	60.4		P	48 - 106
DDT-p,p'	55.3		P	48 - 110
Delta-BHC	83.9		P	54 - 140
Deltamethrin	65.5		P	22 - 189
Dichlobenil	71.4		P	36 - 117
Dicofol	64.5		P	46 - 155
Dieldrin	63.6		P	54 - 110
Endosulfan I	61.1		P	59 - 105
Endosulfan II	63.2		P	51 - 118
Endosulfan Sulfate	85.4		P	57 - 121
Endrin	66.8		P	10 - 120
Endrin Aldehyde	64.6		P	34 - 118
Endrin Ketone	72.8		P	69 - 177
Esfenvalerate	53.8		P	23 - 168
Ethalfuralin	54.7		P	49 - 99.0
Fenpropathrin	42.1		P	34 - 117
Gamma-BHC	76.0		P	72 - 117
Gamma-Chlordane	53.5		P	43 - 106
Heptachlor	58.5		P	41 - 98.0
Heptachlor Epoxide	59.5		P	57 - 106
Hexachlorobenzene	58.3		P	36 - 99.0
Kepone	170		P	16 - 215
Lambda-Cyhalothrin	41.5		P	21 - 177
Methoprene	38.1		P	10 - 119
Methoxychlor	66.8		P	60 - 112
MGK-264	68.8		P	26 - 122
Mirex	41.7		P	10 - 169
Oxychlordane	53.1		P	43 - 105
PCB-1016	83.4		P	48 - 112
PCB-1260	81.7		P	44 - 118
Permethrin	49.3		P	24 - 148
Phenothrin	17.4		P	10 - 106
Piperonyl Butoxide	78.8		P	10 - 139
Prallethrin	68.9		P	17 - 109
Tau-Fluvalinate	43.1		P	13 - 131
Tetramethrin	69.0		P	10 - 132
Trans-Nonachlor	54.9		P	44 - 106
Triclosan Methyl	64.0		P	59 - 109
Trifluralin	53.9		P	44 - 101

Reference Method: EPA 8276

Batch ID: P425297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	90.6		P	61 - 116
Toxaphene	109		P	48 - 124

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P425069

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	110		P	40 - 150
Endothall	115		P	40 - 150
Glufosinate	114		P	40 - 150
Glyphosate	104		P	40 - 150
Sucralose	103		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P425153

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	80.1		P	40 - 150
2,4,5-T	67.5		P	40 - 150
Acetaminophen	79.0		P	30 - 150
Acetamiprid	89.9		P	40 - 150
Afidopyropen	73.9		P	30 - 150
Bentazon	99.2		P	30 - 150
Benzovindiflupyr	67.8		P	40 - 150
Carbamazepine	69.2		P	40 - 150
Clothianidin	89.1		P	40 - 150
Dinotefuran	98.4		P	40 - 150
Diuron	69.4		P	40 - 150
Fenuron	89.4		P	40 - 150
Fluridone	79.3		P	40 - 150
Hydrocodone	76.2		P	40 - 150
Ibuprofen	94.0		P	40 - 150
Imazapyr	82.9		P	40 - 150
Imidacloprid	126		P	40 - 150
Linuron	82.9		P	40 - 150
Mandestrobin	79.7		P	40 - 150
MCPP	95.1		P	40 - 150
Naproxen	62.1		P	40 - 150
Primidone	79.8		P	40 - 150
Pyraclostrobin	67.8		P	40 - 150
Silvex	63.8		P	40 - 150
Thiamethoxam	80.5		P	40 - 150
Tolfenpyrad	35.7		P	30 - 150
Triclopyr	66.5		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P425264

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	76.3		P	40 - 150
Aldicarb	70.6		P	30 - 150
Aldicarb Sulfone	79.5		P	40 - 150
Aldicarb Sulfoxide	98.5		P	40 - 150
Carbaryl	78.2		P	40 - 150
Carbofuran	69.1		P	40 - 150
Methiocarb	75.5		P	40 - 150
Methomyl	78.8		P	40 - 150
Oxamyl	76.0		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P425264

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propoxur	71.2		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P425388

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.2		P	94 - 106

Reference Method: SM 2540 D-2015
Batch ID: P425434

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	91.1		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P425696

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.1		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P425353

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P425338

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384376	Calcium	98.5		P	80 - 120
2384376	Chromium	99.8		P	80 - 120
2384376	Iron	101		P	80 - 120
2384376	Magnesium	100		P	80 - 120
2384376	Strontium	98.6		P	80 - 120
2384376	Tin	99.4		P	80 - 120
2384376	Titanium	98.6		P	80 - 120
2384376	Vanadium	101		P	80 - 120
2384376	Zinc	102		P	80 - 120
2384636	Calcium	101		P	80 - 120
2384636	Chromium	99.5	102	P/P	80 - 120
2384636	Iron	104	107	P/P	80 - 120
2384636	Magnesium	99.8		P	80 - 120
2384636	Strontium	101	101	P/P	80 - 120
2384636	Tin	100	103	P/P	80 - 120
2384636	Titanium	98.6	102	P/P	80 - 120
2384636	Vanadium	101	104	P/P	80 - 120
2384636	Zinc	101	104	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P425338

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384636	Aluminum	100	100	P/P	80 - 120
2384636	Antimony	97.5	98.0	P/P	80 - 120
2384636	Arsenic	101	101	P/P	80 - 120
2384636	Beryllium	98.3	97.9	P/P	80 - 120
2384636	Cadmium	101	102	P/P	80 - 120
2384636	Cobalt	96.6	97.8	P/P	80 - 120
2384636	Copper	98.1	99.8	P/P	80 - 120
2384636	Lead	92.8	94.1	P/P	80 - 120
2384636	Manganese	99.3	105	P/P	80 - 120
2384636	Molybdenum	95.0	96.9	P/P	80 - 120
2384636	Nickel	100	101	P/P	80 - 120
2384636	Selenium	97.5	97.0	P/P	80 - 120
2384636	Silver	97.1	97.4	P/P	80 - 120
2384636	Thallium	97.2	98.3	P/P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P425723

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383888	Ammonia-N	99.8	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P425242

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383444	Kjeldahl Nitrogen	110	109	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P425306

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383912	NO2NO3-N	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P425280

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384071	Total-P	103	109	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P425253

