Chemical Analysis Report

SO-DIST-2022-08-30-01

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

Event Description: **2022 SMP: DeSoto Cricks**
Request ID: **RQ-2022-08-29-23**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
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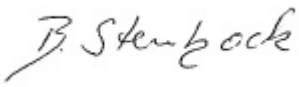
Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 20-SEP-2022 13:25



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: BRANDY BRANCH @ SR 70 **Collection Date/Time: 08/29/2022 09:35**

Field ID: G3SD0083 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353003	DEP SOP: NU-094-1	Color (true)	270		PCU	P418891	
	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P418880	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P419469	
		Sulfate	150		mg SO4/L	P419742	
	SM 2320 B-2011	Total Alkalinity	28		mg CaCO3/L	P419278	
	SM 2540 C-2011	TDS	353		mg/L	P419427	
	SM 2540 D-2011	TSS	5	I	mg/L	P419317	
	SM 4500-F- C-2011	Fluoride	0.31		mg F/L	P419281	
2353004	EPA 350.1 Rev. 2.0	Ammonia-N	0.029		mg N/L	P419068	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P418961	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.24		mg N/L	P419058	
	EPA 365.1 Rev. 2.0	Total-P	0.53		mg P/L	P418987	
	SM 5310 B-2011	Organic Carbon	27		mg C/L	P419185	
2353016	EPA 8321B	Aldicarb	0.020	U	ug/L	P418942	
		Aldicarb Sulfone	0.0020	U	ug/L	P418942	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P418942	
		Carbaryl	0.0020	U	ug/L	P418942	
		Carbofuran	0.0020	U	ug/L	P418942	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P418942	
		Methiocarb	0.0020	U	ug/L	P418942	
		Methomyl	0.0020	U	ug/L	P418942	
		Oxamyl	0.0020	U	ug/L	P418942	
		Propoxur	0.0020	U	ug/L	P418942	
2353017		2,4-D	0.13		ug/L	P418839	
		Acesulfame K	0.10	U	ug/L	P418802	
		2,4,5-T	0.0040	U	ug/L	P418839	
		AMPA	0.48		ug/L	P418802	
		Acetaminophen	0.0080	U	ug/L	P418839	
		Acetamiprid	0.0020	U	ug/L	P418839	
		Endothall	0.25	U	ug/L	P418802	
		Glufosinate	0.10	U	ug/L	P418802	
		Glyphosate	0.61		ug/L	P418802	
		Afidopyropen	0.0025	I	ug/L	P418839	
		Bentazon	0.18		ug/L	P418839	
		Sucralose	0.012	I	ug/L	P418802	
		Benzovindiflupyr	0.0020	U	ug/L	P418839	
		Carbamazepine	8.0E-04	U	ug/L	P418839	
		Clothianidin	0.012		ug/L	P418839	
		Dinotefuran	0.0020	U	ug/L	P418839	
		Diuron	0.0026	I	ug/L	P418839	
		Fenuron	0.032	U	ug/L	P418839	
		Fluridone	8.0E-04	U	ug/L	P418839	
		Imazapyr	0.0051	I	ug/L	P418839	
		Hydrocodone	0.0020	U	ug/L	P418839	

Field ID: G3SD0083 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353017	EPA 8321B	Ibuprofen	0.080	U	ug/L	P418839	
		Imidacloprid	0.032		ug/L	P418839	
		Linuron	0.0040	U	ug/L	P418839	
		Mandestrobin	0.0020	U	ug/L	P418839	
		MCPP	0.0040	U	ug/L	P418839	
		Naproxen	0.0080	U	ug/L	P418839	
		Primidone	0.0040	U	ug/L	P418839	MS
		Pyraclostrobin	0.0020	U	ug/L	P418839	
		Silvex	0.0040	U	ug/L	P418839	
		Thiamethoxam	0.044		ug/L	P418839	
		Tolfenpyrad	0.0020	U	ug/L	P418839	
		Triclopyr	0.0040	U	ug/L	P418839	
2353018	EPA 8270E	Aldrin	0.67	U	ng/L	P418930	
		Alpha-BHC	0.10	U	ng/L	P418930	
		Alpha-Chlordane	0.21	U	ng/L	P418930	
		PCB-1016	2.1	U	ng/L	P418930	
		Beta-BHC	0.15	I	ng/L	P418930	MS
		PCB-1221	2.1	U	ng/L	P418930	
		Beta-Cyfluthrin	1.3	U	ng/L	P418930	
		PCB-1232	2.1	U	ng/L	P418930	
		Bifenthrin	0.51	U	ng/L	P418930	
		PCB-1242	2.1	U	ng/L	P418930	
		PCB-1248	2.1	U	ng/L	P418930	
		Chlorothalonil	1.3	U	ng/L	P418930	
		PCB-1254	2.1	U	ng/L	P418930	
		Cis-Nonachlor	0.21	U	ng/L	P418930	
		PCB-1260	2.1	U	ng/L	P418930	
		Cypermethrin	1.5	U	ng/L	P418930	
		Dacthal	0.15	U	ng/L	P418930	
		DDD-p,p'	0.26	U	ng/L	P418930	
		DDE-p,p'	0.21	U	ng/L	P418930	
		DDT-p,p'	0.26	U	ng/L	P418930	
		Delta-BHC	0.41	U	ng/L	P418930	
		Deltamethrin	1.3	U	ng/L	P418930	
		Dichlobenil	0.26	U	ng/L	P418930	
		Dicofol	1.3	U	ng/L	P418930	
		Dieldrin	0.41	U	ng/L	P418930	
		Endosulfan I	0.41	U	ng/L	P418930	
		Endosulfan II	0.41	U	ng/L	P418930	
		Endosulfan Sulfate	0.31	U	ng/L	P418930	
		Endrin	0.41	U	ng/L	P418930	
		Endrin Aldehyde	0.77	U	ng/L	P418930	
		Endrin Ketone	0.41	UJ	ng/L	P418930	CCV, LCS
		Esfenvalerate	0.77	U	ng/L	P418930	
		Ethalfluralin	0.15	U	ng/L	P418930	

Field ID: G3SD0083 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353018	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P418930	
		Gamma-BHC	0.13	U	ng/L	P418930	
		Gamma-Chlordane	0.21	U	ng/L	P418930	
		Heptachlor	0.21	U	ng/L	P418930	
		Heptachlor Epoxide	0.26	U	ng/L	P418930	
		Hexachlorobenzene**	1.0	U	ng/L	P418930	
		Kepone	5.1	U	ng/L	P418930	
		Lambda-Cyhalothrin	0.77	U	ng/L	P418930	
		Methoprene	0.77	U	ng/L	P418930	
		Methoxychlor	0.31	U	ng/L	P418930	
		MGK-264	0.21	U	ng/L	P418930	
		Mirex	0.36	U	ng/L	P418930	
		Oxychlordane	0.31	U	ng/L	P418930	
		Permethrin	1.6	U	ng/L	P418930	
		Phenothrin	0.92	U	ng/L	P418930	
		Piperonyl Butoxide	0.15	U	ng/L	P418930	
		Prallethrin	2.1	U	ng/L	P418930	
		Tau-Fluvalinate	0.26	U	ng/L	P418930	
		Tetramethrin	0.77	U	ng/L	P418930	
		Trans-Nonachlor	0.21	U	ng/L	P418930	
		Triclosan Methyl	0.15	U	ng/L	P418930	
		Trifluralin	0.21	U	ng/L	P418930	
	EPA 8276	Chlordane	2.6	U	ng/L	P418930	
		Toxaphene	15	U	ng/L	P418930	
2353019	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P418774	
		Acetochlor	0.24	U	ng/L	P418774	
		Octinoxate**	19	U	ng/L	P418774	
		Alachlor	0.24	U	ng/L	P418774	
		Avobenzone**	96	U	ng/L	P418774	
		Ametryn	7.0		ng/L	P418774	
		Atrazine	18		ng/L	P418774	
		PBDE-47**	3.8	U	ng/L	P418774	
		Atrazine Desethyl	4.5	I	ng/L	P418774	
		PBDE-99**	4.8	U	ng/L	P418774	
		Azinphos Methyl	1.9	U	ng/L	P418774	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P418774	
		Azoxystrobin	3.8		ng/L	P418774	
		Bromacil	30		ng/L	P418774	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	11	U	ng/L	P418774	
		Butylate	0.38	U	ng/L	P418774	
		Dechlorane Plus**	29	U	ng/L	P418774	
		Caffeine**	7.2	U	ng/L	P418774	
		Carbophenothion	0.19	U	ng/L	P418774	
		Carfentrazone Ethyl	0.096	U	ng/L	P418774	

