

Chemical Analysis Report

CEN-DIST-2023-03-02-02

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

Event Description: **Reedy Lake Basin**
Request ID: **RQ-2023-02-27-17**
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: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 28-MAR-2023 13:08

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line extending from the end of the name.

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: 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: Reedy Lake Basin @ Lake Reedy Blvd. - Bridge Collection Date/Time: 03/01/2023 13:04

Field ID: G4CE0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2391337	DEP SOP: NU-094-1	Color (true)	17		PCU	P426623		
	EPA 180.1 Rev. 2.0	Turbidity	20		NTU	P426625		
	EPA 300.0 Rev. 2.1	Chloride	18	A	mg Cl/L	P427039		
		Sulfate	38	A	mg SO4/L	P427043		
	SM 2320 B-2011	Total Alkalinity	33		mg CaCO3/L	P427035		
	SM 2540 C-2015	TDS	135		mg/L	P427176		
	SM 2540 D-2015	TSS	19		mg/L	P426964		
	SM 4500-F- C-2011	Fluoride	0.084	I	mg F/L	P427162		
	2391338	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P426733	
		EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P426909	
EPA 353.2 Rev. 2.0		NO2NO3-N	0.18		mg N/L	P426859		
EPA 365.1 Rev. 2.0		Total-P	0.038		mg P/L	P426839		
SM 5310 B-2011		Organic Carbon	11		mg C/L	P426935		
2391341	EPA 8321B	Aldicarb	0.020	U	ug/L	P426587	MS	
		Aldicarb Sulfone	0.0020	U	ug/L	P426587		
		Aldicarb Sulfoxide	0.0020	U	ug/L	P426587	MS	
		Carbaryl	0.0020	U	ug/L	P426587		
		Carbofuran	0.0020	U	ug/L	P426587		
		3-Hydroxycarbofuran	0.0020	U	ug/L	P426587		
		Methiocarb	0.0020	U	ug/L	P426587		
		Methomyl	0.0020	U	ug/L	P426587		
		Oxamyl	0.0020	U	ug/L	P426587		
		Propoxur	0.0020	U	ug/L	P426587	MS	
2391342		2,4-D	0.019		ug/L	P426799		
		Acesulfame K	0.10	U	ug/L	P426535		
		2,4,5-T	0.0040	U	ug/L	P426799		
		AMPA	0.10	U	ug/L	P426535		
		Acetaminophen	0.0080	U	ug/L	P426799		
		Acetamiprid	0.0020	U	ug/L	P426799		
		Endothall	0.25	U	ug/L	P426535		
		Glufosinate	0.10	U	ug/L	P426535		
		Glyphosate	0.10	U	ug/L	P426535		
		Afidopyropen	0.0020	U	ug/L	P426799		
		Bentazon	0.0014	I	ug/L	P426799		
		Sucralose	0.31		ug/L	P426535		
		Benzovindiflupyr	0.0020	U	ug/L	P426799		
		Carbamazepine	8.0E-04	U	ug/L	P426799		
		Clothianidin	0.0040	I	ug/L	P426799		
		Dinotefuran	0.0020	U	ug/L	P426799		
		Diuron	0.0020	U	ug/L	P426799		
		Fenuron	0.032	U	ug/L	P426799		
		Fluridone	8.0E-04	U	ug/L	P426799		
		Imazapyr	0.0040	U	ug/L	P426799		
Hydrocodone	0.0020	U	ug/L	P426799				

Field ID: G4CE0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2391342	EPA 8321B	Ibuprofen	0.080	U	ug/L	P426799	
		Imidacloprid	0.045		ug/L	P426799	
		Linuron	0.0040	U	ug/L	P426799	
		Mandestrobin	0.0020	U	ug/L	P426799	
		MCP	0.0020	U	ug/L	P426799	
		Naproxen	0.0080	U	ug/L	P426799	
		Primidone	0.0040	U	ug/L	P426799	
		Pyraclostrobin	0.0020	U	ug/L	P426799	
		Silvex	0.0040	U	ug/L	P426799	
		Thiamethoxam	0.0020	U	ug/L	P426799	
		Tolfenpyrad	0.0020	U	ug/L	P426799	
		Triclopyr	0.0040	U	ug/L	P426799	
2391343	EPA 8270E	Aldrin	0.66	U	ng/L	P426832	
		Alpha-BHC	0.10	UJ	ng/L	P426832	LCS
		Alpha-Chlordane	0.20	U	ng/L	P426832	
		PCB-1016	2.0	U	ng/L	P426832	
		Beta-BHC	0.10	U	ng/L	P426832	
		PCB-1221	2.0	U	ng/L	P426832	
		Beta-Cyfluthrin	1.3	U	ng/L	P426832	
		PCB-1232	2.0	U	ng/L	P426832	
		Bifenthrin	0.51	U	ng/L	P426832	
		PCB-1242	2.0	U	ng/L	P426832	
		PCB-1248	2.0	U	ng/L	P426832	
		Chlorothalonil	3.7	U	ng/L	P426832	
		PCB-1254	2.0	U	ng/L	P426832	
		Cis-Nonachlor	0.20	U	ng/L	P426832	
		PCB-1260	2.0	U	ng/L	P426832	MS
		Cypermethrin	1.5	U	ng/L	P426832	
		Dacthal	0.15	U	ng/L	P426832	
		DDD-p,p'	0.25	U	ng/L	P426832	
		DDE-p,p'	0.20	U	ng/L	P426832	
		DDT-p,p'	0.25	UJ	ng/L	P426832	LCS
		Delta-BHC	0.41	U	ng/L	P426832	
		Deltamethrin	1.3	U	ng/L	P426832	
		Dichlobenil	0.25	U	ng/L	P426832	
		Dicofol	1.3	U	ng/L	P426832	
		Dieldrin	1.1	I	ng/L	P426832	
		Endosulfan I	0.41	U	ng/L	P426832	
		Endosulfan II	0.41	U	ng/L	P426832	
		Endosulfan Sulfate	0.31	U	ng/L	P426832	
		Endrin	0.41	U	ng/L	P426832	
		Endrin Aldehyde	0.76	U	ng/L	P426832	
		Endrin Ketone	0.41	U	ng/L	P426832	
		Esfenvalerate	0.76	U	ng/L	P426832	
		Ethalfuralin	0.15	U	ng/L	P426832	

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Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2391343	EPA 8270E	Fenpropathrin	0.25	U	ng/L	P426832	
		Gamma-BHC	0.13	U	ng/L	P426832	
		Gamma-Chlordane	0.20	U	ng/L	P426832	
		Heptachlor	0.20	U	ng/L	P426832	
		Heptachlor Epoxide	0.25	U	ng/L	P426832	
		Hexachlorobenzene**	1.0	U	ng/L	P426832	
		Kepone	5.1	UJ	ng/L	P426832	CCV
		Lambda-Cyhalothrin	0.76	U	ng/L	P426832	
		Methoprene	0.76	U	ng/L	P426832	
		Methoxychlor	0.31	U	ng/L	P426832	
		MGK-264	0.20	U	ng/L	P426832	
		Mirex	0.36	U	ng/L	P426832	
		Oxychlordane	0.31	U	ng/L	P426832	
		Permethrin	1.6	U	ng/L	P426832	
		Phenothrin	0.92	U	ng/L	P426832	
		Piperonyl Butoxide	0.15	U	ng/L	P426832	
		Prallethrin	2.0	U	ng/L	P426832	
		Tau-Fluvalinate	0.25	U	ng/L	P426832	
		Tetramethrin	0.76	U	ng/L	P426832	
		Trans-Nonachlor	0.20	U	ng/L	P426832	
		Triclosan Methyl	0.15	U	ng/L	P426832	
		Trifluralin	0.20	U	ng/L	P426832	
2391344	EPA 8276	Chlordane	2.0	U	ng/L	P426832	MS, RPD
		Toxaphene	15	U	ng/L	P426832	MS
2391344	EPA 8270E	Oxybenzone**	10	U	ng/L	P426511	
		Acetochlor	0.20	U	ng/L	P426511	
		Octinoxate**	20	U	ng/L	P426511	
		Alachlor	0.40	U	ng/L	P426511	
		Avobenzone**	100	U	ng/L	P426511	
		Ametryn	1.2	I	ng/L	P426511	
		Atrazine	6.9	J	ng/L	P426511	LCS, MS
		PBDE-47**	4.0	U	ng/L	P426511	
		Atrazine Desethyl	1.3	U	ng/L	P426511	
		PBDE-99**	5.1	U	ng/L	P426511	
		Azinphos Methyl	3.0	U	ng/L	P426511	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P426511	
		Azoxystrobin	1.2	I	ng/L	P426511	
		Bromacil	740		ng/L	P426511	
		2-Ethylhexyl	12	U	ng/L	P426511	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.20	U	ng/L	P426511	
		Dechlorane Plus**	30	U	ng/L	P426511	
		Caffeine**	45		ng/L	P426511	
		Dechlorane 602**	5.1	U	ng/L	P426511	
		Carbophenothion	0.51	U	ng/L	P426511	