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383966	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.0	102	P/P	26 - 165
2383966	Acetochlor	88.8	98.5	P/P	67 - 124
2383966	Alachlor	77.3	87.7	P/P	60 - 120
2383966	Ametryn	99.1	101	P/P	54 - 216
2383966	Atrazine Desethyl	60.5	69.6	P/P	15 - 122
2383966	Avobenzone	103	120	P/P	37 - 178
2383966	Azinphos Methyl	105	112	P/P	40 - 292
2383966	Azoxystrobin	101	116	P/P	35 - 220
2383966	Bromacil	74.6	83.0	P/P	45 - 127
2383966	Butylate	43.2	54.9	P/P	20 - 83.0
2383966	Caffeine	84.5	86.6	P/P	10 - 194
2383966	Carbophenothion	84.0	101	P/P	57 - 127
2383966	Carfentrazone Ethyl	89.2	110	P/P	51 - 141
2383966	Chlorfenapyr	71.2	82.9	P/P	46 - 111
2383966	Chlorpyrifos Ethyl	82.0	94.6	P/P	52 - 120
2383966	Chlorpyrifos Methyl	94.3	103	P/P	63 - 119
2383966	Coumaphos	70.8	87.2	P/P	10 - 228
2383966	Cyanazine	218	232	P/P	59 - 241
2383966	Cyprodinil	96.8	103	P/P	47 - 146
2383966	Dechlorane Plus	88.9	96.6	P/P	50 - 150
2383966	Demeton	84.7	97.3	P/P	40 - 136
2383966	Diazinon	95.2	110	P/P	69 - 132
2383966	Difenoconazole	86.4	132	P/P	57 - 258
2383966	Dimethenamid	70.1	80.8	P/P	54 - 110
2383966	Dimethomorph	138	178	P/P	28 - 210
2383966	Disulfoton	103	117	P/P	43 - 133
2383966	Dithiopyr	91.4	95.1	P/P	39 - 116
2383966	EPTC	56.1	55.1	P/P	20 - 78.0
2383966	Ethion	37.0	80.6	P/P	17 - 119
2383966	Ethoprop	92.0	101	P/P	66 - 120
2383966	Etridiazole	62.6	65.7	P/P	28 - 96.0
2383966	Fenamiphos	97.3	97.2	P/P	41 - 126
2383966	Fenbuconazole	83.2	101	P/P	42 - 169
2383966	Fipronil	106	126	P/P	61 - 132
2383966	Fipronil Desulfinyl	99.0	111	P/P	56 - 132
2383966	Fipronil Sulfide	79.7	110	P/P	48 - 119
2383966	Fluazifop-P-butyl	90.2	98.4	P/P	53 - 131
2383966	Fludioxonil	88.0	107	P/P	56 - 127
2383966	Flumioxazin	88.4	130	P/P	19 - 300
2383966	Flutolanil	78.4	90.6	P/P	41 - 127

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P425253

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383966	Fluxapyroxad	59.7	88.3	P/P	42 - 172
2383966	Fonofos	91.8	101	P/P	59 - 113
2383966	Hexazinone	84.3	94.1	P/P	66 - 122
2383966	Imazalil	88.9	98.4	P/P	21 - 283
2383966	Iprodione	71.3	91.6	P/P	43 - 150
2383966	Loratadine	149	173	P/P	23 - 201
2383966	Malathion	80.8	88.3	P/P	58 - 136
2383966	Metalaxyl	94.0	106	P/P	55 - 120
2383966	Metolachlor	84.7	86.4	P/P	57 - 121
2383966	Metribuzin	85.2	105	P/P	58 - 294
2383966	Mevinphos	78.9	99.2	P/P	50 - 126
2383966	Molinate	66.9	72.5	P/P	42 - 93.0
2383966	Myclobutanil	79.7	97.7	P/P	55 - 125
2383966	Naled	80.9	86.4	P/P	18 - 200
2383966	Napropamide	73.0	105	P/P	39 - 110
2383966	Norflurazon	65.4	83.8	P/P	48 - 128
2383966	Octinoxate	81.2	90.7	P/P	21 - 159
2383966	Oxadiazon	77.2	81.0	P/P	43 - 112
2383966	Oxybenzone	104	104	P/P	41 - 142
2383966	Oxyfluorfen	106	123	P/P	64 - 153
2383966	Parathion Ethyl	81.9	91.0	P/P	69 - 114
2383966	Parathion Methyl	114	120	P/P	79 - 139
2383966	PBDE-47	77.6	93.2	P/P	27 - 144
2383966	PBDE-99	74.5	89.7	P/P	18 - 150
2383966	Pendimethalin	117	127	P/P	50 - 139
2383966	Phenytoin	4.72	15.0	F/P	10 - 146
2383966	Phorate	93.6	105	P/P	54 - 161
2383966	Prodiamine	50.0	53.9	P/P	30 - 161
2383966	Prometon	76.4	108	P/P	45 - 134
2383966	Prometryn	86.9	105	P/P	45 - 137
2383966	Pronamide	82.6	102	P/P	65 - 133
2383966	Propanil	86.9	102	P/P	49 - 142
2383966	Propargite	31.8	65.0	P/P	10 - 203
2383966	Propiconazole	76.1	88.8	P/P	38 - 146
2383966	Pyraflufen Ethyl	78.8	91.2	P/P	34 - 153
2383966	Pyridaben	112	102	P/P	12 - 192
2383966	Pyriproxyfen	57.9	74.3	P/P	33 - 180
2383966	Stirophos	46.0	73.8	P/P	10 - 128
2383966	Tebuconazole	27.8	47.4	P/P	10 - 133
2383966	Terbufos	116	128	P/P	65 - 139
2383966	Terbutylazine	84.2	94.9	P/P	66 - 117
2383966	Thiobencarb	64.6	70.9	P/P	51 - 119
2383966	Tri-o-cresyl Phosphate	80.8	91.0	P/P	31 - 144
2383966	Triadimefon	72.4	108	P/P	48 - 119

Reference Method: EPA 8270E

Batch ID: P425297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384320	PCB-1016	72.4	74.5	P/P	46 - 111
2384320	PCB-1260	71.0	71.0	P/P	45 - 114
2384454	Aldrin	49.7	46.6	P/P	20 - 82.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P425297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384454	Alpha-BHC	75.2	74.2	P/P	71 - 109
2384454	Alpha-Chlordane	73.0	69.5	P/P	42 - 106
2384454	Beta-BHC	82.7	74.5	P/P	69 - 180
2384454	Beta-Cyfluthrin	80.5	76.3	P/P	18 - 175
2384454	Bifenthrin	61.1	54.7	P/P	21 - 128
2384454	Chlorothalonil	67.7	51.9	P/P	10 - 300
2384454	Cis-Nonachlor	69.6	62.4	P/P	34 - 106
2384454	Cypermethrin	73.6	66.0	P/P	22 - 158
2384454	Dacthal	83.8	78.4	P/P	54 - 116
2384454	DDD-p,p'	71.6	70.1	P/P	34 - 107
2384454	DDE-p,p'	60.9	62.1	P/P	33 - 110
2384454	DDT-p,p'	70.1	71.3	P/P	50 - 122
2384454	Delta-BHC	94.7	86.1	P/P	77 - 193
2384454	Deltamethrin	117	110	P/P	10 - 195
2384454	Dichlobenil	54.5	47.1	P/P	25 - 113
2384454	Dicofol	86.2	84.6	P/P	38 - 247
2384454	Dieldrin	64.9	67.6	P/P	45 - 118
2384454	Endosulfan I	73.5	63.5	P/P	51 - 106
2384454	Endosulfan II	69.5	63.5	P/P	37 - 122
2384454	Endosulfan Sulfate	74.0	70.3	P/P	43 - 132
2384454	Endrin	71.1	64.2	P/P	29 - 101
2384454	Endrin Aldehyde	64.5	51.4	P/P	19 - 110
2384454	Endrin Ketone	78.6	70.8	P/P	60 - 140
2384454	Esfenvalerate	100	99.0	P/P	26 - 199
2384454	Ethalfuralin	70.1	67.5	P/P	45 - 99.0
2384454	Fenpropathrin	59.4	60.1	P/P	35 - 120
2384454	Gamma-BHC	78.5	72.6	P/P	63 - 128
2384454	Gamma-Chlordane	82.7	70.8	P/P	40 - 104
2384454	Heptachlor	65.2	60.1	P/P	36 - 97.0
2384454	Heptachlor Epoxide	79.4	67.4	P/P	49 - 184
2384454	Hexachlorobenzene	64.1	60.4	P/P	39 - 96.0
2384454	Kepone	180	154	P/P	10 - 217
2384454	Lambda-Cyhalothrin	72.3	70.5	P/P	21 - 193
2384454	Methoprene	71.7	67.5	P/P	20 - 106
2384454	Methoxychlor	85.7	76.9	P/P	53 - 118
2384454	MGK-264	82.8	74.0	P/P	40 - 118
2384454	Mirex	51.7	44.5	P/P	26 - 92.0
2384454	Oxychlordane	72.1	59.8	P/P	44 - 99.0
2384454	Permethrin	62.5	62.9	P/P	33 - 182
2384454	Phenothrin	50.3	38.8	P/P	10 - 129
2384454	Piperonyl Butoxide	97.1	84.4	P/P	10 - 211
2384454	Prallethrin	93.2	92.8	P/P	24 - 113
2384454	Tau-Fluvalinate	97.9	92.9	P/P	14 - 149
2384454	Tetramethrin	79.7	79.8	P/P	17 - 151
2384454	Trans-Nonachlor	69.2	59.1	P/P	42 - 102
2384454	Triclosan Methyl	84.7	74.3	P/P	48 - 108
2384454	Trifluralin	65.8	67.1	P/P	47 - 96.0