Field ID: G3SD0083 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353019	EPA 8270E	Chlorfenapyr	0.17	U	ng/L	P418774	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P418774	
		Chlorpyrifos Methyl	0.048	U	ng/L	P418774	
		Coumaphos	0.48	U	ng/L	P418774	
		Cyanazine	3.1	U	ng/L	P418774	
		Cyprodinil	0.096	U	ng/L	P418774	
		Demeton	1.4	U	ng/L	P418774	
		Diazinon	0.12	U	ng/L	P418774	
		Difenoconazole	0.57	U	ng/L	P418774	
		Dimethenamid	0.096	U	ng/L	P418774	
		Dimethomorph	0.17	U	ng/L	P418774	
		Disulfoton	0.48	U	ng/L	P418774	
		Dithiopyr	0.17	U	ng/L	P418774	
		EPTC	1.2	U	ng/L	P418774	
		Ethion	0.14	U	ng/L	P418774	
		Ethoprop	0.096	U	ng/L	P418774	
		Etridiazole	0.14	U	ng/L	P418774	
		Fenamiphos	0.48	U	ng/L	P418774	
		Fenbuconazole	0.12	U	ng/L	P418774	
		Fipronil	0.24	U	ng/L	P418774	
		Fipronil Desulfinyl**	0.12	U	ng/L	P418774	
		Fipronil Sulfide	0.14	U	ng/L	P418774	
		Fipronil Sulfone	0.14	U	ng/L	P418774	
		Fluazifop-P-butyl	0.096	U	ng/L	P418774	
		Fludioxonil	0.12	U	ng/L	P418774	
		Flumioxazin	1.7	U	ng/L	P418774	
		Flutolanil	0.096	U	ng/L	P418774	
		Fluxapyroxad	0.096	U	ng/L	P418774	
		Fonofos	0.19	U	ng/L	P418774	
		Hexazinone	8.4		ng/L	P418774	
		Imazalil	0.72	U	ng/L	P418774	
		Iprodione	0.57	U	ng/L	P418774	
		Loratadine**	0.096	U	ng/L	P418774	MS
		Malathion	0.33	U	ng/L	P418774	
		Metalaxyl	73		ng/L	P418774	
		Metolachlor	440		ng/L	P418774	
		Metribuzin	2.4	U	ng/L	P418774	
		Mevinphos	1.0	U	ng/L	P418774	
		Molinate	0.29	U	ng/L	P418774	
		Myclobutanil	0.24	U	ng/L	P418774	
		Naled	1.4	U	ng/L	P418774	
		Napropamide	0.38	U	ng/L	P418774	
		Norflurazon	26		ng/L	P418774	
		Oxadiazon	1.3		ng/L	P418774	
		Oxyfluorfen	0.14	U	ng/L	P418774	

Field ID: G3SD0083 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353019	EPA 8270E	Parathion Ethyl	0.24	U	ng/L	P418774	
		Parathion Methyl	0.53	U	ng/L	P418774	
		Pendimethalin	0.96	U	ng/L	P418774	
		Phenytoin**	3.3	U	ng/L	P418774	MS
		Phorate	0.50	U	ng/L	P418774	
		Prodiamine	0.17	U	ng/L	P418774	MS
		Prometon	0.86	U	ng/L	P418774	
		Prometryn	0.19	U	ng/L	P418774	
		Pronamide	0.14	U	ng/L	P418774	
		Propanil	0.12	U	ng/L	P418774	
		Propargite	1.4	U	ng/L	P418774	
		Propiconazole	12		ng/L	P418774	
		Pyraflufen Ethyl	0.24	U	ng/L	P418774	
		Pyridaben	0.43	U	ng/L	P418774	
		Pyriproxyfen	0.12	U	ng/L	P418774	
		Simazine	15		ng/L	P418774	
		Stirophos	0.12	U	ng/L	P418774	
		Sulfentrazone	23		ng/L	P418774	
		Tebuconazole	0.48	U	ng/L	P418774	
		Terbufos	0.096	U	ng/L	P418774	
		Terbuthylazine	0.41	U	ng/L	P418774	
		Thiobencarb	0.57	U	ng/L	P418774	
		Triadimefon	0.24	U	ng/L	P418774	

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 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for bromacil not assessed due to high content of this parameter in the sample spiked.

Sample Location: BrandyBranch@NWLilyCoRd **Collection Date/Time: 08/29/2022 10:20**

Field ID: G3SD0201 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353020	EPA 8270E	Aldrin	0.66	U	ng/L	P418930	
		Alpha-BHC	0.10	U	ng/L	P418930	
		Alpha-Chlordane	0.20	U	ng/L	P418930	
		PCB-1016	2.0	U	ng/L	P418930	
		Beta-BHC	0.10	U	ng/L	P418930	MS
		PCB-1221	2.0	U	ng/L	P418930	
		Beta-Cyfluthrin	1.3	U	ng/L	P418930	
		PCB-1232	2.0	U	ng/L	P418930	
		Bifenthrin	0.51	U	ng/L	P418930	
		PCB-1242	2.0	U	ng/L	P418930	
		Carbophenothion	0.92	U	ng/L	P418930	
		PCB-1248	2.0	U	ng/L	P418930	
		Chlorothalonil	1.3	U	ng/L	P418930	
		PCB-1254	2.0	U	ng/L	P418930	
		Cis-Nonachlor	0.20	U	ng/L	P418930	
		PCB-1260	2.0	U	ng/L	P418930	
		Cypermethrin	1.5	U	ng/L	P418930	
		Dacthal	0.15	U	ng/L	P418930	
		DDD-p,p'	0.25	U	ng/L	P418930	
		DDE-p,p'	0.20	U	ng/L	P418930	
		DDT-p,p'	0.25	U	ng/L	P418930	
		Delta-BHC	0.41	U	ng/L	P418930	
		Deltamethrin	1.3	U	ng/L	P418930	
		Dichlobenil	0.25	U	ng/L	P418930	
		Dicofol	1.3	U	ng/L	P418930	
		Dieldrin	0.41	U	ng/L	P418930	
		Endosulfan I	0.41	U	ng/L	P418930	
		Endosulfan II	0.41	U	ng/L	P418930	
		Endosulfan Sulfate	0.31	U	ng/L	P418930	
		Endrin	0.41	U	ng/L	P418930	
		Endrin Aldehyde	0.76	U	ng/L	P418930	
		Endrin Ketone	0.41	UJ	ng/L	P418930	CCV, LCS
		Esfenvalerate	0.76	U	ng/L	P418930	
		Ethalfluralin	0.15	U	ng/L	P418930	
		Fenpropathrin	0.25	U	ng/L	P418930	
		Gamma-BHC	0.13	U	ng/L	P418930	
		Gamma-Chlordane	0.20	U	ng/L	P418930	
		Heptachlor	0.20	U	ng/L	P418930	
		Heptachlor Epoxide	0.25	U	ng/L	P418930	
		Hexachlorobenzene**	1.0	U	ng/L	P418930	
		Kepone	5.1	U	ng/L	P418930	
		Lambda-Cyhalothrin	0.76	U	ng/L	P418930	
		Methoprene	0.76	U	ng/L	P418930	
		Methoxychlor	0.31	U	ng/L	P418930	

Field ID: G3SD0201 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353020	EPA 8270E	MGK-264	0.20	U	ng/L	P418930	
		Mirex	0.36	U	ng/L	P418930	
		Oxychlordane	0.31	U	ng/L	P418930	
		Permethrin	1.6	U	ng/L	P418930	
		Phenothrin	0.92	U	ng/L	P418930	
		Piperonyl Butoxide	0.15	U	ng/L	P418930	
		Prallethrin	2.0	U	ng/L	P418930	
		Tau-Fluvalinate	0.25	U	ng/L	P418930	
		Tetramethrin	0.76	U	ng/L	P418930	
		Trans-Nonachlor	0.20	U	ng/L	P418930	
		Triclosan Methyl	0.15	U	ng/L	P418930	
		Trifluralin	0.20	U	ng/L	P418930	
	EPA 8276	Chlordane	2.5	U	ng/L	P418930	
		Toxaphene	15	U	ng/L	P418930	

Ref. Method and Comment:
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: P418891

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418880

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419469

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419742

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419068

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418961

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419058

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418987

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

Reference Method: EPA 8270E
Batch ID: P418774

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418774

Component	Result	Code	Units
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.31	I	ng/L
Dithiopyr	0.18	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418774

Component	Result	Code	Units
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418774

Component	Result	Code	Units
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418774

Component	Result	Code	Units
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E
Batch ID: P418930

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
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418930

Component	Result	Code	Units
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418930

Component	Result	Code	Units
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: P418930

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

Reference Method: EPA 8321B
Batch ID: P418802

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P418839

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

Reference Method: EPA 8321B
Batch ID: P418942

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: SM 2320 B-2011
Batch ID: P419278

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO3/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 C-2011
Batch ID: P419427

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P419317

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P419281

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P419185

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: P418891

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419469

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419742

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419068

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418961

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.2		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419058

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418987

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

Reference Method: EPA 8270E
Batch ID: P418774

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.2		P	50 - 150
Acetochlor	108		P	70 - 121
Alachlor	102		P	68 - 119
Ametryn	105		P	64 - 139

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418774

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine	97.8		P	76 - 120
Atrazine Desethyl	67.9		P	44 - 126
Avobenzone	86.3		P	76 - 212
Azinphos Methyl	138		P	43 - 192
Azoxystrobin	111		P	36 - 224
Bromacil	84.7		P	52 - 121
Butylate	57.6		P	28 - 91.0
Caffeine	92.7		P	50 - 134
Carbophenothion	86.7		P	56 - 129
Carfentrazone Ethyl	108		P	60 - 141
Chlorfenapyr	88.0		P	56 - 115
Chlorpyrifos Ethyl	99.9		P	60 - 118
Chlorpyrifos Methyl	105		P	68 - 119
Coumaphos	90.8		P	18 - 250
Cyanazine	109		P	61 - 250
Cyprodinil	101		P	55 - 145
Dechlorane Plus	112		P	50 - 150
Demeton	90.3		P	30 - 159
Diazinon	111		P	70 - 123
Difenoconazole	115		P	49 - 204
Dimethenamid	83.1		P	64 - 115
Dimethomorph	121		P	12 - 219
Disulfoton	98.4		P	44 - 125
Dithiopyr	94.8		P	64 - 115
EPTC	56.3		P	28 - 86.0
Ethion	81.8		P	33 - 125
Ethoprop	99.1		P	64 - 116
Etridiazole	54.7		P	34 - 91.0
Fenamiphos	97.8		P	12 - 127
Fenbuconazole	98.4		P	59 - 151
Fipronil	99.3		P	67 - 129
Fipronil Desulfinyl	101		P	65 - 127
Fipronil Sulfide	87.9		P	61 - 116
Fipronil Sulfone	74.9		P	55 - 117
Fluazifop-P-butyl	101		P	62 - 127
Fludioxonil	87.0		P	62 - 128
Flumioxazin	127		P	33 - 250
Flutolanil	114		P	56 - 127
Fluxapyroxad	95.0		P	45 - 128
Fonofos	97.9		P	62 - 111
Hexazinone	98.3		P	46 - 139
Imazalil	85.6		P	38 - 142
Iprodione	103		P	47 - 135
Loratadine	131		P	10 - 244
Malathion	104		P	61 - 139
Metalaxyl	87.4		P	10 - 119
Metolachlor	102		P	65 - 118
Metribuzin	96.5		P	51 - 250
Mevinphos	99.6		P	53 - 121
Molinate	64.2		P	42 - 96.0
Myclobutanil	99.0		P	55 - 128
Naled	64.0		P	10 - 98.0

