

Chemical Analysis Report

SO-DIST-2023-06-01-01

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

Event Description: **2022 SMP: Hatchett Creek**
Request ID: **RQ-2023-05-22-15**
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
Attn: William Mullen

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Certified by: Colin Wright, Program Administrator

Date Certified: 23-JUN-2023 13:03

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

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: HATCHETT CREEK TIDAL 2

Collection Date/Time: 05/31/2023 09:10

Field ID: G3SD0192

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413791	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P430699	
	SM 2320 B-2011	Total Alkalinity	125	A	mg CaCO3/L	P430788	
	SM 2540 D-2015	TSS	3	I	mg/L	P431018	
	SM 4500-F- C-2011	Fluoride	1.3		mg F/L	P431430	
2413792	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P430847	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.35	I	mg N/L	P430766	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P430949	
	EPA 365.1 Rev. 2.0	Total-P	0.055		mg P/L	P430793	
	SM 5310 B-2011	Organic Carbon	3.9	I	mg C/L	P430900	

Ref. Method and Comment:

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

Sample Location: HATCHETT CREEK AT PINEBROOK RD

Collection Date/Time: 05/31/2023 10:00

Field ID: G3SD0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413799	EPA 8270E	Aldrin	0.67	U	ng/L	P430630	
		Alpha-BHC	0.10	U	ng/L	P430630	
		Alpha-Chlordane	0.21	U	ng/L	P430630	
		PCB-1016	2.1	U	ng/L	P430630	
		Beta-BHC	0.10	U	ng/L	P430630	
		PCB-1221	2.1	U	ng/L	P430630	
		Beta-Cyfluthrin	1.3	U	ng/L	P430630	
		PCB-1232	2.1	U	ng/L	P430630	
		Bifenthrin	0.52	U	ng/L	P430630	
		PCB-1242	2.1	U	ng/L	P430630	
		Carbophenothion	0.93	U	ng/L	P430630	RPD
		PCB-1248	2.1	U	ng/L	P430630	
		Chlorothalonil	3.7	U	ng/L	P430630	
		PCB-1254	2.1	U	ng/L	P430630	
		Cis-Nonachlor	0.21	U	ng/L	P430630	
		PCB-1260	2.1	U	ng/L	P430630	
		Cypermethrin	1.6	U	ng/L	P430630	
		Dacthal	0.16	U	ng/L	P430630	
		DDD-p,p'	0.26	U	ng/L	P430630	
		DDE-p,p'	0.21	U	ng/L	P430630	
		DDT-p,p'	0.26	UJ	ng/L	P430630	CCV
		Delta-BHC	0.63	I	ng/L	P430630	
		Deltamethrin	1.3	U	ng/L	P430630	
		Dichlobenil	0.26	U	ng/L	P430630	
		Dicofol	1.3	U	ng/L	P430630	
		Dieldrin	0.41	U	ng/L	P430630	
		Endosulfan I	0.41	U	ng/L	P430630	
		Endosulfan II	0.41	U	ng/L	P430630	
		Endosulfan Sulfate	0.31	U	ng/L	P430630	
		Endrin	0.41	U	ng/L	P430630	
		Endrin Aldehyde	0.78	U	ng/L	P430630	
		Endrin Ketone	0.41	U	ng/L	P430630	
		Esfenvalerate	0.78	U	ng/L	P430630	
		Ethalfuralin	0.16	U	ng/L	P430630	
		Fenpropathrin	0.26	U	ng/L	P430630	
		Gamma-BHC	0.13	U	ng/L	P430630	
		Gamma-Chlordane	0.21	U	ng/L	P430630	
		Heptachlor	0.21	U	ng/L	P430630	
		Heptachlor Epoxide	0.26	U	ng/L	P430630	RPD
		Hexachlorobenzene**	1.0	U	ng/L	P430630	
		Kepone	5.2	U	ng/L	P430630	
		Lambda-Cyhalothrin	0.78	U	ng/L	P430630	
		Methoprene	0.78	U	ng/L	P430630	
		Methoxychlor	0.31	U	ng/L	P430630	

Field ID: G3SD0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413799	EPA 8270E	MGK-264	0.21	U	ng/L	P430630	
		Mirex	0.36	U	ng/L	P430630	
		Oxychlordane	0.31	U	ng/L	P430630	
		Permethrin	1.7	U	ng/L	P430630	
		Phenothrin	0.93	U	ng/L	P430630	
		Piperonyl Butoxide	0.16	U	ng/L	P430630	
		Prallethrin	2.1	U	ng/L	P430630	
		Tau-Fluvalinate	0.26	U	ng/L	P430630	
		Tetramethrin	0.78	U	ng/L	P430630	
		Trans-Nonachlor	0.21	U	ng/L	P430630	RPD
		Triclosan Methyl	0.16	UJ	ng/L	P430630	LCS
		Trifluralin	0.21	U	ng/L	P430630	
	EPA 8276	Chlordane	2.1	U	ng/L	P430630	
		Toxaphene	16	U	ng/L	P430630	

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

Sample Location: ALLIGATOR CREEK AT INFLOW

Collection Date/Time: 05/31/2023 10:35

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413797	EPA 8321B	Aldicarb	0.020	U	ug/L	P430798	MS
		Aldicarb Sulfone	0.0020	U	ug/L	P430798	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P430798	
		Carbaryl	0.0020	U	ug/L	P430798	
		Carbofuran	0.0020	U	ug/L	P430798	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P430798	
		Methiocarb	0.0020	U	ug/L	P430798	
		Methomyl	0.0020	U	ug/L	P430798	
		Oxamyl	0.0020	U	ug/L	P430798	
		Propoxur	0.0020	U	ug/L	P430798	
2413798		2,4-D	0.14		ug/L	P430649	CCV
		Acesulfame K	0.10	U	ug/L	P430640	
		2,4,5-T	0.0040	U	ug/L	P430649	
		AMPA	10	U	ug/L	P430640	
		Acetaminophen	0.0080	U	ug/L	P430649	
		Acetamiprid	0.0020	U	ug/L	P430649	
		Endothall	0.25	U	ug/L	P430640	
		Glufosinate	10	U	ug/L	P430640	
		Glyphosate	10	U	ug/L	P430640	
		Afidopyropen	0.0020	U	ug/L	P430649	
		Bentazon	0.0065		ug/L	P430649	
		Sucralose	1.8		ug/L	P430640	
		Benzovindiflupyr	0.0020	U	ug/L	P430649	
		Carbamazepine	0.0054		ug/L	P430649	
		Clothianidin	0.0020	U	ug/L	P430649	
		Dinotefuran	0.0020	U	ug/L	P430649	
		Diuron	0.0020	U	ug/L	P430649	
		Fenuron	0.032	U	ug/L	P430649	
		Fluridone	0.0033		ug/L	P430649	
		Imazapyr	0.66		ug/L	P430649	
		Hydrocodone	0.0020	U	ug/L	P430649	
		Ibuprofen	0.080	UJ	ug/L	P430649	
		Imidacloprid	0.0067	I	ug/L	P430649	
		Linuron	0.0040	U	ug/L	P430649	
		Mandestrobin	0.0020	U	ug/L	P430649	
		MCPP	0.0029	I	ug/L	P430649	
		Naproxen	0.0080	U	ug/L	P430649	
		Primidone	0.013	I	ug/L	P430649	
		Pyraclostrobin	0.0020	U	ug/L	P430649	
		Silvex	0.0040	U	ug/L	P430649	
		Thiamethoxam	0.0020	U	ug/L	P430649	
		Tolfenpyrad	0.0020	U	ug/L	P430649	
		Triclopyr	0.0040	U	ug/L	P430649	
2413800	EPA 8270E	Aldrin	0.65	U	ng/L	P430630	

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413800	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P430630	CCV
		Alpha-Chlordane	0.20	U	ng/L	P430630	
		PCB-1016	2.0	U	ng/L	P430630	
		Beta-BHC	0.10	U	ng/L	P430630	
		PCB-1221	2.0	U	ng/L	P430630	
		Beta-Cyfluthrin	1.3	U	ng/L	P430630	
		PCB-1232	2.0	U	ng/L	P430630	
		Bifenthrin	0.50	U	ng/L	P430630	
		PCB-1242	2.0	U	ng/L	P430630	
		PCB-1248	2.0	U	ng/L	P430630	
		Chlorothalonil	3.6	U	ng/L	P430630	
		PCB-1254	2.0	U	ng/L	P430630	
		Cis-Nonachlor	0.20	U	ng/L	P430630	
		PCB-1260	2.0	U	ng/L	P430630	
		Cypermethrin	1.5	U	ng/L	P430630	
		Dacthal	0.15	U	ng/L	P430630	
		DDD-p,p'	0.25	U	ng/L	P430630	
		DDE-p,p'	0.20	U	ng/L	P430630	
		DDT-p,p'	0.25	UJ	ng/L	P430630	
		Delta-BHC	0.40	U	ng/L	P430630	
		Deltamethrin	1.3	U	ng/L	P430630	
		Dichlobenil	0.25	U	ng/L	P430630	
		Dicofol	1.3	U	ng/L	P430630	
		Dieldrin	0.40	U	ng/L	P430630	
		Endosulfan I	0.40	U	ng/L	P430630	
		Endosulfan II	0.40	U	ng/L	P430630	
		Endosulfan Sulfate	0.30	U	ng/L	P430630	
		Endrin	0.40	U	ng/L	P430630	
		Endrin Aldehyde	0.75	U	ng/L	P430630	
		Endrin Ketone	0.40	U	ng/L	P430630	
		Esfenvalerate	0.75	U	ng/L	P430630	
		Ethalfuralin	0.15	U	ng/L	P430630	
		Fenpropathrin	0.25	U	ng/L	P430630	
		Gamma-BHC	0.13	U	ng/L	P430630	
		Gamma-Chlordane	0.20	U	ng/L	P430630	
		Heptachlor	0.20	U	ng/L	P430630	
		Heptachlor Epoxide	0.25	U	ng/L	P430630	RPD
		Hexachlorobenzene**	1.0	U	ng/L	P430630	
		Kepone	5.0	U	ng/L	P430630	
		Lambda-Cyhalothrin	0.75	U	ng/L	P430630	
		Methoprene	0.75	U	ng/L	P430630	
		Methoxychlor	0.30	U	ng/L	P430630	
		MGK-264	0.20	U	ng/L	P430630	
		Mirex	0.35	U	ng/L	P430630	
		Oxychlordane	0.30	U	ng/L	P430630	