Field ID: G4CE0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2391344	EPA 8270E	Dechlorane 603**	4.0	U	ng/L	P426511	
		Carfentrazone Ethyl	0.15	U	ng/L	P426511	
		Hexabromobenzene**	6.1	U	ng/L	P426511	
		Chlorfenapyr	0.30	U	ng/L	P426511	
		PBB-153**	8.1	U	ng/L	P426511	
		Chlorpyrifos Ethyl	0.30	U	ng/L	P426511	
		Pentabromotoluene**	3.0	U	ng/L	P426511	
		Chlorpyrifos Methyl	0.10	U	ng/L	P426511	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P426511	
		Coumaphos	1.1	U	ng/L	P426511	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P426511	
		Cyanazine	5.1	U	ng/L	P426511	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	3.2	I	ng/L	P426511	
		Cyprodinil	0.20	U	ng/L	P426511	
		Tetradecachloro-m-terphenyl**	7.6	U	ng/L	P426511	
		Demeton	3.5	U	ng/L	P426511	
		Diazinon	0.13	U	ng/L	P426511	
		Difenoconazole	0.61	U	ng/L	P426511	
		Dimethenamid	0.10	U	ng/L	P426511	
		Dimethomorph	0.30	U	ng/L	P426511	
		Disulfoton	0.64	I	ng/L	P426511	
		Dithiopyr	1.0	U	ng/L	P426511	
		EPTC	0.51	UJ	ng/L	P426511	LCS, RPD
		Ethion	0.30	U	ng/L	P426511	
		Ethoprop	0.13	U	ng/L	P426511	
		Etridiazole	0.10	U	ng/L	P426511	
		Fenamiphos	0.46	U	ng/L	P426511	
		Fenbuconazole	0.83	I	ng/L	P426511	
		Fipronil	0.20	U	ng/L	P426511	
		Fipronil Desulfinyl**	0.10	U	ng/L	P426511	
		Fipronil Sulfide	0.10	U	ng/L	P426511	
		Fipronil Sulfone	0.10	U	ng/L	P426511	
		Fluazifop-P-butyl	0.10	U	ng/L	P426511	
		Fludioxonil	0.10	U	ng/L	P426511	
		Flumioxazin	3.0	U	ng/L	P426511	
		Flutolanil	0.10	U	ng/L	P426511	
		Fluxapyroxad	0.25	U	ng/L	P426511	
		Fonofos	0.15	U	ng/L	P426511	RPD
		Hexazinone	7.0		ng/L	P426511	MS
		Imazalil	0.66	U	ng/L	P426511	
		Iprodione	0.51	U	ng/L	P426511	
		Loratadine**	0.30	U	ng/L	P426511	
		Malathion	0.35	U	ng/L	P426511	
		Metalaxyl	21		ng/L	P426511	

Field ID: G4CE0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2391344	EPA 8270E	Metolachlor	0.76	U	ng/L	P426511	
		Metribuzin	0.40	UJ	ng/L	P426511	LCS
		Mevinphos	1.0	U	ng/L	P426511	RPD
		Molinate	0.25	U	ng/L	P426511	MS
		Myclobutanil	0.35	U	ng/L	P426511	
		Naled	2.5	U	ng/L	P426511	
		Napropamide	0.71	U	ng/L	P426511	
		Norflurazon	77		ng/L	P426511	
		Oxadiazon	0.35	U	ng/L	P426511	
		Oxyfluorfen	0.20	U	ng/L	P426511	
		Parathion Ethyl	0.15	UJ	ng/L	P426511	LCS, MS
		Parathion Methyl	0.20	U	ng/L	P426511	
		Pendimethalin	0.76	U	ng/L	P426511	
		Phenytol**	5.4	U	ng/L	P426511	
		Phorate	0.25	U	ng/L	P426511	
		Prodiamine	0.20	U	ng/L	P426511	
		Prometon	3.0	U	ng/L	P426511	
		Prometryn	0.35	U	ng/L	P426511	
		Pronamide	0.10	U	ng/L	P426511	
		Propanil	0.10	U	ng/L	P426511	
		Propargite	0.81	U	ng/L	P426511	
		Propiconazole	0.61	U	ng/L	P426511	
		Pyraflufen Ethyl	0.30	U	ng/L	P426511	
		Pyridaben	53		ng/L	P426511	
		Pyriproxyfen	0.25	U	ng/L	P426511	
		Simazine	9.1		ng/L	P426511	
		Stirophos	0.40	U	ng/L	P426511	
		Sulfentrazone	1.4	U	ng/L	P426511	
		Tebuconazole	1.4	I	ng/L	P426511	
		Terbufos	0.20	U	ng/L	P426511	
		Terbuthylazine	0.20	U	ng/L	P426511	MS
		Thiobencarb	0.51	U	ng/L	P426511	
		Triadimefon	0.15	U	ng/L	P426511	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P426623

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426625

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427039

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427043

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426733

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426909

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426859

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426839

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

Reference Method: EPA 8270E
Batch ID: P426511

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	0.20	U	ng/L
Acetochlor	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426511

Component	Result	Code	Units
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	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	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426511

Component	Result	Code	Units
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	17	I	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E

Batch ID: P426832

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426832

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426832

Component	Result	Code	Units
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
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: P426832

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8276

Batch ID: P426832

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

Reference Method: EPA 8321B

Batch ID: P426535

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: P426587

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

Reference Method: EPA 8321B

Batch ID: P426799

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P426799

Component	Result	Code	Units
MCP	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: SM 2320 B-2011
Batch ID: P427035

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

Reference Method: SM 2540 C-2015
Batch ID: P427176

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P426964

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P427162

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P426935

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P426623

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.9		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426625

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427039

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427043

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426733

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426909

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.4		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426859

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426839

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

Reference Method: EPA 8270E
Batch ID: P426511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.2		P	42 - 162
Acetochlor	89.7		P	69 - 123
Alachlor	70.9		P	65 - 118
Ametryn	92.2		P	58 - 141

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P426511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine	59.8		F	73 - 118
Atrazine Desethyl	51.0		P	32 - 125
Avobenzone	113		P	40 - 203
Azinphos Methyl	194		P	36 - 197
Azoxystrobin	77.7		P	58 - 226
Bromacil	75.4		P	48 - 120
Butylate	35.4		P	27 - 85.0
Caffeine	90.7		P	40 - 137
Carbophenothion	63.0		P	54 - 132
Carfentrazone Ethyl	62.0		P	60 - 142
Chlorfenapyr	60.5		P	53 - 117
Chlorpyrifos Ethyl	75.9		P	59 - 116
Chlorpyrifos Methyl	96.6		P	66 - 119
Coumaphos	135		P	11 - 234
Cyanazine	135		P	61 - 248
Cyprodinil	73.0		P	50 - 147
Dechlorane 602	97.8		P	50 - 150
Dechlorane 603	96.4		P	50 - 150
Dechlorane Plus	123		P	47 - 182
Demeton	45.3		P	30 - 138
Diazinon	91.3		P	67 - 126
Difenoconazole	157		P	38 - 205
Dimethenamid	77.6		P	57 - 111
Dimethomorph	37.0		P	16 - 212
Disulfoton	62.6		P	46 - 126
Dithiopyr	69.5		P	62 - 115
EPTC	25.8		F	28 - 80.0
Ethion	61.6		P	24 - 122
Ethoprop	92.5		P	62 - 113
Etridiazole	63.7		P	28 - 92.0
Fenamiphos	89.3		P	57 - 128
Fenbuconazole	113		P	52 - 155
Fipronil	85.6		P	63 - 130
Fipronil Desulfinyl	78.4		P	61 - 130
Fipronil Sulfide	79.5		P	56 - 117
Fipronil Sulfone	60.9		P	52 - 118
Fluazifop-P-butyl	76.0		P	61 - 128
Fludioxonil	80.7		P	59 - 129
Flumioxazin	166		P	30 - 250
Flutolanil	76.3		P	53 - 127
Fluxapyroxad	42.8		P	42 - 132
Fonofos	82.2		P	61 - 110
Hexabromobenzene	131		P	50 - 150
Hexazinone	65.2		P	46 - 139
Imazalil	49.8		P	40 - 139
Iprodione	109		P	40 - 146
Loratadine	24.5		P	10 - 224
Malathion	97.7		P	61 - 135
Metalaxyl	88.0		P	58 - 121
Metolachlor	65.6		P	64 - 118
Metribuzin	41.2		F	45 - 245
Mevinphos	81.1		P	49 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P426511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Molinate	44.6		P	42 - 92.0
Myclobutanil	69.3		P	55 - 127
Naled	52.5		P	10 - 114
Napropamide	62.5		P	39 - 121
Norflurazon	76.3		P	55 - 129
Octinoxate	97.4		P	26 - 166
Oxadiazon	67.8		P	54 - 115
Oxybenzone	96.5		P	49 - 135
Oxyfluorfen	71.9		P	64 - 139
Parathion Ethyl	60.4		F	70 - 111
Parathion Methyl	77.1		P	76 - 136
PBB-153	124		P	50 - 150
PBDE-47	85.7		P	41 - 148
PBDE-99	81.4		P	38 - 147
Pendimethalin	90.7		P	52 - 118
Pentabromotoluene	125		P	50 - 150
Phenytoin	73.9		P	10 - 162
Phorate	70.4		P	40 - 122
Prodiamine	74.7		P	26 - 141
Prometon	82.6		P	54 - 122
Prometryn	72.8		P	61 - 128
Pronamide	85.4		P	72 - 121
Propanil	56.9		P	45 - 144
Propargite	57.0		P	10 - 199
Propiconazole	60.4		P	56 - 127
Pyraflufen Ethyl	72.4		P	56 - 140
Pyridaben	94.5		P	26 - 211
Pyriproxyfen	42.6		P	33 - 194
Simazine	89.0		P	67 - 121
Stirophos	91.5		P	20 - 142
Sulfentrazone	107		P	21 - 144
Tebuconazole	69.0		P	10 - 122
Terbufos	67.6		P	60 - 129
Terbutylazine	75.6		P	69 - 113
Tetradecachloro-m-terphenyl	153		P	70 - 200
Thiobencarb	69.2		P	51 - 120
Tri-o-cresyl Phosphate	100		P	49 - 150
Triadimefon	57.0		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	148		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	127		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	134		P	70 - 180

Reference Method: EPA 8270E

Batch ID: P426832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	29.8		P	10 - 92.0
Alpha-BHC	68.9		F	75 - 107
Alpha-Chlordane	58.5		P	50 - 108
Beta-BHC	75.2		P	36 - 138
Beta-Cyfluthrin	38.2		P	20 - 161
Bifenthrin	29.1		P	10 - 119