Reference Method: EPA 8276
Batch ID: P425297

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

Reference Method: EPA 8276
Batch ID: P425297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2384320	Chlordane	80.8	85.6	P/P	53 - 126
2384320	Toxaphene	94.1	101	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P425069

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383617	Acesulfame K	99.4	98.2	P/P	40 - 150
2383617	AMPA	108	112	P/P	40 - 150
2383617	Endothall	127	128	P/P	40 - 150
2383617	Glufosinate	103	102	P/P	40 - 150
2383617	Glyphosate	105	105	P/P	40 - 150
2383617	Sucralose	97.1	99.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P425153

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383988	2,4-D	75.0	76.8	P/P	40 - 150
2383988	2,4,5-T	75.8	88.1	P/P	40 - 150
2383988	Acetaminophen	68.5	65.0	P/P	30 - 150
2383988	Acetamiprid	71.8	73.5	P/P	40 - 150
2383988	Afidopyropen	63.9	59.9	P/P	30 - 150
2383988	Bentazon	66.5	66.7	P/P	30 - 150
2383988	Benzovindiflupyr	71.4	70.1	P/P	40 - 150
2383988	Clothianidin	79.3	86.6	P/P	40 - 150
2383988	Dinotefuran	72.4	72.9	P/P	40 - 150
2383988	Diuron	56.1	54.5	P/P	40 - 150
2383988	Fenuron	60.7	67.5	P/P	40 - 150
2383988	Fluridone	64.8	70.0	P/P	40 - 150
2383988	Hydrocodone	45.7	45.7	P/P	40 - 150
2383988	Ibuprofen	74.5	83.1	P/P	40 - 150
2383988	Imazapyr	85.7	87.2	P/P	40 - 150
2383988	Linuron	82.5	78.2	P/P	40 - 150
2383988	Mandestrobin	70.0	75.2	P/P	40 - 150
2383988	MCPP	88.0	81.4	P/P	40 - 150
2383988	Naproxen	76.4	76.5	P/P	40 - 150
2383988	Pyraclostrobin	69.6	74.5	P/P	40 - 150
2383988	Silvex	62.9	73.2	P/P	40 - 150
2383988	Thiamethoxam	80.2	74.2	P/P	40 - 150
2383988	Tolfenpyrad	56.2	52.9	P/P	30 - 150
2383988	Triclopyr	66.2	79.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P425264

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383956	3-Hydroxycarbofuran	49.5	54.5	P/P	40 - 150
2383956	Aldicarb	34.4	33.8	P/P	30 - 150
2383956	Aldicarb Sulfone	79.1	77.5	P/P	40 - 150
2383956	Aldicarb Sulfoxide	34.5	32.2	F/F	40 - 150
2383956	Carbaryl	44.9	58.0	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P425264

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383956	Carbofuran	39.8	42.7	F/P	40 - 150
2383956	Methiocarb	60.9	58.8	P/P	40 - 150
2383956	Methomyl	51.2	58.5	P/P	40 - 150
2383956	Oxamyl	58.8	65.0	P/P	40 - 150
2383956	Propoxur	38.2	37.4	F/F	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P425696

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383791	Fluoride	94.0	95.2	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P425353

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383949	Organic Carbon	96.0	95.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P425230

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383883	Turbidity	16.3	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P425338

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384636	Calcium	0.426	Spike	P	0 - 20
2384636	Chromium	2.78	Spike	P	0 - 20
2384636	Iron	2.76	Spike	P	0 - 20
2384636	Magnesium	2.97	Spike	P	0 - 20
2384636	Strontium	0.119	Spike	P	0 - 20
2384636	Tin	2.28	Spike	P	0 - 20
2384636	Titanium	2.90	Spike	P	0 - 20
2384636	Vanadium	2.87	Spike	P	0 - 20
2384636	Zinc	2.57	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P425338

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384636	Aluminum	0.00313	Spike	P	0 - 20
2384636	Antimony	0.582	Spike	P	0 - 20
2384636	Arsenic	0.281	Spike	P	0 - 20
2384636	Beryllium	0.408	Spike	P	0 - 20
2384636	Cadmium	1.22	Spike	P	0 - 20
2384636	Cobalt	1.27	Spike	P	0 - 20
2384636	Copper	1.72	Spike	P	0 - 20
2384636	Lead	1.33	Spike	P	0 - 20
2384636	Manganese	3.41	Spike	P	0 - 20
2384636	Molybdenum	1.85	Spike	P	0 - 20
2384636	Nickel	1.15	Spike	P	0 - 20
2384636	Selenium	0.472	Spike	P	0 - 20
2384636	Silver	0.259	Spike	P	0 - 20
2384636	Thallium	1.16	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P425723

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383888	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P425242

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383444	Kjeldahl Nitrogen	0.457	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P425306

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383912	NO2NO3-N	0.484	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P425280

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384071	Total-P	5.29	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P425253

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383966	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	13.9	Spike	P	0 - 37
2383966	Acetochlor	10.4	Spike	P	0 - 28
2383966	Alachlor	12.6	Spike	P	0 - 30
2383966	Ametryn	1.19	Spike	P	0 - 32
2383966	Atrazine	4.30	Spike	P	0 - 41
2383966	Atrazine Desethyl	6.83	Spike	P	0 - 36
2383966	Avobenzone	15.2	Spike	P	0 - 36
2383966	Azinphos Methyl	6.69	Spike	P	0 - 75
2383966	Azoxystrobin	11.6	Spike	P	0 - 39
2383966	Bromacil	10.7	Spike	P	0 - 33
2383966	Butylate	24.0	Spike	P	0 - 44
2383966	Caffeine	2.45	Spike	P	0 - 74
2383966	Carbophenothion	18.1	Spike	P	0 - 25
2383966	Carfentrazone Ethyl	20.7	Spike	P	0 - 27
2383966	Chlorfenapyr	15.1	Spike	P	0 - 24
2383966	Chlorpyrifos Ethyl	14.3	Spike	P	0 - 26
2383966	Chlorpyrifos Methyl	9.04	Spike	P	0 - 26
2383966	Coumaphos	20.8	Spike	P	0 - 28
2383966	Cyanazine	6.35	Spike	P	0 - 48
2383966	Cyprodinil	6.21	Spike	P	0 - 29
2383966	Dechlorane Plus	8.32	Spike	P	0 - 30
2383966	Demeton	13.9	Spike	P	0 - 33
2383966	Diazinon	14.5	Spike	P	0 - 29
2383966	Difenoconazole	42.0	Spike	F	0 - 34
2383966	Dimethenamid	14.2	Spike	P	0 - 39
2383966	Dimethomorph	25.1	Spike	P	0 - 51
2383966	Disulfoton	12.9	Spike	P	0 - 30
2383966	Dithiopyr	3.92	Spike	P	0 - 26
2383966	EPTC	1.79	Spike	P	0 - 43
2383966	Ethion	74.1	Spike	P	0 - 79
2383966	Ethoprop	9.78	Spike	P	0 - 29
2383966	Etridiazole	4.87	Spike	P	0 - 33
2383966	Fenamiphos	0.0752	Spike	P	0 - 40
2383966	Fenbuconazole	19.1	Spike	P	0 - 74
2383966	Fipronil	15.7	Spike	P	0 - 29
2383966	Fipronil Desulfinyl	9.52	Spike	P	0 - 32
2383966	Fipronil Sulfide	16.4	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P425253