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413800	EPA 8270E	Permethrin	1.6	U	ng/L	P430630	
		Phenothrin	0.91	U	ng/L	P430630	
		Piperonyl Butoxide	0.49	I	ng/L	P430630	
		Prallethrin	2.0	U	ng/L	P430630	
		Tau-Fluvalinate	0.25	U	ng/L	P430630	
		Tetramethrin	0.75	U	ng/L	P430630	
		Trans-Nonachlor	0.20	U	ng/L	P430630	RPD
		Triclosan Methyl	0.15	UJ	ng/L	P430630	LCS
		Trifluralin	0.20	U	ng/L	P430630	
		Chlordane	2.0	U	ng/L	P430630	
2413801	EPA 8270E	Toxaphene	15	U	ng/L	P430630	
		Oxybenzone**	10	U	ng/L	P430753	MS
		Acetochlor	0.20	U	ng/L	P430753	MS, RPD
		Octinoxate**	71	V	ng/L	P430753	
		Alachlor	0.40	U	ng/L	P430753	
		Avobenzone**	100	U	ng/L	P430753	
		Ametryn	1.1	U	ng/L	P430753	
		Atrazine	26		ng/L	P430753	
		PBDE-47**	4.0	U	ng/L	P430753	MS
		Atrazine Desethyl	7.9		ng/L	P430753	
		PBDE-99**	5.0	U	ng/L	P430753	
		Azinphos Methyl	3.0	U	ng/L	P430753	
		Tri-o-cresyl Phosphate**	6.0	U	ng/L	P430753	
		Azoxystrobin	0.40	U	ng/L	P430753	
		Bromacil	0.60	U	ng/L	P430753	
		2-Ethylhexyl	12	U	ng/L	P430753	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.20	U	ng/L	P430753	
		Dechlorane Plus**	30	U	ng/L	P430753	
		Caffeine**	24	I	ng/L	P430753	
		Dechlorane 602**	5.0	U	ng/L	P430753	
		Carbophenothion	0.50	U	ng/L	P430753	
		Dechlorane 603**	4.0	UJ	ng/L	P430753	LCS, MS
		Carfentrazone Ethyl	0.15	U	ng/L	P430753	
		Hexabromobenzene**	6.0	U	ng/L	P430753	MS
		Chlorfenapyr	0.30	U	ng/L	P430753	
		PBB-153**	8.0	U	ng/L	P430753	MS
		Chlorpyrifos Ethyl	0.30	U	ng/L	P430753	
		Pentabromotoluene**	3.0	U	ng/L	P430753	
		Chlorpyrifos Methyl	0.10	U	ng/L	P430753	
		Tris(2-chloroethyl) phosphate (TCEP)**	70	U	ng/L	P430753	
		Coumaphos	1.1	U	ng/L	P430753	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	52		ng/L	P430753	
		Cyanazine	5.0	U	ng/L	P430753	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	7.8		ng/L	P430753	

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413801	EPA 8270E	Cyprodinil	0.20	U	ng/L	P430753	LCS, MS
		Tetradecachloro-m-terphenyl**	7.5	UJ	ng/L	P430753	
		Demeton	3.5	U	ng/L	P430753	
		Diazinon	0.13	U	ng/L	P430753	
		Difenoconazole	0.60	U	ng/L	P430753	
		Dimethenamid	0.10	U	ng/L	P430753	
		Dimethomorph	0.30	U	ng/L	P430753	
		Disulfoton	0.60	U	ng/L	P430753	
		Dithiopyr	1.0	U	ng/L	P430753	
		EPTC	0.50	U	ng/L	P430753	
		Ethion	0.30	U	ng/L	P430753	
		Ethoprop	0.13	U	ng/L	P430753	
		Etridiazole	0.10	U	ng/L	P430753	
		Fenamiphos	0.45	U	ng/L	P430753	
		Fenbuconazole	0.50	U	ng/L	P430753	
		Fipronil	0.20	U	ng/L	P430753	
		Fipronil DesulfinyI**	0.73		ng/L	P430753	
		Fipronil Sulfide	0.22	I	ng/L	P430753	
		Fipronil Sulfone	1.1		ng/L	P430753	
		Fluazifop-P-butyl	0.10	U	ng/L	P430753	
		Fludioxonil	0.10	U	ng/L	P430753	
		Flumioxazin	3.0	U	ng/L	P430753	
		Flutolanil	0.10	U	ng/L	P430753	
		Fluxapyroxad	0.76	I	ng/L	P430753	
		Fonofos	0.15	U	ng/L	P430753	
		Hexazinone	0.50	U	ng/L	P430753	
		Imazalil	0.65	U	ng/L	P430753	
		Iprodione	0.50	U	ng/L	P430753	
		Loratadine**	0.30	U	ng/L	P430753	
		Malathion	0.35	U	ng/L	P430753	
		Metalaxyl	0.50	U	ng/L	P430753	
		Metolachlor	0.75	U	ng/L	P430753	
		Metribuzin	0.40	U	ng/L	P430753	
		Mevinphos	1.0	U	ng/L	P430753	
		Molinate	0.25	U	ng/L	P430753	
		Myclobutanil	0.35	U	ng/L	P430753	
		Naled	2.5	U	ng/L	P430753	
		Napropamide	0.70	U	ng/L	P430753	
		Norflurazon	1.0	U	ng/L	P430753	
		Oxadiazon	1.4	I	ng/L	P430753	
		Oxyfluorfen	0.20	U	ng/L	P430753	
		Parathion Ethyl	0.15	U	ng/L	P430753	
		Parathion Methyl	0.20	U	ng/L	P430753	
		Pendimethalin	0.75	UJ	ng/L	P430753	LCS, MS
		Phenytain**	5.3	U	ng/L	P430753	

Field ID: G2SD0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2413801	EPA 8270E	Phorate	0.25	U	ng/L	P430753	
		Prodiamine	0.20	U	ng/L	P430753	
		Prometon	3.0	U	ng/L	P430753	
		Prometryn	0.35	U	ng/L	P430753	
		Pronamide	0.10	U	ng/L	P430753	
		Propanil	0.10	U	ng/L	P430753	
		Propargite	0.80	U	ng/L	P430753	
		Propiconazole	0.60	U	ng/L	P430753	
		Pyraflufen Ethyl	0.30	U	ng/L	P430753	
		Pyridaben	1.4	U	ng/L	P430753	
		Pyriproxyfen	0.25	U	ng/L	P430753	
		Simazine	0.25	U	ng/L	P430753	
		Stirophos	0.40	U	ng/L	P430753	
		Sulfentrazone	4.2	I	ng/L	P430753	
		Tebuconazole	1.4	U	ng/L	P430753	
		Terbufos	0.20	U	ng/L	P430753	
		Terbutylazine	0.20	U	ng/L	P430753	
		Thiobencarb	0.50	U	ng/L	P430753	
		Triadimefon	0.15	U	ng/L	P430753	

Ref. Method and Comment:

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

EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

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

EPA 8270E: V - Due to the presence of octinoxate in both the Method Blank and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430699

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430847

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430766

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430949

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430793

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

Reference Method: EPA 8270E
Batch ID: P430630

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	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P430630

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P430630

Component	Result	Code	Units
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P430753

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P430753

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P430753

Component	Result	Code	Units
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P430753

Component	Result	Code	Units
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	86		ng/L
Octinoxate	31	I	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	5.3	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P430753

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

Reference Method: EPA 8276

Batch ID: P430630

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P430640

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: P430649

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

Reference Method: EPA 8321B

Batch ID: P430798

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: P430788

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P431018

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431430

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P430900

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430699

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430847

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430766

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430949

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430793

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.0		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P430630

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	51.0		P	10 - 92.0
Alpha-BHC	97.0		P	75 - 107
Alpha-Chlordane	55.0		P	50 - 108
Beta-BHC	132		P	36 - 138
Beta-Cyfluthrin	86.0		P	20 - 161
Bifenthrin	39.6		P	10 - 119
Carbophenothion	40.8		P	19 - 94.0
Chlorothalonil	94.2		P	26 - 186
Cis-Nonachlor	73.5		P	42 - 119
Cypermethrin	88.1		P	22 - 150
Dacthal	108		P	72 - 119
DDD-p,p'	76.9		P	45 - 107
DDE-p,p'	63.5		P	48 - 106
DDT-p,p'	67.1		P	48 - 110
Delta-BHC	116		P	54 - 140
Deltamethrin	123		P	22 - 189
Dichlobenil	105		P	36 - 117
Dicofol	53.5		P	46 - 155
Dieldrin	68.7		P	54 - 110
Endosulfan I	67.7		P	59 - 105
Endosulfan II	82.2		P	51 - 118
Endosulfan Sulfate	59.5		P	57 - 121

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P430630

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	105		P	10 - 120
Endrin Aldehyde	96.1		P	34 - 118
Endrin Ketone	76.3		P	69 - 177
Esfenvalerate	76.0		P	23 - 168
Ethalfuralin	69.7		P	49 - 99.0
Fenpropathrin	84.7		P	34 - 117
Gamma-BHC	117		P	72 - 117
Gamma-Chlordane	87.2		P	43 - 106
Heptachlor	57.2		P	41 - 98.0
Heptachlor Epoxide	64.5		P	57 - 106
Hexachlorobenzene	39.6		P	36 - 99.0
Kepone	46.5		P	16 - 215
Lambda-Cyhalothrin	80.6		P	21 - 177
Methoprene	64.6		P	10 - 119
Methoxychlor	84.7		P	60 - 112
MGK-264	87.8		P	26 - 122
Mirex	62.9		P	10 - 169
Oxychlordane	59.6		P	43 - 105
PCB-1016	68.8		P	48 - 112
PCB-1260	63.0		P	44 - 118
Permethrin	87.0		P	24 - 148
Phenothrin	93.5		P	10 - 106
Piperonyl Butoxide	132		P	10 - 139
Prallethrin	60.8		P	17 - 109
Tau-Fluvalinate	88.0		P	13 - 131
Tetramethrin	118		P	10 - 132
Trans-Nonachlor	48.8		P	44 - 106
Triclosan Methyl	54.6		F	59 - 109
Trifluralin	60.5		P	44 - 101