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P426832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorothalonil	69.5		P	26 - 186
Cis-Nonachlor	46.9		P	42 - 119
Cypermethrin	39.4		P	22 - 150
Dacthal	80.5		P	72 - 119
DDD-p,p'	54.2		P	45 - 107
DDE-p,p'	48.5		P	48 - 106
DDT-p,p'	44.8		F	48 - 110
Delta-BHC	78.1		P	54 - 140
Deltamethrin	45.4		P	22 - 189
Dichlobenil	44.1		P	36 - 117
Dicofol	56.3		P	46 - 155
Dieldrin	59.4		P	54 - 110
Endosulfan I	59.4		P	59 - 105
Endosulfan II	71.7		P	51 - 118
Endosulfan Sulfate	75.3		P	57 - 121
Endrin	61.7		P	10 - 120
Endrin Aldehyde	63.0		P	34 - 118
Endrin Ketone	72.2		P	69 - 177
Esfenvalerate	38.3		P	23 - 168
Ethalfuralin	50.2		P	49 - 99.0
Fenpropathrin	40.4		P	34 - 117
Gamma-BHC	111		P	72 - 117
Gamma-Chlordane	47.3		P	43 - 106
Heptachlor	58.5		P	41 - 98.0
Heptachlor Epoxide	71.6		P	57 - 106
Hexachlorobenzene	37.3		P	36 - 99.0
Kepone	38.7		P	16 - 215
Lambda-Cyhalothrin	32.6		P	21 - 177
Methoprene	36.4		P	10 - 119
Methoxychlor	61.5		P	60 - 112
MGK-264	66.7		P	26 - 122
Mirex	31.2		P	10 - 169
Oxychlordane	47.0		P	43 - 105
PCB-1016	67.0		P	48 - 112
PCB-1260	66.7		P	44 - 118
Permethrin	38.5		P	24 - 148
Phenothrin	31.1		P	10 - 106
Piperonyl Butoxide	70.4		P	10 - 139
Prallethrin	53.7		P	17 - 109
Tau-Fluvalinate	31.2		P	13 - 131
Tetramethrin	61.3		P	10 - 132
Trans-Nonachlor	45.6		P	44 - 106
Triclosan Methyl	59.4		P	59 - 109
Trifluralin	46.4		P	44 - 101

Reference Method: EPA 8276

Batch ID: P426832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	61.1		P	61 - 116
Toxaphene	73.4		P	48 - 124

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B**Batch ID: P426535**

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	97.8		P	40 - 150
AMPA	106		P	40 - 150
Endothall	96.7		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	95.9		P	40 - 150
Sucralose	98.4		P	40 - 150

Reference Method: EPA 8321B**Batch ID: P426587**

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	82.6		P	40 - 150
Aldicarb	93.9		P	30 - 150
Aldicarb Sulfone	94.7		P	40 - 150
Aldicarb Sulfoxide	99.3		P	40 - 150
Carbaryl	90.4		P	40 - 150
Carbofuran	81.5		P	40 - 150
Methiocarb	79.2		P	40 - 150
Methomyl	95.1		P	40 - 150
Oxamyl	91.3		P	40 - 150
Propoxur	82.7		P	40 - 150

Reference Method: EPA 8321B**Batch ID: P426799**

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	92.1		P	40 - 150
2,4,5-T	91.9		P	40 - 150
Acetaminophen	103		P	30 - 150
Acetamiprid	68.8		P	40 - 150
Afidopyropen	69.4		P	30 - 150
Bentazon	110		P	30 - 150
Benzovindiflupyr	84.7		P	40 - 150
Carbamazepine	82.2		P	40 - 150
Clothianidin	104		P	40 - 150
Dinotefuran	80.1		P	40 - 150
Diuron	78.8		P	40 - 150
Fenuron	99.3		P	40 - 150
Fluridone	84.7		P	40 - 150
Hydrocodone	96.3		P	40 - 150
Ibuprofen	84.1		P	40 - 150
Imazapyr	91.8		P	40 - 150
Imidacloprid	93.3		P	40 - 150
Linuron	75.2		P	40 - 150
Mandestrobin	90.7		P	40 - 150
MCPP	90.5		P	40 - 150
Naproxen	94.5		P	40 - 150
Primidone	94.5		P	40 - 150
Pyraclostrobin	78.8		P	40 - 150
Silvex	92.5		P	40 - 150
Thiamethoxam	92.0		P	40 - 150
Tolfenpyrad	61.4		P	30 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P426799

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	91.2		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P427035

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.1		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P427176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	95.1		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P426964

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	99.5		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P427162

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P426935

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427039

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391337	Chloride	97.0		P	90 - 110
2391346	Chloride	95.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427043

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391337	Sulfate	96.1		P	90 - 110
2391346	Sulfate	98.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426733

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391338	Ammonia-N	97.6	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426909

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391527	Kjeldahl Nitrogen	95.5	93.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391322	NO2NO3-N	99.8	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391264	Total-P	101	98.0	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P426511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390328	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.1	99.1	P/P	26 - 165
2390328	Acetochlor	67.9	83.3	P/P	67 - 124
2390328	Alachlor	66.0	67.3	P/P	60 - 120
2390328	Ametryn	88.3	94.5	P/P	54 - 216
2390328	Atrazine	58.9	65.2	F/F	66 - 128
2390328	Atrazine Desethyl	37.8	49.4	P/P	15 - 122
2390328	Avobenzone	94.1	104	P/P	37 - 178
2390328	Azinphos Methyl	150	162	P/P	40 - 292
2390328	Azoxystrobin	51.6	57.2	P/P	35 - 220
2390328	Bromacil	57.7	78.0	P/P	45 - 127
2390328	Butylate	30.0	41.9	P/P	20 - 83.0
2390328	Caffeine	65.3	98.7	P/P	10 - 194
2390328	Carbophenothion	96.4	103	P/P	57 - 127
2390328	Carfentrazone Ethyl	59.2	61.8	P/P	51 - 141

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P426511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390328	Chlorfenapyr	52.9	57.9	P/P	46 - 111
2390328	Chlorpyrifos Ethyl	57.6	67.0	P/P	52 - 120
2390328	Chlorpyrifos Methyl	68.7	71.0	P/P	63 - 119
2390328	Coumaphos	105	123	P/P	10 - 228
2390328	Cyanazine	103	124	P/P	59 - 241
2390328	Cyprodinil	67.3	66.0	P/P	47 - 146
2390328	Dechlorane 602	65.6	71.1	P/P	50 - 150
2390328	Dechlorane 603	60.4	66.3	P/P	50 - 150
2390328	Dechlorane Plus	100	112	P/P	50 - 150
2390328	Demeton	43.9	45.0	P/P	40 - 136
2390328	Diazinon	102	126	P/P	69 - 132
2390328	Difenoconazole	124	141	P/P	57 - 258
2390328	Dimethenamid	54.5	69.6	P/P	54 - 110
2390328	Dimethomorph	35.3	40.4	P/P	28 - 210
2390328	Disulfoton	58.6	68.2	P/P	43 - 133
2390328	Dithiopyr	58.8	62.1	P/P	39 - 116
2390328	EPTC	20.9	37.9	P/P	20 - 78.0
2390328	Ethion	56.3	56.5	P/P	17 - 119
2390328	Ethoprop	75.3	97.7	P/P	66 - 120
2390328	Etridiazole	31.8	41.1	P/P	28 - 96.0
2390328	Fenamiphos	63.7	78.0	P/P	41 - 126
2390328	Fenbuconazole	106	119	P/P	42 - 169
2390328	Fipronil	70.8	75.2	P/P	61 - 132
2390328	Fipronil Desulfinyl	64.6	77.7	P/P	56 - 132
2390328	Fipronil Sulfide	66.7	70.8	P/P	48 - 119
2390328	Fipronil Sulfone	55.6	55.4	P/P	42 - 131
2390328	Fluazifop-P-butyl	72.4	68.5	P/P	53 - 131
2390328	Fludioxonil	75.6	83.9	P/P	56 - 127
2390328	Flumioxazin	116	144	P/P	19 - 300
2390328	Flutolanil	51.9	67.8	P/P	41 - 127
2390328	Fluxapyroxad	52.9	46.2	P/P	42 - 172
2390328	Fonofos	59.8	81.5	P/P	59 - 113
2390328	Hexabromobenzene	133	140	P/P	50 - 150
2390328	Hexazinone	62.8	60.5	F/F	66 - 122
2390328	Imazalil	37.2	41.0	P/P	21 - 283
2390328	Iprodione	77.3	91.5	P/P	43 - 150
2390328	Loratadine	28.1	26.3	P/P	23 - 201
2390328	Malathion	83.2	88.5	P/P	58 - 136
2390328	Metalaxyl	55.5	70.3	P/P	55 - 120
2390328	Metolachlor	58.6	74.0	P/P	57 - 121
2390328	Metribuzin	64.7	67.1	P/P	58 - 294
2390328	Mevinphos	62.0	83.8	P/P	50 - 126
2390328	Molinate	37.4	50.0	F/P	42 - 93.0
2390328	Myclobutanil	66.4	71.8	P/P	55 - 125
2390328	Naled	41.4	56.9	P/P	18 - 200
2390328	Napropamide	45.8	49.7	P/P	39 - 110
2390328	Norflurazon	61.3	76.7	P/P	48 - 128
2390328	Octinoxate	86.6	99.0	P/P	21 - 159
2390328	Oxadiazon	58.0	58.9	P/P	43 - 112
2390328	Oxybenzone	84.3	99.4	P/P	41 - 142
2390328	Oxyfluorfen	65.2	70.5	P/P	64 - 153
2390328	Parathion Ethyl	51.0	52.9	F/F	69 - 114