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383966	Fipronil Sulfone	1.08	Spike	P	0 - 33
2383966	Fluazifop-P-butyl	8.72	Spike	P	0 - 38
2383966	Fludioxonil	19.2	Spike	P	0 - 29
2383966	Flumioxazin	38.4	Spike	P	0 - 51
2383966	Flutolanil	13.4	Spike	P	0 - 25
2383966	Fluxapyroxad	31.5	Spike	P	0 - 45
2383966	Fonofos	9.72	Spike	P	0 - 27
2383966	Hexazinone	11.0	Spike	P	0 - 30
2383966	Imazalil	10.2	Spike	P	0 - 100
2383966	Iprodione	24.8	Spike	P	0 - 33
2383966	Loratadine	15.2	Spike	P	0 - 56
2383966	Malathion	8.88	Spike	P	0 - 37
2383966	Metalaxyl	11.9	Spike	P	0 - 40
2383966	Metolachlor	1.32	Spike	P	0 - 29
2383966	Metribuzin	21.1	Spike	P	0 - 45
2383966	Mevinphos	22.7	Spike	P	0 - 29
2383966	Molinate	7.95	Spike	P	0 - 33
2383966	Myclobutanil	18.4	Spike	P	0 - 26
2383966	Naled	6.62	Spike	P	0 - 37
2383966	Napropamide	36.3	Spike	P	0 - 44
2383966	Norflurazon	24.6	Spike	P	0 - 30
2383966	Octinoxate	11.0	Spike	P	0 - 45
2383966	Oxadiazon	3.29	Spike	P	0 - 28
2383966	Oxybenzone	0.478	Spike	P	0 - 46
2383966	Oxyfluorfen	15.1	Spike	P	0 - 28
2383966	Parathion Ethyl	10.6	Spike	P	0 - 31
2383966	Parathion Methyl	5.06	Spike	P	0 - 29
2383966	PBDE-47	18.2	Spike	P	0 - 36
2383966	PBDE-99	18.5	Spike	P	0 - 40
2383966	Pendimethalin	8.41	Spike	P	0 - 33
2383966	Phenytoin	104	Spike	F	0 - 100
2383966	Phorate	11.6	Spike	P	0 - 36
2383966	Prodiamine	7.41	Spike	P	0 - 71
2383966	Prometon	34.8	Spike	P	0 - 36
2383966	Prometryn	18.6	Spike	P	0 - 28
2383966	Pronamide	16.4	Spike	P	0 - 24
2383966	Propanil	16.1	Spike	P	0 - 28
2383966	Propargite	68.6	Spike	F	0 - 43
2383966	Propiconazole	12.2	Spike	P	0 - 33
2383966	Pyraflufen Ethyl	14.6	Spike	P	0 - 29
2383966	Pyridaben	9.33	Spike	P	0 - 30
2383966	Pyriproxyfen	24.8	Spike	P	0 - 79
2383966	Simazine	8.13	Spike	P	0 - 29
2383966	Stirophos	46.5	Spike	P	0 - 61
2383966	Sulfentrazone	6.70	Spike	P	0 - 33
2383966	Tebuconazole	52.2	Spike	P	0 - 69
2383966	Terbufos	10.2	Spike	P	0 - 29
2383966	Terbuthylazine	12.0	Spike	P	0 - 32
2383966	Thiobencarb	9.26	Spike	P	0 - 26
2383966	Tri-o-cresyl Phosphate	11.8	Spike	P	0 - 33
2383966	Triadimefon	39.8	Spike	F	0 - 28

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P425297

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384320	PCB-1016	2.82	Spike	P	0 - 32
2384320	PCB-1260	0.113	Spike	P	0 - 31
2384454	Aldrin	6.58	Spike	P	0 - 41
2384454	Alpha-BHC	1.35	Spike	P	0 - 25
2384454	Alpha-Chlordane	4.88	Spike	P	0 - 33
2384454	Beta-BHC	10.4	Spike	P	0 - 36
2384454	Beta-Cyfluthrin	5.38	Spike	P	0 - 42
2384454	Bifenthrin	11.1	Spike	P	0 - 53
2384454	Chlorothalonil	26.5	Spike	P	0 - 71
2384454	Cis-Nonachlor	10.9	Spike	P	0 - 29
2384454	Cypermethrin	10.9	Spike	P	0 - 40
2384454	Dacthal	6.65	Spike	P	0 - 26
2384454	DDD-p,p'	2.17	Spike	P	0 - 39
2384454	DDE-p,p'	2.05	Spike	P	0 - 33
2384454	DDT-p,p'	1.67	Spike	P	0 - 40
2384454	Delta-BHC	9.48	Spike	P	0 - 37
2384454	Deltamethrin	5.71	Spike	P	0 - 100
2384454	Dichlobenil	14.5	Spike	P	0 - 40
2384454	Dicofol	1.90	Spike	P	0 - 31
2384454	Dieldrin	3.98	Spike	P	0 - 27
2384454	Endosulfan I	14.5	Spike	P	0 - 23
2384454	Endosulfan II	9.09	Spike	P	0 - 28
2384454	Endosulfan Sulfate	5.05	Spike	P	0 - 38
2384454	Endrin	10.2	Spike	P	0 - 63
2384454	Endrin Aldehyde	22.8	Spike	P	0 - 60
2384454	Endrin Ketone	10.5	Spike	P	0 - 37
2384454	Esfenvalerate	1.20	Spike	P	0 - 52
2384454	Ethalfuralin	3.77	Spike	P	0 - 23
2384454	Fenpropathrin	1.12	Spike	P	0 - 32
2384454	Gamma-BHC	7.78	Spike	P	0 - 17
2384454	Gamma-Chlordane	15.4	Spike	P	0 - 40
2384454	Heptachlor	8.13	Spike	P	0 - 29
2384454	Heptachlor Epoxide	16.4	Spike	P	0 - 25
2384454	Hexachlorobenzene	5.97	Spike	P	0 - 36
2384454	Kepone	15.8	Spike	P	0 - 93
2384454	Lambda-Cyhalothrin	2.52	Spike	P	0 - 55
2384454	Methoprene	6.05	Spike	P	0 - 53
2384454	Methoxychlor	10.8	Spike	P	0 - 29
2384454	MGK-264	11.2	Spike	P	0 - 35
2384454	Mirex	14.9	Spike	P	0 - 46
2384454	Oxychlordane	18.6	Spike	P	0 - 29
2384454	Permethrin	0.597	Spike	P	0 - 44
2384454	Phenothrin	25.7	Spike	P	0 - 56
2384454	Piperonyl Butoxide	14.0	Spike	P	0 - 100
2384454	Prallethrin	0.429	Spike	P	0 - 42
2384454	Tau-Fluvalinate	5.17	Spike	P	0 - 54
2384454	Tetramethrin	0.151	Spike	P	0 - 51
2384454	Trans-Nonachlor	15.7	Spike	P	0 - 37
2384454	Triclosan Methyl	13.0	Spike	P	0 - 31
2384454	Trifluralin	1.88	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P425297