Reference Method: EPA 8270E

Batch ID: P430753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	123		P	42 - 162
Acetochlor	83.2		P	69 - 123
Alachlor	97.7		P	65 - 118
Ametryn	122		P	58 - 141
Atrazine	91.2		P	73 - 118
Atrazine Desethyl	94.9		P	32 - 125
Avobenzone	180		P	40 - 203
Azinphos Methyl	105		P	36 - 197
Azoxystrobin	111		P	58 - 226
Bromacil	115		P	48 - 120
Butylate	67.9		P	27 - 85.0
Caffeine	86.1		P	40 - 137
Carbophenothion	110		P	54 - 132
Carfentrazone Ethyl	116		P	60 - 142
Chlorfenapyr	76.2		P	53 - 117
Chlorpyrifos Ethyl	87.2		P	59 - 116
Chlorpyrifos Methyl	95.9		P	66 - 119
Coumaphos	131		P	11 - 234

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P430753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cyanazine	172		P	61 - 248
Cyprodinil	106		P	50 - 147
Dechlorane 602	115		P	50 - 150
Dechlorane 603	162		F	50 - 150
Dechlorane Plus	135		P	47 - 182
Demeton	81.5		P	30 - 138
Diazinon	111		P	67 - 126
Difenoconazole	114		P	38 - 205
Dimethenamid	94.8		P	57 - 111
Dimethomorph	117		P	16 - 212
Disulfoton	102		P	46 - 126
Dithiopyr	101		P	62 - 115
EPTC	67.3		P	28 - 80.0
Ethion	70.7		P	24 - 122
Ethoprop	93.4		P	62 - 113
Etridiazole	76.7		P	28 - 92.0
Fenamiphos	87.5		P	57 - 128
Fenbuconazole	83.5		P	52 - 155
Fipronil	93.5		P	63 - 130
Fipronil Desulfinyl	107		P	61 - 130
Fipronil Sulfide	90.4		P	56 - 117
Fipronil Sulfone	105		P	52 - 118
Fluazifop-P-butyl	76.6		P	61 - 128
Fludioxonil	87.7		P	59 - 129
Flumioxazin	151		P	30 - 250
Flutolanil	96.8		P	53 - 127
Fluxapyroxad	103		P	42 - 132
Fonofos	91.5		P	61 - 110
Hexabromobenzene	109		P	50 - 150
Hexazinone	99.7		P	46 - 139
Imazalil	84.1		P	40 - 139
Iprodione	87.9		P	40 - 146
Loratadine	150		P	10 - 224
Malathion	102		P	61 - 135
Metalaxyl	92.3		P	58 - 121
Metolachlor	106		P	64 - 118
Metribuzin	97.7		P	45 - 245
Mevinphos	88.1		P	49 - 118
Molinate	64.7		P	42 - 92.0
Myclobutanil	105		P	55 - 127
Naled	45.2		P	10 - 114
Napropamide	89.3		P	39 - 121
Norflurazon	106		P	55 - 129
Octinoxate	148		P	26 - 166
Oxadiazon	97.6		P	54 - 115
Oxybenzone	135		P	49 - 135
Oxyfluorfen	117		P	64 - 139
Parathion Ethyl	96.9		P	70 - 111
Parathion Methyl	94.8		P	76 - 136
PBB-153	115		P	50 - 150
PBDE-47	126		P	41 - 148
PBDE-99	108		P	38 - 147

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P430753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pendimethalin	149		F	52 - 118
Pentabromotoluene	130		P	50 - 150
Phenytoin	119		P	10 - 162
Phorate	98.3		P	40 - 122
Prodiamine	77.9		P	26 - 141
Prometon	113		P	54 - 122
Prometryn	109		P	61 - 128
Pronamide	115		P	72 - 121
Propanil	120		P	45 - 144
Propargite	99.6		P	10 - 199
Propiconazole	89.0		P	56 - 127
Pyraflufen Ethyl	76.9		P	56 - 140
Pyridaben	107		P	26 - 211
Pyriproxyfen	108		P	33 - 194
Simazine	87.3		P	67 - 121
Stirophos	89.5		P	20 - 142
Sulfentrazone	95.4		P	21 - 144
Tebuconazole	91.3		P	10 - 122
Terbufos	107		P	60 - 129
Terbutylazine	90.1		P	69 - 113
Tetradecachloro-m-terphenyl	220		F	70 - 200
Thiobencarb	103		P	51 - 120
Tri-o-cresyl Phosphate	133		P	49 - 150
Triadimefon	107		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	115		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	123		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	118		P	70 - 180

Reference Method: EPA 8276

Batch ID: P430630

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	75.8		P	61 - 116
Toxaphene	76.2		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P430640

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	113		P	40 - 150
AMPA	110		P	40 - 150
Endothall	93.5		P	40 - 150
Glufosinate	96.2		P	40 - 150
Glyphosate	89.6		P	40 - 150
Sucralose	104		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P430649

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	113		P	40 - 150
2,4,5-T	73.2		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P430649

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	86.4		P	30 - 150
Acetamiprid	68.2		P	40 - 150
Afidopyropen	63.8		P	30 - 150
Bentazon	118		P	30 - 150
Benzovindiflupyr	81.4		P	40 - 150
Carbamazepine	86.4		P	40 - 150
Clothianidin	83.1		P	40 - 150
Dinotefuran	95.4		P	40 - 150
Diuron	104		P	40 - 150
Fenuron	79.7		P	40 - 150
Fluridone	90.6		P	40 - 150
Hydrocodone	83.2		P	40 - 150
Ibuprofen	89.6		P	40 - 150
Imazapyr	102		P	40 - 150
Imidacloprid	78.1		P	40 - 150
Linuron	80.8		P	40 - 150
Mandestrobin	86.1		P	40 - 150
MCPP	88.1		P	40 - 150
Naproxen	45.1		P	40 - 150
Primidone	85.8		P	40 - 150
Pyraclostrobin	69.0		P	40 - 150
Silvex	83.2		P	40 - 150
Thiamethoxam	77.2		P	40 - 150
Tolfenpyrad	48.2		P	30 - 150
Triclopyr	73.1		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P430798

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.8		P	40 - 150
Aldicarb	60.4		P	30 - 150
Aldicarb Sulfone	94.9		P	40 - 150
Aldicarb Sulfoxide	102		P	40 - 150
Carbaryl	70.4		P	40 - 150
Carbofuran	76.6		P	40 - 150
Methiocarb	79.1		P	40 - 150
Methomyl	73.8		P	40 - 150
Oxamyl	87.3		P	40 - 150
Propoxur	73.5		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P430788

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.1		P	92 - 105

Reference Method: SM 2540 D-2015

Batch ID: P431018

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P431430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.3		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P430900

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 350.1 Rev. 2.0
Batch ID: P430847

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413792	Ammonia-N	98.0	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430766

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413639	Kjeldahl Nitrogen	110	107	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430949

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413746	NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430793

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413962	Total-P	99.6	99.9	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P430630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414061	PCB-1016	57.4	58.2	P/P	46 - 111
2414061	PCB-1260	62.9	50.6	P/P	45 - 114
2414270	Aldrin	45.7	51.7	P/P	20 - 82.0
2414270	Alpha-BHC	91.4	83.8	P/P	71 - 109
2414270	Alpha-Chlordane	56.2	71.7	P/P	42 - 106
2414270	Beta-BHC	84.7	82.0	P/P	69 - 180
2414270	Beta-Cyfluthrin	91.7	73.9	P/P	18 - 175
2414270	Bifenthrin	66.9	50.2	P/P	21 - 128
2414270	Carbophenothion	50.0	72.3	P/P	10 - 126
2414270	Chlorothalonil	101	83.2	P/P	10 - 300
2414270	Cis-Nonachlor	59.3	70.5	P/P	34 - 106
2414270	Cypermethrin	91.2	79.7	P/P	22 - 158
2414270	Dacthal	73.3	82.8	P/P	54 - 116
2414270	DDD-p,p'	53.9	53.1	P/P	34 - 107
2414270	DDE-p,p'	64.3	67.0	P/P	33 - 110
2414270	DDT-p,p'	64.3	66.6	P/P	50 - 122
2414270	Delta-BHC	107	78.5	P/P	77 - 193
2414270	Deltamethrin	177	139	P/P	10 - 195
2414270	Dichlobenil	56.3	58.2	P/P	25 - 113
2414270	Dicofol	52.6	60.8	P/P	38 - 247
2414270	Dieldrin	67.5	76.5	P/P	45 - 118
2414270	Endosulfan I	54.1	60.8	P/P	51 - 106
2414270	Endosulfan II	77.7	87.6	P/P	37 - 122
2414270	Endosulfan Sulfate	63.9	75.8	P/P	43 - 132
2414270	Endrin	71.9	99.8	P/P	29 - 101
2414270	Endrin Aldehyde	78.2	106	P/P	19 - 110
2414270	Endrin Ketone	79.1	112	P/P	60 - 140
2414270	Esfenvalerate	119	96.1	P/P	26 - 199