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418774

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Napropamide	86.3		P	49 - 121
Norflurazon	95.2		P	61 - 126
Octinoxate	74.8		P	30 - 159
Oxadiazon	90.5		P	59 - 116
Oxybenzone	72.9		P	61 - 139
Oxyfluorfen	109		P	64 - 137
Parathion Ethyl	96.7		P	70 - 112
Parathion Methyl	128		P	76 - 133
PBDE-47	80.7		P	50 - 150
PBDE-99	84.5		P	50 - 150
Pendimethalin	106		P	52 - 117
Phenytoin	28.1		P	10 - 199
Phorate	89.3		P	48 - 121
Prodiamine	35.1		P	26 - 142
Prometon	77.9		P	43 - 123
Prometryn	97.7		P	66 - 127
Pronamide	98.9		P	75 - 121
Propanil	103		P	45 - 150
Propargite	63.1		P	42 - 208
Propiconazole	79.4		P	60 - 125
Pyraflufen Ethyl	86.0		P	70 - 138
Pyridaben	97.6		P	35 - 245
Pyriproxyfen	89.1		P	30 - 149
Simazine	91.6		P	72 - 125
Stirophos	65.8		P	29 - 164
Sulfentrazone	81.3		P	21 - 139
Tebuconazole	57.1		P	10 - 115
Terbufos	109		P	60 - 123
Terbuthylazine	90.9		P	72 - 115
Thiobencarb	85.6		P	31 - 139
Tri-o-cresyl Phosphate	77.2		P	50 - 150
Triadimefon	79.0		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P418930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	51.8		P	10 - 92.0
Alpha-BHC	94.9		P	75 - 107
Alpha-Chlordane	70.7		P	50 - 108
Beta-BHC	108		P	36 - 138
Beta-Cyfluthrin	66.8		P	20 - 161
Bifenthrin	49.3		P	10 - 119
Carbophenothion	39.5		P	19 - 94.0
Chlorothalonil	67.5		P	26 - 186
Cis-Nonachlor	68.2		P	42 - 119
Cypermethrin	70.1		P	22 - 150
Dacthal	90.5		P	72 - 119
DDD-p,p'	78.1		P	45 - 107
DDE-p,p'	74.3		P	48 - 106
DDT-p,p'	71.8		P	48 - 110
Delta-BHC	113		P	54 - 140

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Deltamethrin	45.3		P	22 - 189
Dichlobenil	89.4		P	36 - 117
Dicofol	76.7		P	46 - 155
Dieldrin	78.9		P	54 - 110
Endosulfan I	76.2		P	59 - 105
Endosulfan II	87.3		P	51 - 118
Endosulfan Sulfate	97.6		P	57 - 121
Endrin	82.4		P	10 - 120
Endrin Aldehyde	68.3		P	34 - 118
Endrin Ketone	56.9		F	69 - 177
Esfenvalerate	63.2		P	23 - 168
Ethalfluralin	79.4		P	49 - 99.0
Fenpropathrin	72.1		P	34 - 117
Gamma-BHC	92.0		P	72 - 117
Gamma-Chlordane	68.5		P	43 - 106
Heptachlor	68.2		P	41 - 98.0
Heptachlor Epoxide	79.7		P	57 - 106
Hexachlorobenzene	74.3		P	36 - 99.0
Kepone	150		P	16 - 215
Lambda-Cyhalothrin	57.9		P	21 - 177
Methoprene	54.1		P	10 - 119
Methoxychlor	79.7		P	60 - 112
MGK-264	79.4		P	26 - 122
Mirex	57.1		P	10 - 169
Oxychlordane	76.8		P	43 - 105
PCB-1016	87.3		P	48 - 112
PCB-1260	85.9		P	44 - 118
Permethrin	67.8		P	24 - 148
Phenothrin	46.4		P	10 - 106
Piperonyl Butoxide	67.8		P	10 - 139
Prallethrin	71.5		P	17 - 109
Tau-Fluvalinate	53.8		P	13 - 131
Tetramethrin	97.7		P	10 - 132
Trans-Nonachlor	74.0		P	44 - 106
Triclosan Methyl	78.4		P	59 - 109
Trifluralin	76.2		P	44 - 101

Reference Method: EPA 8276
Batch ID: P418930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	95.0		P	61 - 116
Toxaphene	99.1		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P418802

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	104		P	40 - 150
Endothall	97.1		P	40 - 150
Glufosinate	103		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P418802

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	99.6		P	40 - 150
Sucralose	97.7		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P418839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	72.6		P	40 - 150
2,4,5-T	67.1		P	40 - 150
Acetaminophen	108		P	30 - 150
Acetamiprid	72.1		P	40 - 150
Afidopyropen	62.7		P	30 - 150
Bentazon	82.1		P	30 - 150
Benzovindiflupyr	70.1		P	40 - 150
Carbamazepine	81.4		P	40 - 150
Clothianidin	77.8		P	40 - 150
Dinotefuran	73.6		P	40 - 150
Diuron	89.0		P	40 - 150
Fenuron	99.5		P	40 - 150
Fluridone	84.5		P	40 - 150
Hydrocodone	112		P	40 - 150
Ibuprofen	59.2		P	40 - 150
Imazapyr	73.8		P	40 - 150
Imidacloprid	93.3		P	40 - 150
Linuron	90.9		P	40 - 150
Mandestrobin	86.3		P	40 - 150
MCPP	75.2		P	40 - 150
Naproxen	84.3		P	40 - 150
Primidone	70.9		P	40 - 150
Pyraclostrobin	83.0		P	40 - 150
Silvex	59.1		P	40 - 150
Thiamethoxam	97.2		P	40 - 150
Tolfenpyrad	44.1		P	30 - 150
Triclopyr	54.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P418942

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	53.0		P	40 - 150
Aldicarb	65.9		P	30 - 150
Aldicarb Sulfone	98.1		P	40 - 150
Aldicarb Sulfoxide	88.6		P	40 - 150
Carbaryl	80.8		P	40 - 150
Carbofuran	87.4		P	40 - 150
Methiocarb	98.9		P	40 - 150
Methomyl	92.8		P	40 - 150
Oxamyl	93.8		P	40 - 150
Propoxur	87.6		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P419278

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.1		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P419281

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

Reference Method: SM 5310 B-2011
Batch ID: P419185

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419469

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353292	Chloride	98.8		P	90 - 110
2353293	Chloride	99.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419742

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353690	Sulfate	95.1		P	90 - 110
2354011	Sulfate	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419068

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352902	Ammonia-N	96.6	95.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419058

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353062	NO2NO3-N	98.8	99.2	P/P	90 - 110
2353062	NO2NO3-N	99.8		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418987

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353064	Total-P	104	104	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P418774

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352516	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	86.6	84.7	P/P	50 - 150
2352516	Acetochlor	88.6	95.8	P/P	65 - 124
2352516	Alachlor	83.9	86.4	P/P	61 - 121
2352516	Ametryn	73.5	94.8	P/P	52 - 216
2352516	Atrazine	80.9	90.0	P/P	68 - 133
2352516	Atrazine Desethyl	62.5	63.1	P/P	15 - 160
2352516	Avobenzone	86.7	81.4	P/P	59 - 206
2352516	Azinphos Methyl	106	112	P/P	40 - 292
2352516	Azoxystrobin	96.3	110	P/P	12 - 242
2352516	Butylate	56.2	61.0	P/P	14 - 94.0
2352516	Caffeine	87.0	98.0	P/P	10 - 226
2352516	Carbophenothion	73.5	82.8	P/P	49 - 122
2352516	Carfentrazone Ethyl	91.1	99.0	P/P	53 - 138
2352516	Chlorfenapyr	72.6	81.7	P/P	50 - 150
2352516	Chlorpyrifos Ethyl	92.2	93.8	P/P	52 - 122
2352516	Chlorpyrifos Methyl	89.3	99.9	P/P	66 - 117
2352516	Coumaphos	75.7	83.0	P/P	50 - 220
2352516	Cyanazine	95.5	104	P/P	43 - 245
2352516	Cyprodinil	90.3	101	P/P	50 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418774

