

Chemical Analysis Report

CEN-DIST-2022-09-20-01

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

Event Description: **Lakes: Effie, Isabell, Leonore**
Request ID: **RQ-2022-09-19-21**
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
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Certified by: Colin Wright, Program Administrator

Date Certified: 11-OCT-2022 08:37



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: Lake Effie @ Center

Collection Date/Time: 09/19/2022 13:32

Field ID: G3CE0036

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357530	DEP SOP: NU-094-1	Color (true)	120		PCU	P419859	
	EPA 180.1 Rev. 2.0	Turbidity	5.9		NTU	P419881	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P420090	
		Sulfate	7.4		mg SO4/L	P420095	
	SM 2320 B-2011	Total Alkalinity	86		mg CaCO3/L	P420276	
	SM 2540 C-2011	TDS	149		mg/L	P420294	
	SM 2540 D-2011	TSS	10		mg/L	P420239	
2357531	SM 4500-F- C-2011	Fluoride	0.067	I	mg F/L	P420215	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P420248	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P420074	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P420155	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P419948	
2357532	SM 5310 B-2011	Organic Carbon	16		mg C/L	P419945	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P419844	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Lake Leonore @ Center

Collection Date/Time: 09/19/2022 11:53

Field ID: G4CE0184

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357533	DEP SOP: NU-094-1	Color (true)	13	A	PCU	P419862	
	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P419881	
	EPA 300.0 Rev. 2.1	Chloride	23		mg Cl/L	P420090	
		Sulfate	45		mg SO4/L	P420095	
	SM 2320 B-2011	Total Alkalinity	54		mg CaCO3/L	P420277	
	SM 2540 C-2011	TDS	142		mg/L	P420294	
	SM 2540 D-2011	TSS	12		mg/L	P420239	
	SM 4500-F- C-2011	Fluoride	0.071	I	mg F/L	P420215	
2357534	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P420248	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P420073	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.26		mg N/L	P420155	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P419948	
	SM 5310 B-2011	Organic Carbon	5.9		mg C/L	P419945	
2357537	EPA 8321B	Aldicarb	0.020	U	ug/L	P420045	
		Aldicarb Sulfone	0.0020	U	ug/L	P420045	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P420045	
		Carbaryl	0.0020	U	ug/L	P420045	
		Carbofuran	0.0020	U	ug/L	P420045	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P420045	
		Methiocarb	0.0020	U	ug/L	P420045	
		Methomyl	0.0020	U	ug/L	P420045	
		Oxamyl	0.0020	U	ug/L	P420045	
		Propoxur	0.0020	U	ug/L	P420045	
		2,4-D	0.0057	I	ug/L	P419841	
		Acesulfame K	0.10	U	ug/L	P419829	
2357538		2,4,5-T	0.0040	U	ug/L	P419841	
		AMPA	0.10	U	ug/L	P419829	
		Acetaminophen	0.0080	U	ug/L	P419841	
		Acetamiprid	0.0020	U	ug/L	P419841	
		Endothall	0.25	U	ug/L	P419829	
		Glufosinate	0.10	U	ug/L	P419829	
		Glyphosate	0.10	U	ug/L	P419829	
		Afidopyropen	0.0020	U	ug/L	P419841	
		Bentazon	8.0E-04	U	ug/L	P419841	
		Sucralose	0.010	U	ug/L	P419829	
		Benzovindiflupyr	0.0020	U	ug/L	P419841	
		Carbamazepine	8.0E-04	U	ug/L	P419841	
		Clothianidin	0.022		ug/L	P419841	
		Dinotefuran	0.0020	U	ug/L	P419841	
		Diuron	0.0048	I	ug/L	P419841	
		Fenuron	0.016	U	ug/L	P419841	
		Fluridone	8.0E-04	U	ug/L	P419841	
		Imazapyr	0.0040	U	ug/L	P419841	
		Hydrocodone	0.0020	U	ug/L	P419841	
							MS

Field ID: G4CE0184

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357538	EPA 8321B	Ibuprofen	0.020	U	ug/L	P419841	
		Imidacloprid	0.084		ug/L	P419841	
		Linuron	0.0040	U	ug/L	P419841	
		Mandestrobin	0.0020	U	ug/L	P419841	
		MCP	0.0020	U	ug/L	P419841	
		Naproxen	0.0080	U	ug/L	P419841	
		Primidone	0.0040	U	ug/L	P419841	
		Pyraclostrobin	0.0020	U	ug/L	P419841	
		Silvex	0.0040	U	ug/L	P419841	
		Thiamethoxam	0.041		ug/L	P419841	
		Tolfenpyrad	0.0020	U	ug/L	P419841	
		Triclopyr	0.0040	U	ug/L	P419841	
2357539	EPA 8270E	Aldrin	0.66	U	ng/L	P419857	
		Alpha-BHC	0.10	U	ng/L	P419857	
		Alpha-Chlordane	0.20	U	ng/L	P419857	
		PCB-1016	2.0	U	ng/L	P419857	
		Beta-BHC	0.10	U	ng/L	P419857	
		PCB-1221	2.0	U	ng/L	P419857	
		Beta-Cyfluthrin	1.3	U	ng/L	P419857	
		PCB-1232	2.0	U	ng/L	P419857	
		Bifenthrin	0.51	U	ng/L	P419857	
		PCB-1242	2.0	U	ng/L	P419857	
		PCB-1248	2.0	U	ng/L	P419857	
		Chlorothalonil	1.3	U	ng/L	P419857	
		PCB-1254	2.0	U	ng/L	P419857	
		Cis-Nonachlor	0.20	U	ng/L	P419857	
		PCB-1260	2.0	U	ng/L	P419857	
		Cypermethrin	1.5	U	ng/L	P419857	
		Dacthal	0.15	U	ng/L	P419857	
		DDD-p,p'	0.26	U	ng/L	P419857	
		DDE-p,p'	0.20	U	ng/L	P419857	
		DDT-p,p'	0.26	U	ng/L	P419857	
		Delta-BHC	0.52	I	ng/L	P419857	
		Deltamethrin	1.3	U	ng/L	P419857	
		Dichlobenil	0.26	U	ng/L	P419857	
		Dicofol	1.3	U	ng/L	P419857	
		Dieldrin	0.41	U	ng/L	P419857	
		Endosulfan I	0.41	U	ng/L	P419857	
		Endosulfan II	0.41	U	ng/L	P419857	
		Endosulfan Sulfate	0.31	U	ng/L	P419857	
		Endrin	0.41	U	ng/L	P419857	
		Endrin Aldehyde	0.77	U	ng/L	P419857	
		Endrin Ketone	0.41	U	ng/L	P419857	
		Esfenvalerate	0.77	U	ng/L	P419857	
		Ethalfuralin	0.15	U	ng/L	P419857	

Field ID: G4CE0184

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357539	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P419857	
		Gamma-BHC	0.13	U	ng/L	P419857	
		Gamma-Chlordane	0.20	U	ng/L	P419857	
		Heptachlor	0.20	U	ng/L	P419857	
		Heptachlor Epoxide	0.26	U	ng/L	P419857	
		Hexachlorobenzene**	1.0	U	ng/L	P419857	
		Kepone	5.1	UJ	ng/L	P419857	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P419857	
		Methoprene	0.77	U	ng/L	P419857	
		Methoxychlor	0.31	U	ng/L	P419857	
		MGK-264	0.20	U	ng/L	P419857	
		Mirex	0.36	U	ng/L	P419857	
		Oxychlordane	0.31	U	ng/L	P419857	
		Permethrin	1.6	U	ng/L	P419857	
		Phenothrin	0.92	U	ng/L	P419857	
		Piperonyl Butoxide	0.15	U	ng/L	P419857	
		Prallethrin	2.0	U	ng/L	P419857	
		Tau-Fluvalinate	0.26	U	ng/L	P419857	
		Tetramethrin	0.77	U	ng/L	P419857	
		Trans-Nonachlor	0.20	U	ng/L	P419857	
		Triclosan Methyl	0.15	U	ng/L	P419857	
		Trifluralin	0.25	I	ng/L	P419857	
2357540	EPA 8276	Chlordane	2.6	U	ng/L	P419857	
	EPA 8270E	Toxaphene	15	U	ng/L	P419857	
		Oxybenzone**	9.5	U	ng/L	P419914	
		Acetochlor	0.24	U	ng/L	P419914	
		Octinoxate**	19	U	ng/L	P419914	MS
		Alachlor	0.24	U	ng/L	P419914	
		Avobenzone**	95	U	ng/L	P419914	
		Ametryn	0.57	U	ng/L	P419914	
		Atrazine	0.59	I	ng/L	P419914	
		PBDE-47**	3.8	U	ng/L	P419914	RPD
		Atrazine Desethyl	1.4	U	ng/L	P419914	
		PBDE-99**	4.7	U	ng/L	P419914	MS, RPD
		Azinphos Methyl	1.9	U	ng/L	P419914	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P419914	
		Azoxystrobin	0.47	U	ng/L	P419914	
		Bromacil	240		ng/L	P419914	
		2-Ethylhexyl	11	U	ng/L	P419914	MS, RPD
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	U	ng/L	P419914	
		Dechlorane Plus**	28	U	ng/L	P419914	MS, RPD
		Caffeine**	7.1	U	ng/L	P419914	
		Carbophenothion	0.19	U	ng/L	P419914	
		Carfentrazone Ethyl	0.095	U	ng/L	P419914	