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2384320	Chlordane	5.70	Spike	P	0 - 25
2384320	Toxaphene	7.28	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P425069

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383617	Acesulfame K	1.16	Spike	P	0 - 30
2383617	AMPA	3.50	Spike	P	0 - 30
2383617	Endothall	1.24	Spike	P	0 - 30
2383617	Glufosinate	0.856	Spike	P	0 - 30
2383617	Glyphosate	0.137	Spike	P	0 - 30
2383617	Sucralose	2.15	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P425153

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383988	2,4-D	1.53	Spike	P	0 - 30
2383988	2,4,5-T	15.0	Spike	P	0 - 30
2383988	Acetaminophen	5.18	Spike	P	0 - 30
2383988	Acetamiprid	2.26	Spike	P	0 - 30
2383988	Afidopyropen	6.45	Spike	P	0 - 30
2383988	Bentazon	0.297	Spike	P	0 - 30
2383988	Benzovindiflupyr	1.71	Spike	P	0 - 30
2383988	Carbamazepine	9.37	Spike	P	0 - 30
2383988	Clothianidin	8.15	Spike	P	0 - 30
2383988	Dinotefuran	0.368	Spike	P	0 - 30
2383988	Diuron	2.95	Spike	P	0 - 30
2383988	Fenuron	10.6	Spike	P	0 - 30
2383988	Fluridone	7.69	Spike	P	0 - 30
2383988	Hydrocodone	0.0422	Spike	P	0 - 30
2383988	Ibuprofen	10.8	Spike	P	0 - 30
2383988	Imazapyr	1.62	Spike	P	0 - 30
2383988	Imidacloprid	3.77	Spike	P	0 - 30
2383988	Linuron	5.35	Spike	P	0 - 30
2383988	Mandestrobin	7.13	Spike	P	0 - 30
2383988	MCPP	7.81	Spike	P	0 - 30
2383988	Naproxen	0.144	Spike	P	0 - 30
2383988	Primidone	4.00	Spike	P	0 - 30
2383988	Pyraclostrobin	6.84	Spike	P	0 - 30
2383988	Silvex	15.2	Spike	P	0 - 30
2383988	Thiamethoxam	7.74	Spike	P	0 - 30
2383988	Tolfenpyrad	6.06	Spike	P	0 - 30
2383988	Triclopyr	17.8	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P425264

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383956	3-Hydroxycarbofuran	9.51	Spike	P	0 - 30
2383956	Aldicarb	1.78	Spike	P	0 - 30
2383956	Aldicarb Sulfone	2.14	Spike	P	0 - 30
2383956	Aldicarb Sulfoxide	6.96	Spike	P	0 - 30
2383956	Carbaryl	25.3	Spike	P	0 - 30
2383956	Carbofuran	7.16	Spike	P	0 - 30
2383956	Methiocarb	3.35	Spike	P	0 - 30
2383956	Methomyl	13.4	Spike	P	0 - 30
2383956	Oxamyl	10.0	Spike	P	0 - 30
2383956	Propoxur	2.27	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P425388

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383791	Total Alkalinity	0.0995	Sample	P	0 - 3.8

Reference Method: SM 4500-F- C-2011
Batch ID: P425696

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383791	Fluoride	0.978	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P425353

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383949	Organic Carbon	0.158	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2383956
Field Sample ID: G5CE0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	39.5	P	30 - 160

Lab Sample ID: 2383957
Field Sample ID: G5CE0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	108	P	30 - 160
EPA 8321B	Acetaminophen-d4	97.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	64.0	P	30 - 160
EPA 8321B	Diuron-d6	67.6	P	30 - 160
EPA 8321B	Endothall-d6	131	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	85.1	P	30 - 160
EPA 8321B	Primidone-d5	80.1	P	30 - 160
EPA 8321B	Sucralose-d6	98.4	P	30 - 160

Lab Sample ID: 2383965
Field Sample ID: G5CE0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	89.4	P	29 - 130
EPA 8270E	Decachlorobiphenyl	70.7	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	68.9	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	62.6	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	62.2	P	30 - 101
EPA 8276	PCNB	88.8	P	48 - 121

Lab Sample ID: 2383966
Field Sample ID: G5CE0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	77.7	P	20 - 200
EPA 8270E	Simazine-d10	111	P	62 - 142
EPA 8270E	Terbufos-d10	97.4	P	58 - 132
EPA 8270E	Terphenyl-d14	93.2	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117193

Included Lab Sample IDs: 2383948

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117222

Included Lab Sample IDs: 2383949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	105	106	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A117223

Included Lab Sample IDs: 2383957

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	104	100	P/P	50 - 150
2,4,5-T	105	97.2	P/P	50 - 150
Acetaminophen	104	105	P/P	60 - 160
Acetamiprid	116	120	P/P	50 - 150
Afidopyropen	102	93.3	P/P	50 - 150
Bentazon	115	104	P/P	50 - 160
Benzovindiflupyr	114	105	P/P	50 - 150
Carbamazepine	104	105	P/P	60 - 150
Clothianidin	106	91.1	P/P	60 - 150
Dinotefuran	118	121	P/P	50 - 150
Diuron	122	124	P/P	60 - 160
Fenuron	103	90.4	P/P	60 - 150
Fluridone	125	115	P/P	60 - 160
Hydrocodone	104	108	P/P	60 - 150
Ibuprofen	103	113	P/P	50 - 160
Imazapyr	100	101	P/P	50 - 150
Imidacloprid	141	124	P/P	60 - 150
Linuron	117	100	P/P	60 - 150
Mandestrobin	90.8	110	P/P	50 - 150
MCPP	109	108	P/P	50 - 150
Naproxen	82.4	89.2	P/P	50 - 160
Primidone	96.9	104	P/P	60 - 150
Pyraclostrobin	113	117	P/P	60 - 150
Silvex	123	105	P/P	50 - 150
Thiamethoxam	104	90.0	P/P	50 - 150
Tolfenpyrad	105	103	P/P	60 - 150
Triclopyr	114	121	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A117227

Included Lab Sample IDs: 2383957

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	96.3	P/P	60 - 160
Sucralose	103	102	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A117233
Included Lab Sample IDs: 2383957

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	111	111	P/P	60 - 160
Endothall	113	114	P/P	60 - 160
Glufosinate	111	119	P/P	60 - 160
Glyphosate	107	108	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A117249
Included Lab Sample IDs: 2383949

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

Reference Method: SM 5310 B-2011
Run ID: A117252
Included Lab Sample IDs: 2383949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.0	99.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A117258
Included Lab Sample IDs: 2383949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.9	96.9	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A117269
Included Lab Sample IDs: 2383948

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.2	98.4	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A117306
Included Lab Sample IDs: 2383965

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.5		P	80 - 120
PCB-1260	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117319
Included Lab Sample IDs: 2383965

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.9		P	80 - 120
Alpha-BHC	96.1		P	80 - 120
Alpha-Chlordane	93.2		P	80 - 120
Beta-BHC	95.8		P	80 - 120
Beta-Cyfluthrin	87.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117319
Included Lab Sample IDs: 2383965