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P430630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414270	Ethalfuralin	68.5	80.5	P/P	45 - 99.0
2414270	Fenpropathrin	84.5	61.3	P/P	35 - 120
2414270	Gamma-BHC	83.4	84.6	P/P	63 - 128
2414270	Gamma-Chlordane	49.3	68.9	P/P	40 - 104
2414270	Heptachlor	55.2	66.8	P/P	36 - 97.0
2414270	Heptachlor Epoxide	55.2	82.2	P/P	49 - 184
2414270	Hexachlorobenzene	39.2	49.6	P/P	39 - 96.0
2414270	Kepone	63.2	71.6	P/P	10 - 217
2414270	Lambda-Cyhalothrin	108	97.0	P/P	21 - 193
2414270	Methoprene	54.1	63.3	P/P	20 - 106
2414270	Methoxychlor	88.7	86.5	P/P	53 - 118
2414270	MGK-264	63.1	83.1	P/P	40 - 118
2414270	Mirex	61.5	69.4	P/P	26 - 92.0
2414270	Oxychlordane	49.9	66.0	P/P	44 - 99.0
2414270	Permethrin	85.3	80.1	P/P	33 - 182
2414270	Phenothrin	74.2	83.7	P/P	10 - 129
2414270	Piperonyl Butoxide	139	162	P/P	10 - 211
2414270	Prallethrin	58.6	62.6	P/P	24 - 113
2414270	Tau-Fluvalinate	127	117	P/P	14 - 149
2414270	Tetramethrin	118	122	P/P	17 - 151
2414270	Trans-Nonachlor	50.1	84.7	P/P	42 - 102
2414270	Triclosan Methyl	50.2	56.7	P/P	48 - 108
2414270	Trifluralin	53.9	62.1	P/P	47 - 96.0

Reference Method: EPA 8270E

Batch ID: P430753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413839	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	159	149	P/P	26 - 165
2413839	Acetochlor	108	57.3	P/F	67 - 124
2413839	Alachlor	106	95.0	P/P	60 - 120
2413839	Ametryn	134	127	P/P	54 - 216
2413839	Atrazine Desethyl	90.1	95.5	P/P	15 - 122
2413839	Avobenzene	177	175	P/P	37 - 178
2413839	Azinphos Methyl	103	94.0	P/P	40 - 292
2413839	Azoxystrobin	110	122	P/P	35 - 220
2413839	Bromacil	121	122	P/P	45 - 127
2413839	Butylate	54.9	61.3	P/P	20 - 83.0
2413839	Caffeine	92.3	91.7	P/P	10 - 194
2413839	Carbophenothion	117	110	P/P	57 - 127
2413839	Carfentrazone Ethyl	129	117	P/P	51 - 141
2413839	Chlorfenapyr	79.2	87.0	P/P	46 - 111
2413839	Chlorpyrifos Ethyl	92.0	86.4	P/P	52 - 120
2413839	Chlorpyrifos Methyl	103	103	P/P	63 - 119
2413839	Coumaphos	134	125	P/P	10 - 228
2413839	Cyanazine	172	206	P/P	59 - 241
2413839	Cyprodinil	114	105	P/P	47 - 146
2413839	Dechlorane 602	143	108	P/P	50 - 150
2413839	Dechlorane 603	187	185	F/F	50 - 150
2413839	Dechlorane Plus	130	123	P/P	50 - 150
2413839	Demeton	79.9	81.0	P/P	40 - 136
2413839	Diazinon	120	112	P/P	69 - 132

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P430753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413839	Difenoconazole	127	95.8	P/P	57 - 258
2413839	Dimethenamid	96.9	89.7	P/P	54 - 110
2413839	Dimethomorph	110	173	P/P	28 - 210
2413839	Disulfoton	107	105	P/P	43 - 133
2413839	Dithiopyr	100	93.1	P/P	39 - 116
2413839	EPTC	53.5	58.1	P/P	20 - 78.0
2413839	Ethion	77.8	48.1	P/P	17 - 119
2413839	Ethoprop	93.7	96.6	P/P	66 - 120
2413839	Etridiazole	69.6	72.3	P/P	28 - 96.0
2413839	Fenamiphos	95.5	79.2	P/P	41 - 126
2413839	Fenbuconazole	84.7	81.9	P/P	42 - 169
2413839	Fipronil	111	104	P/P	61 - 132
2413839	Fipronil Desulfinyl	121	106	P/P	56 - 132
2413839	Fipronil Sulfide	100	92.0	P/P	48 - 119
2413839	Fipronil Sulfone	117	97.7	P/P	42 - 131
2413839	Fluazifop-P-butyl	73.6	80.4	P/P	53 - 131
2413839	Fludioxonil	94.5	89.8	P/P	56 - 127
2413839	Flumioxazin	176	144	P/P	19 - 300
2413839	Flutolanil	95.1	79.9	P/P	41 - 127
2413839	Fluxapyroxad	122	98.9	P/P	42 - 172
2413839	Fonofos	95.4	97.0	P/P	59 - 113
2413839	Hexabromobenzene	172	174	F/F	50 - 150
2413839	Hexazinone	104	95.6	P/P	66 - 122
2413839	Imazalil	64.2	72.3	P/P	21 - 283
2413839	Iprodione	101	87.0	P/P	43 - 150
2413839	Loratadine	157	148	P/P	23 - 201
2413839	Malathion	113	107	P/P	58 - 136
2413839	Metalaxyl	98.6	94.9	P/P	55 - 120
2413839	Metolachlor	110	98.5	P/P	57 - 121
2413839	Metribuzin	102	107	P/P	58 - 294
2413839	Mevinphos	92.2	93.9	P/P	50 - 126
2413839	Molinate	60.0	64.8	P/P	42 - 93.0
2413839	Myclobutanil	117	120	P/P	55 - 125
2413839	Naled	42.6	41.0	P/P	18 - 200
2413839	Napropamide	101	69.7	P/P	39 - 110
2413839	Norflurazon	122	113	P/P	48 - 128
2413839	Octinoxate	154	157	P/P	21 - 159
2413839	Oxadiazon	104	98.2	P/P	43 - 112
2413839	Oxybenzone	146	156	F/F	41 - 142
2413839	Oxyfluorfen	123	107	P/P	64 - 153
2413839	Parathion Ethyl	101	96.8	P/P	69 - 114
2413839	Parathion Methyl	103	104	P/P	79 - 139
2413839	PBB-153	178	180	F/F	50 - 150
2413839	PBDE-47	151	139	F/P	27 - 144
2413839	PBDE-99	148	134	P/P	18 - 150
2413839	Pendimethalin	163	139	F/P	50 - 139
2413839	Pentabromotoluene	141	146	P/P	50 - 150
2413839	Phenytoin	102	80.4	P/P	10 - 146
2413839	Phorate	99.4	116	P/P	54 - 161
2413839	Prodiamine	100	70.3	P/P	30 - 161
2413839	Prometon	107	95.3	P/P	45 - 134
2413839	Prometryn	107	108	P/P	45 - 137

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P430753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413839	Pronamide	124	119	P/P	65 - 133
2413839	Propanil	133	127	P/P	49 - 142
2413839	Propargite	108	72.9	P/P	10 - 203
2413839	Propiconazole	98.9	94.0	P/P	38 - 146
2413839	Pyraflufen Ethyl	71.8	73.7	P/P	34 - 153
2413839	Pyridaben	116	96.4	P/P	12 - 192
2413839	Pyriproxyfen	93.3	97.6	P/P	33 - 180
2413839	Simazine	97.7	91.7	P/P	51 - 157
2413839	Stiropfos	102	75.4	P/P	10 - 128
2413839	Sulfentrazone	109	102	P/P	53 - 186
2413839	Tebuconazole	108	71.4	P/P	10 - 133
2413839	Terbufos	112	118	P/P	65 - 139
2413839	Terbutylazine	96.5	95.6	P/P	66 - 117
2413839	Tetradecachloro-m-terphenyl	236	262	F/F	70 - 200
2413839	Thiobencarb	116	110	P/P	51 - 119
2413839	Tri-o-cresyl Phosphate	142	143	P/P	31 - 144
2413839	Triadimefon	114	116	P/P	48 - 119
2413839	Tris(1-chloro-2-propyl) phosphate (TCPP)	93.1	96.0	P/P	50 - 150
2413839	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	131	130	P/P	50 - 150
2413839	Tris(2-chloroethyl) phosphate (TCEP)	130	137	P/P	70 - 180

Reference Method: EPA 8276

Batch ID: P430630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414061	Chlordane	85.4	77.2	P/P	53 - 126
2414061	Toxaphene	92.1	79.7	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P430640

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413241	Acesulfame K	116	117	P/P	40 - 150
2413241	AMPA	94.5	92.1	P/P	40 - 150
2413241	Endothall	94.8	91.2	P/P	40 - 150
2413241	Glufosinate	82.2	85.9	P/P	40 - 150
2413241	Glyphosate	81.1	86.0	P/P	40 - 150
2413241	Sucralose	126	104	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P430649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413433	2,4-D	97.5	95.5	P/P	40 - 150
2413433	2,4,5-T	84.5	89.9	P/P	40 - 150
2413433	Acetaminophen	93.7	86.9	P/P	30 - 150
2413433	Acetamiprid	44.4	55.8	P/P	40 - 150
2413433	Afidopyropen	52.6	69.4	P/P	30 - 150
2413433	Bentazon	79.6	84.6	P/P	30 - 150
2413433	Benzovindiflupyr	84.4	76.5	P/P	40 - 150
2413433	Carbamazepine	73.1	72.2	P/P	40 - 150
2413433	Clothianidin	83.3	80.7	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P430649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413433	Dinotefuran	69.7	65.7	P/P	40 - 150
2413433	Diuron	88.4	82.3	P/P	40 - 150
2413433	Fenuron	55.3	55.4	P/P	40 - 150
2413433	Fluridone	82.7	74.3	P/P	40 - 150
2413433	Hydrocodone	65.4	63.9	P/P	40 - 150
2413433	Ibuprofen	47.6	57.7	P/P	40 - 150
2413433	Imazapyr	95.3	91.0	P/P	40 - 150
2413433	Imidacloprid	109	103	P/P	40 - 150
2413433	Linuron	77.2	78.7	P/P	40 - 150
2413433	Mandestrobin	80.8	83.2	P/P	40 - 150
2413433	MCPP	82.9	82.4	P/P	40 - 150
2413433	Naproxen	54.3	42.9	P/P	40 - 150
2413433	Primidone	84.3	76.6	P/P	40 - 150
2413433	Pyraclostrobin	79.6	79.0	P/P	40 - 150
2413433	Silvex	73.4	77.5	P/P	40 - 150
2413433	Thiamethoxam	72.7	73.5	P/P	40 - 150
2413433	Tolfenpyrad	54.1	46.5	P/P	30 - 150
2413433	Triclopyr	79.4	76.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430798