Field ID: G4CE0184

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357540	EPA 8270E	Chlorfenapyr	0.17	U	ng/L	P419914	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P419914	
		Chlorpyrifos Methyl	0.047	U	ng/L	P419914	
		Coumaphos	0.47	U	ng/L	P419914	
		Cyanazine	3.1	U	ng/L	P419914	
		Cyprodinil	0.095	U	ng/L	P419914	
		Demeton	1.4	U	ng/L	P419914	
		Diazinon	0.12	U	ng/L	P419914	
		Difenoconazole	0.63	I	ng/L	P419914	
		Dimethenamid	0.095	U	ng/L	P419914	
		Dimethomorph	0.17	U	ng/L	P419914	MS, RPD
		Disulfoton	0.47	U	ng/L	P419914	
		Dithiopyr	0.17	U	ng/L	P419914	
		EPTC	1.2	U	ng/L	P419914	
		Ethion	0.14	U	ng/L	P419914	
		Ethoprop	0.095	U	ng/L	P419914	
		Etridiazole	0.14	U	ng/L	P419914	
		Fenamiphos	0.47	U	ng/L	P419914	
		Fenbuconazole	0.47	I	ng/L	P419914	
		Fipronil	0.24	U	ng/L	P419914	
		Fipronil Desulfinyl**	0.12	U	ng/L	P419914	
		Fipronil Sulfide	0.14	U	ng/L	P419914	
		Fipronil Sulfone	0.14	U	ng/L	P419914	
		Fluazifop-P-butyl	0.095	U	ng/L	P419914	
		Fludioxonil	0.12	U	ng/L	P419914	
		Flumioxazin	1.7	U	ng/L	P419914	
		Flutolanil	0.095	U	ng/L	P419914	
		Fluxapyroxad	0.095	U	ng/L	P419914	
		Fonofos	0.19	U	ng/L	P419914	
		Hexazinone	0.47	U	ng/L	P419914	
		Imazalil	0.71	U	ng/L	P419914	
		Iprodione	0.57	U	ng/L	P419914	
		Loratadine**	0.095	U	ng/L	P419914	MS, RPD
		Malathion	0.33	U	ng/L	P419914	
		Metalaxyl	85		ng/L	P419914	
		Metolachlor	0.33	U	ng/L	P419914	
		Metribuzin	2.4	U	ng/L	P419914	
		Mevinphos	1.0	U	ng/L	P419914	
		Molinate	0.28	U	ng/L	P419914	
		Myclobutanil	0.24	U	ng/L	P419914	
		Naled	1.4	U	ng/L	P419914	RPD
		Napropamide	0.38	U	ng/L	P419914	
		Norflurazon	430		ng/L	P419914	
		Oxadiazon	0.28	U	ng/L	P419914	
		Oxyfluorfen	0.14	U	ng/L	P419914	

Field ID: G4CE0184

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357540	EPA 8270E	Parathion Ethyl	0.24	U	ng/L	P419914	MS, RPD
		Parathion Methyl	0.52	U	ng/L	P419914	
		Pendimethalin	0.95	U	ng/L	P419914	
		Phenytion**	3.3	U	ng/L	P419914	
		Phorate	0.50	U	ng/L	P419914	
		Prodiamine	0.17	U	ng/L	P419914	
		Prometon	0.85	U	ng/L	P419914	
		Prometryn	0.19	U	ng/L	P419914	
		Pronamide	0.14	U	ng/L	P419914	
		Propanil	0.12	U	ng/L	P419914	
		Propargite	1.4	U	ng/L	P419914	
		Propiconazole	0.47	U	ng/L	P419914	
		Pyraflufen Ethyl	0.24	U	ng/L	P419914	
		Pyridaben	0.43	U	ng/L	P419914	
		Pyriproxyfen	0.12	U	ng/L	P419914	
		Simazine	0.47	U	ng/L	P419914	
		Stirophos	0.12	U	ng/L	P419914	
		Sulfentrazone	0.47	U	ng/L	P419914	
		Tebuconazole	0.47	U	ng/L	P419914	
		Terbufos	0.095	U	ng/L	P419914	
		Terbuthylazine	0.40	U	ng/L	P419914	
		Thiobencarb	0.57	U	ng/L	P419914	
		Triadimefon	0.24	U	ng/L	P419914	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8321B: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

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

EPA 8270E: MS accuracy for atrazine and myclobutanil not assessed due to high content of these parameters in the sample spiked.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P419859

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P419862

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419881

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420090

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420095

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420248

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420073

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420074

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420155

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: P419948

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P419844

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8270E

Batch ID: P419857

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
 Batch ID: P419857

Component	Result	Code	Units
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419857

Component	Result	Code	Units
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P419914

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419914

Component	Result	Code	Units
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419914

Component	Result	Code	Units
Flumioxazin	1.8	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	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P419914

Component	Result	Code	Units
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
Prodiatone	0.18	U	ng/L
Prodiatone	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
Pronatone	0.15	U	ng/L
Pronatone	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
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 8276
Batch ID: P419857

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P419829

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: P419841

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	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
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: P420045

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P420045

Component	Result	Code	Units
Propoxur	0.0020	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P420276

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

Reference Method: SM 2320 B-2011
Batch ID: P420277

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

Reference Method: SM 2540 C-2011
Batch ID: P420294

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P420239

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P420215

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P419945

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: P419859

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P419862

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419881

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420090

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420095

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420248

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420073

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420074

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420155

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P419948

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P419844

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.5		P	90 - 110

Reference Method: EPA 8270E

Batch ID: P419857

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	44.5		P	10 - 92.0
Alpha-BHC	90.5		P	75 - 107
Alpha-Chlordane	71.7		P	50 - 108
Beta-BHC	117		P	36 - 138
Beta-Cyfluthrin	85.9		P	20 - 161
Bifenthrin	78.7		P	10 - 119
Chlorothalonil	91.5		P	26 - 186
Cis-Nonachlor	67.3		P	42 - 119
Cypermethrin	87.1		P	22 - 150
Dacthal	88.5		P	72 - 119
DDD-p,p'	71.6		P	45 - 107
DDE-p,p'	72.4		P	48 - 106
DDT-p,p'	67.9		P	48 - 110
Delta-BHC	124		P	54 - 140
Deltamethrin	38.6		P	22 - 189
Dichlobenil	57.0		P	36 - 117
Dicofol	76.2		P	46 - 155
Dieldrin	73.5		P	54 - 110
Endosulfan I	73.8		P	59 - 105
Endosulfan II	82.5		P	51 - 118
Endosulfan Sulfate	89.4		P	57 - 121
Endrin	74.6		P	10 - 120
Endrin Aldehyde	77.5		P	34 - 118
Endrin Ketone	71.2		P	69 - 177
Esfenvalerate	82.4		P	23 - 168
Ethalfuralin	72.7		P	49 - 99.0
Fenpropathrin	78.7		P	34 - 117
Gamma-BHC	96.9		P	72 - 117
Gamma-Chlordane	72.8		P	43 - 106
Heptachlor	65.3		P	41 - 98.0
Heptachlor Epoxide	76.9		P	57 - 106
Hexachlorobenzene	72.5		P	36 - 99.0
Kepone	174		P	16 - 215
Lambda-Cyhalothrin	79.3		P	21 - 177
Methoprene	65.4		P	10 - 119
Methoxychlor	85.7		P	60 - 112
MGK-264	66.8		P	26 - 122
Mirex	59.4		P	10 - 169
Oxychlordane	70.5		P	43 - 105
PCB-1016	97.6		P	48 - 112

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P419857

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PCB-1260	91.2		P	44 - 118
Permethrin	82.2		P	24 - 148
Phenothrin	54.4		P	10 - 106
Piperonyl Butoxide	95.8		P	10 - 139
Prallethrin	58.7		P	17 - 109
Tau-Fluvalinate	75.9		P	13 - 131
Tetramethrin	95.4		P	10 - 132
Trans-Nonachlor	76.6		P	44 - 106
Triclosan Methyl	78.1		P	59 - 109
Trifluralin	75.0		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P419914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	130		P	50 - 150
Acetochlor	97.9		P	70 - 121
Alachlor	84.9		P	68 - 119
Ametryn	86.4		P	64 - 139
Atrazine	96.7		P	76 - 120
Atrazine Desethyl	69.5		P	44 - 126
Avobenzone	79.1		P	76 - 212
Azinphos Methyl	129		P	43 - 192
Azoxystrobin	110		P	36 - 224
Bromacil	86.7		P	52 - 121
Butylate	62.5		P	28 - 91.0
Caffeine	64.5		P	50 - 134
Carbophenothion	101		P	56 - 129
Carfentrazone Ethyl	101		P	60 - 141
Chlorfenapyr	96.6		P	56 - 115
Chlorpyrifos Ethyl	97.4		P	60 - 118
Chlorpyrifos Methyl	97.7		P	68 - 119
Coumaphos	101		P	18 - 250
Cyanazine	170		P	61 - 250
Cyprodinil	89.7		P	55 - 145
Dechlorane Plus	145		P	50 - 150
Demeton	80.1		P	30 - 159
Diazinon	94.3		P	70 - 123
Difenoconazole	124		P	49 - 204
Dimethenamid	79.5		P	64 - 115
Dimethomorph	107		P	12 - 219
Disulfoton	90.5		P	44 - 125
Dithiopyr	94.5		P	64 - 115
EPTC	59.3		P	28 - 86.0
Ethion	84.1		P	33 - 125
Ethoprop	87.9		P	64 - 116
Etridiazole	63.6		P	34 - 91.0
Fenamiphos	112		P	12 - 127
Fenbuconazole	96.3		P	59 - 151
Fipronil	88.2		P	67 - 129
Fipronil Desulfinyl	103		P	65 - 127
Fipronil Sulfide	77.6		P	61 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P419914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fipronil Sulfone	74.8		P	55 - 117
Fluazifop-P-butyl	98.1		P	62 - 127
Fludioxonil	86.8		P	62 - 128
Flumioxazin	129		P	33 - 250
Flutolanil	90.1		P	56 - 127
Fluxapyroxad	83.0		P	45 - 128
Fonofos	85.1		P	62 - 111
Hexazinone	93.7		P	46 - 139
Imazalil	76.5		P	38 - 142
Iprodione	91.2		P	47 - 135
Loratadine	110		P	10 - 244
Malathion	104		P	61 - 139
Metalaxyl	84.7		P	10 - 119
Metolachlor	91.5		P	65 - 118
Metribuzin	92.0		P	51 - 250
Mevinphos	78.3		P	53 - 121
Molinate	71.6		P	42 - 96.0
Myclobutanil	91.6		P	55 - 128
Naled	96.5		P	10 - 98.0
Napropamide	84.5		P	49 - 121
Norflurazon	86.3		P	61 - 126
Octinoxate	125		P	30 - 159
Oxadiazon	78.2		P	59 - 116
Oxybenzone	91.6		P	61 - 139
Oxyfluorfen	133		P	64 - 137
Parathion Ethyl	94.3		P	70 - 112
Parathion Methyl	105		P	76 - 133
PBDE-47	109		P	50 - 150
PBDE-99	124		P	50 - 150
Pendimethalin	81.6		P	52 - 117
Phenytol	24.4		P	10 - 199
Phorate	81.1		P	48 - 121
Prodiamine	67.9		P	26 - 142
Prometon	80.7		P	43 - 123
Prometryn	87.5		P	66 - 127
Pronamide	101		P	75 - 121
Propanil	80.5		P	45 - 150
Propargite	81.0		P	42 - 208
Propiconazole	89.6		P	60 - 125
Pyraflufen Ethyl	87.7		P	70 - 138
Pyridaben	102		P	35 - 245
Pyriproxyfen	87.0		P	30 - 149
Simazine	100		P	72 - 125
Stirophos	83.0		P	29 - 164
Sulfentrazone	88.0		P	21 - 139
Tebuconazole	59.6		P	10 - 115
Terbufos	108		P	60 - 123
Terbutylazine	90.8		P	72 - 115
Thiobencarb	85.6		P	31 - 139
Tri-o-cresyl Phosphate	112		P	50 - 150
Triadimefon	86.7		P	65 - 116