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352516	Dechlorane Plus	95.0	108	P/P	50 - 150
2352516	Demeton	80.9	95.5	P/P	43 - 188
2352516	Diazinon	99.1	111	P/P	69 - 131
2352516	Difenoconazole	109	127	P/P	34 - 231
2352516	Dimethenamid	72.2	78.5	P/P	55 - 118
2352516	Dimethomorph	103	118	P/P	50 - 150
2352516	Disulfoton	83.1	95.8	P/P	38 - 141
2352516	Dithiopyr	74.5	80.9	P/P	42 - 116
2352516	EPTC	56.2	63.5	P/P	18 - 85.0
2352516	Ethion	68.9	76.2	P/P	10 - 131
2352516	Ethoprop	88.3	97.2	P/P	65 - 129
2352516	Etridiazole	52.6	58.0	P/P	50 - 150
2352516	Fenamiphos	79.3	82.3	P/P	31 - 137
2352516	Fenbuconazole	84.3	93.5	P/P	57 - 160
2352516	Fipronil	83.5	94.2	P/P	62 - 132
2352516	Fipronil Desulfinyl	84.2	95.6	P/P	57 - 131
2352516	Fipronil Sulfide	71.9	81.9	P/P	15 - 138
2352516	Fipronil Sulfone	66.6	82.3	P/P	21 - 134
2352516	Fluazifop-P-butyl	89.3	99.0	P/P	54 - 133
2352516	Fludioxonil	71.9	81.6	P/P	58 - 127
2352516	Flumioxazin	102	107	P/P	33 - 300
2352516	Flutolanil	99.6	109	P/P	42 - 130
2352516	Fluxapyroxad	80.0	84.2	P/P	23 - 141
2352516	Fonofos	85.2	96.4	P/P	58 - 119
2352516	Hexazinone	82.2	87.6	P/P	68 - 172
2352516	Imazalil	73.2	87.0	P/P	48 - 283
2352516	Iprodione	78.5	90.4	P/P	38 - 140
2352516	Loratadine	126	155	P/F	50 - 150
2352516	Malathion	90.5	96.5	P/P	40 - 137
2352516	Metalaxyl	74.9	85.9	P/P	21 - 129
2352516	Metolachlor	91.9	100	P/P	55 - 122
2352516	Metribuzin	77.4	87.1	P/P	38 - 187
2352516	Mevinphos	80.7	97.1	P/P	54 - 134
2352516	Molinate	60.4	61.6	P/P	41 - 97.0
2352516	Myclobutanil	80.4	91.8	P/P	56 - 125
2352516	Naled	50.5	61.2	P/P	10 - 108
2352516	Napropamide	71.3	78.4	P/P	50 - 150
2352516	Norflurazon	88.6	80.1	P/P	32 - 122
2352516	Octinoxate	77.3	69.1	P/P	25 - 150
2352516	Oxadiazon	84.2	91.9	P/P	40 - 119
2352516	Oxybenzone	74.5	66.3	P/P	59 - 147
2352516	Oxyfluorfen	96.5	101	P/P	61 - 153
2352516	Parathion Ethyl	77.3	94.7	P/P	59 - 130
2352516	Parathion Methyl	105	129	P/P	65 - 155
2352516	PBDE-47	80.1	74.0	P/P	50 - 150
2352516	PBDE-99	79.2	76.7	P/P	50 - 150
2352516	Pendimethalin	94.8	102	P/P	49 - 138
2352516	Phenytoin	21.9	17.4	F/F	50 - 200
2352516	Phorate	72.1	90.2	P/P	54 - 161
2352516	Prodiamine	30.0	32.4	F/F	33 - 161
2352516	Prometon	54.8	51.9	P/P	48 - 140
2352516	Prometryn	83.5	88.5	P/P	55 - 134

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418774

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352516	Pronamide	101	104	P/P	66 - 137
2352516	Propanil	82.8	91.2	P/P	50 - 150
2352516	Propargite	61.5	54.8	P/P	50 - 200
2352516	Propiconazole	75.0	68.7	P/P	36 - 150
2352516	Pyraflufen Ethyl	74.8	69.9	P/P	50 - 150
2352516	Pyridaben	83.0	92.8	P/P	50 - 200
2352516	Pyriproxyfen	77.7	79.5	P/P	10 - 165
2352516	Simazine	100	113	P/P	57 - 145
2352516	Stirophos	53.1	63.2	P/P	50 - 150
2352516	Sulfentrazone	61.1	68.7	P/P	34 - 140
2352516	Tebuconazole	46.1	44.4	P/P	10 - 127
2352516	Terbufos	98.1	111	P/P	59 - 138
2352516	Terbuthylazine	80.0	84.7	P/P	68 - 119
2352516	Thiobencarb	78.2	81.9	P/P	50 - 150
2352516	Tri-o-cresyl Phosphate	77.8	70.7	P/P	50 - 150
2352516	Triadimefon	74.3	81.3	P/P	50 - 150

Reference Method: EPA 8270E
Batch ID: P418930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353005	PCB-1016	88.7	90.7	P/P	46 - 111
2353005	PCB-1260	79.8	85.2	P/P	45 - 114
2353048	Aldrin	51.1	53.8	P/P	20 - 82.0
2353048	Alpha-BHC	85.8	81.7	P/P	71 - 109
2353048	Alpha-Chlordane	66.4	67.7	P/P	42 - 106
2353048	Beta-BHC	57.1	54.2	F/F	69 - 180
2353048	Beta-Cyfluthrin	66.4	74.6	P/P	18 - 175
2353048	Bifenthrin	50.4	55.3	P/P	21 - 128
2353048	Carbophenothion	61.8	65.0	P/P	10 - 126
2353048	Chlorothalonil	148	154	P/P	10 - 300
2353048	Cis-Nonachlor	57.1	63.2	P/P	34 - 106
2353048	Cypermethrin	63.7	71.6	P/P	22 - 158
2353048	Dacthal	82.5	84.1	P/P	54 - 116
2353048	DDD-p,p'	60.6	63.3	P/P	34 - 107
2353048	DDE-p,p'	64.2	65.8	P/P	33 - 110
2353048	DDT-p,p'	58.8	60.5	P/P	50 - 122
2353048	Delta-BHC	124	125	P/P	77 - 193
2353048	Deltamethrin	62.4	86.3	P/P	10 - 195
2353048	Dichlobenil	63.4	60.7	P/P	25 - 113
2353048	Dicofol	64.9	66.7	P/P	38 - 247
2353048	Dieldrin	64.3	66.0	P/P	45 - 118
2353048	Endosulfan I	73.8	74.0	P/P	51 - 106
2353048	Endosulfan II	70.6	71.4	P/P	37 - 122
2353048	Endosulfan Sulfate	79.2	86.0	P/P	43 - 132
2353048	Endrin	71.3	71.4	P/P	29 - 101
2353048	Endrin Aldehyde	72.3	71.9	P/P	19 - 110
2353048	Endrin Ketone	79.6	80.3	P/P	60 - 140
2353048	Esfenvalerate	72.3	80.3	P/P	26 - 199
2353048	Ethalfluralin	62.8	65.0	P/P	45 - 99.0
2353048	Fenpropathrin	54.5	61.0	P/P	35 - 120
2353048	Gamma-BHC	96.4	96.5	P/P	63 - 128

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353048	Gamma-Chlordane	63.8	64.5	P/P	40 - 104
2353048	Heptachlor	54.2	56.4	P/P	36 - 97.0
2353048	Heptachlor Epoxide	66.1	68.7	P/P	49 - 184
2353048	Hexachlorobenzene	62.6	61.1	P/P	39 - 96.0
2353048	Kepone	174	193	P/P	10 - 217
2353048	Lambda-Cyhalothrin	66.8	74.2	P/P	21 - 193
2353048	Methoprene	60.1	66.0	P/P	20 - 106
2353048	Methoxychlor	65.3	66.0	P/P	53 - 118
2353048	MGK-264	79.8	82.0	P/P	40 - 118
2353048	Mirex	53.9	56.0	P/P	26 - 92.0
2353048	Oxychlordane	73.0	73.8	P/P	44 - 99.0
2353048	Permethrin	61.5	68.2	P/P	33 - 182
2353048	Phenothrin	69.8	72.5	P/P	10 - 129
2353048	Piperonyl Butoxide	89.0	95.7	P/P	10 - 211
2353048	Prallethrin	77.4	79.0	P/P	24 - 113
2353048	Tau-Fluvalinate	67.6	74.7	P/P	14 - 149
2353048	Tetramethrin	91.4	103	P/P	17 - 151
2353048	Trans-Nonachlor	62.8	67.3	P/P	42 - 102
2353048	Triclosan Methyl	69.2	69.3	P/P	48 - 108
2353048	Trifluralin	63.6	65.8	P/P	47 - 96.0

Reference Method: EPA 8276
Batch ID: P418930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353005	Chlordane	90.3	88.4	P/P	53 - 126
2353005	Toxaphene	113	110	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P418802

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352891	Acesulfame K	99.6	98.9	P/P	40 - 150
2352891	AMPA	105	108	P/P	40 - 150
2352891	Endothall	92.9	96.0	P/P	40 - 150
2352891	Glufosinate	96.5	94.1	P/P	40 - 150
2352891	Glyphosate	87.9	83.3	P/P	40 - 150
2352891	Sucralose	95.8	95.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P418839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352724	2,4-D	77.7	80.5	P/P	40 - 150
2352724	2,4,5-T	81.7	83.6	P/P	40 - 150
2352724	Acetaminophen	74.0	83.6	P/P	30 - 150
2352724	Acetamiprid	47.7	45.5	P/P	40 - 150
2352724	Afidopyropen	55.7	67.7	P/P	30 - 150
2352724	Bentazon	124	121	P/P	30 - 150
2352724	Benzovindiflupyr	78.3	83.5	P/P	40 - 150
2352724	Carbamazepine	74.1	76.9	P/P	40 - 150
2352724	Clothianidin	49.8	54.6	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P418839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352724	Dinotefuran	94.1	108	P/P	40 - 150
2352724	Diuron	85.6	80.7	P/P	40 - 150
2352724	Fenuron	97.5	97.1	P/P	40 - 150
2352724	Fluridone	105	106	P/P	40 - 150
2352724	Hydrocodone	104	113	P/P	40 - 150
2352724	Ibuprofen	67.1	81.2	P/P	40 - 150
2352724	Imazapyr	83.1	96.8	P/P	40 - 150
2352724	Imidacloprid	66.1	74.2	P/P	40 - 150
2352724	Linuron	91.8	99.3	P/P	40 - 150
2352724	Mandestrobin	98.0	93.3	P/P	40 - 150
2352724	MCPP	88.9	95.3	P/P	40 - 150
2352724	Naproxen	125	117	P/P	40 - 150
2352724	Primidone	44.9	35.3	P/F	40 - 150
2352724	Pyraclostrobin	92.5	94.9	P/P	40 - 150
2352724	Silvex	73.9	79.1	P/P	40 - 150
2352724	Thiamethoxam	82.0	89.7	P/P	40 - 150
2352724	Tolfenpyrad	57.1	61.2	P/P	30 - 150
2352724	Triclopyr	73.3	81.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P418942

