

Chemical Analysis Report

NE-DIST-2023-10-19-02

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

Event Description: **LSJR South Lake 2023**
Request ID: **RQ-2023-10-09-40**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 13-NOV-2023 10:13



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: BULL CREEK DITCH DOWNSTREAM OF EAST DITCH **Collection Date/Time: 10/18/2023 10:40**

Field ID: G2NE1212

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446241	EPA 8270E	Aldrin	0.67	U	ng/L	P436789	
		Alpha-BHC	0.10	U	ng/L	P436789	
		Alpha-Chlordane	0.20	U	ng/L	P436789	
		PCB-1016	2.0	U	ng/L	P436789	
		Beta-BHC	0.10	U	ng/L	P436789	
		PCB-1221	2.0	U	ng/L	P436789	
		Beta-Cyfluthrin	1.3	U	ng/L	P436789	
		PCB-1232	2.0	U	ng/L	P436789	
		Bifenthrin	0.51	U	ng/L	P436789	
		PCB-1242	2.0	U	ng/L	P436789	
		PCB-1248	2.0	U	ng/L	P436789	
		Chlorothalonil	3.7	U	ng/L	P436789	
		PCB-1254	2.0	U	ng/L	P436789	
		Cis-Nonachlor	0.20	U	ng/L	P436789	
		PCB-1260	2.0	U	ng/L	P436789	
		Cypermethrin	1.5	U	ng/L	P436789	
		Dacthal	0.15	U	ng/L	P436789	
		DDD-p,p'	0.26	U	ng/L	P436789	
		DDE-p,p'	0.20	U	ng/L	P436789	
		DDT-p,p'	0.82	U	ng/L	P436789	
		Delta-BHC	0.41	U	ng/L	P436789	
		Deltamethrin	1.3	U	ng/L	P436789	
		Dichlobenil	0.26	U	ng/L	P436789	
		Dicofol	1.3	U	ng/L	P436789	
		Dieldrin	0.41	U	ng/L	P436789	
		Endosulfan I	0.41	U	ng/L	P436789	
		Endosulfan II	0.92	U	ng/L	P436789	
		Endosulfan Sulfate	0.31	U	ng/L	P436789	
		Endrin	0.92	U	ng/L	P436789	
		Endrin Aldehyde	0.77	U	ng/L	P436789	
		Endrin Ketone	0.41	U	ng/L	P436789	
		Esfenvalerate	0.77	U	ng/L	P436789	
		Ethalfuralin	0.15	U	ng/L	P436789	
		Fenpropathrin	0.26	U	ng/L	P436789	
		Gamma-BHC	0.13	U	ng/L	P436789	
		Gamma-Chlordane	0.20	U	ng/L	P436789	
		Heptachlor	0.20	U	ng/L	P436789	
		Heptachlor Epoxide	0.26	U	ng/L	P436789	
		Hexachlorobenzene**	1.0	U	ng/L	P436789	
		Kepone	14	U	ng/L	P436789	
		Lambda-Cyhalothrin	0.77	U	ng/L	P436789	
		Methoprene	0.77	U	ng/L	P436789	
		Methoxychlor	0.31	U	ng/L	P436789	

Field ID: G2NE1212

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446241	EPA 8270E	MGK-264	0.20	U	ng/L	P436789	
		Mirex	0.36	U	ng/L	P436789	
		Oxychlordane	0.31	U	ng/L	P436789	
		Permethrin	1.6	U	ng/L	P436789	
		Phenothrin	0.92	U	ng/L	P436789	
		Piperonyl Butoxide	3.0		ng/L	P436789	
		Prallethrin	2.0	U	ng/L	P436789	
		Tau-Fluvalinate	0.26	U	ng/L	P436789	
		Tetramethrin	0.77	U	ng/L	P436789	
		Trans-Nonachlor	0.20	U	ng/L	P436789	
		Triclosan Methyl	0.15	U	ng/L	P436789	
		Trifluralin	0.20	U	ng/L	P436789	
		Chlordane	2.0	U	ng/L	P436789	
		Toxaphene	15	U	ng/L	P436789	
2446242	EPA 8270E						
		EPA 8276					
		Oxybenzone**	10	U	ng/L	P436713	
		Acetochlor	0.20	UJ	ng/L	P436713	CCV
		Octinoxate**	150	U	ng/L	P436713	
		Alachlor	0.41	U	ng/L	P436713	
		Avobenzone**	100	U	ng/L	P436713	
		Ametryn	1.1	U	ng/L	P436713	
		Atrazine	3.8		ng/L	P436713	
		PBDE-47**	4.1	U	ng/L	P436713	
		Atrazine Desethyl	1.3	U	ng/L	P436713	
		PBDE-99**	5.1	U	ng/L	P436713	
		Azinphos Methyl	3.1	U	ng/L	P436713	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P436713	
		Azoxystrobin	54		ng/L	P436713	
		Bromacil	0.61	U	ng/L	P436713	
		2-Ethylhexyl	12	UJ	ng/L	P436713	LCS
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.46	U	ng/L	P436713	
		Dechlorane Plus**	31	U	ng/L	P436713	
		Caffeine**	7.7	U	ng/L	P436713	
		Dechlorane 602**	5.1	U	ng/L	P436713	
		Carbophenothion	0.51	U	ng/L	P436713	
		Dechlorane 603**	4.1	U	ng/L	P436713	
		Carfentrazone Ethyl	0.15	U	ng/L	P436713	
		Hexabromobenzene**	6.1	U	ng/L	P436713	
		Chlorfenapyr	0.31	U	ng/L	P436713	
		PBB-153**	6.1	UJ	ng/L	P436713	LCS
		Chlorpyrifos Ethyl	0.31	U	ng/L	P436713	
		Pentabromotoluene**	3.1	U	ng/L	P436713	
		Chlorpyrifos Methyl	0.10	U	ng/L	P436713	
		Tris(2-chloroethyl) phosphate (TCEP)**	56	U	ng/L	P436713	
		Coumaphos	1.1	U	ng/L	P436713	