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P419857

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	77.1		P	61 - 116
Toxaphene	87.3		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P419829

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	104		P	40 - 150
AMPA	103		P	40 - 150
Endothall	90.7		P	40 - 150
Glufosinate	94.8		P	40 - 150
Glyphosate	94.1		P	40 - 150
Sucralose	100		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P419841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	71.6		P	30 - 160
2,4,5-T	65.9		P	30 - 160
Acetaminophen	99.5		P	30 - 150
Acetamiprid	86.2		P	30 - 160
Afidopyropen	71.1		P	30 - 160
Bentazon	90.7		P	30 - 150
Benzovindiflupyr	84.4		P	30 - 160
Carbamazepine	87.7		P	30 - 160
Clothianidin	98.6		P	30 - 160
Dinotefuran	105		P	30 - 160
Diuron	58.8		P	30 - 160
Fenuron	107		P	30 - 160
Fluridone	92.4		P	30 - 160
Hydrocodone	96.5		P	30 - 160
Ibuprofen	84.4		P	30 - 160
Imazapyr	91.7		P	30 - 160
Imidacloprid	93.3		P	30 - 160
Linuron	91.9		P	30 - 160
Mandestrobin	95.2		P	30 - 160
MCPP	78.9		P	30 - 160
Naproxen	81.2		P	30 - 160
Primidone	95.1		P	30 - 160
Pyraclostrobin	82.2		P	30 - 160
Silvex	61.4		P	30 - 160
Thiamethoxam	92.7		P	30 - 160
Tolfenpyrad	64.9		P	30 - 160
Triclopyr	64.4		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P420045

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	80.8		P	30 - 160
Aldicarb	44.6		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P420045

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldicarb Sulfone	92.1		P	30 - 160
Aldicarb Sulfoxide	58.9		P	30 - 160
Carbaryl	64.8		P	30 - 160
Carbofuran	63.7		P	30 - 160
Methiocarb	74.0		P	30 - 160
Methomyl	83.5		P	30 - 160
Oxamyl	80.2		P	30 - 160
Propoxur	58.8		P	30 - 160

Reference Method: SM 2320 B-2011
Batch ID: P420276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.7		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P420277

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P420215

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.9		P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419945

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420090

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357378	Chloride	105		P	90 - 110
2357457	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420095

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357378	Sulfate	102		P	90 - 110
2357457	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420248

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357534	Ammonia-N	99.8	99.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420155

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357472	NO2NO3-N	103	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357588	Total-P	103	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P419844

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357507	O-Phosphate-P	98.3	98.1	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P419857

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358753	Aldrin	54.5	49.8	P/P	20 - 82.0
2358753	Alpha-BHC	87.1	85.4	P/P	71 - 109
2358753	Alpha-Chlordane	79.9	71.3	P/P	42 - 106
2358753	Beta-BHC	110	124	P/P	69 - 180
2358753	Beta-Cyfluthrin	83.6	79.7	P/P	18 - 175
2358753	Bifenthrin	73.4	79.7	P/P	21 - 128
2358753	Chlorothalonil	80.4	73.3	P/P	10 - 300
2358753	Cis-Nonachlor	70.2	69.0	P/P	34 - 106
2358753	Cypermethrin	79.9	84.3	P/P	22 - 158
2358753	Dacthal	89.5	85.0	P/P	54 - 116
2358753	DDD-p,p'	74.7	71.5	P/P	34 - 107
2358753	DDE-p,p'	75.5	73.3	P/P	33 - 110
2358753	DDT-p,p'	68.8	69.3	P/P	50 - 122
2358753	Delta-BHC	109	125	P/P	77 - 193

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P419857

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358753	Deltamethrin	64.0	59.6	P/P	10 - 195
2358753	Dichlobenil	51.2	37.6	P/P	25 - 113
2358753	Dicofol	77.2	80.6	P/P	38 - 247
2358753	Dieldrin	78.5	73.0	P/P	45 - 118
2358753	Endosulfan I	79.5	73.8	P/P	51 - 106
2358753	Endosulfan II	79.4	75.6	P/P	37 - 122
2358753	Endosulfan Sulfate	83.1	83.6	P/P	43 - 132
2358753	Endrin	80.8	73.6	P/P	29 - 101
2358753	Endrin Aldehyde	73.5	52.3	P/P	19 - 110
2358753	Endrin Ketone	74.5	65.6	P/P	60 - 140
2358753	Esfenvalerate	71.7	79.8	P/P	26 - 199
2358753	Ethalfuralin	74.3	76.0	P/P	45 - 99.0
2358753	Fenpropathrin	71.5	74.7	P/P	35 - 120
2358753	Gamma-BHC	95.7	94.9	P/P	63 - 128
2358753	Gamma-Chlordane	83.5	77.9	P/P	40 - 104
2358753	Heptachlor	67.9	58.8	P/P	36 - 97.0
2358753	Heptachlor Epoxide	85.5	76.2	P/P	49 - 184
2358753	Hexachlorobenzene	71.7	69.5	P/P	39 - 96.0
2358753	Kepone	150	175	P/P	10 - 217
2358753	Lambda-Cyhalothrin	70.5	75.1	P/P	21 - 193
2358753	Methoprene	59.3	62.5	P/P	20 - 106
2358753	Methoxychlor	90.3	85.9	P/P	53 - 118
2358753	MGK-264	73.5	70.2	P/P	40 - 118
2358753	Mirex	67.7	63.7	P/P	26 - 92.0
2358753	Oxychlordane	73.1	72.8	P/P	44 - 99.0
2358753	Permethrin	78.5	81.9	P/P	33 - 182
2358753	Phenothrin	58.1	62.6	P/P	10 - 129
2358753	Piperonyl Butoxide	85.7	98.9	P/P	10 - 211
2358753	Prallethrin	64.7	63.6	P/P	24 - 113
2358753	Tau-Fluvalinate	65.2	75.6	P/P	14 - 149
2358753	Tetramethrin	109	111	P/P	17 - 151
2358753	Trans-Nonachlor	84.6	73.7	P/P	42 - 102
2358753	Triclosan Methyl	76.3	77.3	P/P	48 - 108
2358753	Trifluralin	74.5	75.3	P/P	47 - 96.0
2358766	PCB-1016	94.1	92.5	P/P	46 - 111
2358766	PCB-1260	85.0	81.1	P/P	45 - 114

Reference Method: EPA 8270E

Batch ID: P419914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358210	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	170	125	F/P	50 - 150
2358210	Acetochlor	92.9	103	P/P	65 - 124
2358210	Alachlor	72.1	88.9	P/P	61 - 121
2358210	Ametryn	99.1	120	P/P	52 - 216
2358210	Atrazine Desethyl	73.6	55.3	P/P	15 - 160
2358210	Avobenzone	85.0	70.4	P/P	59 - 206
2358210	Azinphos Methyl	113	114	P/P	40 - 292
2358210	Azoxystrobin	91.6	124	P/P	12 - 242
2358210	Bromacil	74.6	86.6	P/P	54 - 167
2358210	Butylate	43.2	48.7	P/P	14 - 94.0
2358210	Caffeine	74.3	70.6	P/P	10 - 226