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P426511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390328	Parathion Methyl	102	111	P/P	79 - 139
2390328	PBB-153	92.0	101	P/P	50 - 150
2390328	PBDE-47	81.2	89.3	P/P	27 - 144
2390328	PBDE-99	78.3	85.4	P/P	18 - 150
2390328	Pendimethalin	85.3	84.1	P/P	50 - 139
2390328	Pentabromotoluene	123	133	P/P	50 - 150
2390328	Phenytoin	67.1	77.8	P/P	10 - 146
2390328	Phorate	55.0	59.1	P/P	54 - 161
2390328	Prodiamine	63.3	68.7	P/P	30 - 161
2390328	Prometon	87.5	77.8	P/P	45 - 134
2390328	Prometryn	50.9	59.7	P/P	45 - 137
2390328	Pronamide	67.0	85.2	P/P	65 - 133
2390328	Propanil	50.2	57.0	P/P	49 - 142
2390328	Propargite	49.1	51.8	P/P	10 - 203
2390328	Propiconazole	53.1	69.2	P/P	38 - 146
2390328	Pyraflufen Ethyl	59.8	78.8	P/P	34 - 153
2390328	Pyridaben	68.3	65.8	P/P	12 - 192
2390328	Pyriproxyfen	51.5	43.2	P/P	33 - 180
2390328	Simazine	104	124	P/P	51 - 157
2390328	Stiropfos	73.3	72.6	P/P	10 - 128
2390328	Sulfentrazone	89.8	109	P/P	53 - 186
2390328	Tebuconazole	65.4	71.4	P/P	10 - 133
2390328	Terbufos	98.4	119	P/P	65 - 139
2390328	Terbutylazine	54.6	70.6	F/P	66 - 117
2390328	Tetradecachloro-m-terphenyl	108	113	P/P	70 - 200
2390328	Thiobencarb	56.9	66.4	P/P	51 - 119
2390328	Tri-o-cresyl Phosphate	88.6	100	P/P	31 - 144
2390328	Triadimefon	48.1	48.9	P/P	48 - 119
2390328	Tris(1-chloro-2-propyl) phosphate (TCPP)	118	130	P/P	50 - 150
2390328	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	119	126	P/P	50 - 150
2390328	Tris(2-chloroethyl) phosphate (TCEP)	127	143	P/P	70 - 180

Reference Method: EPA 8270E

Batch ID: P426832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390549	PCB-1016	59.3	47.8	P/P	46 - 111
2390549	PCB-1260	57.0	44.8	P/F	45 - 114
2390746	Aldrin	47.0	49.9	P/P	20 - 82.0
2390746	Alpha-BHC	82.5	79.6	P/P	71 - 109
2390746	Alpha-Chlordane	70.2	71.3	P/P	42 - 106
2390746	Beta-BHC	87.3	86.7	P/P	69 - 180
2390746	Beta-Cyfluthrin	57.4	63.9	P/P	18 - 175
2390746	Bifenthrin	47.9	56.0	P/P	21 - 128
2390746	Chlorothalonil	54.1	58.7	P/P	10 - 300
2390746	Cis-Nonachlor	63.2	64.9	P/P	34 - 106
2390746	Cypermethrin	57.2	63.2	P/P	22 - 158
2390746	Dacthal	85.2	86.3	P/P	54 - 116
2390746	DDD-p,p'	67.8	72.4	P/P	34 - 107
2390746	DDE-p,p'	66.9	70.3	P/P	33 - 110
2390746	DDT-p,p'	64.5	65.0	P/P	50 - 122
2390746	Delta-BHC	83.8	79.9	P/P	77 - 193

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P426832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390746	Deltamethrin	64.1	70.8	P/P	10 - 195
2390746	Dichlobenil	58.3	60.8	P/P	25 - 113
2390746	Dicofol	68.8	67.6	P/P	38 - 247
2390746	Dieldrin	74.1	76.6	P/P	45 - 118
2390746	Endosulfan I	68.3	69.3	P/P	51 - 106
2390746	Endosulfan II	73.8	81.5	P/P	37 - 122
2390746	Endosulfan Sulfate	78.3	76.2	P/P	43 - 132
2390746	Endrin	75.6	78.8	P/P	29 - 101
2390746	Endrin Aldehyde	70.9	73.2	P/P	19 - 110
2390746	Endrin Ketone	83.9	108	P/P	60 - 140
2390746	Esfenvalerate	57.7	63.8	P/P	26 - 199
2390746	Ethalfuralin	68.8	68.3	P/P	45 - 99.0
2390746	Fenpropathrin	60.8	63.1	P/P	35 - 120
2390746	Gamma-BHC	87.9	84.0	P/P	63 - 128
2390746	Gamma-Chlordane	64.5	68.0	P/P	40 - 104
2390746	Heptachlor	57.1	59.3	P/P	36 - 97.0
2390746	Heptachlor Epoxide	75.0	75.2	P/P	49 - 184
2390746	Hexachlorobenzene	50.8	55.7	P/P	39 - 96.0
2390746	Kepone	58.4	57.0	P/P	10 - 217
2390746	Lambda-Cyhalothrin	51.4	58.6	P/P	21 - 193
2390746	Methoprene	54.9	62.1	P/P	20 - 106
2390746	Methoxychlor	74.6	73.4	P/P	53 - 118
2390746	MGK-264	77.0	74.7	P/P	40 - 118
2390746	Mirex	48.7	56.4	P/P	26 - 92.0
2390746	Oxychlordane	64.4	69.1	P/P	44 - 99.0
2390746	Permethrin	57.5	64.7	P/P	33 - 182
2390746	Phenothrin	48.3	59.9	P/P	10 - 129
2390746	Piperonyl Butoxide	78.2	77.0	P/P	10 - 211
2390746	Prallethrin	64.2	64.4	P/P	24 - 113
2390746	Tau-Fluvalinate	51.3	57.8	P/P	14 - 149
2390746	Tetramethrin	69.2	69.5	P/P	17 - 151
2390746	Trans-Nonachlor	64.6	67.2	P/P	42 - 102
2390746	Triclosan Methyl	73.7	75.1	P/P	48 - 108
2390746	Trifluralin	70.0	70.0	P/P	47 - 96.0

Reference Method: EPA 8276
Batch ID: P426832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390549	Chlordane	46.2	34.0	F/F	53 - 126
2390549	Toxaphene	54.6	41.2	F/F	56 - 211

Reference Method: EPA 8321B
Batch ID: P426535

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390312	Acesulfame K	123	126	P/P	40 - 150
2390312	AMPA	88.2	89.8	P/P	40 - 150
2390312	Endothall	106	106	P/P	40 - 150
2390312	Glufosinate	102	100	P/P	40 - 150
2390312	Glyphosate	96.2	111	P/P	40 - 150
2390312	Sucralose	96.8	98.6	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P426587

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390526	3-Hydroxycarbofuran	69.2	71.0	P/P	40 - 150
2390526	Aldicarb	38.1	29.8	P/F	30 - 150
2390526	Aldicarb Sulfone	78.5	87.6	P/P	40 - 150
2390526	Aldicarb Sulfoxide	30.8	29.5	F/F	40 - 150
2390526	Carbaryl	53.6	56.4	P/P	40 - 150
2390526	Carbofuran	44.8	44.9	P/P	40 - 150
2390526	Methiocarb	63.2	58.2	P/P	40 - 150
2390526	Methomyl	60.9	60.7	P/P	40 - 150
2390526	Oxamyl	72.8	78.5	P/P	40 - 150
2390526	Propoxur	35.6	40.4	F/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P426799

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391449	2,4-D	92.7	98.6	P/P	40 - 150
2391449	2,4,5-T	102	106	P/P	40 - 150
2391449	Acetaminophen	124	114	P/P	30 - 150
2391449	Acetamiprid	69.8	71.4	P/P	40 - 150
2391449	Afidopyropen	65.0	71.6	P/P	30 - 150
2391449	Bentazon	124	122	P/P	30 - 150
2391449	Benzovindiflupyr	84.7	89.1	P/P	40 - 150
2391449	Carbamazepine	65.5	74.0	P/P	40 - 150
2391449	Clothianidin	118	118	P/P	40 - 150
2391449	Dinotefuran	99.7	109	P/P	40 - 150
2391449	Diuron	68.7	72.7	P/P	40 - 150
2391449	Fenuron	80.5	83.5	P/P	40 - 150
2391449	Fluridone	79.6	83.0	P/P	40 - 150
2391449	Hydrocodone	97.0	94.9	P/P	40 - 150
2391449	Ibuprofen	72.8	89.2	P/P	40 - 150
2391449	Imazapyr	89.0	83.0	P/P	40 - 150
2391449	Imidacloprid	145	144	P/P	40 - 150
2391449	Linuron	69.7	82.7	P/P	40 - 150
2391449	Mandestrobin	88.1	87.8	P/P	40 - 150
2391449	MCPP	96.8	97.3	P/P	40 - 150
2391449	Naproxen	106	90.0	P/P	40 - 150
2391449	Primidone	98.7	98.7	P/P	40 - 150
2391449	Pyraclostrobin	76.8	79.2	P/P	40 - 150
2391449	Silvex	122	112	P/P	40 - 150
2391449	Thiamethoxam	101	101	P/P	40 - 150
2391449	Tolfenpyrad	54.3	59.1	P/P	30 - 150
2391449	Triclopyr	111	119	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P427162

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2392889	Fluoride	100	101	P/P	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P426935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391264	Organic Carbon	96.4	97.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P426623

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391058	Color (true)	0.808	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426625

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391172	Turbidity	3.73	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391337	Chloride	0.715	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391337	Sulfate	1.01	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426733