Field ID: G2NE1212

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446242	EPA 8270E	Tris(1-chloro-2-propyl) phosphate (TCPP)**	47	I	ng/L	P436713	
		Cyanazine	5.1	U	ng/L	P436713	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P436713	
		Cyprodinil	0.20	U	ng/L	P436713	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P436713	
		Demeton	3.6	U	ng/L	P436713	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	61	U	ng/L	P436713	
		Diazinon	0.13	U	ng/L	P436713	
		Difenoconazole	0.61	U	ng/L	P436713	
		Dimethenamid	0.10	U	ng/L	P436713	
		Dimethomorph	0.31	U	ng/L	P436713	
		Disulfoton	0.61	U	ng/L	P436713	
		Dithiopyr	1.0	U	ng/L	P436713	
		EPTC	0.51	U	ng/L	P436713	
		Ethion	0.31	U	ng/L	P436713	
		Ethoprop	0.13	U	ng/L	P436713	
		Etridiazole	0.10	U	ng/L	P436713	
		Fenamiphos	0.46	U	ng/L	P436713	
		Fenbuconazole	0.51	U	ng/L	P436713	
		Fipronil	0.85	I	ng/L	P436713	
		Fipronil Desulfinyl**	0.69		ng/L	P436713	MS
		Fipronil Sulfide	2.9		ng/L	P436713	
		Fipronil Sulfone	7.3		ng/L	P436713	MS, RPD
		Fluazifop-P-butyl	0.10	U	ng/L	P436713	
		Fludioxonil	0.62		ng/L	P436713	
		Flumioxazin	3.1	U	ng/L	P436713	
		Flutolanil	0.10	U	ng/L	P436713	
		Fluxapyroxad	0.26	U	ng/L	P436713	
		Fonofos	0.15	U	ng/L	P436713	
		Hexazinone	0.51	U	ng/L	P436713	
		Imazalil	0.66	U	ng/L	P436713	
		Iprodione	0.51	U	ng/L	P436713	
		Loratadine**	0.31	U	ng/L	P436713	
		Malathion	0.36	U	ng/L	P436713	
		Metalaxyl	0.51	U	ng/L	P436713	
		Metolachlor	220		ng/L	P436713	
		Metribuzin	0.41	UJ	ng/L	P436713	LCS
		Mevinphos	1.0	U	ng/L	P436713	
		Molinate	0.26	U	ng/L	P436713	
		Myclobutanil	0.36	U	ng/L	P436713	
		Naled	2.6	U	ng/L	P436713	
		Napropamide	230		ng/L	P436713	
		Norflurazon	1.0	U	ng/L	P436713	
		Oxadiazon	3.6		ng/L	P436713	