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353621	3-Hydroxycarbofuran	58.8	47.4	P/P	40 - 150
2353621	Aldicarb	62.6	73.7	P/P	30 - 150
2353621	Aldicarb Sulfone	85.5	88.3	P/P	40 - 150
2353621	Aldicarb Sulfoxide	48.7	45.7	P/P	40 - 150
2353621	Carbaryl	96.6	77.3	P/P	40 - 150
2353621	Carbofuran	90.6	70.4	P/P	40 - 150
2353621	Methiocarb	105	90.6	P/P	40 - 150
2353621	Methomyl	92.6	85.9	P/P	40 - 150
2353621	Oxamyl	94.6	86.5	P/P	40 - 150
2353621	Propoxur	82.2	75.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P419281

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352991	Fluoride	102	102	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419185

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353034	Organic Carbon	89.1	93.6	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P418891

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352991	Color (true)	1.05	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352962	Turbidity	1.96	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353292	Chloride	0.130	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419742

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353690	Sulfate	0.105	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419068

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352902	Ammonia-N	1.45	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418961

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352880	Kjeldahl Nitrogen	4.38	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419058

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353062	NO2NO3-N	0.467	Spike	P	0 - 15

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418987

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353064	Total-P	0.0154	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P418774

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352516	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	2.20	Spike	P	0 - 30
2352516	Acetochlor	7.80	Spike	P	0 - 27
2352516	Alachlor	2.94	Spike	P	0 - 27
2352516	Ametryn	25.3	Spike	P	0 - 34
2352516	Atrazine	9.46	Spike	P	0 - 41
2352516	Atrazine Desethyl	0.907	Spike	P	0 - 38
2352516	Avobenzone	6.29	Spike	P	0 - 30
2352516	Azinphos Methyl	6.14	Spike	P	0 - 62
2352516	Azoxystrobin	13.4	Spike	P	0 - 32
2352516	Bromacil	6.45	Spike	P	0 - 30
2352516	Butylate	8.20	Spike	P	0 - 59
2352516	Caffeine	12.0	Spike	P	0 - 60
2352516	Carbophenothion	11.9	Spike	P	0 - 25
2352516	Carfentrazone Ethyl	8.31	Spike	P	0 - 26
2352516	Chlorfenapyr	11.8	Spike	P	0 - 30
2352516	Chlorpyrifos Ethyl	1.69	Spike	P	0 - 27
2352516	Chlorpyrifos Methyl	11.2	Spike	P	0 - 26
2352516	Coumaphos	9.16	Spike	P	0 - 30
2352516	Cyanazine	8.63	Spike	P	0 - 58
2352516	Cyprodinil	11.4	Spike	P	0 - 30
2352516	Dechlorane Plus	13.2	Spike	P	0 - 30
2352516	Demeton	16.5	Spike	P	0 - 25
2352516	Diazinon	11.0	Spike	P	0 - 29
2352516	Difenoconazole	14.9	Spike	P	0 - 25
2352516	Dimethenamid	8.33	Spike	P	0 - 30
2352516	Dimethomorph	13.4	Spike	P	0 - 30
2352516	Disulfoton	14.2	Spike	P	0 - 33
2352516	Dithiopyr	7.58	Spike	P	0 - 22
2352516	EPTC	12.2	Spike	P	0 - 38
2352516	Ethion	10.0	Spike	P	0 - 79
2352516	Ethoprop	9.64	Spike	P	0 - 23
2352516	Etridiazole	9.78	Spike	P	0 - 30
2352516	Fenamiphos	3.62	Spike	P	0 - 58
2352516	Fenbuconazole	10.4	Spike	P	0 - 37
2352516	Fipronil	12.0	Spike	P	0 - 33
2352516	Fipronil Desulfinyl	12.7	Spike	P	0 - 26
2352516	Fipronil Sulfide	12.9	Spike	P	0 - 37
2352516	Fipronil Sulfone	21.1	Spike	P	0 - 50
2352516	Fluazifop-P-butyl	10.3	Spike	P	0 - 24
2352516	Fludioxonil	12.6	Spike	P	0 - 26
2352516	Flumioxazin	4.71	Spike	P	0 - 37
2352516	Flutolanil	9.08	Spike	P	0 - 26
2352516	Fluxapyroxad	5.13	Spike	P	0 - 34
2352516	Fonofos	12.4	Spike	P	0 - 27
2352516	Hexazinone	6.36	Spike	P	0 - 36
2352516	Imazalil	17.3	Spike	P	0 - 65
2352516	Iprodione	14.1	Spike	P	0 - 33
2352516	Loratadine	20.9	Spike	P	0 - 30
2352516	Malathion	6.44	Spike	P	0 - 44
2352516	Metalaxyl	9.65	Spike	P	0 - 38
2352516	Metolachlor	8.92	Spike	P	0 - 36

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P418774

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352516	Metribuzin	11.8	Spike	P	0 - 63
2352516	Mevinphos	18.5	Spike	P	0 - 26
2352516	Molinate	1.89	Spike	P	0 - 40
2352516	Myclobutanil	13.2	Spike	P	0 - 21
2352516	Naled	19.1	Spike	P	0 - 26
2352516	Napropamide	9.58	Spike	P	0 - 30
2352516	Norflurazon	8.29	Spike	P	0 - 24
2352516	Octinoxate	11.2	Spike	P	0 - 30
2352516	Oxadiazon	8.83	Spike	P	0 - 27
2352516	Oxybenzone	11.7	Spike	P	0 - 30
2352516	Oxyfluorfen	4.82	Spike	P	0 - 24
2352516	Parathion Ethyl	20.3	Spike	P	0 - 28
2352516	Parathion Methyl	20.5	Spike	P	0 - 27
2352516	PBDE-47	7.89	Spike	P	0 - 30
2352516	PBDE-99	3.16	Spike	P	0 - 30
2352516	Pendimethalin	7.66	Spike	P	0 - 31
2352516	Phenytoin	22.6	Spike	P	0 - 30
2352516	Phorate	22.3	Spike	P	0 - 27
2352516	Prodiamine	7.57	Spike	P	0 - 52
2352516	Prometon	5.46	Spike	P	0 - 31
2352516	Prometryn	5.84	Spike	P	0 - 28
2352516	Pronamide	3.03	Spike	P	0 - 26
2352516	Propanil	9.69	Spike	P	0 - 30
2352516	Propargite	11.6	Spike	P	0 - 30
2352516	Propiconazole	8.67	Spike	P	0 - 31
2352516	Pyraflufen Ethyl	6.76	Spike	P	0 - 30
2352516	Pyridaben	11.2	Spike	P	0 - 30
2352516	Pyriproxyfen	2.40	Spike	P	0 - 50
2352516	Simazine	12.3	Spike	P	0 - 29
2352516	Stirophos	17.4	Spike	P	0 - 30
2352516	Sulfentrazone	11.6	Spike	P	0 - 33
2352516	Tebuconazole	3.75	Spike	P	0 - 44
2352516	Terbufos	12.7	Spike	P	0 - 29
2352516	Terbuthylazine	5.81	Spike	P	0 - 27
2352516	Thiobencarb	4.61	Spike	P	0 - 30
2352516	Tri-o-cresyl Phosphate	9.48	Spike	P	0 - 30
2352516	Triadimefon	9.00	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P418930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353005	PCB-1016	2.23	Spike	P	0 - 32
2353005	PCB-1260	6.51	Spike	P	0 - 31
2353048	Aldrin	5.14	Spike	P	0 - 41
2353048	Alpha-BHC	4.91	Spike	P	0 - 25
2353048	Alpha-Chlordane	1.89	Spike	P	0 - 33
2353048	Beta-BHC	5.25	Spike	P	0 - 36
2353048	Beta-Cyfluthrin	11.6	Spike	P	0 - 42
2353048	Bifenthrin	9.33	Spike	P	0 - 53

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P418930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353048	Carbophenothion	4.97	Spike	P	0 - 30
2353048	Chlorothalonil	3.82	Spike	P	0 - 71
2353048	Cis-Nonachlor	10.1	Spike	P	0 - 29
2353048	Cypermethrin	11.6	Spike	P	0 - 40
2353048	Dacthal	1.81	Spike	P	0 - 26
2353048	DDD-p,p'	4.25	Spike	P	0 - 39
2353048	DDE-p,p'	2.50	Spike	P	0 - 33
2353048	DDT-p,p'	2.73	Spike	P	0 - 40
2353048	Delta-BHC	0.321	Spike	P	0 - 37
2353048	Deltamethrin	32.1	Spike	P	0 - 100
2353048	Dichlobenil	4.39	Spike	P	0 - 40
2353048	Dicofol	2.67	Spike	P	0 - 31
2353048	Dieldrin	2.58	Spike	P	0 - 27
2353048	Endosulfan I	0.241	Spike	P	0 - 23
2353048	Endosulfan II	1.14	Spike	P	0 - 28
2353048	Endosulfan Sulfate	8.22	Spike	P	0 - 38
2353048	Endrin	0.170	Spike	P	0 - 63
2353048	Endrin Aldehyde	0.566	Spike	P	0 - 60
2353048	Endrin Ketone	0.954	Spike	P	0 - 37
2353048	Esfenvalerate	10.5	Spike	P	0 - 52
2353048	Ethalfluralin	3.32	Spike	P	0 - 23
2353048	Fenpropathrin	11.3	Spike	P	0 - 32
2353048	Gamma-BHC	0.0308	Spike	P	0 - 17
2353048	Gamma-Chlordane	1.18	Spike	P	0 - 40
2353048	Heptachlor	4.06	Spike	P	0 - 29
2353048	Heptachlor Epoxide	3.88	Spike	P	0 - 25
2353048	Hexachlorobenzene	2.52	Spike	P	0 - 36
2353048	Kepone	10.3	Spike	P	0 - 93
2353048	Lambda-Cyhalothrin	10.4	Spike	P	0 - 55
2353048	Methoprene	9.38	Spike	P	0 - 53
2353048	Methoxychlor	1.13	Spike	P	0 - 29
2353048	MGK-264	2.72	Spike	P	0 - 35
2353048	Mirex	3.76	Spike	P	0 - 46
2353048	Oxychlordane	1.16	Spike	P	0 - 29
2353048	Permethrin	10.3	Spike	P	0 - 44
2353048	Phenothrin	3.74	Spike	P	0 - 56
2353048	Piperonyl Butoxide	7.31	Spike	P	0 - 100
2353048	Prallethrin	2.08	Spike	P	0 - 42
2353048	Tau-Fluvalinate	9.94	Spike	P	0 - 54
2353048	Tetramethrin	11.8	Spike	P	0 - 51
2353048	Trans-Nonachlor	6.87	Spike	P	0 - 37
2353048	Triclosan Methyl	0.0541	Spike	P	0 - 31
2353048	Trifluralin	3.43	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P418930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353005	Chlordane	1.86	Spike	P	0 - 25
2353005	Toxaphene	2.78	Spike	P	0 - 26