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P419914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358210	Carbophenothion	82.7	95.6	P/P	49 - 122
2358210	Carfentrazone Ethyl	79.0	93.4	P/P	53 - 138
2358210	Chlorfenapyr	66.8	79.0	P/P	50 - 150
2358210	Chlorpyrifos Ethyl	82.8	92.4	P/P	52 - 122
2358210	Chlorpyrifos Methyl	82.4	91.7	P/P	66 - 117
2358210	Coumaphos	77.5	84.6	P/P	50 - 220
2358210	Cyanazine	151	166	P/P	43 - 245
2358210	Cyprodinil	69.8	88.9	P/P	50 - 150
2358210	Dechlorane Plus	165	121	F/P	50 - 150
2358210	Demeton	89.4	93.0	P/P	43 - 188
2358210	Diazinon	92.6	107	P/P	69 - 131
2358210	Difenoconazole	94.4	90.5	P/P	34 - 231
2358210	Dimethenamid	74.3	80.5	P/P	55 - 118
2358210	Dimethomorph	118	181	P/F	50 - 150
2358210	Disulfoton	73.6	76.8	P/P	38 - 141
2358210	Dithiopyr	76.8	97.2	P/P	42 - 116
2358210	EPTC	48.1	51.2	P/P	18 - 85.0
2358210	Ethion	72.6	61.1	P/P	10 - 131
2358210	Ethoprop	86.8	92.0	P/P	65 - 129
2358210	Etridiazole	55.8	53.9	P/P	50 - 150
2358210	Fenamiphos	82.8	93.3	P/P	31 - 137
2358210	Fenbuconazole	79.4	89.0	P/P	57 - 160
2358210	Fipronil	81.3	99.4	P/P	62 - 132
2358210	Fipronil Desulfanyl	85.6	103	P/P	57 - 131
2358210	Fipronil Sulfide	68.0	90.7	P/P	15 - 138
2358210	Fipronil Sulfone	54.9	87.5	P/P	21 - 134
2358210	Fluazifop-P-butyl	81.1	98.0	P/P	54 - 133
2358210	Fludioxonil	83.4	95.1	P/P	58 - 127
2358210	Flumioxazin	116	121	P/P	33 - 300
2358210	Flutolanil	70.3	84.6	P/P	42 - 130
2358210	Fluxapyroxad	66.3	65.2	P/P	23 - 141
2358210	Fonofos	73.4	83.8	P/P	58 - 119
2358210	Hexazinone	93.0	89.6	P/P	68 - 172
2358210	Imazalil	85.8	77.8	P/P	48 - 283
2358210	Iprodione	73.8	85.2	P/P	38 - 140
2358210	Loratadine	115	198	P/F	50 - 150
2358210	Malathion	85.8	94.9	P/P	40 - 137
2358210	Metalaxyl	75.6	85.4	P/P	21 - 129
2358210	Metolachlor	83.9	94.4	P/P	55 - 122
2358210	Metribuzin	96.0	101	P/P	38 - 187
2358210	Mevinphos	72.9	82.9	P/P	54 - 134
2358210	Molinate	64.4	64.2	P/P	41 - 97.0
2358210	Naled	35.4	103	P/P	10 - 108
2358210	Napropamide	61.4	72.2	P/P	50 - 150
2358210	Norflurazon	72.0	83.2	P/P	32 - 122
2358210	Octinoxate	194	146	F/P	25 - 150
2358210	Oxadiazon	70.5	78.9	P/P	40 - 119
2358210	Oxybenzone	126	101	P/P	59 - 147
2358210	Oxyfluorfen	127	133	P/P	61 - 153
2358210	Parathion Ethyl	92.6	89.0	P/P	59 - 130
2358210	Parathion Methyl	117	107	P/P	65 - 155
2358210	PBDE-47	143	98.6	P/P	50 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P419914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358210	PBDE-99	158	107	F/P	50 - 150
2358210	Pendimethalin	81.5	83.0	P/P	49 - 138
2358210	Phenytoin	32.9	17.9	F/F	50 - 200
2358210	Phorate	74.1	75.4	P/P	54 - 161
2358210	Prodiamine	59.5	82.8	P/P	33 - 161
2358210	Prometon	70.7	66.2	P/P	48 - 140
2358210	Prometryn	75.5	85.8	P/P	55 - 134
2358210	Pronamide	83.4	91.6	P/P	66 - 137
2358210	Propanil	74.0	81.8	P/P	50 - 150
2358210	Propargite	51.1	51.5	P/P	50 - 200
2358210	Propiconazole	68.2	86.9	P/P	36 - 150
2358210	Pyraflufen Ethyl	62.3	74.5	P/P	50 - 150
2358210	Pyridaben	62.3	79.4	P/P	50 - 200
2358210	Pyriproxyfen	87.1	73.5	P/P	10 - 165
2358210	Simazine	92.8	103	P/P	57 - 145
2358210	Stirophos	54.2	59.3	P/P	50 - 150
2358210	Sulfentrazone	71.3	87.7	P/P	34 - 140
2358210	Tebuconazole	45.2	37.4	P/P	10 - 127
2358210	Terbufos	103	112	P/P	59 - 138
2358210	Terbutylazine	88.1	95.0	P/P	68 - 119
2358210	Thiobencarb	67.3	80.5	P/P	50 - 150
2358210	Tri-o-cresyl Phosphate	145	111	P/P	50 - 150
2358210	Triadimefon	80.0	93.0	P/P	50 - 150

Reference Method: EPA 8276

Batch ID: P419857

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2358766	Chlordane	72.1	80.6	P/P	53 - 126
2358766	Toxaphene	83.9	97.7	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P419829

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357422	Acesulfame K	72.8	72.3	P/P	40 - 150
2357422	AMPA	82.2	81.7	P/P	40 - 150
2357422	Endothall	159	153	F/F	40 - 150
2357422	Glufosinate	68.7	68.8	P/P	40 - 150
2357422	Glyphosate	90.2	96.1	P/P	40 - 150
2357422	Sucralose	97.2	101	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P419841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356890	2,4-D	97.8	107	P/P	30 - 160
2356890	2,4,5-T	86.4	83.7	P/P	30 - 160
2356890	Acetaminophen	119	119	P/P	30 - 150
2356890	Acetamiprid	60.8	60.4	P/P	30 - 160
2356890	Afidopyropen	89.0	82.7	P/P	30 - 160
2356890	Benzovindiflupyr	79.8	79.4	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P419841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356890	Carbamazepine	69.7	70.2	P/P	30 - 160
2356890	Clothianidin	111	119	P/P	30 - 160
2356890	Dinotefuran	114	116	P/P	30 - 160
2356890	Diuron	51.9	50.9	P/P	30 - 160
2356890	Fenuron	96.6	94.4	P/P	30 - 160
2356890	Fluridone	96.5	88.1	P/P	30 - 160
2356890	Hydrocodone	100	101	P/P	30 - 160
2356890	Ibuprofen	81.4	92.6	P/P	30 - 160
2356890	Linuron	78.6	73.5	P/P	30 - 160
2356890	Mandestrobin	91.4	97.4	P/P	30 - 160
2356890	MCP	89.3	96.1	P/P	30 - 160
2356890	Naproxen	102	95.2	P/P	30 - 160
2356890	Primidone	103	120	P/P	30 - 160
2356890	Pyraclostrobin	91.0	91.2	P/P	30 - 160
2356890	Silvex	85.6	89.3	P/P	30 - 160
2356890	Thiamethoxam	140	141	P/P	30 - 160
2356890	Tolfenpyrad	64.7	67.5	P/P	30 - 160
2356890	Triclopyr	79.8	94.7	P/P	30 - 160

Reference Method: EPA 8321B

Batch ID: P420045

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357537	3-Hydroxycarbofuran	91.7	86.8	P/P	30 - 160
2357537	Aldicarb	37.4	42.1	P/P	30 - 150
2357537	Aldicarb Sulfone	107	102	P/P	30 - 160
2357537	Aldicarb Sulfoxide	33.1	30.1	P/P	30 - 160
2357537	Carbaryl	62.8	60.7	P/P	30 - 160
2357537	Carbofuran	56.6	56.6	P/P	30 - 160
2357537	Methiocarb	80.7	79.9	P/P	30 - 160
2357537	Methomyl	80.8	78.9	P/P	30 - 160
2357537	Oxamyl	84.4	81.1	P/P	30 - 160
2357537	Propoxur	57.6	53.6	P/P	30 - 160

Reference Method: SM 4500-F- C-2011

Batch ID: P420215

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357236	Fluoride	100	99.8	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P419945

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357534	Organic Carbon	97.9	97.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P419859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357471	Color (true)	1.67	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P419862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357533	Color (true)	6.24	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419881

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357375	Turbidity	4.92	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420090

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357378	Chloride	0.473	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420095

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357378	Sulfate	0.755	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420248

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357534	Ammonia-N	0.551	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357731	Kjeldahl Nitrogen	2.49	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420074

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357445	Kjeldahl Nitrogen	12.5	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P420155

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357472	NO2NO3-N	1.32	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P419948

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357588	Total-P	2.52	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P419844

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357507	O-Phosphate-P	0.204	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P419857