Field ID: G2NE1212

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446242	EPA 8270E	Oxyfluorfen	0.20	U	ng/L	P436713	MS, RPD
		Parathion Ethyl	0.15	U	ng/L	P436713	
		Parathion Methyl	0.20	U	ng/L	P436713	
		Pendimethalin	1.7	U	ng/L	P436713	
		Phenytain**	5.4	U	ng/L	P436713	
		Phorate	0.26	U	ng/L	P436713	
		Prodiamine	0.20	UJ	ng/L	P436713	CCV
		Prometon	3.1	U	ng/L	P436713	
		Prometryn	0.36	U	ng/L	P436713	
		Pronamide	0.10	U	ng/L	P436713	
		Propanil	0.10	U	ng/L	P436713	
		Propargite	0.82	U	ng/L	P436713	
		Propiconazole	0.61	U	ng/L	P436713	
		Pyraflufen Ethyl	0.31	U	ng/L	P436713	
		Pyridaben	1.4	U	ng/L	P436713	
		Pyriproxyfen	0.26	U	ng/L	P436713	
		Simazine	10		ng/L	P436713	
		Stirophos	0.41	U	ng/L	P436713	
		Sulfentrazone	2.1	I	ng/L	P436713	MS
		Tebuconazole	1.4	U	ng/L	P436713	
		Terbufos	0.20	U	ng/L	P436713	RPD
		Terbutylazine	0.20	U	ng/L	P436713	
		Thiobencarb	0.51	U	ng/L	P436713	
		Triadimefon	0.15	UJ	ng/L	P436713	LCS

Ref. Method and Comment:

EPA 8276: MS accuracy for toxaphene not assessed due to high content of this parameter in the sample spiked.

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

Sample Location: LAKE BROWARD SOUTH

Collection Date/Time: 10/18/2023 11:40

Field ID: G2NE1218

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446234	DEP SOP: NU-094-1	Color (true)	23	A	PCU	P436770	
	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P436772	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P437373	
		Sulfate	7.4		mg SO4/L	P437377	
	SM 2320 B-2011	Total Alkalinity	4.2		mg CaCO3/L	P436862	
	SM 2540 C-2015	TDS	54		mg/L	P437261	
	SM 2540 D-2015	TSS	3	I	mg/L	P437212	
	SM 4500-F- C-2011	Fluoride	0.026	I	mg F/L	P436864	
2446236	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P436875	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.39		mg N/L	P436866	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P437011	
	EPA 365.1 Rev. 2.0	Total-P	0.013		mg P/L	P436840	
	SM 5310 B-2011	Organic Carbon	6.6		mg C/L	P437014	

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: SILVER LAKE CENTER

Collection Date/Time: 10/18/2023 12:20

Field ID: G2NE1132

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446235	DEP SOP: NU-094-1	Color (true)	220		PCU	P436770	
	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P436772	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P437373	
		Sulfate	2.7		mg SO4/L	P437377	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P436862	
	SM 2540 C-2015	TDS	65		mg/L	P437261	
	SM 2540 D-2015	TSS	4	I	mg/L	P437212	
	SM 4500-F- C-2011	Fluoride	0.026	I	mg F/L	P436864	
2446237	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P436875	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P436866	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.030		mg N/L	P437072	
	EPA 365.1 Rev. 2.0	Total-P	0.038		mg P/L	P436840	
	SM 5310 B-2011	Organic Carbon	21		mg C/L	P437014	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P436770

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436772

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437373

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437377

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436875

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436866

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437011

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437072

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436840

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436713

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436713

Component	Result	Code	Units
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8270E

Batch ID: P436789

Component	Result	Code	Units
Aldrin	0.65	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436789

Component	Result	Code	Units
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P436789

Component	Result	Code	Units
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P436789

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

Reference Method: SM 2320 B-2011
Batch ID: P436862

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

Reference Method: SM 2540 C-2015
Batch ID: P437261

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P437212

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P436864

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P437014

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: P436770

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.8		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436772

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437373

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437377

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436875

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436866

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437011

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	92.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437072

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436840

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436713

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	73.6		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	20.1		F	37 - 154
Acetochlor	68.0		P	64 - 124
Alachlor	81.1		P	61 - 118
Ametryn	111		P	47 - 158
Atrazine	118		P	68 - 121
Atrazine Desethyl	107		P	30 - 119
Avobenzone	108		P	48 - 193
Azinphos Methyl	53.8		P	30 - 194
Azoxystrobin	85.3		P	58 - 154
Bromacil	93.0		P	47 - 126
Butylate	59.7		P	31 - 83.0
Caffeine	146		P	10 - 180
Carbophenothion	118		P	59 - 133
Carfentrazone Ethyl	95.7		P	59 - 147
Chlorfenapyr	75.2		P	52 - 118
Chlorpyrifos Ethyl	108		P	59 - 119
Chlorpyrifos Methyl	99.6		P	65 - 123
Coumaphos	113		P	11 - 223
Cyanazine	88.9		P	63 - 250
Cyprodinil	89.0		P	52 - 143
Dechlorane 602	57.5		P	23 - 142
Dechlorane 603	82.3		P	51 - 171
Dechlorane Plus	75.2		P	46 - 161
Demeton	89.3		P	42 - 119
Diazinon	98.3		P	67 - 132
Difenoconazole	64.5		P	12 - 204
Dimethenamid	83.5		P	53 - 113
Dimethomorph	150		P	13 - 238
Disulfoton	80.3		P	56 - 126
Dithiopyr	91.2		P	58 - 127
EPTC	56.0		P	31 - 78.0
Ethion	63.8		P	24 - 127
Ethoprop	93.4		P	60 - 118
Etridiazole	66.7		P	32 - 91.0
Fenamiphos	112		P	54 - 129
Fenbuconazole	53.1		P	31 - 162
Fipronil	66.2		P	56 - 131
Fipronil Desulfinyl	73.5		P	58 - 132
Fipronil Sulfide	65.7		P	51 - 123
Fipronil Sulfone	90.7		P	50 - 125
Fluazifop-P-butyl	95.4		P	52 - 132
Fludioxonil	82.5		P	52 - 129
Flumioxazin	56.5		P	34 - 250
Flutolanil	71.9		P	45 - 128
Fluxapyroxad	92.6		P	31 - 150
Fonofos	87.8		P	60 - 116
Hexabromobenzene	71.2		P	52 - 165
Hexazinone	108		P	59 - 120
Imazalil	115		P	39 - 134
Iprodione	110		P	39 - 243
Loratadine	147		P	10 - 240