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bifenthrin	97.4		P	80 - 120
Chlorothalonil	88.7		P	80 - 120
Cis-Nonachlor	92.2		P	80 - 120
Cypermethrin	86.8		P	80 - 120
Dacthal	97.3		P	80 - 120
DDD-p,p'	91.7		P	80 - 120
DDE-p,p'	99.7		P	80 - 120
DDT-p,p'	103		P	80 - 120
Delta-BHC	90.4		P	80 - 120
Deltamethrin	87.5		P	80 - 120
Dichlobenil	94.8		P	80 - 120
Dicofol	97.6		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	87.8		P	80 - 120
Endosulfan II	83.7		P	80 - 120
Endosulfan Sulfate	87.5		P	80 - 120
Endrin	95.7		P	80 - 120
Endrin Aldehyde	86.9		P	80 - 120
Endrin Ketone	94.6		P	80 - 120
Esfenvalerate	84.1		P	80 - 120
Ethalfuralin	92.9		P	80 - 120
Fenpropathrin	98.1		P	80 - 120
Gamma-BHC	96.3		P	80 - 120
Gamma-Chlordane	95.9		P	80 - 120
Heptachlor	98.0		P	80 - 120
Heptachlor Epoxide	89.4		P	80 - 120
Hexachlorobenzene	108		P	80 - 120
Kepone	80.2		P	80 - 120
Lambda-Cyhalothrin	85.4		P	80 - 120
Methoprene	91.4		P	80 - 120
Methoxychlor	98.7		P	80 - 120
MGK-264	83.0		P	80 - 120
Mirex	87.4		P	80 - 120
Oxychlordane	89.0		P	80 - 120
Permethrin	89.1		P	80 - 120
Phenothrin	85.4		P	80 - 120
Piperonyl Butoxide	87.1		P	80 - 120
Prallethrin	93.5		P	80 - 120
Tau-Fluvalinate	87.5		P	80 - 120
Tetramethrin	84.0		P	80 - 120
Trans-Nonachlor	88.9		P	80 - 120
Triclosan Methyl	98.5		P	80 - 120
Trifluralin	92.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117340
Included Lab Sample IDs: 2383966

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.4		P	80 - 120
Avobenzene	99.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117340
Included Lab Sample IDs: 2383966

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dechlorane Plus	97.2		P	80 - 120
Octinoxate	95.3		P	80 - 120
Oxybenzone	96.6		P	80 - 120
PBDE-47	98.1		P	80 - 120
PBDE-99	101		P	80 - 120
Tri-o-cresyl Phosphate	97.5		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A117342
Included Lab Sample IDs: 2383970

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.5	99.9	P/P	90 - 110
Antimony	94.5	94.9	P/P	90 - 110
Arsenic	101	100	P/P	90 - 110
Beryllium	99.5	101	P/P	90 - 110
Cadmium	97.8	98.7	P/P	90 - 110
Cobalt	96.6	95.5	P/P	90 - 110
Copper	100	99.4	P/P	90 - 110
Lead	95.9	95.8	P/P	90 - 110
Manganese	99.3	99.9	P/P	90 - 110
Molybdenum	93.6	93.4	P/P	90 - 110
Nickel	100	98.7	P/P	90 - 110
Selenium	100	99.5	P/P	90 - 110
Thallium	96.3	95.9	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A117355
Included Lab Sample IDs: 2383965

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.0		P	80 - 120
Toxaphene	99.0		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A117362
Included Lab Sample IDs: 2383970

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.5	100	P/P	90 - 110
Chromium	103	104	P/P	90 - 110
Iron	100	102	P/P	90 - 110
Magnesium	99.8	101	P/P	90 - 110
Strontium	101	103	P/P	90 - 110
Tin	102	103	P/P	90 - 110
Titanium	102	103	P/P	90 - 110
Vanadium	102	103	P/P	90 - 110
Zinc	105	107	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A117366

Included Lab Sample IDs: 2383970

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	95.0	94.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A117377

Included Lab Sample IDs: 2383956

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	100	108	P/P	60 - 150
Aldicarb	107	116	P/P	60 - 150
Aldicarb Sulfone	106	111	P/P	50 - 150
Aldicarb Sulfoxide	111	115	P/P	50 - 150
Carbaryl	126	128	P/P	60 - 150
Carbofuran	107	108	P/P	50 - 150
Methiocarb	115	123	P/P	50 - 150
Methomyl	106	106	P/P	50 - 150
Oxamyl	89.9	102	P/P	50 - 150
Propoxur	113	116	P/P	50 - 150

Reference Method: SM 4500-F- C-2011

Run ID: A117395

Included Lab Sample IDs: 2383948

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.6	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117404

Included Lab Sample IDs: 2383949

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	97.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A117477

Included Lab Sample IDs: 2383966

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	92.8		P	80 - 120
Atrazine	103		P	80 - 120
Atrazine Desethyl	109		P	80 - 120
Azinphos Methyl	89.3		P	80 - 120
Azoxystrobin	95.7		P	80 - 120
Bromacil	95.5		P	80 - 120
Butylate	104		P	80 - 120
Caffeine	90.2		P	80 - 120
Carbophenothion	91.5		P	80 - 120
Carfentrazone Ethyl	96.1		P	80 - 120
Chlorfenapyr	105		P	80 - 120
Chlorpyrifos Ethyl	96.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117477
Included Lab Sample IDs: 2383966

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorpyrifos Methyl	95.0		P	80 - 120
Coumaphos	89.0		P	80 - 120
Cyanazine	116		P	80 - 120
Cyprodinil	96.2		P	80 - 120
Demeton	99.2		P	80 - 120
Diazinon	102		P	80 - 120
Difenoconazole	83.3		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	80.2		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	99.8		P	80 - 120
Ethion	99.7		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	91.6		P	80 - 120
Fenamiphos	98.9		P	80 - 120
Fenbuconazole	90.4		P	80 - 120
Fipronil	106		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	107		P	80 - 120
Fipronil Sulfone	96.9		P	80 - 120
Fluazifop-P-butyl	106		P	80 - 120
Fludioxonil	105		P	80 - 120
Flumioxazin	80.1		P	80 - 120
Flutolanil	89.9		P	80 - 120
Fluxapyroxad	98.6		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	95.4		P	80 - 120
Iprodione	90.4		P	80 - 120
Loratadine	81.0		P	80 - 120
Malathion	97.1		P	80 - 120
Metaxyl	104		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	94.6		P	80 - 120
Molinate	100		P	80 - 120
Myclobutanil	97.0		P	80 - 120
Naled	91.0		P	80 - 120
Napropamide	106		P	80 - 120
Norflurazon	90.3		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	96.6		P	80 - 120
Parathion Ethyl	95.8		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	109		P	80 - 120
Phenytol	92.1		P	80 - 120
Phorate	107		P	80 - 120
Prodiamine	116		P	80 - 120
Prometon	99.2		P	80 - 120
Prometryn	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117477
Included Lab Sample IDs: 2383966

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pronamide	100		P	80 - 120
Propanil	95.6		P	80 - 120
Propargite	91.0		P	80 - 120
Propiconazole	105		P	80 - 120
Pyraflufen Ethyl	107		P	80 - 120
Pyridaben	86.1		P	80 - 120
Pyriproxyfen	90.6		P	80 - 120
Simazine	106		P	80 - 120
Stirophos	95.9		P	80 - 120
Sulfentrazone	94.8		P	80 - 120
Tebuconazole	94.7		P	80 - 120
Terbufos	103		P	80 - 120
Terbuthylazine	103		P	80 - 120
Thiobencarb	99.5		P	80 - 120
Triadimefon	105		P	80 - 120