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413797	3-Hydroxycarbofuran	86.9	86.3	P/P	40 - 150
2413797	Aldicarb	57.9	63.4	P/P	30 - 150
2413797	Aldicarb Sulfone	84.6	84.4	P/P	40 - 150
2413797	Aldicarb Sulfoxide	35.8	37.4	F/F	40 - 150
2413797	Carbaryl	74.1	65.1	P/P	40 - 150
2413797	Carbofuran	57.1	58.5	P/P	40 - 150
2413797	Methiocarb	69.2	67.5	P/P	40 - 150
2413797	Methomyl	59.7	59.4	P/P	40 - 150
2413797	Oxamyl	72.5	72.9	P/P	40 - 150
2413797	Propoxur	56.3	57.1	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P431430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2414949	Fluoride	105	104	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P430900

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2413962	Organic Carbon	89.3	92.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430699

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413744	Turbidity	1.01	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430847

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413792	Ammonia-N	0.987	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413639	Kjeldahl Nitrogen	2.30	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430949

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413746	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430793

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413962	Total-P	0.240	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P430630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414061	PCB-1016	1.26	Spike	P	0 - 32
2414061	PCB-1260	17.9	Spike	P	0 - 31
2414270	Aldrin	12.2	Spike	P	0 - 41
2414270	Alpha-BHC	8.62	Spike	P	0 - 25
2414270	Alpha-Chlordane	24.2	Spike	P	0 - 33
2414270	Beta-BHC	3.21	Spike	P	0 - 36
2414270	Beta-Cyfluthrin	21.5	Spike	P	0 - 42
2414270	Bifenthrin	28.6	Spike	P	0 - 53
2414270	Carbophenothion	36.4	Spike	F	0 - 30
2414270	Chlorothalonil	19.7	Spike	P	0 - 71
2414270	Cis-Nonachlor	17.2	Spike	P	0 - 29
2414270	Cypermethrin	13.4	Spike	P	0 - 40
2414270	Dacthal	12.2	Spike	P	0 - 26
2414270	DDD-p,p'	1.53	Spike	P	0 - 39
2414270	DDE-p,p'	4.16	Spike	P	0 - 33
2414270	DDT-p,p'	3.52	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P430630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414270	Delta-BHC	30.6	Spike	P	0 - 37
2414270	Deltamethrin	24.1	Spike	P	0 - 100
2414270	Dichlobenil	3.38	Spike	P	0 - 40
2414270	Dicofol	14.5	Spike	P	0 - 31
2414270	Dieldrin	12.5	Spike	P	0 - 27
2414270	Endosulfan I	11.6	Spike	P	0 - 23
2414270	Endosulfan II	12.1	Spike	P	0 - 28
2414270	Endosulfan Sulfate	17.1	Spike	P	0 - 38
2414270	Endrin	32.5	Spike	P	0 - 63
2414270	Endrin Aldehyde	29.9	Spike	P	0 - 60
2414270	Endrin Ketone	34.3	Spike	P	0 - 37
2414270	Esfenvalerate	21.4	Spike	P	0 - 52
2414270	Ethalfuralin	16.1	Spike	P	0 - 23
2414270	Fenpropathrin	31.8	Spike	P	0 - 32
2414270	Gamma-BHC	1.40	Spike	P	0 - 17
2414270	Gamma-Chlordane	33.2	Spike	P	0 - 40
2414270	Heptachlor	19.0	Spike	P	0 - 29
2414270	Heptachlor Epoxide	39.3	Spike	F	0 - 25
2414270	Hexachlorobenzene	23.2	Spike	P	0 - 36
2414270	Kepone	12.5	Spike	P	0 - 93
2414270	Lambda-Cyhalothrin	10.3	Spike	P	0 - 55
2414270	Methoprene	15.6	Spike	P	0 - 53
2414270	Methoxychlor	2.49	Spike	P	0 - 29
2414270	MGK-264	27.3	Spike	P	0 - 35
2414270	Mirex	12.1	Spike	P	0 - 46
2414270	Oxychlordane	27.7	Spike	P	0 - 29
2414270	Permethrin	6.29	Spike	P	0 - 44
2414270	Phenothrin	12.0	Spike	P	0 - 56
2414270	Piperonyl Butoxide	14.9	Spike	P	0 - 100
2414270	Prallethrin	6.56	Spike	P	0 - 42
2414270	Tau-Fluvalinate	8.23	Spike	P	0 - 54
2414270	Tetramethrin	3.53	Spike	P	0 - 51
2414270	Trans-Nonachlor	51.3	Spike	F	0 - 37
2414270	Triclosan Methyl	12.1	Spike	P	0 - 31
2414270	Trifluralin	14.0	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P430753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413839	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	6.13	Spike	P	0 - 37
2413839	Acetochlor	36.2	Spike	F	0 - 28
2413839	Alachlor	11.1	Spike	P	0 - 30
2413839	Ametryn	5.32	Spike	P	0 - 32
2413839	Atrazine	12.1	Spike	P	0 - 41
2413839	Atrazine Desethyl	4.12	Spike	P	0 - 36
2413839	Avobenzene	0.774	Spike	P	0 - 36
2413839	Azinphos Methyl	9.08	Spike	P	0 - 75
2413839	Azoxystrobin	9.66	Spike	P	0 - 39
2413839	Bromacil	0.861	Spike	P	0 - 33

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P430753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413839	Butylate	11.0	Spike	P	0 - 44
2413839	Caffeine	0.573	Spike	P	0 - 74
2413839	Carbophenothion	6.54	Spike	P	0 - 25
2413839	Carfentrazone Ethyl	9.53	Spike	P	0 - 27
2413839	Chlorfenapyr	9.38	Spike	P	0 - 24
2413839	Chlorpyrifos Ethyl	6.38	Spike	P	0 - 26
2413839	Chlorpyrifos Methyl	0.283	Spike	P	0 - 26
2413839	Coumaphos	6.78	Spike	P	0 - 28
2413839	Cyanazine	18.3	Spike	P	0 - 48
2413839	Cyprodinil	8.89	Spike	P	0 - 29
2413839	Dechlorane 602	27.6	Spike	P	0 - 30
2413839	Dechlorane 603	1.48	Spike	P	0 - 30
2413839	Dechlorane Plus	5.33	Spike	P	0 - 30
2413839	Demeton	1.38	Spike	P	0 - 33
2413839	Diazinon	7.13	Spike	P	0 - 29
2413839	Difenoconazole	27.9	Spike	P	0 - 34
2413839	Dimethenamid	7.70	Spike	P	0 - 39
2413839	Dimethomorph	44.3	Spike	P	0 - 51
2413839	Disulfoton	2.52	Spike	P	0 - 30
2413839	Dithiopyr	7.07	Spike	P	0 - 26
2413839	EPTC	8.23	Spike	P	0 - 43
2413839	Ethion	47.1	Spike	P	0 - 79
2413839	Ethoprop	3.12	Spike	P	0 - 29
2413839	Etridiazole	3.90	Spike	P	0 - 33
2413839	Fenamiphos	18.6	Spike	P	0 - 40
2413839	Fenbuconazole	3.36	Spike	P	0 - 74
2413839	Fipronil	7.04	Spike	P	0 - 29
2413839	Fipronil Desulfinyl	12.4	Spike	P	0 - 32
2413839	Fipronil Sulfide	8.81	Spike	P	0 - 30
2413839	Fipronil Sulfone	17.7	Spike	P	0 - 33
2413839	Fluazifop-P-butyl	8.85	Spike	P	0 - 38
2413839	Fludioxonil	5.03	Spike	P	0 - 29
2413839	Flumioxazin	20.2	Spike	P	0 - 51
2413839	Flutolanil	16.7	Spike	P	0 - 25
2413839	Fluxapyroxad	20.7	Spike	P	0 - 45
2413839	Fonofos	1.65	Spike	P	0 - 27
2413839	Hexabromobenzene	1.56	Spike	P	0 - 30
2413839	Hexazinone	7.66	Spike	P	0 - 30
2413839	Imazalil	11.8	Spike	P	0 - 100
2413839	Iprodione	14.7	Spike	P	0 - 33
2413839	Loratadine	5.98	Spike	P	0 - 56
2413839	Malathion	5.66	Spike	P	0 - 37
2413839	Metalaxyl	3.84	Spike	P	0 - 40
2413839	Metolachlor	4.52	Spike	P	0 - 29
2413839	Metribuzin	5.64	Spike	P	0 - 45
2413839	Mevinphos	1.77	Spike	P	0 - 29
2413839	Molinate	7.75	Spike	P	0 - 33
2413839	Myclobutanil	2.62	Spike	P	0 - 26
2413839	Naled	3.84	Spike	P	0 - 37
2413839	Napropamide	36.3	Spike	P	0 - 44
2413839	Norflurazon	7.65	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P430753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413839	Octinoxate	2.27	Spike	P	0 - 45
2413839	Oxadiazon	5.61	Spike	P	0 - 28
2413839	Oxybenzone	6.73	Spike	P	0 - 46
2413839	Oxyfluorfen	14.1	Spike	P	0 - 28
2413839	Parathion Ethyl	3.97	Spike	P	0 - 31
2413839	Parathion Methyl	0.798	Spike	P	0 - 29
2413839	PBB-153	1.35	Spike	P	0 - 30
2413839	PBDE-47	8.15	Spike	P	0 - 36
2413839	PBDE-99	10.4	Spike	P	0 - 40
2413839	Pendimethalin	16.0	Spike	P	0 - 33
2413839	Pentabromotoluene	3.73	Spike	P	0 - 30
2413839	Phenytoin	23.7	Spike	P	0 - 100
2413839	Phorate	15.4	Spike	P	0 - 36
2413839	Prodiamine	35.1	Spike	P	0 - 71
2413839	Prometon	12.0	Spike	P	0 - 36
2413839	Prometryn	1.01	Spike	P	0 - 28
2413839	Pronamide	4.08	Spike	P	0 - 24
2413839	Propanil	4.50	Spike	P	0 - 28
2413839	Propargite	39.2	Spike	P	0 - 43
2413839	Propiconazole	5.13	Spike	P	0 - 33
2413839	Pyraflufen Ethyl	2.58	Spike	P	0 - 29
2413839	Pyridaben	18.2	Spike	P	0 - 30
2413839	Pyriproxyfen	4.47	Spike	P	0 - 79
2413839	Simazine	6.32	Spike	P	0 - 29
2413839	Stirophos	29.8	Spike	P	0 - 61
2413839	Sulfentrazone	7.17	Spike	P	0 - 33
2413839	Tebuconazole	40.4	Spike	P	0 - 69
2413839	Terbufos	5.47	Spike	P	0 - 29
2413839	Terbutylazine	1.01	Spike	P	0 - 32
2413839	Tetradecachloro-m-terphenyl	10.3	Spike	P	0 - 30
2413839	Thiobencarb	5.46	Spike	P	0 - 26
2413839	Tri-o-cresyl Phosphate	0.603	Spike	P	0 - 33
2413839	Triadimefon	2.06	Spike	P	0 - 28
2413839	Tris(1-chloro-2-propyl) phosphate (TCPP)	2.84	Spike	P	0 - 30
2413839	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	0.812	Spike	P	0 - 30
2413839	Tris(2-chloroethyl) phosphate (TCEP)	4.71	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P430630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414061	Chlordane	10.0	Spike	P	0 - 25
2414061	Toxaphene	14.5	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P430640