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358753	Aldrin	8.98	Spike	P	0 - 41
2358753	Alpha-BHC	2.04	Spike	P	0 - 25
2358753	Alpha-Chlordane	11.4	Spike	P	0 - 33
2358753	Beta-BHC	12.1	Spike	P	0 - 36
2358753	Beta-Cyfluthrin	4.71	Spike	P	0 - 42
2358753	Bifenthrin	8.21	Spike	P	0 - 53
2358753	Chlorothalonil	9.16	Spike	P	0 - 71
2358753	Cis-Nonachlor	1.63	Spike	P	0 - 29
2358753	Cypermethrin	5.29	Spike	P	0 - 40
2358753	Dacthal	5.12	Spike	P	0 - 26
2358753	DDD-p,p'	4.38	Spike	P	0 - 39
2358753	DDE-p,p'	2.96	Spike	P	0 - 33
2358753	DDT-p,p'	0.703	Spike	P	0 - 40
2358753	Delta-BHC	13.8	Spike	P	0 - 37
2358753	Deltamethrin	7.01	Spike	P	0 - 100
2358753	Dichlobenil	30.8	Spike	P	0 - 40
2358753	Dicofol	4.34	Spike	P	0 - 31
2358753	Dieldrin	5.20	Spike	P	0 - 27
2358753	Endosulfan I	7.48	Spike	P	0 - 23
2358753	Endosulfan II	4.84	Spike	P	0 - 28
2358753	Endosulfan Sulfate	0.484	Spike	P	0 - 38
2358753	Endrin	9.37	Spike	P	0 - 63
2358753	Endrin Aldehyde	33.6	Spike	P	0 - 60
2358753	Endrin Ketone	12.6	Spike	P	0 - 37
2358753	Esfenvalerate	10.8	Spike	P	0 - 52
2358753	Ethalfuralin	2.38	Spike	P	0 - 23
2358753	Fenpropathrin	4.36	Spike	P	0 - 32
2358753	Gamma-BHC	0.869	Spike	P	0 - 17
2358753	Gamma-Chlordane	7.04	Spike	P	0 - 40
2358753	Heptachlor	14.3	Spike	P	0 - 29

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P419857

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358753	Heptachlor Epoxide	10.1	Spike	P	0 - 25
2358753	Hexachlorobenzene	3.11	Spike	P	0 - 36
2358753	Kepone	15.2	Spike	P	0 - 93
2358753	Lambda-Cyhalothrin	6.23	Spike	P	0 - 55
2358753	Methoprene	5.27	Spike	P	0 - 53
2358753	Methoxychlor	5.01	Spike	P	0 - 29
2358753	MGK-264	4.50	Spike	P	0 - 35
2358753	Mirex	6.08	Spike	P	0 - 46
2358753	Oxychlordane	0.358	Spike	P	0 - 29
2358753	Permethrin	4.26	Spike	P	0 - 44
2358753	Phenothrin	7.53	Spike	P	0 - 56
2358753	Piperonyl Butoxide	14.3	Spike	P	0 - 100
2358753	Prallethrin	1.67	Spike	P	0 - 42
2358753	Tau-Fluvalinate	14.7	Spike	P	0 - 54
2358753	Tetramethrin	1.92	Spike	P	0 - 51
2358753	Trans-Nonachlor	13.9	Spike	P	0 - 37
2358753	Triclosan Methyl	1.32	Spike	P	0 - 31
2358753	Trifluralin	1.09	Spike	P	0 - 30
2358766	PCB-1016	1.69	Spike	P	0 - 32
2358766	PCB-1260	4.73	Spike	P	0 - 31

Reference Method: EPA 8270E

Batch ID: P419914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358210	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	30.1	Spike	F	0 - 30
2358210	Acetochlor	10.7	Spike	P	0 - 27
2358210	Alachlor	20.9	Spike	P	0 - 27
2358210	Ametryn	19.0	Spike	P	0 - 34
2358210	Atrazine	2.97	Spike	P	0 - 41
2358210	Atrazine Desethyl	15.6	Spike	P	0 - 38
2358210	Avobenzene	18.8	Spike	P	0 - 30
2358210	Azinphos Methyl	1.03	Spike	P	0 - 62
2358210	Azoxystrobin	17.6	Spike	P	0 - 32
2358210	Bromacil	14.8	Spike	P	0 - 30
2358210	Butylate	12.1	Spike	P	0 - 59
2358210	Caffeine	4.66	Spike	P	0 - 60
2358210	Carbophenothion	14.5	Spike	P	0 - 25
2358210	Carfentrazone Ethyl	16.7	Spike	P	0 - 26
2358210	Chlorfenapyr	16.8	Spike	P	0 - 30
2358210	Chlorpyrifos Ethyl	10.9	Spike	P	0 - 27
2358210	Chlorpyrifos Methyl	10.6	Spike	P	0 - 26
2358210	Coumaphos	8.75	Spike	P	0 - 30
2358210	Cyanazine	8.98	Spike	P	0 - 58
2358210	Cyprodinil	24.1	Spike	P	0 - 30
2358210	Dechlorane Plus	31.3	Spike	F	0 - 30
2358210	Demeton	3.94	Spike	P	0 - 25
2358210	Diazinon	14.6	Spike	P	0 - 29
2358210	Difenoconazole	4.22	Spike	P	0 - 25
2358210	Dimethenamid	7.89	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P419914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358210	Dimethomorph	42.4	Spike	F	0 - 30
2358210	Disulfoton	4.20	Spike	P	0 - 33
2358210	Dithiopyr	21.5	Spike	P	0 - 22
2358210	EPTC	6.29	Spike	P	0 - 38
2358210	Ethion	17.2	Spike	P	0 - 79
2358210	Ethoprop	5.80	Spike	P	0 - 23
2358210	Etridiazole	3.52	Spike	P	0 - 30
2358210	Fenamiphos	11.8	Spike	P	0 - 58
2358210	Fenbuconazole	11.5	Spike	P	0 - 37
2358210	Fipronil	19.9	Spike	P	0 - 33
2358210	Fipronil Desulfanyl	16.0	Spike	P	0 - 26
2358210	Fipronil Sulfide	24.9	Spike	P	0 - 37
2358210	Fipronil Sulfone	28.6	Spike	P	0 - 50
2358210	Fluazifop-P-butyl	18.9	Spike	P	0 - 24
2358210	Fludioxonil	13.2	Spike	P	0 - 26
2358210	Flumioxazin	3.40	Spike	P	0 - 37
2358210	Flutolanil	15.8	Spike	P	0 - 26
2358210	Fluxapyroxad	1.66	Spike	P	0 - 34
2358210	Fonofos	13.2	Spike	P	0 - 27
2358210	Hexazinone	3.76	Spike	P	0 - 36
2358210	Imazalil	9.76	Spike	P	0 - 65
2358210	Iprodione	14.3	Spike	P	0 - 33
2358210	Loratadine	53.3	Spike	F	0 - 30
2358210	Malathion	10.2	Spike	P	0 - 44
2358210	Metalaxyl	10.5	Spike	P	0 - 38
2358210	Metolachlor	11.8	Spike	P	0 - 36
2358210	Metribuzin	4.92	Spike	P	0 - 63
2358210	Mevinphos	12.9	Spike	P	0 - 26
2358210	Molinate	0.316	Spike	P	0 - 40
2358210	Myclobutanil	6.60	Spike	P	0 - 21
2358210	Naled	97.7	Spike	F	0 - 26
2358210	Napropamide	16.1	Spike	P	0 - 30
2358210	Norflurazon	14.5	Spike	P	0 - 24
2358210	Octinoxate	27.8	Spike	P	0 - 30
2358210	Oxadiazon	11.2	Spike	P	0 - 27
2358210	Oxybenzone	21.9	Spike	P	0 - 30
2358210	Oxyfluorfen	4.97	Spike	P	0 - 24
2358210	Parathion Ethyl	4.05	Spike	P	0 - 28
2358210	Parathion Methyl	8.28	Spike	P	0 - 27
2358210	PBDE-47	36.5	Spike	F	0 - 30
2358210	PBDE-99	38.1	Spike	F	0 - 30
2358210	Pendimethalin	1.90	Spike	P	0 - 31
2358210	Phenytoin	59.0	Spike	F	0 - 30
2358210	Phorate	1.62	Spike	P	0 - 27
2358210	Prodiamine	32.7	Spike	P	0 - 52
2358210	Prometon	6.63	Spike	P	0 - 31
2358210	Prometryn	12.7	Spike	P	0 - 28
2358210	Pronamide	9.41	Spike	P	0 - 26
2358210	Propanil	10.0	Spike	P	0 - 30
2358210	Propargite	0.770	Spike	P	0 - 30
2358210	Propiconazole	15.0	Spike	P	0 - 31

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P419914

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358210	Pyraflufen Ethyl	17.9	Spike	P	0 - 30
2358210	Pyridaben	20.1	Spike	P	0 - 30
2358210	Pyriproxyfen	16.9	Spike	P	0 - 50
2358210	Simazine	10.5	Spike	P	0 - 29
2358210	Stirophos	9.02	Spike	P	0 - 30
2358210	Sulfentrazone	19.1	Spike	P	0 - 33
2358210	Tebuconazole	15.4	Spike	P	0 - 44
2358210	Terbufos	7.63	Spike	P	0 - 29
2358210	Terbuthylazine	7.55	Spike	P	0 - 27
2358210	Thiobencarb	17.8	Spike	P	0 - 30
2358210	Tri-o-cresyl Phosphate	27.1	Spike	P	0 - 30
2358210	Triadimefon	15.1	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P419857

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2358766	Chlordane	11.2	Spike	P	0 - 25
2358766	Toxaphene	15.2	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P419829

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357422	Acesulfame K	0.742	Spike	P	0 - 30
2357422	AMPA	0.595	Spike	P	0 - 30
2357422	Endothall	3.89	Spike	P	0 - 30
2357422	Glufosinate	0.111	Spike	P	0 - 30
2357422	Glyphosate	6.25	Spike	P	0 - 30
2357422	Sucralose	3.99	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P419841