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P418802

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352891	Acesulfame K	0.674	Spike	P	0 - 30
2352891	AMPA	2.20	Spike	P	0 - 30
2352891	Endothall	3.24	Spike	P	0 - 30
2352891	Glufosinate	2.45	Spike	P	0 - 30
2352891	Glyphosate	5.37	Spike	P	0 - 30
2352891	Sucralose	0.783	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P418839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352724	2,4-D	3.61	Spike	P	0 - 30
2352724	2,4,5-T	2.26	Spike	P	0 - 30
2352724	Acetaminophen	12.1	Spike	P	0 - 30
2352724	Acetamiprid	4.64	Spike	P	0 - 30
2352724	Afidopyropen	19.4	Spike	P	0 - 30
2352724	Bentazon	1.98	Spike	P	0 - 30
2352724	Benzovindiflupyr	6.34	Spike	P	0 - 30
2352724	Carbamazepine	3.75	Spike	P	0 - 30
2352724	Clothianidin	9.25	Spike	P	0 - 30
2352724	Dinotefuran	13.7	Spike	P	0 - 30
2352724	Diuron	6.01	Spike	P	0 - 30
2352724	Fenuron	0.455	Spike	P	0 - 30
2352724	Fluridone	1.59	Spike	P	0 - 30
2352724	Hydrocodone	8.10	Spike	P	0 - 30
2352724	Ibuprofen	19.0	Spike	P	0 - 30
2352724	Imazapyr	15.2	Spike	P	0 - 30
2352724	Imidacloprid	11.5	Spike	P	0 - 30
2352724	Linuron	7.90	Spike	P	0 - 30
2352724	Mandestrobin	4.93	Spike	P	0 - 30
2352724	MCPP	6.97	Spike	P	0 - 30
2352724	Naproxen	6.99	Spike	P	0 - 30
2352724	Primidone	24.0	Spike	P	0 - 30
2352724	Pyraclostrobin	2.62	Spike	P	0 - 30
2352724	Silvex	6.75	Spike	P	0 - 30
2352724	Thiamethoxam	9.02	Spike	P	0 - 30
2352724	Tolfenpyrad	6.89	Spike	P	0 - 30
2352724	Triclopyr	10.5	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P418942

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353621	3-Hydroxycarbofuran	21.4	Spike	P	0 - 30
2353621	Aldicarb	16.3	Spike	P	0 - 30
2353621	Aldicarb Sulfone	3.25	Spike	P	0 - 30
2353621	Aldicarb Sulfoxide	6.48	Spike	P	0 - 30
2353621	Carbaryl	22.2	Spike	P	0 - 30
2353621	Carbofuran	25.1	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P418942

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353621	Methiocarb	15.1	Spike	P	0 - 30
2353621	Methomyl	7.52	Spike	P	0 - 30
2353621	Oxamyl	8.92	Spike	P	0 - 30
2353621	Propoxur	8.57	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P419278

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352991	Total Alkalinity	0.709	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P419427

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352991	TDS	7.74	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P419281

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352991	Fluoride	0.470	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P419185

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353034	Organic Carbon	3.09	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2353016
Field Sample ID: G3SD0083

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	68.7	P	30 - 160

Lab Sample ID: 2353017
Field Sample ID: G3SD0083

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	90.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	43.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.3	P	30 - 160
EPA 8321B	Diuron-d6	85.4	P	30 - 160
EPA 8321B	Endothall-d6	155	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	77.4	P	30 - 160
EPA 8321B	Primidone-d5	30.9	P	30 - 160
EPA 8321B	Sucralose-d6	95.1	P	30 - 160

Lab Sample ID: 2353018
Field Sample ID: G3SD0083

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	71.8	P	29 - 130
EPA 8270E	Decachlorobiphenyl	68.9	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	45.0	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	35.2	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	66.3	P	30 - 101
EPA 8276	PCNB	78.9	P	48 - 121

Lab Sample ID: 2353019
Field Sample ID: G3SD0083

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	41.6	P	20 - 200
EPA 8270E	Simazine-d10	75.1	P	71 - 140
EPA 8270E	Terbufos-d10	72.7	P	62 - 131
EPA 8270E	Terphenyl-d14	52.5	P	52 - 141

Lab Sample ID: 2353020
Field Sample ID: G3SD0201

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	48.0	P	29 - 130
EPA 8270E	Decachlorobiphenyl	48.1	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	36.3	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	35.8	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	36.3	P	30 - 101
EPA 8276	PCNB	80.7	P	48 - 121

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A114434
Included Lab Sample IDs: 2353003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.5	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1
Run ID: A114439
Included Lab Sample IDs: 2353003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	99.4	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A114475
Included Lab Sample IDs: 2353019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.7		P	80 - 120
Alachlor	93.3		P	80 - 120
Ametryn	91.3		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	93.7		P	80 - 120
Azinphos Methyl	120		P	80 - 120
Azoxystrobin	94.9		P	80 - 120
Bromacil	99.1		P	80 - 120
Butylate	101		P	80 - 120
Caffeine	92.6		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	98.3		P	80 - 120
Chlorfenapyr	117		P	80 - 120
Chlorpyrifos Ethyl	99.7		P	80 - 120
Chlorpyrifos Methyl	107		P	80 - 120
Coumaphos	111		P	80 - 120
Cyanazine	87.8		P	80 - 120
Cyprodinil	97.5		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	95.1		P	80 - 120
Difenoconazole	97.9		P	80 - 120
Dimethenamid	97.5		P	80 - 120
Dimethomorph	95.5		P	80 - 120
Disulfoton	96.9		P	80 - 120
Dithiopyr	90.0		P	80 - 120
EPTC	103		P	80 - 120
Ethion	98.3		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	91.8		P	80 - 120
Fenamiphos	95.6		P	80 - 120
Fenbuconazole	97.9		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	89.6		P	80 - 120
Fipronil Sulfone	98.7		P	80 - 120
Fluazifop-P-butyl	99.7		P	80 - 120
Fludioxonil	99.3		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A114475
Included Lab Sample IDs: 2353019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Flumioxazin	102		P	80 - 120
Flutolanil	107		P	80 - 120
Fluxapyroxad	108		P	80 - 120
Fonofos	99.7		P	80 - 120
Hexazinone	99.4		P	80 - 120
Imazalil	94.4		P	80 - 120
Iprodione	107		P	80 - 120
Loratadine	99.1		P	80 - 120
Malathion	101		P	80 - 120
Metribuzin	93.5		P	80 - 120
Mevinphos	119		P	80 - 120
Molinate	99.1		P	80 - 120
Myclobutanil	103		P	80 - 120
Naled	103		P	80 - 120
Napropamide	90.1		P	80 - 120
Norflurazon	106		P	80 - 120
Oxadiazon	99.0		P	80 - 120
Oxyfluorfen	91.1		P	80 - 120
Parathion Ethyl	95.8		P	80 - 120
Parathion Methyl	110		P	80 - 120
Pendimethalin	87.9		P	80 - 120
Phenytoin	99.7		P	80 - 120
Phorate	108		P	80 - 120
Prodiamine	87.2		P	80 - 120
Prometon	94.8		P	80 - 120
Prometryn	98.6		P	80 - 120
Pronamide	100		P	80 - 120
Propanil	96.6		P	80 - 120
Propargite	92.4		P	80 - 120
Propiconazole	95.0		P	80 - 120
Pyraflufen Ethyl	97.7		P	80 - 120
Pyridaben	95.9		P	80 - 120
Pyriproxyfen	99.1		P	80 - 120
Simazine	102		P	80 - 120
Stirophos	109		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	97.5		P	80 - 120
Terbufos	100		P	80 - 120
Terbuthylazine	100		P	80 - 120
Thiobencarb	94.5		P	80 - 120
Triadimefon	92.8		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114509
Included Lab Sample IDs: 2353019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	90.3		P	80 - 120
Avobenzone	95.5		P	80 - 120
Dechlorane Plus	91.8		P	80 - 120
Octinoxate	94.7		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A114509
Included Lab Sample IDs: 2353019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxybenzone	97.0		P	80 - 120
PBDE-47	91.8		P	80 - 120
PBDE-99	92.4		P	80 - 120
Tri-o-cresyl Phosphate	93.6		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114512
Included Lab Sample IDs: 2353004

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A114514
Included Lab Sample IDs: 2353004

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A114517
Included Lab Sample IDs: 2353004

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.0	99.1	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A114531
Included Lab Sample IDs: 2353019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Metalaxyl	92.9		P	80 - 120
Metolachlor	87.2		P	80 - 120