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413241	Acesulfame K	0.959	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P430640

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413241	AMPA	2.55	Spike	P	0 - 30
2413241	Endothall	3.87	Spike	P	0 - 30
2413241	Glufosinate	4.44	Spike	P	0 - 30
2413241	Glyphosate	5.86	Spike	P	0 - 30
2413241	Sucralose	18.3	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P430649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413433	2,4-D	1.64	Spike	P	0 - 30
2413433	2,4,5-T	6.22	Spike	P	0 - 30
2413433	Acetaminophen	7.51	Spike	P	0 - 30
2413433	Acetamiprid	22.9	Spike	P	0 - 30
2413433	Afidopyropen	27.5	Spike	P	0 - 30
2413433	Bentazon	6.10	Spike	P	0 - 30
2413433	Benzovindiflupyr	9.79	Spike	P	0 - 30
2413433	Carbamazepine	1.29	Spike	P	0 - 30
2413433	Clothianidin	3.17	Spike	P	0 - 30
2413433	Dinotefuran	5.89	Spike	P	0 - 30
2413433	Diuron	7.14	Spike	P	0 - 30
2413433	Fenuron	0.0396	Spike	P	0 - 30
2413433	Fluridone	10.6	Spike	P	0 - 30
2413433	Hydrocodone	2.28	Spike	P	0 - 30
2413433	Ibuprofen	19.2	Spike	P	0 - 30
2413433	Imazapyr	4.53	Spike	P	0 - 30
2413433	Imidacloprid	4.91	Spike	P	0 - 30
2413433	Linuron	1.94	Spike	P	0 - 30
2413433	Mandestrobin	2.91	Spike	P	0 - 30
2413433	MCPP	0.530	Spike	P	0 - 30
2413433	Naproxen	23.4	Spike	P	0 - 30
2413433	Primidone	9.63	Spike	P	0 - 30
2413433	Pyraclostrobin	0.862	Spike	P	0 - 30
2413433	Silvex	5.37	Spike	P	0 - 30
2413433	Thiamethoxam	1.22	Spike	P	0 - 30
2413433	Tolfenpyrad	15.2	Spike	P	0 - 30
2413433	Triclopyr	3.78	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P430798

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413797	3-Hydroxycarbofuran	0.771	Spike	P	0 - 30
2413797	Aldicarb	9.16	Spike	P	0 - 30
2413797	Aldicarb Sulfone	0.163	Spike	P	0 - 30
2413797	Aldicarb Sulfoxide	4.30	Spike	P	0 - 30
2413797	Carbaryl	13.0	Spike	P	0 - 30
2413797	Carbofuran	2.37	Spike	P	0 - 30
2413797	Methiocarb	2.51	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P430798

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413797	Methomyl	0.464	Spike	P	0 - 30
2413797	Oxamyl	0.499	Spike	P	0 - 30
2413797	Propoxur	1.30	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P430788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413791	Total Alkalinity	0.348	Sample	P	0 - 3.9

Reference Method: SM 4500-F- C-2011
Batch ID: P431430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2414949	Fluoride	0.480	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P430900

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2413962	Organic Carbon	2.49	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2413797
Field Sample ID: G2SD0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	76.6	P	30 - 160

Lab Sample ID: 2413798
Field Sample ID: G2SD0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	102	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.0	P	30 - 160
EPA 8321B	Diuron-d6	82.5	P	30 - 160
EPA 8321B	Endothall-d6	87.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	72.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	49.2	P	30 - 160
EPA 8321B	Primidone-d5	79.7	P	30 - 160
EPA 8321B	Sucralose-d6	113	P	30 - 160

Lab Sample ID: 2413799
Field Sample ID: G3SD0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	83.7	P	29 - 130
EPA 8270E	Decachlorobiphenyl	51.2	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	68.4	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	61.7	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	61.5	P	30 - 101
EPA 8276	PCNB	81.4	P	48 - 121

Lab Sample ID: 2413800
Field Sample ID: G2SD0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	71.3	P	29 - 130
EPA 8270E	Decachlorobiphenyl	65.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	48.3	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	46.2	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	50.1	P	30 - 101
EPA 8276	PCNB	79.6	P	48 - 121

Lab Sample ID: 2413801
Field Sample ID: G2SD0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	107	P	20 - 200
EPA 8270E	Simazine-d10	102	P	62 - 142
EPA 8270E	Terbufos-d10	80.7	P	58 - 132
EPA 8270E	Terphenyl-d14	78.1	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A119525

Included Lab Sample IDs: 2413791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	97.5	98.0	P/P	95 - 105

Reference Method: SM 2320 B-2011

Run ID: A119566

Included Lab Sample IDs: 2413791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.8	97.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A119586

Included Lab Sample IDs: 2413798

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.7	98.4	P/P	50 - 150
2,4,5-T	93.2	97.6	P/P	50 - 150
3-Hydroxycarbofuran	111	111	P/P	60 - 150
Acetaminophen	100	102	P/P	60 - 160
Acetamiprid	95.7	107	P/P	50 - 150
Afidopyropen	104	116	P/P	50 - 150
Aldicarb	100	101	P/P	60 - 150
Aldicarb Sulfone	115	114	P/P	50 - 150
Aldicarb Sulfoxide	115	120	P/P	50 - 150
Bentazon	138	136	P/P	50 - 160
Benzovindiflupyr	102	104	P/P	50 - 150
Carbamazepine	109	111	P/P	60 - 150
Carbaryl	102	89.3	P/P	60 - 150
Carbofuran	106	108	P/P	50 - 150
Clothianidin	92.3	99.9	P/P	60 - 150
Dinotefuran	105	112	P/P	50 - 150
Diuron	118	131	P/P	60 - 160
Fenuron	97.8	103	P/P	60 - 150
Fluridone	110	114	P/P	60 - 160
Hydrocodone	106	115	P/P	60 - 150
Ibuprofen	202*	93.8	F/P	50 - 160
Imazapyr	123	129	P/P	50 - 150
Imidacloprid	89.1	96.8	P/P	60 - 150
Linuron	98.9	103	P/P	60 - 150
Mandestrobin	107	109	P/P	50 - 150
MCPP	91.4	106	P/P	50 - 150
Methiocarb	115	105	P/P	50 - 150
Methomyl	98.7	99.6	P/P	50 - 150
Naproxen	61.2	81.8	P/P	50 - 160
Oxamyl	105	109	P/P	50 - 150
Primidone	95.0	102	P/P	60 - 150
Propoxur	104	118	P/P	50 - 150
Pyraclostrobin	98.9	105	P/P	60 - 150
Silvex	90.5	94.3	P/P	50 - 150
Thiamethoxam	98.3	102	P/P	50 - 150
Tolfenpyrad	92.0	93.1	P/P	60 - 150
Triclopyr	67.3	85.6	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A119602

Included Lab Sample IDs: 2413792

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119606

Included Lab Sample IDs: 2413792

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	99.6	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A119626

Included Lab Sample IDs: 2413792

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	94.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A119631

Included Lab Sample IDs: 2413798

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	108	108	P/P	60 - 160
Sucralose	101	83.3	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A119635

Included Lab Sample IDs: 2413798

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	108	105	P/P	60 - 160
Endothall	154	142	P/P	60 - 160
Glufosinate	101	98.2	P/P	60 - 160
Glyphosate	132	95.6	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119636

Included Lab Sample IDs: 2413792

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	97.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A119645