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391338	Ammonia-N	3.19	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391527	Kjeldahl Nitrogen	1.55	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391322	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391264	Total-P	2.70	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P426511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390328	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	10.7	Spike	P	0 - 37
2390328	Acetochlor	20.4	Spike	P	0 - 28
2390328	Alachlor	1.93	Spike	P	0 - 30
2390328	Ametryn	6.81	Spike	P	0 - 32
2390328	Atrazine	10.1	Spike	P	0 - 41
2390328	Atrazine Desethyl	26.7	Spike	P	0 - 36
2390328	Avobenzone	9.86	Spike	P	0 - 36
2390328	Azinphos Methyl	7.81	Spike	P	0 - 75
2390328	Azoxystrobin	10.3	Spike	P	0 - 39
2390328	Bromacil	30.0	Spike	P	0 - 33
2390328	Butylate	33.3	Spike	P	0 - 44
2390328	Caffeine	39.4	Spike	P	0 - 74
2390328	Carbophenothion	6.44	Spike	P	0 - 25
2390328	Carfentrazone Ethyl	4.32	Spike	P	0 - 27
2390328	Chlorfenapyr	8.91	Spike	P	0 - 24
2390328	Chlorpyrifos Ethyl	15.0	Spike	P	0 - 26
2390328	Chlorpyrifos Methyl	3.36	Spike	P	0 - 26
2390328	Coumaphos	15.8	Spike	P	0 - 28
2390328	Cyanazine	18.6	Spike	P	0 - 48
2390328	Cyprodinil	1.84	Spike	P	0 - 29
2390328	Dechlorane 602	7.93	Spike	P	0 - 30
2390328	Dechlorane 603	9.18	Spike	P	0 - 30
2390328	Dechlorane Plus	11.0	Spike	P	0 - 30
2390328	Demeton	2.28	Spike	P	0 - 33
2390328	Diazinon	20.8	Spike	P	0 - 29
2390328	Difenoconazole	12.6	Spike	P	0 - 34
2390328	Dimethenamid	24.3	Spike	P	0 - 39
2390328	Dimethomorph	13.7	Spike	P	0 - 51
2390328	Disulfoton	15.0	Spike	P	0 - 30
2390328	Dithiopyr	5.44	Spike	P	0 - 26
2390328	EPTC	57.8	Spike	F	0 - 43
2390328	Ethion	0.235	Spike	P	0 - 79
2390328	Ethoprop	26.0	Spike	P	0 - 29
2390328	Etridiazole	25.6	Spike	P	0 - 33
2390328	Fenamiphos	20.2	Spike	P	0 - 40
2390328	Fenbuconazole	11.0	Spike	P	0 - 74
2390328	Fipronil	5.93	Spike	P	0 - 29
2390328	Fipronil Desulfinyl	18.3	Spike	P	0 - 32
2390328	Fipronil Sulfide	5.66	Spike	P	0 - 30
2390328	Fipronil Sulfone	0.429	Spike	P	0 - 33
2390328	Fluazifop-P-butyl	5.55	Spike	P	0 - 38
2390328	Fludioxonil	10.4	Spike	P	0 - 29
2390328	Flumioxazin	21.2	Spike	P	0 - 51
2390328	Flutolanil	22.9	Spike	P	0 - 25
2390328	Fluxapyroxad	13.6	Spike	P	0 - 45
2390328	Fonofos	30.6	Spike	F	0 - 27
2390328	Hexabromobenzene	5.53	Spike	P	0 - 30
2390328	Hexazinone	3.58	Spike	P	0 - 30
2390328	Imazalil	9.85	Spike	P	0 - 100
2390328	Iprodione	16.9	Spike	P	0 - 33
2390328	Loratadine	6.68	Spike	P	0 - 56

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P426511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390328	Malathion	6.18	Spike	P	0 - 37
2390328	Metalaxyl	20.6	Spike	P	0 - 40
2390328	Metolachlor	17.8	Spike	P	0 - 29
2390328	Metribuzin	3.78	Spike	P	0 - 45
2390328	Mevinphos	30.0	Spike	F	0 - 29
2390328	Molinate	28.8	Spike	P	0 - 33
2390328	Myclobutanil	7.77	Spike	P	0 - 26
2390328	Naled	31.6	Spike	P	0 - 37
2390328	Napropamide	8.33	Spike	P	0 - 44
2390328	Norflurazon	22.4	Spike	P	0 - 30
2390328	Octinoxate	13.3	Spike	P	0 - 45
2390328	Oxadiazon	1.57	Spike	P	0 - 28
2390328	Oxybenzone	16.5	Spike	P	0 - 46
2390328	Oxyfluorfen	7.82	Spike	P	0 - 28
2390328	Parathion Ethyl	3.63	Spike	P	0 - 31
2390328	Parathion Methyl	8.57	Spike	P	0 - 29
2390328	PBB-153	9.05	Spike	P	0 - 30
2390328	PBDE-47	9.53	Spike	P	0 - 36
2390328	PBDE-99	8.72	Spike	P	0 - 40
2390328	Pendimethalin	1.31	Spike	P	0 - 33
2390328	Pentabromotoluene	7.46	Spike	P	0 - 30
2390328	Phenytol	14.9	Spike	P	0 - 100
2390328	Phorate	7.17	Spike	P	0 - 36
2390328	Prodiamine	8.20	Spike	P	0 - 71
2390328	Prometon	11.7	Spike	P	0 - 36
2390328	Prometryn	15.9	Spike	P	0 - 28
2390328	Pronamide	23.9	Spike	P	0 - 24
2390328	Propanil	12.6	Spike	P	0 - 28
2390328	Propargite	5.33	Spike	P	0 - 43
2390328	Propiconazole	26.4	Spike	P	0 - 33
2390328	Pyraflufen Ethyl	27.4	Spike	P	0 - 29
2390328	Pyridaben	3.70	Spike	P	0 - 30
2390328	Pyriproxyfen	17.5	Spike	P	0 - 79
2390328	Simazine	17.9	Spike	P	0 - 29
2390328	Stirophos	0.922	Spike	P	0 - 61
2390328	Sulfentrazone	19.2	Spike	P	0 - 33
2390328	Tebuconazole	8.71	Spike	P	0 - 69
2390328	Terbufos	19.0	Spike	P	0 - 29
2390328	Terbuthylazine	25.5	Spike	P	0 - 32
2390328	Tetradecachloro-m-terphenyl	4.74	Spike	P	0 - 30
2390328	Thiobencarb	15.4	Spike	P	0 - 26
2390328	Tri-o-cresyl Phosphate	12.3	Spike	P	0 - 33
2390328	Triadimefon	1.60	Spike	P	0 - 28
2390328	Tris(1-chloro-2-propyl) phosphate (TCPP)	7.91	Spike	P	0 - 30
2390328	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	5.63	Spike	P	0 - 30
2390328	Tris(2-chloroethyl) phosphate (TCEP)	11.6	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P426832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390549	PCB-1016	22.2	Spike	P	0 - 32
2390549	PCB-1260	24.5	Spike	P	0 - 31
2390746	Aldrin	6.11	Spike	P	0 - 41
2390746	Alpha-BHC	3.60	Spike	P	0 - 25
2390746	Alpha-Chlordane	1.58	Spike	P	0 - 33
2390746	Beta-BHC	0.677	Spike	P	0 - 36
2390746	Beta-Cyfluthrin	10.8	Spike	P	0 - 42
2390746	Bifenthrin	15.5	Spike	P	0 - 53
2390746	Chlorothalonil	8.10	Spike	P	0 - 71
2390746	Cis-Nonachlor	2.66	Spike	P	0 - 29
2390746	Cypermethrin	10.0	Spike	P	0 - 40
2390746	Dacthal	1.27	Spike	P	0 - 26
2390746	DDD-p,p'	6.57	Spike	P	0 - 39
2390746	DDE-p,p'	4.90	Spike	P	0 - 33
2390746	DDT-p,p'	0.794	Spike	P	0 - 40
2390746	Delta-BHC	4.72	Spike	P	0 - 37
2390746	Deltamethrin	9.96	Spike	P	0 - 100
2390746	Dichlobenil	4.34	Spike	P	0 - 40
2390746	Dicofol	1.74	Spike	P	0 - 31
2390746	Dieldrin	2.61	Spike	P	0 - 27
2390746	Endosulfan I	1.42	Spike	P	0 - 23
2390746	Endosulfan II	10.0	Spike	P	0 - 28
2390746	Endosulfan Sulfate	2.82	Spike	P	0 - 38
2390746	Endrin	4.20	Spike	P	0 - 63
2390746	Endrin Aldehyde	3.18	Spike	P	0 - 60
2390746	Endrin Ketone	25.2	Spike	P	0 - 37
2390746	Esfenvalerate	10.1	Spike	P	0 - 52
2390746	Ethalfuralin	0.732	Spike	P	0 - 23
2390746	Fenpropathrin	3.60	Spike	P	0 - 32
2390746	Gamma-BHC	4.56	Spike	P	0 - 17
2390746	Gamma-Chlordane	5.37	Spike	P	0 - 40
2390746	Heptachlor	3.89	Spike	P	0 - 29
2390746	Heptachlor Epoxide	0.358	Spike	P	0 - 25
2390746	Hexachlorobenzene	9.14	Spike	P	0 - 36
2390746	Kepone	2.51	Spike	P	0 - 93
2390746	Lambda-Cyhalothrin	13.1	Spike	P	0 - 55
2390746	Methoprene	12.4	Spike	P	0 - 53
2390746	Methoxychlor	1.65	Spike	P	0 - 29
2390746	MGK-264	3.06	Spike	P	0 - 35
2390746	Mirex	14.6	Spike	P	0 - 46
2390746	Oxychlordane	7.02	Spike	P	0 - 29
2390746	Permethrin	11.8	Spike	P	0 - 44
2390746	Phenothrin	21.4	Spike	P	0 - 56
2390746	Piperonyl Butoxide	1.51	Spike	P	0 - 100
2390746	Prallethrin	0.390	Spike	P	0 - 42
2390746	Tau-Fluvalinate	11.9	Spike	P	0 - 54
2390746	Tetramethrin	0.314	Spike	P	0 - 51
2390746	Trans-Nonachlor	3.95	Spike	P	0 - 37
2390746	Triclosan Methyl	1.87	Spike	P	0 - 31
2390746	Trifluralin	0.0592	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P426832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390549	Chlordane	30.9	Spike	F	0 - 25
2390549	Toxaphene	23.4	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P426535