Reference Method: EPA 8321B
Run ID: A114551
Included Lab Sample IDs: 2353017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	100	104	P/P	60 - 160
Sucralose	97.8	97.6	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A114552
Included Lab Sample IDs: 2353017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	103	102	P/P	60 - 160
Endothall	98.0	88.2	P/P	60 - 160
Glufosinate	102	81.0	P/P	60 - 160
Glyphosate	95.9	97.6	P/P	60 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A114560
Included Lab Sample IDs: 2353018, 2353020

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	105		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	96.3		P	80 - 120
Beta-Cyfluthrin	99.3		P	80 - 120
Bifenthrin	105		P	80 - 120
Carbophenothion	102		P	80 - 120
Chlorothalonil	93.9		P	80 - 120
Cis-Nonachlor	99.8		P	80 - 120
Cypermethrin	99.5		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	98.3		P	80 - 120
Delta-BHC	98.3		P	80 - 120
Deltamethrin	85.5		P	80 - 120
Dichlobenil	97.6		P	80 - 120
Dicofol	97.7		P	80 - 120
Dieldrin	105		P	80 - 120
Endosulfan I	102		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	102		P	80 - 120
Endrin	99.5		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	60.8*		F	80 - 120
Esfenvalerate	102		P	80 - 120
Ethalfluralin	101		P	80 - 120
Fenpropathrin	103		P	80 - 120
Gamma-BHC	97.4		P	80 - 120
Gamma-Chlordane	98.1		P	80 - 120
Heptachlor	104		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	99.0		P	80 - 120
Kepone	95.3		P	80 - 120
Lambda-Cyhalothrin	101		P	80 - 120
Methoprene	103		P	80 - 120
Methoxychlor	98.9		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	106		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	100		P	80 - 120
Piperonyl Butoxide	82.3		P	80 - 120
Prallethrin	100		P	80 - 120
Tau-Fluvalinate	100		P	80 - 120
Tetramethrin	109		P	80 - 120
Trans-Nonachlor	107		P	80 - 120
Triclosan Methyl	99.3		P	80 - 120
Trifluralin	101		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114561
Included Lab Sample IDs: 2353004

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.4	92.5	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A114564
Included Lab Sample IDs: 2353018, 2353020

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120
PCB-1260	103		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A114570
Included Lab Sample IDs: 2353004

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.2	95.1	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A114573
Included Lab Sample IDs: 2353018, 2353020

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.4		P	80 - 120
Toxaphene	102		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A114599
Included Lab Sample IDs: 2353003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.6	101	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A114599
Included Lab Sample IDs: 2353003

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A114600
Included Lab Sample IDs: 2353003

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

Reference Method: EPA 8321B
Run ID: A114605
Included Lab Sample IDs: 2353017

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A114605
Included Lab Sample IDs: 2353017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.3	88.7	P/P	50 - 150
2,4,5-T	120	93.1	P/P	50 - 150
3-Hydroxycarbofuran	102	78.1	P/P	60 - 150
Acetaminophen	95.1	78.2	P/P	60 - 160
Acetamiprid	85.3	102	P/P	50 - 150
Afidopyropen	92.7	96.3	P/P	50 - 150
Aldicarb	116	99.3	P/P	60 - 150
Aldicarb Sulfone	96.4	101	P/P	50 - 150
Aldicarb Sulfoxide	103	77.2	P/P	50 - 150
Bentazon	86.6	109	P/P	50 - 160
Benzovindiflupyr	115	118	P/P	50 - 150
Carbamazepine	95.6	112	P/P	60 - 150
Carbaryl	118	113	P/P	60 - 150
Carbofuran	99.3	83.9	P/P	50 - 150
Clothianidin	103	92.1	P/P	60 - 150
Dinotefuran	94.9	101	P/P	50 - 150
Diuron	101	99.8	P/P	60 - 160
Fenuron	88.1	94.2	P/P	60 - 150
Fluridone	104	120	P/P	60 - 160
Hydrocodone	77.2	116	P/P	60 - 150
Ibuprofen	147	61.4	P/P	50 - 160
Imazapyr	96.1	89.5	P/P	50 - 150
Imidacloprid	74.4	130	P/P	60 - 150
Linuron	111	106	P/P	60 - 150
Mandestrobin	112	102	P/P	50 - 150
MCPP	102	89.8	P/P	50 - 150
Methiocarb	102	112	P/P	50 - 150
Methomyl	98.9	96.5	P/P	50 - 150
Naproxen	127	118	P/P	50 - 160
Oxamyl	102	85.7	P/P	50 - 150
Primidone	112	68.2	P/P	60 - 150
Propoxur	111	114	P/P	50 - 150
Pyraclostrobin	111	112	P/P	60 - 150
Silvex	61.7	70.1	P/P	50 - 150
Thiamethoxam	111	67.4	P/P	50 - 150
Tolfenpyrad	125	119	P/P	60 - 150
Triclopyr	86.9	96.8	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A114789
Included Lab Sample IDs: 2353003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	100	101	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision		
						LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	98.8					1.05	
EPA 180.1 Rev. 2.0	Turbidity	96.5					1.96	
EPA 300.0 Rev. 2.1	Chloride	100	98.8	99.2			0.130	
	Sulfate	98.2	95.1	97.6			0.105	
EPA 350.1 Rev. 2.0	Ammonia-N	95.0	96.6	95.0				1.45
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.2						4.38
EPA 353.2 Rev. 2.0	NO2NO3-N	103	98.8	99.8	99.2			0.467 RSD
EPA 365.1 Rev. 2.0	Total-P	106	104	104				0.0154
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.2	86.6	84.7				2.20
	Acetochlor	108	88.6	95.8				7.80
	Alachlor	102	83.9	86.4				2.94
	Aldrin	51.8	51.1	53.8				5.14
	Alpha-BHC	94.9	85.8	81.7				4.91
	Alpha-Chlordane	70.7	66.4	67.7				1.89
	Ametryn	105	73.5	94.8				25.3
	Atrazine	97.8	80.9	90.0				9.46
	Atrazine Desethyl	67.9	62.5	63.1				0.907
	Avobenzone	86.3	86.7	81.4				6.29
	Azinphos Methyl	138	106	112				6.14
	Azoxystrobin	111	96.3	110				13.4
	Beta-BHC	108	57.1	54.2				5.25
	Beta-Cyfluthrin	66.8	66.4	74.6				11.6
	Bifenthrin	49.3	50.4	55.3				9.33
	Bromacil	84.7						6.45
	Butylate	57.6	56.2	61.0				8.20
	Caffeine	92.7	87.0	98.0				12.0
	Carbophenothion	86.7	73.5	82.8				11.9
	Carbophenothion	39.5	61.8	65.0				4.97
	Carfentrazone Ethyl	108	91.1	99.0				8.31
	Chlorfenapyr	88.0	72.6	81.7				11.8
	Chlorothalonil	67.5	148	154				3.82
	Chlorpyrifos Ethyl	99.9	92.2	93.8				1.69
	Chlorpyrifos Methyl	105	89.3	99.9				11.2
	Cis-Nonachlor	68.2	57.1	63.2				10.1
	Coumaphos	90.8	75.7	83.0				9.16
	Cyanazine	109	95.5	104				8.63
	Cypermethrin	70.1	63.7	71.6				11.6
	Cyprodinil	101	90.3	101				11.4
	Dacthal	90.5	82.5	84.1				1.81
	DDD-p,p'	78.1	60.6	63.3				4.25
	DDE-p,p'	74.3	64.2	65.8				2.50
	DDT-p,p'	71.8	58.8	60.5				2.73
	Dechlorane Plus	112	95.0	108				13.2
	Delta-BHC	113	124	125				0.321
	Deltamethrin	45.3	62.4	86.3				32.1
	Demeton	90.3	80.9	95.5				16.5
	Diazinon	111	99.1	111				11.0
	Dichlobenil	89.4	63.4	60.7				4.39
	Dicofol	76.7	64.9	66.7				2.67
	Dieldrin	78.9	64.3	66.0				2.58
	Difenoconazole	115	109	127				14.9
	Dimethenamid	83.1	72.2	78.5				8.33

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Dimethomorph	121	103	118			13.4
	Disulfoton	98.4	83.1	95.8			14.2
	Dithiopyr	94.8	74.5	80.9			7.58
	Endosulfan I	76.2	73.8	74.0			0.241
	Endosulfan II	87.3	70.6	71.4			1.14
	Endosulfan Sulfate	97.6	79.2	86.0			8.22
	Endrin	82.4	71.3	71.4			0.170
	Endrin Aldehyde	68.3	72.3	71.9			0.566
	Endrin Ketone	56.9	79.6	80.3			0.954
	EPTC	56.3	56.2	63.5			12.2
	Esfenvalerate	63.2	72.3	80.3			10.5
	Ethalfluralin	79.4	62.8	65.0			3.32
	Ethion	81.8	68.9	76.2			10.0
	Ethoprop	99.1	88.3	97.2			9.64
	Etridiazole	54.7	52.6	58.0			9.78
	Fenamiphos	97.8	79.3	82.3			3.62
	Fenbuconazole	98.4	84.3	93.5			10.4
	Fenpropathrin	72.1	54.5	61.0			11.3
	Fipronil	99.3	83.5	94.2			12.0
	Fipronil Desulfinyl	101	84.2	95.6			12.7
	Fipronil Sulfide	87.9	71.9	81.9			12.9
	Fipronil Sulfone	74.9	66.6	82.3			21.1
	Fluazifop-P-butyl	101	89.3	99.0			10.3
	Fludioxonil	87.0	71.9	81.6			12.6
	Flumioxazin	127	102	107			4.71
	Flutolanil	114	99.6	109			9.08
	Fluxapyroxad	95.0	80.0	84.2			5.13
	Fonofos	97.9	85.2	96.4			12.4
	Gamma-BHC	92.0	96.4	96.5			0.0308
	Gamma-Chlordane	68.5	63.8	64.5			1.18
	Heptachlor	68.2	54.2	56.4			4.06
	Heptachlor Epoxide	79.7	66.1	68.7			3.88
	Hexachlorobenzene	74.3	62.6	61.1			2.52
	Hexazinone	98.3	82.2	87.6			6.36
	Imazalil	85.6	73.2	87.0			17.3
	Iprodione	103	78.5	90.4			14.1
	Kepone	150	174	193			10.3
	Lambda-Cyhalothrin	57.9	66.8	74.2			10.4
	Loratadine	131	126	155			20.9
	Malathion	104	90.5	96.5			6.44
	Metalaxyl	87.4	74.9	85.9			9.65
	Methoprene	54.1	60.1	66.0			9.38
	Methoxychlor	79.7	65.3	66.0			1.13
	Metolachlor	102	91.9	100			8.92
	Metribuzin	96.5	77.4	87.1			11.8
	Mevinphos	99.6	80.7	97.1			18.5
	MGK-264	79.4	79.8	82.0			2.72
	Mirex	57.1	53.9	56.0			3.76
	Molinate	64.2	60.4	61.6			1.89
	Myclobutanil	99.0	80.4	91.8			13.2
	Naled	64.0	50.5	61.2			19.1
	Napropamide	86.3	71.3	78.4			9.58
	Norflurazon	95.2	88.6	80.1			8.29
	Octinoxate	74.8	77.3	69.1			11.2