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity	101					16.3	
EPA 200.7 Rev. 4.4	Calcium	103	98.5	101				0.426
	Chromium	101	99.8	99.5	102			2.78
	Iron	104	101	104	107			2.76
	Magnesium	99.9	100	99.8				2.97
	Strontium	101	98.6	101	101			0.119
	Tin	101	99.4	100	103			2.28
	Titanium	102	98.6	98.6	102			2.90
	Vanadium	102	101	101	104			2.87
	Zinc	105	102	101	104			2.57
EPA 200.8 Rev. 5.4	Aluminum	100	100	100				0.0031
	Antimony	96.0	97.5	98.0				0.582
	Arsenic	101	101	101				0.281
	Beryllium	99.5	98.3	97.9				0.408
	Cadmium	99.2	101	102				1.22
	Cobalt	97.3	96.6	97.8				1.27
	Copper	101	98.1	99.8				1.72
	Lead	93.0	92.8	94.1				1.33
	Manganese	99.4	99.3	105				3.41
	Molybdenum	95.1	95.0	96.9				1.85
	Nickel	102	100	101				1.15
	Selenium	100	97.5	97.0				0.472
	Silver	97.1	97.1	97.4				0.259
	Thallium	95.5	97.2	98.3				1.16
EPA 350.1 Rev. 2.0	Ammonia-N	98.6	99.8	99.8				0.0
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	110	109				0.457
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	103				0.484
EPA 365.1 Rev. 2.0	Total-P	109	103	109				5.29
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	90.8	89.0	102				13.9
	Acetochlor	90.3	88.8	98.5				10.4
	Alachlor	85.6	77.3	87.7				12.6
	Aldrin	41.4	49.7	46.6				6.58
	Alpha-BHC	75.0	75.2	74.2				1.35
	Alpha-Chlordane	61.9	73.0	69.5				4.88
	Ametryn	88.6	99.1	101				1.19
	Atrazine	85.9						4.30
	Atrazine Desethyl	77.6	60.5	69.6				6.83
	Avobenzone	103	103	120				15.2
	Azinphos Methyl	103	105	112				6.69
	Azoxystrobin	112	101	116				11.6
	Beta-BHC	80.4	82.7	74.5				10.4
	Beta-Cyfluthrin	50.8	80.5	76.3				5.38
	Bifenthrin	28.4	61.1	54.7				11.1
	Bromacil	75.7	74.6	83.0				10.7
	Butylate	60.7	43.2	54.9				24.0
	Caffeine	79.7	84.5	86.6				2.45
	Carbophenothion	88.4	84.0	101				18.1
	Carfentrazone Ethyl	105	89.2	110				20.7
	Chlorfenapyr	84.1	71.2	82.9				15.1
	Chlorothalonil	79.8	67.7	51.9				26.5
	Chlorpyrifos Ethyl	90.0	82.0	94.6				14.3
	Chlorpyrifos Methyl	89.4	94.3	103				9.04

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Cis-Nonachlor	53.1	69.6	62.4		10.9
	Coumaphos	64.5	70.8	87.2		20.8
	Cyanazine	215	218	232		6.35
	Cypermethrin	46.0	73.6	66.0		10.9
	Cyprodinil	102	96.8	103		6.21
	Dacthal	74.5	83.8	78.4		6.65
	DDD-p,p'	64.1	71.6	70.1		2.17
	DDE-p,p'	60.4	60.9	62.1		2.05
	DDT-p,p'	55.3	70.1	71.3		1.67
	Dechlorane Plus	95.8	88.9	96.6		8.32
	Delta-BHC	83.9	94.7	86.1		9.48
	Deltamethrin	65.5	117	110		5.71
	Demeton	83.0	84.7	97.3		13.9
	Diazinon	99.6	95.2	110		14.5
	Dichlobenil	71.4	54.5	47.1		14.5
	Dicofol	64.5	86.2	84.6		1.90
	Dieldrin	63.6	64.9	67.6		3.98
	Difenoconazole	60.2	86.4	132		42.0
	Dimethenamid	71.7	70.1	80.8		14.2
	Dimethomorph	125	138	178		25.1
	Disulfoton	94.8	103	117		12.9
	Dithiopyr	90.7	91.4	95.1		3.92
	Endosulfan I	61.1	73.5	63.5		14.5
	Endosulfan II	63.2	69.5	63.5		9.09
	Endosulfan Sulfate	85.4	74.0	70.3		5.05
	Endrin	66.8	71.1	64.2		10.2
	Endrin Aldehyde	64.6	64.5	51.4		22.8
	Endrin Ketone	72.8	78.6	70.8		10.5
	EPTC	59.8	56.1	55.1		1.79
	Esfenvalerate	53.8	100	99.0		1.20
	Ethalfuralin	54.7	70.1	67.5		3.77
	Ethion	24.9	37.0	80.6		74.1
	Ethoprop	92.4	92.0	101		9.78
	Etridiazole	61.8	62.6	65.7		4.87
	Fenamiphos	80.8	97.3	97.2		0.0752
	Fenbuconazole	81.4	83.2	101		19.1
	Fenpropathrin	42.1	59.4	60.1		1.12
	Fipronil	117	106	126		15.7
	Fipronil Desulfinyl	98.1	99.0	111		9.52
	Fipronil Sulfide	96.6	79.7	110		16.4
	Fipronil Sulfone	99.4				1.08
	Fluazifop-P-butyl	86.1	90.2	98.4		8.72
	Fludioxonil	86.9	88.0	107		19.2
	Flumioxazin	61.0	88.4	130		38.4
	Flutolanil	79.8	78.4	90.6		13.4
	Fluxapyroxad	45.7	59.7	88.3		31.5
	Fonofos	95.0	91.8	101		9.72
	Gamma-BHC	76.0	78.5	72.6		7.78
	Gamma-Chlordane	53.5	82.7	70.8		15.4
	Heptachlor	58.5	65.2	60.1		8.13
	Heptachlor Epoxide	59.5	79.4	67.4		16.4
	Hexachlorobenzene	58.3	64.1	60.4		5.97
	Hexazinone	77.6	84.3	94.1		11.0
	Imazalil	79.2	88.9	98.4		10.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Iprodione	75.1	71.3	91.6		24.8
	Kepone	170	180	154		15.8
	Lambda-Cyhalothrin	41.5	72.3	70.5		2.52
	Loratadine	141	149	173		15.2
	Malathion	84.8	80.8	88.3		8.88
	Metalaxyl	92.6	94.0	106		11.9
	Methoprene	38.1	71.7	67.5		6.05
	Methoxychlor	66.8	85.7	76.9		10.8
	Metolachlor	92.3	84.7	86.4		1.32
	Metribuzin	96.1	85.2	105		21.1
	Mevinphos	85.0	78.9	99.2		22.7
	MGK-264	68.8	82.8	74.0		11.2
	Mirex	41.7	51.7	44.5		14.9
	Molinate	67.2	66.9	72.5		7.95
	Myclobutanil	83.6	79.7	97.7		18.4
	Naled	81.7	80.9	86.4		6.62
	Napropamide	49.1	73.0	105		36.3
	Norflurazon	63.9	65.4	83.8		24.6
	Octinoxate	89.2	81.2	90.7		11.0
	Oxadiazon	85.7	77.2	81.0		3.29
	Oxybenzone	85.2	104	104		0.478
	Oxychlordane	53.1	72.1	59.8		18.6
	Oxyfluorfen	90.5	106	123		15.1
	Parathion Ethyl	88.0	81.9	91.0		10.6
	Parathion Methyl	112	114	120		5.06
	PBDE-47	76.6	77.6	93.2		18.2
	PBDE-99	67.4	74.5	89.7		18.5
	PCB-1016	83.4	72.4	74.5		2.82
	PCB-1260	81.7	71.0	71.0		0.113
	Pendimethalin	111	117	127		8.41
	Permethrin	49.3	62.5	62.9		0.597
	Phenothrin	17.4	50.3	38.8		25.7
	Phenytoin	2.63	4.72	15.0		104
	Phorate	83.5	93.6	105		11.6
	Piperonyl Butoxide	78.8	97.1	84.4		14.0
	Prallethrin	68.9	93.2	92.8		0.429
	Prodiamine	45.7	50.0	53.9		7.41
	Prometon	65.5	76.4	108		34.8
	Prometryn	98.2	86.9	105		18.6
	Pronamide	90.9	82.6	102		16.4
	Propanil	77.6	86.9	102		16.1
	Propargite	29.5	31.8	65.0		68.6
	Propiconazole	88.2	76.1	88.8		12.2
	Pyraflufen Ethyl	78.4	78.8	91.2		14.6
	Pyridaben	68.8	112	102		9.33
	Pyriproxyfen	37.0	57.9	74.3		24.8
	Simazine	106				8.13
	Stirophos	40.2	46.0	73.8		46.5
	Sulfentrazone	87.3				6.70
	Tau-Fluvalinate	43.1	97.9	92.9		5.17
	Tebuconazole	21.3	27.8	47.4		52.2
	Terbufos	118	116	128		10.2
	Terbutylazine	86.6	84.2	94.9		12.0
	Tetramethrin	69.0	79.7	79.8		0.151