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356890	2,4-D	6.97	Spike	P	0 - 30
2356890	2,4,5-T	3.17	Spike	P	0 - 30
2356890	Acetaminophen	0.0925	Spike	P	0 - 30
2356890	Acetamiprid	0.694	Spike	P	0 - 30
2356890	Afidopyropen	7.44	Spike	P	0 - 30
2356890	Bentazon	1.63	Spike	P	0 - 30
2356890	Benzovindiflupyr	0.440	Spike	P	0 - 30
2356890	Carbamazepine	0.686	Spike	P	0 - 30
2356890	Clothianidin	6.91	Spike	P	0 - 30
2356890	Dinotefuran	0.974	Spike	P	0 - 30
2356890	Diuron	1.96	Spike	P	0 - 30
2356890	Fenuron	2.20	Spike	P	0 - 30
2356890	Fluridone	7.75	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P419841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356890	Hydrocodone	0.537	Spike	P	0 - 30
2356890	Ibuprofen	12.9	Spike	P	0 - 30
2356890	Imazapyr	3.93	Spike	P	0 - 30
2356890	Imidacloprid	0.550	Spike	P	0 - 30
2356890	Linuron	6.80	Spike	P	0 - 30
2356890	Mandestrobin	6.27	Spike	P	0 - 30
2356890	MCP	7.32	Spike	P	0 - 30
2356890	Naproxen	7.02	Spike	P	0 - 30
2356890	Primidone	15.9	Spike	P	0 - 30
2356890	Pyraclostrobin	0.318	Spike	P	0 - 30
2356890	Silvex	4.30	Spike	P	0 - 30
2356890	Thiamethoxam	0.00712	Spike	P	0 - 30
2356890	Tolfenpyrad	4.15	Spike	P	0 - 30
2356890	Triclopyr	17.1	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P420045

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357537	3-Hydroxycarbofuran	5.46	Spike	P	0 - 30
2357537	Aldicarb	11.9	Spike	P	0 - 30
2357537	Aldicarb Sulfone	4.51	Spike	P	0 - 30
2357537	Aldicarb Sulfoxide	9.64	Spike	P	0 - 30
2357537	Carbaryl	3.34	Spike	P	0 - 30
2357537	Carbofuran	0.0422	Spike	P	0 - 30
2357537	Methiocarb	1.05	Spike	P	0 - 30
2357537	Methomyl	2.40	Spike	P	0 - 30
2357537	Oxamyl	3.98	Spike	P	0 - 30
2357537	Propoxur	7.12	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P420276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357377	Total Alkalinity	1.48	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011

Batch ID: P420277

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357608	Total Alkalinity	0.499	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011

Batch ID: P420294

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357471	TDS	1.47	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P420215

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357236	Fluoride	0.479	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P419945

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357534	Organic Carbon	0.512	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2357537
Field Sample ID: G4CE0184

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	54.6	P	30 - 160

Lab Sample ID: 2357538
Field Sample ID: G4CE0184

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	88.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	114	P	30 - 160
EPA 8321B	Carbamazepine-d10	68.0	P	30 - 160
EPA 8321B	Diuron-d6	68.8	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	102	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	102	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.1	P	30 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Sucralose-d6	95.0	P	30 - 160

Lab Sample ID: 2357539
Field Sample ID: G4CE0184

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	72.8	P	29 - 130
EPA 8270E	Decachlorobiphenyl	52.1	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	55.8	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	59.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	47.4	P	30 - 101
EPA 8276	PCNB	88.2	P	48 - 121

Lab Sample ID: 2357540
Field Sample ID: G4CE0184

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	68.7	P	20 - 200
EPA 8270E	Simazine-d10	111	P	71 - 140
EPA 8270E	Terbufos-d10	118	P	62 - 131
EPA 8270E	Terphenyl-d14	80.1	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A114827

Included Lab Sample IDs: 2357532

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.2	99.1	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A114831

Included Lab Sample IDs: 2357530, 2357533

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	103	P/P	90 - 110
Color (true)	103	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114837

Included Lab Sample IDs: 2357530, 2357533

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A114857

Included Lab Sample IDs: 2357530, 2357533

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

Reference Method: EPA 8321B

Run ID: A114858

Included Lab Sample IDs: 2357538

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	105	113	P/P	60 - 160
Endothall	95.2	98.8	P/P	60 - 160
Glufosinate	95.0	95.8	P/P	60 - 160
Glyphosate	99.3	107	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A114868

Included Lab Sample IDs: 2357531, 2357534

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.9	95.4	P/P	90 - 110
Organic Carbon	95.4	96.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114873

Included Lab Sample IDs: 2357538

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	113	112	P/P	60 - 160
Sucralose	103	101	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114913

Included Lab Sample IDs: 2357531

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.1	99.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114916

Included Lab Sample IDs: 2357538

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	111	89.8	P/P	50 - 150
2,4,5-T	112	95.9	P/P	50 - 150
Acetaminophen	110	109	P/P	60 - 160
Acetamiprid	103	102	P/P	50 - 150
Afidopyropen	112	116	P/P	50 - 150
Bentazon	99.2	113	P/P	50 - 160
Benzovindiflupyr	119	118	P/P	50 - 160
Carbamazepine	107	110	P/P	60 - 150
Clothianidin	104	110	P/P	60 - 150
Dinotefuran	112	113	P/P	50 - 150
Diuron	113	110	P/P	60 - 160
Fenuron	106	105	P/P	60 - 150
Fluridone	110	107	P/P	60 - 160
Hydrocodone	117	111	P/P	60 - 150
Ibuprofen	142	112	P/P	50 - 160
Imazapyr	99.0	106	P/P	50 - 150
Imidacloprid	100	105	P/P	60 - 150
Linuron	109	115	P/P	60 - 150
Mandestrobin	111	112	P/P	50 - 150
MCPP	101	99.2	P/P	50 - 150
Naproxen	86.5	79.4	P/P	50 - 160
Primidone	106	111	P/P	60 - 150
Pyraclostrobin	109	107	P/P	60 - 150
Silvex	104	104	P/P	50 - 150
Thiamethoxam	111	109	P/P	50 - 150
Tolfenpyrad	118	107	P/P	60 - 150
Triclopyr	106	116	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114921

Included Lab Sample IDs: 2357534

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	95.2	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114957

Included Lab Sample IDs: 2357531, 2357534

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A114971

Included Lab Sample IDs: 2357539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	93.0		P	80 - 120
Toxaphene	106		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114974

Included Lab Sample IDs: 2357531, 2357534

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	108	P/P	90 - 110
Kjeldahl Nitrogen	109	104	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114976

Included Lab Sample IDs: 2357539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	100		P	80 - 120
Alpha-BHC	98.8		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	109		P	80 - 120
Beta-Cyfluthrin	98.3		P	80 - 120
Bifenthrin	118		P	80 - 120
Chlorothalonil	108		P	80 - 120
Cis-Nonachlor	100		P	80 - 120
Cypermethrin	101		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	99.1		P	80 - 120
Delta-BHC	99.7		P	80 - 120
Deltamethrin	111		P	80 - 120
Dichlobenil	112		P	80 - 120
Dicofol	96.4		P	80 - 120
Dieldrin	99.5		P	80 - 120
Endosulfan I	96.2		P	80 - 120
Endosulfan II	93.2		P	80 - 120
Endosulfan Sulfate	97.4		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	97.8		P	80 - 120
Endrin Ketone	114		P	80 - 120
Esfenvalerate	94.8		P	80 - 120
Ethalfuralin	96.8		P	80 - 120
Fenpropathrin	97.3		P	80 - 120
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	99.4		P	80 - 120
Heptachlor Epoxide	99.7		P	80 - 120
Hexachlorobenzene	104		P	80 - 120
Kepone	76.9*		F	80 - 120
Lambda-Cyhalothrin	98.9		P	80 - 120
Methoprene	96.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114976
Included Lab Sample IDs: 2357539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoxychlor	107		P	80 - 120
MGK-264	93.8		P	80 - 120
Mirex	99.3		P	80 - 120
Oxychlordane	98.9		P	80 - 120
Permethrin	99.0		P	80 - 120
Phenothrin	98.1		P	80 - 120
Piperonyl Butoxide	83.1		P	80 - 120
Prallethrin	96.6		P	80 - 120
Tau-Fluvalinate	98.6		P	80 - 120
Tetramethrin	116		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	100		P	80 - 120
Trifluralin	103		P	80 - 120

Reference Method: SM 4500-F- C-2011
Run ID: A114980
Included Lab Sample IDs: 2357530, 2357533

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	97.1	P/P	90 - 110
Fluoride	97.1	100	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A114983
Included Lab Sample IDs: 2357537

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	101	103	P/P	60 - 150
Aldicarb	85.9	124	P/P	60 - 150
Aldicarb Sulfone	114	117	P/P	50 - 150
Aldicarb Sulfoxide	119	109	P/P	50 - 150
Carbaryl	91.6	99.8	P/P	60 - 150
Carbofuran	100	98.6	P/P	50 - 150
Methiocarb	114	85.4	P/P	50 - 150
Methomyl	106	108	P/P	50 - 150
Oxamyl	105	106	P/P	50 - 150
Propoxur	105	99.8	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A114988
Included Lab Sample IDs: 2357540

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.9		P	80 - 120
Alachlor	93.6		P	80 - 120
Ametryn	95.4		P	80 - 120
Atrazine	103		P	80 - 120
Atrazine Desethyl	100		P	80 - 120
Azinphos Methyl	94.5		P	80 - 120
Azoxystrobin	98.2		P	80 - 120
Butylate	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114988
Included Lab Sample IDs: 2357540