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Oxadiazon	90.5	84.2	91.9			8.83
	Oxybenzone	72.9	74.5	66.3			11.7
	Oxychlordane	76.8	73.0	73.8			1.16
	Oxyfluorfen	109	96.5	101			4.82
	Parathion Ethyl	96.7	77.3	94.7			20.3
	Parathion Methyl	128	105	129			20.5
	PBDE-47	80.7	80.1	74.0			7.89
	PBDE-99	84.5	79.2	76.7			3.16
	PCB-1016	87.3	88.7	90.7			2.23
	PCB-1260	85.9	79.8	85.2			6.51
	Pendimethalin	106	94.8	102			7.66
	Permethrin	67.8	61.5	68.2			10.3
	Phenothrin	46.4	69.8	72.5			3.74
	Phenytoin	28.1	21.9	17.4			22.6
	Phorate	89.3	72.1	90.2			22.3
	Piperonyl Butoxide	67.8	89.0	95.7			7.31
	Prallethrin	71.5	77.4	79.0			2.08
	Prodiamine	35.1	30.0	32.4			7.57
	Prometon	77.9	54.8	51.9			5.46
	Prometryn	97.7	83.5	88.5			5.84
	Pronamide	98.9	101	104			3.03
	Propanil	103	82.8	91.2			9.69
	Propargite	63.1	61.5	54.8			11.6
	Propiconazole	79.4	75.0	68.7			8.67
	Pyraflufen Ethyl	86.0	74.8	69.9			6.76
	Pyridaben	97.6	83.0	92.8			11.2
	Pyriproxyfen	89.1	77.7	79.5			2.40
	Simazine	91.6	100	113			12.3
	Stirophos	65.8	53.1	63.2			17.4
	Sulfentrazone	81.3	61.1	68.7			11.6
	Tau-Fluvalinate	53.8	67.6	74.7			9.94
	Tebuconazole	57.1	46.1	44.4			3.75
	Terbufos	109	98.1	111			12.7
	Terbuthylazine	90.9	80.0	84.7			5.81
	Tetramethrin	97.7	91.4	103			11.8
	Thiobencarb	85.6	78.2	81.9			4.61
	Trans-Nonachlor	74.0	62.8	67.3			6.87
	Tri-o-cresyl Phosphate	77.2	77.8	70.7			9.48
	Triadimefon	79.0	74.3	81.3			9.00
	Triclosan Methyl	78.4	69.2	69.3			0.0541
	Trifluralin	76.2	63.6	65.8			3.43
EPA 8276	Chlordane	95.0	90.3	88.4			1.86
	Toxaphene	99.1	113	110			2.78
EPA 8321B	2,4-D	72.6	80.5	77.7			3.61
	2,4,5-T	67.1	83.6	81.7			2.26
	3-Hydroxycarbofuran	53.0	58.8	47.4			21.4
	Acesulfame K	101	99.6	98.9			0.674
	Acetaminophen	108	74.0	83.6			12.1
	Acetamiprid	72.1	47.7	45.5			4.64
	Afidopyropen	62.7	55.7	67.7			19.4
	Aldicarb	65.9	62.6	73.7			16.3
	Aldicarb Sulfone	98.1	85.5	88.3			3.25
	Aldicarb Sulfoxide	88.6	48.7	45.7			6.48
	AMPA	104	105	108			2.20

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Bentazon	82.1	121	124			1.98
	Benzovindiflupyr	70.1	78.3	83.5			6.34
	Carbamazepine	81.4	74.1	76.9			3.75
	Carbaryl	80.8	96.6	77.3			22.2
	Carbofuran	87.4	90.6	70.4			25.1
	Clothianidin	77.8	49.8	54.6			9.25
	Dinotefuran	73.6	94.1	108			13.7
	Diuron	89.0	85.6	80.7			6.01
	Endothall	97.1	92.9	96.0			3.24
	Fenuron	99.5	97.5	97.1			0.455
	Fluridone	84.5	105	106			1.59
	Glufosinate	103	96.5	94.1			2.45
	Glyphosate	99.6	87.9	83.3			5.37
	Hydrocodone	112	104	113			8.10
	Ibuprofen	59.2	81.2	67.1			19.0
	Imazapyr	73.8	96.8	83.1			15.2
	Imidacloprid	93.3	66.1	74.2			11.5
	Linuron	90.9	91.8	99.3			7.90
	Mandestrobin	86.3	98.0	93.3			4.93
	MCPP	75.2	95.3	88.9			6.97
	Methiocarb	98.9	105	90.6			15.1
	Methomyl	92.8	92.6	85.9			7.52
	Naproxen	84.3	117	125			6.99
	Oxamyl	93.8	94.6	86.5			8.92
	Primidone	70.9	44.9	35.3			24.0
	Propoxur	87.6	82.2	75.5			8.57
	Pyraclostrobin	83.0	92.5	94.9			2.62
	Silvex	59.1	79.1	73.9			6.75
	Sucralose	97.7	95.8	95.0			0.783
	Thiamethoxam	97.2	82.0	89.7			9.02
	Tolfenpyrad	44.1	57.1	61.2			6.89
	Triclopyr	54.9	81.5	73.3			10.5
SM 2320 B-2011	Total Alkalinity	99.1				0.709	
SM 2540 C-2011	TDS					7.74	
SM 4500-F- C-2011	Fluoride	101	102	102			0.470
SM 5310 B-2011	Organic Carbon	95.6	89.1	93.6			3.09

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2353003
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2353003
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2353003
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2353003
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2353004
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2353004
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2353004
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2353004
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2353019
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2353018, 2353020
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2353019
EPA 8270E	PCBs in water matrices by GC/MS/MS	2353018, 2353020

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2353018, 2353020
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2353016
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2353017
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2353003
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2353003
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2353003
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2353003
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2353004

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	08/30/2022			08/30/2022 15:47	Anna M. Plaviak	2353003
EPA 180.1 Rev. 2.0	08/30/2022			08/30/2022 14:36	Chandler E Cox	2353003
EPA 300.0 Rev. 2.1	08/30/2022			09/10/2022 00:56	Anna M. Plaviak	2353003
	08/30/2022			09/14/2022 18:53	Anna M. Plaviak	2353003
EPA 350.1 Rev. 2.0	08/30/2022			09/02/2022 11:48	Ping Hua	2353004
EPA 351.2 Rev. 2.0	08/30/2022	09/02/2022 08:53	Samantha L Bates	09/06/2022 14:06	Samantha L Bates	2353004
EPA 353.2 Rev. 2.0	08/30/2022			09/02/2022 10:44	Beverly Y. Sanders	2353004
EPA 365.1 Rev. 2.0	08/30/2022	09/01/2022 15:55	Simonne.V. Calhoun	09/02/2022 11:20	Simonne.V. Calhoun	2353004
EPA 8270E	08/30/2022	08/30/2022 12:00	Fe-Val Siddell	08/31/2022 19:47	Michael Poppell	2353019
	08/30/2022	08/30/2022 12:00	Fe-Val Siddell	09/01/2022 17:02	Lipi Saha	2353019
	08/30/2022	08/30/2022 12:00	Fe-Val Siddell	09/02/2022 16:10	Michael Poppell	2353019
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/06/2022 20:22	Vandana T. Nagar	2353018
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/06/2022 20:52	Vandana T. Nagar	2353020
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/07/2022 00:44	Julie Wi	2353018
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/07/2022 01:14	Julie Wi	2353020
EPA 8276	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/07/2022 04:29	Arthur Maknenko	2353018
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/07/2022 05:26	Arthur Maknenko	2353020
EPA 8321B	08/30/2022	09/01/2022 09:00	June Rhew	09/08/2022 05:36	Juyoung Kim	2353017
	08/30/2022	09/01/2022 09:00	June Rhew	09/09/2022 02:24	Juyoung Kim	2353017
	08/30/2022	09/01/2022 14:00	Umesh Chiluwal	09/01/2022 23:07	Umesh Chiluwal	2353017
	08/30/2022	09/01/2022 14:00	Umesh Chiluwal	09/03/2022 00:29	Umesh Chiluwal	2353017
	08/30/2022	09/02/2022 13:00	Hoor Shaik	09/07/2022 18:52	Juyoung Kim	2353016
SM 2320 B-2011	08/30/2022			09/08/2022 06:10	Adam P Silver	2353003
SM 2540 C-2011	08/30/2022			09/02/2022 16:08	Yijie Li	2353003
SM 2540 D-2011	08/30/2022			09/02/2022 16:08	Yijie Li	2353003
SM 4500-F- C-2011	08/30/2022			09/08/2022 06:10	Adam P Silver	2353003
SM 5310 B-2011	08/30/2022			09/06/2022 21:31	Khloe J Berg	2353004