Included Lab Sample IDs: 2413792

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 8270E

Run ID: A119680

Included Lab Sample IDs: 2413799, 2413800

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	112		P	80 - 120
Alpha-BHC	119		P	80 - 120
Alpha-Chlordane	108		P	80 - 120
Beta-BHC	116		P	80 - 120
Beta-Cyfluthrin	95.9		P	80 - 120
Bifenthrin	112		P	80 - 120
Carbophenothion	93.0		P	80 - 120
Chlorothalonil	100		P	80 - 120
Cis-Nonachlor	113		P	80 - 120
Cypermethrin	91.6		P	80 - 120
Dacthal	104		P	80 - 120
DDD-p,p'	115		P	80 - 120
DDE-p,p'	116		P	80 - 120
DDT-p,p'	124*		F	80 - 120
Delta-BHC	107		P	80 - 120
Deltamethrin	84.9		P	80 - 120
Dichlobenil	99.6		P	80 - 120
Dicofol	86.0		P	80 - 120
Dieldrin	111		P	80 - 120
Endosulfan I	108		P	80 - 120
Endosulfan II	119		P	80 - 120
Endosulfan Sulfate	84.9		P	80 - 120
Endrin	90.9		P	80 - 120
Endrin Aldehyde	93.0		P	80 - 120
Endrin Ketone	80.5		P	80 - 120
Esfenvalerate	118		P	80 - 120
Ethalfuralin	107		P	80 - 120
Fenpropathrin	95.8		P	80 - 120
Gamma-BHC	117		P	80 - 120
Gamma-Chlordane	94.3		P	80 - 120
Heptachlor	119		P	80 - 120
Heptachlor Epoxide	116		P	80 - 120
Hexachlorobenzene	99.2		P	80 - 120
Kepone	83.8		P	80 - 120
Lambda-Cyhalothrin	116		P	80 - 120
Methoprene	101		P	80 - 120
Methoxychlor	112		P	80 - 120
MGK-264	81.7		P	80 - 120
Mirex	97.7		P	80 - 120
Oxychlordane	89.3		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	115		P	80 - 120
Piperonyl Butoxide	91.0		P	80 - 120
Prallethrin	109		P	80 - 120
Tau-Fluvalinate	92.2		P	80 - 120
Tetramethrin	89.7		P	80 - 120
Trans-Nonachlor	115		P	80 - 120
Triclosan Methyl	104		P	80 - 120
Trifluralin	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119694
Included Lab Sample IDs: 2413799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	96.3		P	80 - 120
PCB-1260	103		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119746
Included Lab Sample IDs: 2413801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.6		P	80 - 120
Avobenzone	102		P	80 - 120
Dechlorane 602	100		P	80 - 120
Dechlorane 603	103		P	80 - 120
Dechlorane Plus	102		P	80 - 120
Hexabromobenzene	100		P	80 - 120
Octinoxate	92.9		P	80 - 120
Oxybenzone	96.4		P	80 - 120
PBB-153	97.8		P	80 - 120
PBDE-47	97.7		P	80 - 120
PBDE-99	97.1		P	80 - 120
Pentabromotoluene	96.0		P	80 - 120
Tetradecachloro-m-terphenyl	97.3		P	80 - 120
Tri-o-cresyl Phosphate	94.3		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	91.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	90.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.9		P	80 - 120

Reference Method: EPA 8276
Run ID: A119787
Included Lab Sample IDs: 2413799, 2413800

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	93.6		P	80 - 120
Toxaphene	89.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119794
Included Lab Sample IDs: 2413800

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	100		P	80 - 120
PCB-1260	98.6		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119814
Included Lab Sample IDs: 2413801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.6		P	80 - 120
Alachlor	91.9		P	80 - 120
Ametryn	104		P	80 - 120
Atrazine	87.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A119814
 Included Lab Sample IDs: 2413801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine Desethyl	114		P	80 - 120
Azinphos Methyl	91.0		P	80 - 120
Azoxystrobin	99.8		P	80 - 120
Bromacil	109		P	80 - 120
Butylate	96.5		P	80 - 120
Caffeine	106		P	80 - 120
Carbophenothion	102		P	80 - 120
Carfentrazone Ethyl	102		P	80 - 120
Chlorfenapyr	82.5		P	80 - 120
Chlorpyrifos Ethyl	89.8		P	80 - 120
Chlorpyrifos Methyl	97.6		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	114		P	80 - 120
Cyprodinil	92.1		P	80 - 120
Demeton	104		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	95.5		P	80 - 120
Dimethenamid	96.6		P	80 - 120
Dimethomorph	89.4		P	80 - 120
Disulfoton	101		P	80 - 120
Dithiopyr	98.9		P	80 - 120
EPTC	98.6		P	80 - 120
Ethion	89.8		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	99.8		P	80 - 120
Fenamiphos	92.7		P	80 - 120
Fenbuconazole	84.9		P	80 - 120
Fipronil	86.4		P	80 - 120
Fipronil Desulfinyl	97.7		P	80 - 120
Fipronil Sulfide	98.5		P	80 - 120
Fipronil Sulfone	109		P	80 - 120
Fluazifop-P-butyl	99.7		P	80 - 120
Fludioxonil	94.6		P	80 - 120
Flumioxazin	97.4		P	80 - 120
Flutolanil	106		P	80 - 120
Fluxapyroxad	107		P	80 - 120
Fonofos	94.1		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	97.3		P	80 - 120
Iprodione	93.0		P	80 - 120
Loratadine	82.0		P	80 - 120
Malathion	92.7		P	80 - 120
Metalaxyl	88.9		P	80 - 120
Metolachlor	97.9		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	93.4		P	80 - 120
Molinate	87.4		P	80 - 120
Myclobutanil	93.1		P	80 - 120
Naled	98.4		P	80 - 120
Napropamide	101		P	80 - 120
Norflurazon	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119814
Included Lab Sample IDs: 2413801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxadiazon	106		P	80 - 120
Oxyfluorfen	99.9		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	80.7		P	80 - 120
Pendimethalin	106		P	80 - 120
Phenytoin	103		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	117		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	96.9		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	105		P	80 - 120
Propargite	103		P	80 - 120
Propiconazole	88.3		P	80 - 120
Pyraflufen Ethyl	96.1		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	97.6		P	80 - 120
Simazine	91.8		P	80 - 120
Stirophos	93.0		P	80 - 120
Sulfentrazone	98.3		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	103		P	80 - 120
Terbuthylazine	88.3		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	106		P	80 - 120

Reference Method: SM 4500-F- C-2011
Run ID: A119876
Included Lab Sample IDs: 2413791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	103	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		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity	97.7				1.01	
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	98.0	99.2			0.987
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	110	107			2.30
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	101	101			0.0
EPA 365.1 Rev. 2.0	Total-P	99.0	99.6	99.9			0.240
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	123	159	149			6.13
	Acetochlor	83.2	108	57.3			36.2
	Alachlor	97.7	106	95.0			11.1
	Aldrin	51.0	45.7	51.7			12.2
	Alpha-BHC	97.0	91.4	83.8			8.62
	Alpha-Chlordane	55.0	56.2	71.7			24.2
	Ametryn	122	134	127			5.32
	Atrazine	91.2					12.1
	Atrazine Desethyl	94.9	90.1	95.5			4.12
	Avobenzone	180	177	175			0.774
	Azinphos Methyl	105	103	94.0			9.08
	Azoxystrobin	111	110	122			9.66
	Beta-BHC	132	84.7	82.0			3.21
	Beta-Cyfluthrin	86.0	91.7	73.9			21.5
	Bifenthrin	39.6	66.9	50.2			28.6
	Bromacil	115	121	122			0.861
	Butylate	67.9	54.9	61.3			11.0
	Caffeine	86.1	92.3	91.7			0.573
	Carbophenothion	40.8	50.0	72.3			36.4
	Carbophenothion	110	117	110			6.54
	Carfentrazone Ethyl	116	129	117			9.53
	Chlorfenapyr	76.2	79.2	87.0			9.38
	Chlorothalonil	94.2	101	83.2			19.7
	Chlorpyrifos Ethyl	87.2	92.0	86.4			6.38
	Chlorpyrifos Methyl	95.9	103	103			0.283
	Cis-Nonachlor	73.5	59.3	70.5			17.2
	Coumaphos	131	134	125			6.78
	Cyanazine	172	172	206			18.3
	Cypermethrin	88.1	91.2	79.7			13.4
	Cyprodinil	106	114	105			8.89
	Dacthal	108	73.3	82.8			12.2
	DDD-p,p'	76.9	53.9	53.1			1.53
	DDE-p,p'	63.5	64.3	67.0			4.16
	DDT-p,p'	67.1	64.3	66.6			3.52
	Dechlorane 602	115	143	108			27.6
	Dechlorane 603	162	187	185			1.48
	Dechlorane Plus	135	130	123			5.33
	Delta-BHC	116	107	78.5			30.6
	Deltamethrin	123	177	139			24.1
	Demeton	81.5	79.9	81.0			1.38
	Diazinon	111	120	112			7.13
	Dichlobenil	105	56.3	58.2			3.38
	Dicofol	53.5	52.6	60.8			14.5
	Dieldrin	68.7	67.5	76.5			12.5
	Difenoconazole	114	127	95.8			27.9
	Dimethenamid	94.8	89.7	96.9			7.70
	Dimethomorph	117	173	110			44.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Disulfoton	102	105	107			2.52
	Dithiopyr	101	93.1	100			7.07
	Endosulfan I	67.7	54.1	60.8			11.6
	Endosulfan II	82.2	77.7	87.6			12.1
	Endosulfan Sulfate	59.5	63.9	75.8			17.1
	Endrin	105	71.9	99.8			32.5
	Endrin Aldehyde	96.1	78.2	106			29.9
	Endrin Ketone	76.3	79.1	112			34.3
	EPTC	67.3	58.1	53.5			8.23
	Esfenvalerate	76.0	119	96.1			21.4
	Ethalfuralin	69.7	68.5	80.5			16.1
	Ethion	70.7	48.1	77.8			47.1
	Ethoprop	93.4	96.6	93.7			3.12
	Etridiazole	76.7	72.3	69.6			3.90
	Fenamiphos	87.5	79.2	95.5			18.6
	Fenbuconazole	83.5	81.9	84.7			3.36
	Fenpropathrin	84.7	84.5	61.3			31.8
	Fipronil	93.5	104	111			7.04
	Fipronil Desulfinyl	107	106	121			12.4
	Fipronil Sulfide	90.4	92.0	100			8.81
	Fipronil Sulfone	105	97.7	117			17.7
	Fluazifop-P-butyl	76.6	80.4	73.6			8.85
	Fludioxonil	87.7	89.8	94.5			5.03
	Flumioxazin	151	144	176			20.2
	Flutolanil	96.8	79.9	95.1			16.7
	Fluxapyroxad	103	98.9	122			20.7
	Fonofos	91.5	97.0	95.4			1.65
	Gamma-BHC	117	83.4	84.6			1.40
	Gamma-Chlordane	87.2	49.3	68.9			33.2
	Heptachlor	57.2	55.2	66.8			19.0
	Heptachlor Epoxide	64.5	55.2	82.2			39.3
	Hexabromobenzene	109	172	174			1.56
	Hexachlorobenzene	39.6	39.2	49.6			23.2
	Hexazinone	99.7	95.6	104			7.66
	Imazalil	84.1	72.3	64.2			11.8
	Iprodione	87.9	87.0	101			14.7
	Kepone	46.5	63.2	71.6			12.5
	Lambda-Cyhalothrin	80.6	108	97.0			10.3
	Loratadine	150	148	157			5.98
	Malathion	102	107	113			5.66
	Metalaxyl	92.3	94.9	98.6			3.84
	Methoprene	64.6	54.1	63.3			15.6
	Methoxychlor	84.7	88.7	86.5			2.49
	Metolachlor	106	98.5	110			4.52
	Metribuzin	97.7	107	102			5.64
	Mevinphos	88.1	93.9	92.2			1.77
	MGK-264	87.8	63.1	83.1			27.3
	Mirex	62.9	61.5	69.4			12.1
	Molinate	64.7	64.8	60.0			7.75
	Myclobutanil	105	120	117			2.62
	Naled	45.2	41.0	42.6			3.84
	Napropamide	89.3	69.7	101			36.3
	Norflurazon	106	113	122			7.65
	Octinoxate	148	154	157			2.27