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Caffeine	87.3		P	80 - 120
Carbophenothion	96.9		P	80 - 120
Carfentrazone Ethyl	90.9		P	80 - 120
Chlorfenapyr	94.1		P	80 - 120
Chlorpyrifos Ethyl	98.8		P	80 - 120
Chlorpyrifos Methyl	105		P	80 - 120
Coumaphos	97.6		P	80 - 120
Cyanazine	89.6		P	80 - 120
Cyprodinil	90.2		P	80 - 120
Demeton	97.1		P	80 - 120
Diazinon	95.1		P	80 - 120
Difenoconazole	94.9		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	96.8		P	80 - 120
Disulfoton	91.7		P	80 - 120
Dithiopyr	99.1		P	80 - 120
EPTC	98.6		P	80 - 120
Ethion	94.7		P	80 - 120
Ethoprop	96.9		P	80 - 120
Etridiazole	93.5		P	80 - 120
Fenamiphos	106		P	80 - 120
Fenbuconazole	99.8		P	80 - 120
Fipronil	93.8		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	90.9		P	80 - 120
Fipronil Sulfone	89.2		P	80 - 120
Fluazifop-P-butyl	92.4		P	80 - 120
Fludioxonil	93.6		P	80 - 120
Flumioxazin	89.8		P	80 - 120
Flutolanil	98.5		P	80 - 120
Fluxapyroxad	93.5		P	80 - 120
Fonofos	98.8		P	80 - 120
Hexazinone	98.9		P	80 - 120
Imazalil	92.5		P	80 - 120
Iprodione	90.4		P	80 - 120
Loratadine	98.9		P	80 - 120
Malathion	102		P	80 - 120
Metolachlor	94.1		P	80 - 120
Metribuzin	96.4		P	80 - 120
Mevinphos	102		P	80 - 120
Molinate	98.0		P	80 - 120
Myclobutanil	93.2		P	80 - 120
Naled	116		P	80 - 120
Napropamide	97.3		P	80 - 120
Oxadiazon	92.7		P	80 - 120
Oxyfluorfen	88.8		P	80 - 120
Parathion Ethyl	99.2		P	80 - 120
Parathion Methyl	107		P	80 - 120
Pendimethalin	99.2		P	80 - 120
Phenytoin	98.1		P	80 - 120
Phorate	97.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114988
Included Lab Sample IDs: 2357540

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prodiamine	84.2		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	98.1		P	80 - 120
Propanil	92.8		P	80 - 120
Propargite	95.7		P	80 - 120
Propiconazole	102		P	80 - 120
Pyraflufen Ethyl	95.4		P	80 - 120
Pyridaben	90.7		P	80 - 120
Pyriproxyfen	94.9		P	80 - 120
Simazine	99.9		P	80 - 120
Stirophos	101		P	80 - 120
Sulfentrazone	100		P	80 - 120
Tebuconazole	94.9		P	80 - 120
Terbufos	98.8		P	80 - 120
Terbutylazine	98.6		P	80 - 120
Thiobencarb	96.7		P	80 - 120
Triadimefon	92.1		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A114997
Included Lab Sample IDs: 2357531, 2357534

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

Reference Method: SM 2320 B-2011
Run ID: A115007
Included Lab Sample IDs: 2357530, 2357533

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	97.2	P/P	90 - 110
Total Alkalinity	98.5	101	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A115014
Included Lab Sample IDs: 2357539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.3		P	80 - 120
PCB-1260	97.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A115061
Included Lab Sample IDs: 2357540

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	89.4		P	80 - 120
Metalaxyl	94.9		P	80 - 120
Norflurazon	111		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A115073
Included Lab Sample IDs: 2357540

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.0		P	80 - 120
Avobenzone	95.3		P	80 - 120
Dechlorane Plus	96.4		P	80 - 120
Octinoxate	95.6		P	80 - 120
Oxybenzone	94.3		P	80 - 120
PBDE-47	96.5		P	80 - 120
PBDE-99	97.1		P	80 - 120
Tri-o-cresyl Phosphate	96.5		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)	100				1.67	
	Color (true)	102				6.24	
EPA 180.1 Rev. 2.0	Turbidity	100				4.92	
EPA 300.0 Rev. 2.1	Chloride	105	105	102		0.473	
	Sulfate	104	102	101		0.755	
EPA 350.1 Rev. 2.0	Ammonia-N	96.8	99.8	99.2			0.551
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102					2.49
	Kjeldahl Nitrogen	107					12.5
EPA 353.2 Rev. 2.0	NO2NO3-N	103	103	105			1.32
EPA 365.1 Rev. 2.0	Total-P	104	103	106			2.52
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.5	98.3	98.1			0.204
EPA 8270E	2-Ethylhexyl	130	170	125			30.1
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	97.9	92.9	103			10.7
	Alachlor	84.9	72.1	88.9			20.9
	Aldrin	44.5	54.5	49.8			8.98
	Alpha-BHC	90.5	87.1	85.4			2.04
	Alpha-Chlordane	71.7	79.9	71.3			11.4
	Ametryn	86.4	99.1	120			19.0
	Atrazine	96.7					2.97
	Atrazine Desethyl	69.5	73.6	55.3			15.6
	Avobenzone	79.1	85.0	70.4			18.8
	Azinphos Methyl	129	113	114			1.03
	Azoxystrobin	110	91.6	124			17.6
	Beta-BHC	117	110	124			12.1
	Beta-Cyfluthrin	85.9	83.6	79.7			4.71
	Bifenthrin	78.7	73.4	79.7			8.21
	Bromacil	86.7	74.6	86.6			14.8
	Butylate	62.5	43.2	48.7			12.1
	Caffeine	64.5	74.3	70.6			4.66
	Carbophenothion	101	82.7	95.6			14.5
	Carfentrazone Ethyl	101	79.0	93.4			16.7
	Chlorfenapyr	96.6	66.8	79.0			16.8
	Chlorothalonil	91.5	80.4	73.3			9.16
	Chlorpyrifos Ethyl	97.4	82.8	92.4			10.9
	Chlorpyrifos Methyl	97.7	82.4	91.7			10.6
	Cis-Nonachlor	67.3	70.2	69.0			1.63
	Coumaphos	101	77.5	84.6			8.75
	Cyanazine	170	151	166			8.98
	Cypermethrin	87.1	79.9	84.3			5.29
	Cyprodinil	89.7	69.8	88.9			24.1
	Dacthal	88.5	89.5	85.0			5.12
	DDD-p,p'	71.6	74.7	71.5			4.38
	DDE-p,p'	72.4	75.5	73.3			2.96
	DDT-p,p'	67.9	68.8	69.3			0.703
	Dechlorane Plus	145	165	121			31.3
	Delta-BHC	124	109	125			13.8
	Deltamethrin	38.6	64.0	59.6			7.01
	Demeton	80.1	89.4	93.0			3.94
	Diazinon	94.3	92.6	107			14.6
	Dichlobenil	57.0	51.2	37.6			30.8
	Dicofol	76.2	77.2	80.6			4.34
	Dieldrin	73.5	78.5	73.0			5.20

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Difenoconazole	124	94.4	90.5			4.22
	Dimethenamid	79.5	74.3	80.5			7.89
	Dimethomorph	107	118	181			42.4
	Disulfoton	90.5	73.6	76.8			4.20
	Dithiopyr	94.5	76.8	97.2			21.5
	Endosulfan I	73.8	79.5	73.8			7.48
	Endosulfan II	82.5	79.4	75.6			4.84
	Endosulfan Sulfate	89.4	83.1	83.6			0.484
	Endrin	74.6	80.8	73.6			9.37
	Endrin Aldehyde	77.5	73.5	52.3			33.6
	Endrin Ketone	71.2	74.5	65.6			12.6
	EPTC	59.3	48.1	51.2			6.29
	Esfenvalerate	82.4	71.7	79.8			10.8
	Ethalfuralin	72.7	74.3	76.0			2.38
	Ethion	84.1	72.6	61.1			17.2
	Ethoprop	87.9	86.8	92.0			5.80
	Etridiazole	63.6	55.8	53.9			3.52
	Fenamiphos	112	82.8	93.3			11.8
	Fenbuconazole	96.3	79.4	89.0			11.5
	Fenpropathrin	78.7	71.5	74.7			4.36
	Fipronil	88.2	81.3	99.4			19.9
	Fipronil Desulfinyl	103	85.6	103			16.0
	Fipronil Sulfide	77.6	68.0	90.7			24.9
	Fipronil Sulfone	74.8	54.9	87.5			28.6
	Fluazifop-P-butyl	98.1	81.1	98.0			18.9
	Fludioxonil	86.8	83.4	95.1			13.2
	Flumioxazin	129	116	121			3.40
	Flutolanil	90.1	70.3	84.6			15.8
	Fluxapyroxad	83.0	66.3	65.2			1.66
	Fonofos	85.1	73.4	83.8			13.2
	Gamma-BHC	96.9	95.7	94.9			0.869
	Gamma-Chlordane	72.8	83.5	77.9			7.04
	Heptachlor	65.3	67.9	58.8			14.3
	Heptachlor Epoxide	76.9	85.5	76.2			10.1
	Hexachlorobenzene	72.5	71.7	69.5			3.11
	Hexazinone	93.7	93.0	89.6			3.76
	Imazalil	76.5	85.8	77.8			9.76
	Iprodione	91.2	73.8	85.2			14.3
	Kepone	174	150	175			15.2
	Lambda-Cyhalothrin	79.3	70.5	75.1			6.23
	Loratadine	110	115	198			53.3
	Malathion	104	85.8	94.9			10.2
	Metalaxyl	84.7	75.6	85.4			10.5
	Methoprene	65.4	59.3	62.5			5.27
	Methoxychlor	85.7	90.3	85.9			5.01
	Metolachlor	91.5	83.9	94.4			11.8
	Metribuzin	92.0	96.0	101			4.92
	Mevinphos	78.3	72.9	82.9			12.9
	MGK-264	66.8	73.5	70.2			4.50
	Mirex	59.4	67.7	63.7			6.08
	Molinate	71.6	64.4	64.2			0.316
	Myclobutanil	91.6					6.60
	Naled	96.5	35.4	103			97.7
	Napropamide	84.5	61.4	72.2			16.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Norflurazon	86.3	72.0	83.2		14.5
	Octinoxate	125	194	146		27.8
	Oxadiazon	78.2	70.5	78.9		11.2
	Oxybenzone	91.6	126	101		21.9
	Oxychlordane	70.5	73.1	72.8		0.358
	Oxyfluorfen	133	127	133		4.97
	Parathion Ethyl	94.3	92.6	89.0		4.05
	Parathion Methyl	105	117	107		8.28
	PBDE-47	109	143	98.6		36.5
	PBDE-99	124	158	107		38.1
	PCB-1016	97.6	94.1	92.5		1.69
	PCB-1260	91.2	85.0	81.1		4.73
	Pendimethalin	81.6	81.5	83.0		1.90
	Permethrin	82.2	78.5	81.9		4.26
	Phenothrin	54.4	58.1	62.6		7.53
	Phenytoin	24.4	32.9	17.9		59.0
	Phorate	81.1	74.1	75.4		1.62
	Piperonyl Butoxide	95.8	85.7	98.9		14.3
	Prallethrin	58.7	64.7	63.6		1.67
	Prodiamine	67.9	59.5	82.8		32.7
	Prometon	80.7	70.7	66.2		6.63
	Prometryn	87.5	75.5	85.8		12.7
	Pronamide	101	83.4	91.6		9.41
	Propanil	80.5	74.0	81.8		10.0
	Propargite	81.0	51.1	51.5		0.770
	Propiconazole	89.6	68.2	86.9		15.0
	Pyraflufen Ethyl	87.7	62.3	74.5		17.9
	Pyridaben	102	62.3	79.4		20.1
	Pyriproxyfen	87.0	87.1	73.5		16.9
	Simazine	100	92.8	103		10.5
	Stirophos	83.0	54.2	59.3		9.02
	Sulfentrazone	88.0	71.3	87.7		19.1
	Tau-Fluvalinate	75.9	65.2	75.6		14.7
	Tebuconazole	59.6	45.2	37.4		15.4
	Terbufos	108	103	112		7.63
	Terbutylazine	90.8	88.1	95.0		7.55
	Tetramethrin	95.4	109	111		1.92
	Thiobencarb	85.6	67.3	80.5		17.8
	Trans-Nonachlor	76.6	84.6	73.7		13.9
	Tri-o-cresyl Phosphate	112	145	111		27.1
	Triadimefon	86.7	80.0	93.0		15.1
	Triclosan Methyl	78.1	76.3	77.3		1.32
	Trifluralin	75.0	74.5	75.3		1.09
EPA 8276	Chlordane	77.1	72.1	80.6		11.2
	Toxaphene	87.3	83.9	97.7		15.2
EPA 8321B	2,4-D	71.6	97.8	107		6.97
	2,4,5-T	65.9	86.4	83.7		3.17
	3-Hydroxycarbofuran	80.8	91.7	86.8		5.46
	Acesulfame K	104	72.8	72.3		0.742
	Acetaminophen	99.5	119	119		0.0925
	Acetamiprid	86.2	60.8	60.4		0.694
	Afidopyropen	71.1	89.0	82.7		7.44
	Aldicarb	44.6	37.4	42.1		11.9
	Aldicarb Sulfone	92.1	107	102		4.51