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390312	Acesulfame K	2.32	Spike	P	0 - 30
2390312	AMPA	1.89	Spike	P	0 - 30
2390312	Endothall	0.705	Spike	P	0 - 30
2390312	Glufosinate	1.67	Spike	P	0 - 30
2390312	Glyphosate	14.3	Spike	P	0 - 30
2390312	Sucralose	1.75	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P426587

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390526	3-Hydroxycarbofuran	2.54	Spike	P	0 - 30
2390526	Aldicarb	24.5	Spike	P	0 - 30
2390526	Aldicarb Sulfone	10.9	Spike	P	0 - 30
2390526	Aldicarb Sulfoxide	4.58	Spike	P	0 - 30
2390526	Carbaryl	5.06	Spike	P	0 - 30
2390526	Carbofuran	0.168	Spike	P	0 - 30
2390526	Methiocarb	8.27	Spike	P	0 - 30
2390526	Methomyl	0.324	Spike	P	0 - 30
2390526	Oxamyl	7.60	Spike	P	0 - 30
2390526	Propoxur	12.5	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P426799

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391449	2,4-D	3.34	Spike	P	0 - 30
2391449	2,4,5-T	4.70	Spike	P	0 - 30
2391449	Acetaminophen	8.43	Spike	P	0 - 30
2391449	Acetamiprid	2.29	Spike	P	0 - 30
2391449	Afidopyropen	9.74	Spike	P	0 - 30
2391449	Bentazon	0.903	Spike	P	0 - 30
2391449	Benzovindiflupyr	5.12	Spike	P	0 - 30
2391449	Carbamazepine	11.1	Spike	P	0 - 30
2391449	Clothianidin	0.294	Spike	P	0 - 30
2391449	Dinotefuran	8.76	Spike	P	0 - 30
2391449	Diuron	5.34	Spike	P	0 - 30
2391449	Fenuron	3.69	Spike	P	0 - 30
2391449	Fluridone	4.23	Spike	P	0 - 30
2391449	Hydrocodone	2.17	Spike	P	0 - 30
2391449	Ibuprofen	20.3	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P426799

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391449	Imazapyr	5.39	Spike	P	0 - 30
2391449	Imidacloprid	1.07	Spike	P	0 - 30
2391449	Linuron	17.0	Spike	P	0 - 30
2391449	Mandestrobin	0.337	Spike	P	0 - 30
2391449	MCPP	0.464	Spike	P	0 - 30
2391449	Naproxen	16.1	Spike	P	0 - 30
2391449	Primidone	0.000304	Spike	P	0 - 30
2391449	Pyraclostrobin	3.09	Spike	P	0 - 30
2391449	Silvex	8.50	Spike	P	0 - 30
2391449	Thiamethoxam	0.136	Spike	P	0 - 30
2391449	Tolfenpyrad	8.48	Spike	P	0 - 30
2391449	Triclopyr	7.01	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P427035

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392889	Total Alkalinity	0.840	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P427176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390616	TDS	3.04	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P427162

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392889	Fluoride	0.467	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P426935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391264	Organic Carbon	0.394	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2391341
Field Sample ID: G4CE0224

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	59.6	P	30 - 160

Lab Sample ID: 2391342
Field Sample ID: G4CE0224

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	103	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.0	P	30 - 160
EPA 8321B	Diuron-d6	35.8	P	30 - 160
EPA 8321B	Endothall-d6	111	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	104	P	30 - 160
EPA 8321B	Ibuprofen-d3	81.5	P	30 - 160
EPA 8321B	Primidone-d5	87.7	P	30 - 160
EPA 8321B	Sucralose-d6	99.9	P	30 - 160

Lab Sample ID: 2391343
Field Sample ID: G4CE0224

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	68.0	P	29 - 130
EPA 8270E	Decachlorobiphenyl	53.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	45.7	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	43.7	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	37.0	P	30 - 101
EPA 8276	PCNB	57.5	P	48 - 121

Lab Sample ID: 2391344
Field Sample ID: G4CE0224

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	94.3	P	20 - 200
EPA 8270E	Simazine-d10	94.9	P	62 - 142
EPA 8270E	Terbufos-d10	92.0	P	58 - 132
EPA 8270E	Terphenyl-d14	116	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A117767

Included Lab Sample IDs: 2391337

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.7	98.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117768

Included Lab Sample IDs: 2391337

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

Reference Method: EPA 8321B

Run ID: A117818

Included Lab Sample IDs: 2391342

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	103	101	P/P	60 - 160
Sucralose	107	104	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117821

Included Lab Sample IDs: 2391338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A117822

Included Lab Sample IDs: 2391342

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	109	108	P/P	60 - 160
Endothall	105	104	P/P	60 - 160
Glufosinate	108	101	P/P	60 - 160
Glyphosate	101	110	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A117833

Included Lab Sample IDs: 2391337

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.4	95.5	P/P	90 - 110
Sulfate	100	98.7	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A117863

Included Lab Sample IDs: 2391341

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	93.0	92.6	P/P	60 - 150
Aldicarb	96.5	110	P/P	60 - 150
Aldicarb Sulfone	97.4	92.3	P/P	50 - 150
Aldicarb Sulfoxide	103	104	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A117863
Included Lab Sample IDs: 2391341

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbaryl	120	111	P/P	60 - 150
Carbofuran	101	107	P/P	50 - 150
Methiocarb	106	99.7	P/P	50 - 150
Methomyl	105	102	P/P	50 - 150
Oxamyl	99.0	99.7	P/P	50 - 150
Propoxur	107	108	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A117872
Included Lab Sample IDs: 2391338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A117885
Included Lab Sample IDs: 2391344

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.3		P	80 - 120
Avobenzene	98.3		P	80 - 120
Dechlorane 602	92.7		P	80 - 120
Dechlorane 603	95.4		P	80 - 120
Dechlorane Plus	103		P	80 - 120
Hexabromobenzene	93.0		P	80 - 120
Octinoxate	97.1		P	80 - 120
Oxybenzone	101		P	80 - 120
PBB-153	94.1		P	80 - 120
PBDE-47	97.7		P	80 - 120
PBDE-99	102		P	80 - 120
Pentabromotoluene	95.5		P	80 - 120
Tetradecachloro-m-terphenyl	106		P	80 - 120
Tri-o-cresyl Phosphate	97.7		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	95.7		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	96.2		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	94.4		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A117898
Included Lab Sample IDs: 2391338

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

Reference Method: EPA 8321B
Run ID: A117899
Included Lab Sample IDs: 2391342

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.6	95.2	P/P	50 - 150
2,4,5-T	87.4	91.5	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A117899
Included Lab Sample IDs: 2391342

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	106	106	P/P	60 - 160
Acetamiprid	101	103	P/P	50 - 150
Afidopyropen	103	73.8	P/P	50 - 150
Bentazon	127	135	P/P	50 - 160
Benzovindiflupyr	106	101	P/P	50 - 150
Carbamazepine	95.1	102	P/P	60 - 150
Clothianidin	98.1	110	P/P	60 - 150
Dinotefuran	93.1	100	P/P	50 - 150
Diuron	103	108	P/P	60 - 160
Fenuron	98.8	95.5	P/P	60 - 150
Fluridone	112	103	P/P	60 - 160
Hydrocodone	98.6	94.4	P/P	60 - 150
Ibuprofen	78.7	116	P/P	50 - 160
Imazapyr	96.2	97.4	P/P	50 - 150
Imidacloprid	101	98.4	P/P	60 - 150
Linuron	119	96.7	P/P	60 - 150
Mandestrobin	107	106	P/P	50 - 150
MCPP	107	101	P/P	50 - 150
Naproxen	114	106	P/P	50 - 160
Primidone	86.5	89.1	P/P	60 - 150
Pyraclostrobin	98.0	105	P/P	60 - 150
Silvex	99.2	96.5	P/P	50 - 150
Thiamethoxam	96.1	96.2	P/P	50 - 150
Tolfenpyrad	99.3	94.5	P/P	60 - 150
Triclopyr	91.4	91.4	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A117926
Included Lab Sample IDs: 2391343

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	103		P	80 - 120
PCB-1260	111		P	80 - 120

Reference Method: EPA 8276
Run ID: A117934
Included Lab Sample IDs: 2391343

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	92.7		P	80 - 120
Toxaphene	94.9		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A117936
Included Lab Sample IDs: 2391338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.0	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A117940
 Included Lab Sample IDs: 2391343

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.8		P	80 - 120
Alpha-BHC	99.7		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	106		P	80 - 120
Beta-Cyfluthrin	101		P	80 - 120
Bifenthrin	101		P	80 - 120
Chlorothalonil	118		P	80 - 120
Cis-Nonachlor	97.5		P	80 - 120
Cypermethrin	96.0		P	80 - 120
Dacthal	98.5		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	97.5		P	80 - 120
DDT-p,p'	98.7		P	80 - 120
Delta-BHC	108		P	80 - 120
Deltamethrin	101		P	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	99.6		P	80 - 120
Endosulfan I	95.7		P	80 - 120
Endosulfan II	109		P	80 - 120
Endosulfan Sulfate	101		P	80 - 120
Endrin	95.8		P	80 - 120
Endrin Aldehyde	90.9		P	80 - 120
Endrin Ketone	96.5		P	80 - 120
Esfenvalerate	102		P	80 - 120
Ethalfuralin	98.3		P	80 - 120
Fenpropathrin	101		P	80 - 120
Gamma-BHC	99.5		P	80 - 120
Gamma-Chlordane	97.1		P	80 - 120
Heptachlor	98.4		P	80 - 120
Heptachlor Epoxide	94.8		P	80 - 120
Hexachlorobenzene	94.5		P	80 - 120
Kepone	64.1*		F	80 - 120
Lambda-Cyhalothrin	100		P	80 - 120
Methoprene	97.6		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	96.2		P	80 - 120
Oxychlordane	97.8		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	99.4		P	80 - 120
Piperonyl Butoxide	103		P	80 - 120
Prallethrin	95.9		P	80 - 120
Tau-Fluvalinate	104		P	80 - 120
Tetramethrin	103		P	80 - 120
Trans-Nonachlor	95.9		P	80 - 120
Triclosan Methyl	96.6		P	80 - 120
Trifluralin	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011
 Run ID: A117948
 Included Lab Sample IDs: 2391337