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Oxadiazon	97.6	98.2	104		5.61
	Oxybenzone	135	146	156		6.73
	Oxychlordane	59.6	49.9	66.0		27.7
	Oxyfluorfen	117	107	123		14.1
	Parathion Ethyl	96.9	96.8	101		3.97
	Parathion Methyl	94.8	104	103		0.798
	PBB-153	115	178	180		1.35
	PBDE-47	126	151	139		8.15
	PBDE-99	108	148	134		10.4
	PCB-1016	68.8	57.4	58.2		1.26
	PCB-1260	63.0	62.9	50.6		17.9
	Pendimethalin	149	139	163		16.0
	Pentabromotoluene	130	141	146		3.73
	Permethrin	87.0	85.3	80.1		6.29
	Phenothrin	93.5	74.2	83.7		12.0
	Phenytoin	119	80.4	102		23.7
	Phorate	98.3	116	99.4		15.4
	Piperonyl Butoxide	132	139	162		14.9
	Prallethrin	60.8	58.6	62.6		6.56
	Prodiamine	77.9	70.3	100		35.1
	Prometon	113	95.3	107		12.0
	Prometryn	109	108	107		1.01
	Pronamide	115	119	124		4.08
	Propanil	120	127	133		4.50
	Propargite	99.6	72.9	108		39.2
	Propiconazole	89.0	94.0	98.9		5.13
	Pyraflufen Ethyl	76.9	73.7	71.8		2.58
	Pyridaben	107	96.4	116		18.2
	Pyriproxyfen	108	97.6	93.3		4.47
	Simazine	87.3	91.7	97.7		6.32
	Stirophos	89.5	75.4	102		29.8
	Sulfentrazone	95.4	102	109		7.17
	Tau-Fluvalinate	88.0	127	117		8.23
	Tebuconazole	91.3	71.4	108		40.4
	Terbufos	107	118	112		5.47
	Terbutylazine	90.1	95.6	96.5		1.01
	Tetradecachloro-m-terphenyl	220	236	262		10.3
	Tetramethrin	118	118	122		3.53
	Thiobencarb	103	110	116		5.46
	Trans-Nonachlor	48.8	50.1	84.7		51.3
	Tri-o-cresyl Phosphate	133	142	143		0.603
	Triadimefon	107	116	114		2.06
	Triclosan Methyl	54.6	50.2	56.7		12.1
	Trifluralin	60.5	53.9	62.1		14.0
	Tris(1-chloro-2-propyl) phosphate (TCPP)	115	93.1	96.0		2.84
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	123	131	130		0.812
	Tris(2-chloroethyl) phosphate (TCEP)	118	130	137		4.71
EPA 8276	Chlordane	75.8	85.4	77.2		10.0
	Toxaphene	76.2	92.1	79.7		14.5
EPA 8321B	2,4-D	113	97.5	95.5		1.64
	2,4,5-T	73.2	84.5	89.9		6.22

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	3-Hydroxycarbofuran	79.8	86.9	86.3		0.771
	Acesulfame K	113	116	117		0.959
	Acetaminophen	86.4	93.7	86.9		7.51
	Acetamiprid	68.2	44.4	55.8		22.9
	Afidopyropen	63.8	52.6	69.4		27.5
	Aldicarb	60.4	57.9	63.4		9.16
	Aldicarb Sulfone	94.9	84.6	84.4		0.163
	Aldicarb Sulfoxide	102	35.8	37.4		4.30
	AMPA	110	94.5	92.1		2.55
	Bentazon	118	79.6	84.6		6.10
	Benzovindiflupyr	81.4	84.4	76.5		9.79
	Carbamazepine	86.4	73.1	72.2		1.29
	Carbaryl	70.4	74.1	65.1		13.0
	Carbofuran	76.6	57.1	58.5		2.37
	Clothianidin	83.1	83.3	80.7		3.17
	Dinotefuran	95.4	69.7	65.7		5.89
	Diuron	104	88.4	82.3		7.14
	Endothall	93.5	94.8	91.2		3.87
	Fenuron	79.7	55.3	55.4		0.0396
	Fluridone	90.6	82.7	74.3		10.6
	Glufosinate	96.2	82.2	85.9		4.44
	Glyphosate	89.6	81.1	86.0		5.86
	Hydrocodone	83.2	65.4	63.9		2.28
	Ibuprofen	89.6	47.6	57.7		19.2
	Imazapyr	102	95.3	91.0		4.53
	Imidacloprid	78.1	109	103		4.91
	Linuron	80.8	77.2	78.7		1.94
	Mandestrobin	86.1	80.8	83.2		2.91
	MCPP	88.1	82.9	82.4		0.530
	Methiocarb	79.1	69.2	67.5		2.51
	Methomyl	73.8	59.7	59.4		0.464
	Naproxen	45.1	54.3	42.9		23.4
	Oxamyl	87.3	72.5	72.9		0.499
	Primidone	85.8	84.3	76.6		9.63
	Propoxur	73.5	56.3	57.1		1.30
	Pyraclostrobin	69.0	79.6	79.0		0.862
	Silvex	83.2	73.4	77.5		5.37
	Sucralose	104	126	104		18.3
	Thiamethoxam	77.2	72.7	73.5		1.22
	Tolfenpyrad	48.2	54.1	46.5		15.2
	Triclopyr	73.1	79.4	76.5		3.78
SM 2320 B-2011	Total Alkalinity	96.1				0.348
SM 2540 D-2015	TSS	102				
SM 4500-F- C-2011	Fluoride	99.3	105	104		0.480
SM 5310 B-2011	Organic Carbon	96.6	89.3	92.1		2.49

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2413791
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2413792
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2413792
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2413792

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2413792
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2413801
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2413799, 2413800
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2413801
EPA 8270E	PCBs in water matrices by GC/MS/MS	2413799, 2413800
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2413799, 2413800
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2413797
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2413798
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2413791
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2413791
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2413791
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2413792

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	06/01/2023			06/01/2023 13:24	Chandler E Cox	2413791
EPA 350.1 Rev. 2.0	06/01/2023			06/06/2023 11:11	Khloe J Berg	2413792
EPA 351.2 Rev. 2.0	06/01/2023	06/05/2023 10:55	Simonne.V. Calhoun	06/06/2023 13:22	Samantha L Bates	2413792
EPA 353.2 Rev. 2.0	06/01/2023			06/07/2023 14:54	Anna M. Plaviak	2413792
EPA 365.1 Rev. 2.0	06/01/2023	06/05/2023 14:34	Adam P Silver	06/07/2023 14:00	James L Waggeberby	2413792
EPA 8270E	06/01/2023	06/05/2023 08:00	Fe-Val Siddell	06/07/2023 23:14	Michael Poppell	2413799
	06/01/2023	06/05/2023 08:00	Fe-Val Siddell	06/07/2023 23:47	Michael Poppell	2413800
	06/01/2023	06/05/2023 08:00	Fe-Val Siddell	06/08/2023 01:57	Julie Wi	2413799
	06/01/2023	06/05/2023 08:00	Fe-Val Siddell	06/13/2023 23:37	Julie Wi	2413800
	06/01/2023	06/05/2023 08:00	Rasheda Ghaffari	06/07/2023 18:42	Arthur Maknenko	2413801
	06/01/2023	06/05/2023 08:00	Rasheda Ghaffari	06/08/2023 17:11	Vandana T. Nagar	2413801
EPA 8276	06/01/2023	06/05/2023 08:00	Fe-Val Siddell	06/08/2023 07:23	Arthur Maknenko	2413799
	06/01/2023	06/05/2023 08:00	Fe-Val Siddell	06/08/2023 08:20	Arthur Maknenko	2413800
EPA 8321B	06/01/2023	06/02/2023 09:00	Hoor Shaik	06/06/2023 19:07	Juyoung Kim	2413798
	06/01/2023	06/05/2023 11:00	Touraj Touran	06/05/2023 18:53	Touraj Touran	2413798
	06/01/2023	06/05/2023 11:00	Touraj Touran	06/05/2023 21:17	Touraj Touran	2413798
	06/01/2023	06/05/2023 11:00	Touraj Touran	06/06/2023 13:16	Touraj Touran	2413798
	06/01/2023	06/06/2023 08:30	Hoor Shaik	06/07/2023 01:42	Juyoung Kim	2413797
SM 2320 B-2011	06/01/2023			06/03/2023 12:11	Dale L. Simmons	2413791
SM 2540 D-2015	06/01/2023			06/02/2023 15:32	Yijie Li	2413791
SM 4500-F- C-2011	06/01/2023			06/16/2023 22:09	Adam P Silver	2413791
SM 5310 B-2011	06/01/2023			06/06/2023 22:32	Elise M. Gillis	2413792