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Aldicarb Sulfoxide	58.9	33.1	30.1			9.64
	AMPA	103	82.2	81.7			0.595
	Bentazon	90.7					1.63
	Benzovindiflupyr	84.4	79.8	79.4			0.440
	Carbamazepine	87.7	69.7	70.2			0.686
	Carbaryl	64.8	62.8	60.7			3.34
	Carbofuran	63.7	56.6	56.6			0.0422
	Clothianidin	98.6	111	119			6.91
	Dinotefuran	105	114	116			0.974
	Diuron	58.8	51.9	50.9			1.96
	Endothall	90.7	159	153			3.89
	Fenuron	107	96.6	94.4			2.20
	Fluridone	92.4	96.5	88.1			7.75
	Glufosinate	94.8	68.7	68.8			0.111
	Glyphosate	94.1	90.2	96.1			6.25
	Hydrocodone	96.5	100	101			0.537
	Ibuprofen	84.4	81.4	92.6			12.9
	Imazapyr	91.7					3.93
	Imidacloprid	93.3					0.550
	Linuron	91.9	78.6	73.5			6.80
	Mandestrobin	95.2	91.4	97.4			6.27
	MCPPP	78.9	89.3	96.1			7.32
	Methiocarb	74.0	80.7	79.9			1.05
	Methomyl	83.5	80.8	78.9			2.40
	Naproxen	81.2	102	95.2			7.02
	Oxamyl	80.2	84.4	81.1			3.98
	Primidone	95.1	103	120			15.9
	Propoxur	58.8	57.6	53.6			7.12
	Pyraclostrobin	82.2	91.0	91.2			0.318
	Silvex	61.4	85.6	89.3			4.30
	Sucralose	100	97.2	101			3.99
	Thiamethoxam	92.7	140	141			0.0071
	Tolfenpyrad	64.9	64.7	67.5			4.15
	Triclopyr	64.4	79.8	94.7			17.1
SM 2320 B-2011	Total Alkalinity	95.7				1.48	
	Total Alkalinity	101				0.499	
SM 2540 C-2011	TDS					1.47	
SM 4500-F- C-2011	Fluoride	99.9	100	99.8			0.479
SM 5310 B-2011	Organic Carbon	96.6	97.9	97.3			0.512

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2357530, 2357533
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2357530, 2357533
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2357530, 2357533
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2357530, 2357533
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2357531, 2357534
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2357531, 2357534
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2357531, 2357534
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2357531, 2357534
EPA 365.1 Rev. 2.0	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2357532
dissolved		

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2357540
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2357539
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2357540
EPA 8270E	PCBs in water matrices by GC/MS/MS	2357539
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2357539
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2357537
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2357538
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2357530, 2357533
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2357530, 2357533
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2357530, 2357533
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2357530, 2357533
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2357531, 2357534

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	09/20/2022			09/20/2022 15:03	Anna M. Plaviak	2357530
	09/20/2022			09/20/2022 15:24	Anna M. Plaviak	2357533
EPA 180.1 Rev. 2.0	09/20/2022			09/20/2022 13:38	Chandler E Cox	2357530
	09/20/2022			09/20/2022 13:39	Chandler E Cox	2357533
EPA 300.0 Rev. 2.1	09/20/2022			09/23/2022 15:09	Anna M. Plaviak	2357530
	09/20/2022			09/23/2022 15:24	Anna M. Plaviak	2357533
EPA 350.1 Rev. 2.0	09/20/2022			09/28/2022 13:14	Ping Hua	2357534
	09/20/2022			09/28/2022 13:19	Ping Hua	2357531
EPA 351.2 Rev. 2.0	09/20/2022	09/26/2022 10:38	Alexandra J Mattheus	09/27/2022 10:49	Alexandra J Mattheus	2357534
	09/20/2022	09/26/2022 10:38	Alexandra J Mattheus	09/27/2022 11:22	Alexandra J Mattheus	2357531
EPA 353.2 Rev. 2.0	09/20/2022			09/27/2022 10:57	Judith K. Clark	2357531
	09/20/2022			09/27/2022 10:58	Judith K. Clark	2357534
EPA 365.1 Rev. 2.0	09/20/2022	09/22/2022 14:19	Adam P Silver	09/22/2022 19:00	Simonne.V. Calhoun	2357531
	09/20/2022	09/22/2022 14:19	Adam P Silver	09/23/2022 14:40	James L Waggeberby	2357534
EPA 365.1 Rev. 2.0 dissolved	09/20/2022			09/20/2022 14:29	Elise M. Gillis	2357532
EPA 8270E	09/20/2022	09/22/2022 10:00	Rasheda Ghaffari	09/25/2022 23:57	Michael Poppell	2357540
	09/20/2022	09/22/2022 10:00	Rasheda Ghaffari	09/30/2022 17:45	Michael Poppell	2357540
	09/20/2022	09/22/2022 10:00	Rasheda Ghaffari	09/30/2022 18:13	Michael Poppell	2357540
	09/20/2022	09/22/2022 10:00	Rasheda Ghaffari	09/30/2022 19:49	Lipi Saha	2357540
	09/20/2022	09/23/2022 08:00	Fe-Val Siddell	09/26/2022 23:31	Julie Wi	2357539
	09/20/2022	09/23/2022 08:00	Fe-Val Siddell	09/27/2022 17:36	Vandana T. Nagar	2357539
EPA 8276	09/20/2022	09/23/2022 08:00	Fe-Val Siddell	09/27/2022 12:40	Arthur Maknenko	2357539
EPA 8321B	09/20/2022	09/21/2022 08:45	June Rhew	09/22/2022 21:56	Juyoung Kim	2357538
	09/20/2022	09/21/2022 11:00	Umesh Chiluwal	09/21/2022 12:08	Umesh Chiluwal	2357538
	09/20/2022	09/21/2022 11:00	Umesh Chiluwal	09/21/2022 19:28	Umesh Chiluwal	2357538
	09/20/2022	09/26/2022 09:00	June Rhew	09/27/2022 21:27	Juyoung Kim	2357537
SM 2320 B-2011	09/20/2022			09/29/2022 00:40	Adam P Silver	2357530
	09/20/2022			09/29/2022 01:43	Adam P Silver	2357533
SM 2540 C-2011	09/20/2022			09/21/2022 15:39	Yijie Li	2357530, 2357533
SM 2540 D-2011	09/20/2022			09/21/2022 15:39	Yijie Li	2357530, 2357533
SM 4500-F- C-2011	09/20/2022			09/28/2022 01:15	Adam P Silver	2357533
	09/20/2022			09/28/2022 04:47	Adam P Silver	2357530
SM 5310 B-2011	09/20/2022			09/21/2022 23:19	Khloe J Berg	2357534
	09/20/2022			09/22/2022 02:27	Khloe J Berg	2357531