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Thiobencarb	71.5	64.6	70.9			9.26
	Trans-Nonachlor	54.9	69.2	59.1			15.7
	Tri-o-cresyl Phosphate	89.4	80.8	91.0			11.8
	Triadimefon	79.7	72.4	108			39.8
	Triclosan Methyl	64.0	84.7	74.3			13.0
EPA 8276	Trifluralin	53.9	65.8	67.1			1.88
	Chlordane	90.6	80.8	85.6			5.70
	Toxaphene	109	94.1	101			7.28
EPA 8321B	2,4-D	80.1	75.0	76.8			1.53
	2,4,5-T	67.5	75.8	88.1			15.0
	3-Hydroxycarbofuran	76.3	49.5	54.5			9.51
	Acesulfame K	101	99.4	98.2			1.16
	Acetaminophen	79.0	68.5	65.0			5.18
	Acetamiprid	89.9	71.8	73.5			2.26
	Afidopyropen	73.9	63.9	59.9			6.45
	Aldicarb	70.6	34.4	33.8			1.78
	Aldicarb Sulfone	79.5	79.1	77.5			2.14
	Aldicarb Sulfoxide	98.5	34.5	32.2			6.96
	AMPA	110	108	112			3.50
	Bentazon	99.2	66.5	66.7			0.297
	Benzovindiflupyr	67.8	71.4	70.1			1.71
	Carbamazepine	69.2					9.37
	Carbaryl	78.2	44.9	58.0			25.3
	Carbofuran	69.1	39.8	42.7			7.16
	Clothianidin	89.1	79.3	86.6			8.15
	Dinotefuran	98.4	72.4	72.9			0.368
	Diuron	69.4	56.1	54.5			2.95
	Endothall	115	127	128			1.24
	Fenuron	89.4	60.7	67.5			10.6
	Fluridone	79.3	64.8	70.0			7.69
	Glufosinate	114	103	102			0.856
	Glyphosate	104	105	105			0.137
	Hydrocodone	76.2	45.7	45.7			0.0422
	Ibuprofen	94.0	74.5	83.1			10.8
	Imazapyr	82.9	85.7	87.2			1.62
	Imidacloprid	126					3.77
	Linuron	82.9	82.5	78.2			5.35
	Mandestrobin	79.7	70.0	75.2			7.13
	MCPP	95.1	88.0	81.4			7.81
	Methiocarb	75.5	60.9	58.8			3.35
	Methomyl	78.8	51.2	58.5			13.4
	Naproxen	62.1	76.4	76.5			0.144
	Oxamyl	76.0	58.8	65.0			10.0
	Primidone	79.8					4.00
	Propoxur	71.2	38.2	37.4			2.27
	Pyraclostrobin	67.8	69.6	74.5			6.84
	Silvex	63.8	62.9	73.2			15.2
	Sucralose	103	97.1	99.2			2.15
	Thiamethoxam	80.5	80.2	74.2			7.74
	Tolfenpyrad	35.7	56.2	52.9			6.06
	Triclopyr	66.5	66.2	79.2			17.8
SM 2320 B-2011	Total Alkalinity	97.2				0.0995	
SM 2540 D-2015	TSS	91.1					
SM 4500-F- C-2011	Fluoride	96.1	94.0	95.2			0.978

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	Precision	MS
			LCS	SMP	
SM 5310 B-2011	Organic Carbon	97.4	96.0 95.8		0.158

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2383948
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2383970
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2383970
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2383949
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2383949
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2383949
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2383949
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2383966
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2383965
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2383966
EPA 8270E	PCBs in water matrices by GC/MS/MS	2383965
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2383965
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2383956
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2383957
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2383948
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2383948
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2383948
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2383949

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	01/31/2023			01/31/2023 13:46	Khloe J Berg	2383948
EPA 200.7 Rev. 4.4	01/31/2023	02/03/2023 11:15	George D Taylor	02/10/2023 00:18	McKinley C Carter	2383970
EPA 200.8 Rev. 5.4	01/31/2023	02/03/2023 11:15	George D Taylor	02/08/2023 18:53	Emily M Philpot	2383970
	01/31/2023	02/03/2023 11:15	George D Taylor	02/09/2023 13:38	Emily M Philpot	2383970
EPA 350.1 Rev. 2.0	01/31/2023			02/13/2023 12:24	Khloe J Berg	2383949
EPA 351.2 Rev. 2.0	01/31/2023	02/01/2023 12:25	Simonne.V. Calhoun	02/03/2023 12:32	Samantha L Bates	2383949
EPA 353.2 Rev. 2.0	01/31/2023			02/02/2023 10:43	Beverly Y. Sanders	2383949
EPA 365.1 Rev. 2.0	01/31/2023	02/02/2023 14:04	Adam P Silver	02/03/2023 10:03	James L Waggerby	2383949
EPA 8270E	01/31/2023	02/03/2023 08:00	Fe-Val Siddell	02/08/2023 23:32	Arthur Maknenko	2383966
	01/31/2023	02/03/2023 08:00	Fe-Val Siddell	02/15/2023 20:41	Michael Poppell	2383966
	01/31/2023	02/03/2023 08:30	Rasheda Ghaffari	02/07/2023 19:12	Vandana T. Nagar	2383965
	01/31/2023	02/03/2023 08:30	Rasheda Ghaffari	02/07/2023 19:57	Julie Wi	2383965
EPA 8276	01/31/2023	02/03/2023 08:30	Rasheda Ghaffari	02/08/2023 03:25	Lipi Saha	2383965
EPA 8321B	01/31/2023	01/31/2023 13:00	June Rhew	02/01/2023 21:12	Juyoung Kim	2383957
	01/31/2023	01/31/2023 13:00	June Rhew	02/02/2023 11:25	Juyoung Kim	2383957
	01/31/2023	02/01/2023 08:00	Manjita Shrestha	02/01/2023 12:40	Manjita Shrestha	2383957
	01/31/2023	02/01/2023 08:00	Manjita Shrestha	02/01/2023 21:19	Manjita Shrestha	2383957
	01/31/2023	02/02/2023 14:30	June Rhew	02/03/2023 15:53	Juyoung Kim	2383956
SM 2320 B-2011	01/31/2023			02/04/2023 09:48	Dale L. Simmons	2383948
SM 2540 D-2015	01/31/2023			02/01/2023 14:18	Yijie Li	2383948
SM 4500-F- C-2011	01/31/2023			02/10/2023 01:35	Dale L. Simmons	2383948
SM 5310 B-2011	01/31/2023			02/02/2023 19:58	Khloe J Berg	2383949