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.0	96.8	P/P	90 - 110

Reference Method: EPA 8270E
 Run ID: A117951
 Included Lab Sample IDs: 2391344

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	108		P	80 - 120
Alachlor	115		P	80 - 120
Ametryn	112		P	80 - 120
Atrazine	96.2		P	80 - 120
Atrazine Desethyl	97.9		P	80 - 120
Azinphos Methyl	114		P	80 - 120
Azoxystrobin	101		P	80 - 120
Butylate	99.8		P	80 - 120
Caffeine	109		P	80 - 120
Carbophenothion	119		P	80 - 120
Carfentrazone Ethyl	119		P	80 - 120
Chlorfenapyr	102		P	80 - 120
Chlorpyrifos Ethyl	106		P	80 - 120
Chlorpyrifos Methyl	113		P	80 - 120
Coumaphos	107		P	80 - 120
Cyanazine	118		P	80 - 120
Cyprodinil	105		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	117		P	80 - 120
Difenoconazole	113		P	80 - 120
Dimethenamid	120		P	80 - 120
Dimethomorph	102		P	80 - 120
Disulfoton	108		P	80 - 120
Dithiopyr	114		P	80 - 120
EPTC	103		P	80 - 120
Ethion	108		P	80 - 120
Ethoprop	110		P	80 - 120
Etridiazole	110		P	80 - 120
Fenamiphos	110		P	80 - 120
Fenbuconazole	106		P	80 - 120
Fipronil	111		P	80 - 120
Fipronil Desulfinyl	113		P	80 - 120
Fipronil Sulfide	114		P	80 - 120
Fipronil Sulfone	111		P	80 - 120
Fluazifop-P-butyl	114		P	80 - 120
Fludioxonil	108		P	80 - 120
Flumioxazin	116		P	80 - 120
Flutolanil	105		P	80 - 120
Fluxapyroxad	110		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	94.7		P	80 - 120
Iprodione	113		P	80 - 120
Loratadine	92.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117951
Included Lab Sample IDs: 2391344

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Malathion	110		P	80 - 120
Metalaxyl	118		P	80 - 120
Metolachlor	115		P	80 - 120
Metribuzin	94.7		P	80 - 120
Mevinphos	106		P	80 - 120
Molinate	105		P	80 - 120
Myclobutanil	108		P	80 - 120
Naled	111		P	80 - 120
Napropamide	116		P	80 - 120
Oxadiazon	112		P	80 - 120
Oxyfluorfen	98.5		P	80 - 120
Parathion Ethyl	105		P	80 - 120
Parathion Methyl	117		P	80 - 120
Pendimethalin	119		P	80 - 120
Phenytoin	109		P	80 - 120
Phorate	94.8		P	80 - 120
Prodiamine	120		P	80 - 120
Prometon	95.1		P	80 - 120
Prometryn	104		P	80 - 120
Pronamide	109		P	80 - 120
Propanil	112		P	80 - 120
Propargite	114		P	80 - 120
Propiconazole	115		P	80 - 120
Pyraflufen Ethyl	114		P	80 - 120
Pyridaben	98.6		P	80 - 120
Pyriproxyfen	102		P	80 - 120
Simazine	103		P	80 - 120
Stirophos	112		P	80 - 120
Sulfentrazone	112		P	80 - 120
Tebuconazole	118		P	80 - 120
Terbufos	113		P	80 - 120
Terbuthylazine	102		P	80 - 120
Thiobencarb	114		P	80 - 120
Triadimefon	106		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A117978
Included Lab Sample IDs: 2391338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.8	99.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A117988
Included Lab Sample IDs: 2391337

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

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
Run ID: A118003
Included Lab Sample IDs: 2391344

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	115		P	80 - 120
Norflurazon	101		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	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	98.9				0.808	
EPA 180.1 Rev. 2.0	Turbidity	100				3.73	
EPA 300.0 Rev. 2.1	Chloride	97.2	97.0	95.8		0.715	
	Sulfate	101	96.1	98.6		1.01	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	97.6	102			3.19
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.4	95.5	93.6			1.55
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	99.8	99.8			0.0
EPA 365.1 Rev. 2.0	Total-P	98.3	101	98.0			2.70
EPA 8270E	2-Ethylhexyl	92.2	89.1	99.1			10.7
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	89.7	67.9	83.3			20.4
	Alachlor	70.9	66.0	67.3			1.93
	Aldrin	29.8	47.0	49.9			6.11
	Alpha-BHC	68.9	82.5	79.6			3.60
	Alpha-Chlordane	58.5	70.2	71.3			1.58
	Ametryn	92.2	88.3	94.5			6.81
	Atrazine	59.8	58.9	65.2			10.1
	Atrazine Desethyl	51.0	37.8	49.4			26.7
	Avobenzone	113	94.1	104			9.86
	Azinphos Methyl	194	150	162			7.81
	Azoxystrobin	77.7	51.6	57.2			10.3
	Beta-BHC	75.2	87.3	86.7			0.677
	Beta-Cyfluthrin	38.2	57.4	63.9			10.8
	Bifenthrin	29.1	47.9	56.0			15.5
	Bromacil	75.4	57.7	78.0			30.0
	Butylate	35.4	30.0	41.9			33.3
	Caffeine	90.7	65.3	98.7			39.4
	Carbophenothion	63.0	96.4	103			6.44
	Carfentrazone Ethyl	62.0	59.2	61.8			4.32
	Chlorfenapyr	60.5	52.9	57.9			8.91
	Chlorothalonil	69.5	54.1	58.7			8.10
	Chlorpyrifos Ethyl	75.9	57.6	67.0			15.0
	Chlorpyrifos Methyl	96.6	68.7	71.0			3.36
	Cis-Nonachlor	46.9	63.2	64.9			2.66
	Coumaphos	135	105	123			15.8
	Cyanazine	135	103	124			18.6
	Cypermethrin	39.4	57.2	63.2			10.0
	Cyprodinil	73.0	67.3	66.0			1.84
	Dacthal	80.5	85.2	86.3			1.27
	DDD-p,p'	54.2	67.8	72.4			6.57
	DDE-p,p'	48.5	66.9	70.3			4.90
	DDT-p,p'	44.8	64.5	65.0			0.794
	Dechlorane 602	97.8	65.6	71.1			7.93
	Dechlorane 603	96.4	60.4	66.3			9.18
	Dechlorane Plus	123	100	112			11.0
	Delta-BHC	78.1	83.8	79.9			4.72
	Deltamethrin	45.4	64.1	70.8			9.96
	Demeton	45.3	43.9	45.0			2.28
	Diazinon	91.3	102	126			20.8
	Dichlobenil	44.1	58.3	60.8			4.34
	Dicofol	56.3	68.8	67.6			1.74
	Dieldrin	59.4	74.1	76.6			2.61
	Difenoconazole	157	124	141			12.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Dimethenamid	77.6	54.5	69.6		24.3
	Dimethomorph	37.0	35.3	40.4		13.7
	Disulfoton	62.6	58.6	68.2		15.0
	Dithiopyr	69.5	58.8	62.1		5.44
	Endosulfan I	59.4	68.3	69.3		1.42
	Endosulfan II	71.7	73.8	81.5		10.0
	Endosulfan Sulfate	75.3	78.3	76.2		2.82
	Endrin	61.7	75.6	78.8		4.20
	Endrin Aldehyde	63.0	73.2	70.9		3.18
	Endrin Ketone	72.2	108	83.9		25.2
	EPTC	25.8	20.9	37.9		57.8
	Esfenvalerate	38.3	63.8	57.7		10.1
	Ethalfuralin	50.2	68.3	68.8		0.732
	Ethion	61.6	56.3	56.5		0.235
	Ethoprop	92.5	75.3	97.7		26.0
	Etridiazole	63.7	31.8	41.1		25.6
	Fenamiphos	89.3	63.7	78.0		20.2
	Fenbuconazole	113	106	119		11.0
	Fenpropathrin	40.4	63.1	60.8		3.60
	Fipronil	85.6	70.8	75.2		5.93
	Fipronil Desulfinyl	78.4	64.6	77.7		18.3
	Fipronil Sulfide	79.5	66.7	70.8		5.66
	Fipronil Sulfone	60.9	55.6	55.4		0.429
	Fluazifop-P-butyl	76.0	72.4	68.5		5.55
	Fludioxonil	80.7	75.6	83.9		10.4
	Flumioxazin	166	116	144		21.2
	Flutolanil	76.3	51.9	67.8		22.9
	Fluxapyroxad	42.8	52.9	46.2		13.6
	Fonofos	82.2	59.8	81.5		30.6
	Gamma-BHC	111	84.0	87.9		4.56
	Gamma-Chlordane	47.3	68.0	64.5		5.37
	Heptachlor	58.5	59.3	57.1		3.89
	Heptachlor Epoxide	71.6	75.2	75.0		0.358
	Hexabromobenzene	131	133	140		5.53
	Hexachlorobenzene	37.3	55.7	50.8		9.14
	Hexazinone	65.2	62.8	60.5		3.58
	Imazalil	49.8	37.2	41.0		9.85
	Iprodione	109	77.3	91.5		16.9
	Kepone	38.7	57.0	58.4		2.51
	Lambda-Cyhalothrin	32.6	58.6	51.4		13.1
	Loratadine	24.5	28.1	26.3		6.68
	Malathion	97.7	83.2	88.5		6.18
	Metalaxyl	88.0	55.5	70.3		20.6
	Methoprene	36.4	62.1	54.9		12.4
	Methoxychlor	61.5	73.4	74.6		1.65
	Metolachlor	65.6	58.6	74.0		17.8
	Metribuzin	41.2	64.7	67.1		3.78
	Mevinphos	81.1	62.0	83.8		30.0
	MGK-264	66.7	74.7	77.0		3.06
	Mirex	31.2	56.4	48.7		14.6
	Molinate	44.6	37.4	50.0		28.8
	Myclobutanil	69.3	66.4	71.8		7.77
	Naled	52.5	41.4	56.9		31.6
	Napropamide	62.5	45.8	49.7		8.33

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Norflurazon	76.3	61.3	76.7			22.4
	Octinoxate	97.4	86.6	99.0			13.3
	Oxadiazon	67.8	58.0	58.9			1.57
	Oxybenzone	96.5	84.3	99.4			16.5
	Oxychlordane	47.0	69.1	64.4			7.02
	Oxyfluorfen	71.9	65.2	70.5			7.82
	Parathion Ethyl	60.4	51.0	52.9			3.63
	Parathion Methyl	77.1	102	111			8.57
	PBB-153	124	92.0	101			9.05
	PBDE-47	85.7	81.2	89.3			9.53
	PBDE-99	81.4	78.3	85.4			8.72
	PCB-1016	67.0	59.3	47.8			22.2
	PCB-1260	66.7	57.0	44.8			24.5
	Pendimethalin	90.7	85.3	84.1			1.31
	Pentabromotoluene	125	123	133			7.46
	Permethrin	38.5	64.7	57.5			11.8
	Phenothrin	31.1	59.9	48.3			21.4
	Phenytoin	73.9	67.1	77.8			14.9
	Phorate	70.4	55.0	59.1			7.17
	Piperonyl Butoxide	70.4	77.0	78.2			1.51
	Prallethrin	53.7	64.4	64.2			0.390
	Prodiamine	74.7	63.3	68.7			8.20
	Prometon	82.6	87.5	77.8			11.7
	Prometryn	72.8	50.9	59.7			15.9
	Pronamide	85.4	67.0	85.2			23.9
	Propanil	56.9	50.2	57.0			12.6
	Propargite	57.0	49.1	51.8			5.33
	Propiconazole	60.4	53.1	69.2			26.4
	Pyraflufen Ethyl	72.4	59.8	78.8			27.4
	Pyridaben	94.5	68.3	65.8			3.70
	Pyriproxyfen	42.6	51.5	43.2			17.5
	Simazine	89.0	104	124			17.9
	Stirophos	91.5	73.3	72.6			0.922
	Sulfentrazone	107	89.8	109			19.2
	Tau-Fluvalinate	31.2	57.8	51.3			11.9
	Tebuconazole	69.0	65.4	71.4			8.71
	Terbufos	67.6	98.4	119			19.0
	Terbutylazine	75.6	54.6	70.6			25.5
	Tetradecachloro-m-terphenyl	153	108	113			4.74
	Tetramethrin	61.3	69.5	69.2			0.314
	Thiobencarb	69.2	56.9	66.4			15.4
	Trans-Nonachlor	45.6	67.2	64.6			3.95
	Tri-o-cresyl Phosphate	100	88.6	100			12.3
	Triadimefon	57.0	48.1	48.9			1.60
	Triclosan Methyl	59.4	75.1	73.7			1.87
	Trifluralin	46.4	70.0	70.0			0.0592
	Tris(1-chloro-2-propyl) phosphate (TCPP)	148	118	130			7.91
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	127	119	126			5.63
	Tris(2-chloroethyl) phosphate (TCEP)	134	127	143			11.6
EPA 8276	Chlordane	61.1	46.2	34.0			30.9
	Toxaphene	73.4	54.6	41.2			23.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	2,4-D	92.1	92.7	98.6			3.34
	2,4,5-T	91.9	102	106			4.70
	3-Hydroxycarbofuran	82.6	69.2	71.0			2.54
	Acesulfame K	97.8	123	126			2.32
	Acetaminophen	103	114	124			8.43
	Acetamiprid	68.8	71.4	69.8			2.29
	Afidopyropen	69.4	65.0	71.6			9.74
	Aldicarb	93.9	38.1	29.8			24.5
	Aldicarb Sulfone	94.7	78.5	87.6			10.9
	Aldicarb Sulfoxide	99.3	30.8	29.5			4.58
	AMPA	106	88.2	89.8			1.89
	Bentazon	110	124	122			0.903
	Benzovindiflupyr	84.7	84.7	89.1			5.12
	Carbamazepine	82.2	74.0	65.5			11.1
	Carbaryl	90.4	53.6	56.4			5.06
	Carbofuran	81.5	44.8	44.9			0.168
	Clothianidin	104	118	118			0.294
	Dinotefuran	80.1	109	99.7			8.76
	Diuron	78.8	68.7	72.7			5.34
	Endothall	96.7	106	106			0.705
	Fenuron	99.3	83.5	80.5			3.69
	Fluridone	84.7	79.6	83.0			4.23
	Glufosinate	105	102	100			1.67
	Glyphosate	95.9	96.2	111			14.3
	Hydrocodone	96.3	94.9	97.0			2.17
	Ibuprofen	84.1	72.8	89.2			20.3
	Imazapyr	91.8	89.0	83.0			5.39
	Imidacloprid	93.3	144	145			1.07
	Linuron	75.2	69.7	82.7			17.0
	Mandestrobin	90.7	88.1	87.8			0.337
	MCPP	90.5	96.8	97.3			0.464
	Methiocarb	79.2	63.2	58.2			8.27
	Methomyl	95.1	60.9	60.7			0.324
	Naproxen	94.5	106	90.0			16.1
	Oxamyl	91.3	72.8	78.5			7.60
	Primidone	94.5	98.7	98.7			0.0003
	Propoxur	82.7	35.6	40.4			12.5
	Pyraclostrobin	78.8	76.8	79.2			3.09
	Silvex	92.5	122	112			8.50
	Sucralose	98.4	96.8	98.6			1.75
	Thiamethoxam	92.0	101	101			0.136
	Tolfenpyrad	61.4	54.3	59.1			8.48
	Triclopyr	91.2	111	119			7.01
SM 2320 B-2011	Total Alkalinity	95.1				0.840	
SM 2540 C-2015	TDS	95.1				3.04	
SM 2540 D-2015	TSS	99.5					
SM 4500-F- C-2011	Fluoride	99.8	100	101			0.467
SM 5310 B-2011	Organic Carbon	96.8	96.4	97.0			0.394

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2391337

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2391337
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2391337
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2391337
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2391338
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2391338
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2391338
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2391338
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2391344
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2391343
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2391344
EPA 8270E	PCBs in water matrices by GC/MS/MS	2391343
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2391343
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2391341
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2391342
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2391337
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2391337
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2391337
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2391337
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2391338

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	03/02/2023			03/02/2023 15:41	Alexis Price	2391337
EPA 180.1 Rev. 2.0	03/02/2023			03/02/2023 14:45	Chandler E Cox	2391337
EPA 300.0 Rev. 2.1	03/02/2023			03/10/2023 12:01	Judith K. Clark	2391337
EPA 350.1 Rev. 2.0	03/02/2023			03/06/2023 12:46	Khloe J Berg	2391338
EPA 351.2 Rev. 2.0	03/02/2023	03/09/2023 14:00	Simonne.V. Calhoun	03/14/2023 12:34	Samantha L Bates	2391338
EPA 353.2 Rev. 2.0	03/02/2023			03/08/2023 10:44	Beverly Y. Sanders	2391338
EPA 365.1 Rev. 2.0	03/02/2023	03/08/2023 02:00	Alexis Price	03/10/2023 13:09	James L Waggeberby	2391338
EPA 8270E	03/02/2023	03/03/2023 09:00	Julie Wi	03/09/2023 01:21	Julie Wi	2391343
	03/02/2023	03/03/2023 09:00	Julie Wi	03/10/2023 02:31	Julie Wi	2391343
	03/02/2023	03/06/2023 08:00	Fe-Val Siddell	03/08/2023 20:38	Arthur Maknenko	2391344
	03/02/2023	03/06/2023 08:00	Fe-Val Siddell	03/09/2023 01:35	Michael Poppell	2391344
	03/02/2023	03/06/2023 08:00	Fe-Val Siddell	03/13/2023 20:08	Michael Poppell	2391344
	03/02/2023	03/06/2023 08:00	Fe-Val Siddell	03/13/2023 21:00	Michael Poppell	2391344
EPA 8276	03/02/2023	03/03/2023 09:00	Julie Wi	03/08/2023 12:16	Lipi Saha	2391343
EPA 8321B	03/02/2023	03/03/2023 08:00	Manjita Shrestha	03/03/2023 15:33	Manjita Shrestha	2391342
	03/02/2023	03/03/2023 08:00	Manjita Shrestha	03/04/2023 02:21	Manjita Shrestha	2391342
	03/02/2023	03/06/2023 09:00	Hoor Shaik	03/07/2023 17:41	Juyoung Kim	2391341
	03/02/2023	03/07/2023 09:00	Hoor Shaik	03/08/2023 18:07	Juyoung Kim	2391342
SM 2320 B-2011	03/02/2023			03/11/2023 07:22	Dale L. Simmons	2391337
SM 2540 C-2015	03/02/2023			03/03/2023 15:41	Yijie Li	2391337
SM 2540 D-2015	03/02/2023			03/03/2023 15:41	Yijie Li	2391337
SM 4500-F- C-2011	03/02/2023			03/14/2023 22:04	Dale L. Simmons	2391337
SM 5310 B-2011	03/02/2023			03/08/2023 23:41	Khloe J Berg	2391338