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436713

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Malathion	125		P	53 - 145
Metalaxyl	93.0		P	59 - 120
Metolachlor	103		P	64 - 122
Metribuzin	12.8		F	33 - 128
Mevinphos	102		P	48 - 119
Molinate	72.5		P	42 - 89.0
Myclobutanil	76.9		P	54 - 129
Naled	51.4		P	10 - 138
Napropamide	73.1		P	40 - 122
Norflurazon	81.3		P	49 - 132
Octinoxate	113		P	29 - 176
Oxadiazon	77.0		P	50 - 115
Oxybenzone	117		P	45 - 145
Oxyfluorfen	99.8		P	62 - 149
Parathion Ethyl	109		P	68 - 119
Parathion Methyl	133		P	68 - 147
PBB-153	31.3		F	42 - 179
PBDE-47	79.5		P	44 - 141
PBDE-99	51.6		P	36 - 141
Pendimethalin	133		P	59 - 158
Pentabromotoluene	85.3		P	58 - 148
Phenytoin	55.8		P	10 - 151
Phorate	104		P	44 - 124
Prodiamine	54.1		P	10 - 136
Prometon	101		P	45 - 131
Prometryn	92.5		P	52 - 140
Pronamide	106		P	70 - 129
Propanil	116		P	54 - 144
Propargite	87.0		P	10 - 191
Propiconazole	63.7		P	49 - 128
Pyraflufen Ethyl	88.3		P	46 - 141
Pyridaben	90.7		P	29 - 198
Pyriproxyfen	56.0		P	33 - 221
Simazine	108		P	62 - 119
Stirophos	91.6		P	13 - 144
Sulfentrazone	110		P	12 - 152
Tebuconazole	68.0		P	10 - 135
Terbufos	98.5		P	67 - 136
Terbutylazine	70.6		P	66 - 113
Tetradecachloro-m-terphenyl	132		P	30 - 235
Thiobencarb	93.5		P	51 - 125
Tri-o-cresyl Phosphate	98.3		P	50 - 150
Triadimefon	125		F	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	127		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	99.1		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	107		P	59 - 166

Reference Method: EPA 8270E

Batch ID: P436789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	48.3		P	30 - 96.0

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-BHC	79.9		P	70 - 109
Alpha-Chlordane	73.9		P	45 - 107
Beta-BHC	80.4		P	64 - 138
Beta-Cyfluthrin	78.0		P	17 - 141
Bifenthrin	55.7		P	10 - 113
Chlorothalonil	92.5		P	26 - 180
Cis-Nonachlor	68.8		P	37 - 102
Cypermethrin	75.6		P	20 - 133
Dacthal	85.2		P	69 - 114
DDD-p,p'	72.2		P	42 - 105
DDE-p,p'	70.3		P	42 - 106
DDT-p,p'	70.7		P	42 - 107
Delta-BHC	82.4		P	67 - 144
Deltamethrin	91.3		P	15 - 149
Dichlobenil	65.5		P	46 - 117
Dicofol	72.2		P	34 - 114
Dieldrin	75.4		P	50 - 108
Endosulfan I	70.0		P	55 - 104
Endosulfan II	73.2		P	51 - 111
Endosulfan Sulfate	76.2		P	56 - 121
Endrin	71.5		P	10 - 106
Endrin Aldehyde	70.8		P	34 - 114
Endrin Ketone	119		P	63 - 177
Esfenvalerate	69.3		P	29 - 143
Ethalfuralin	71.1		P	46 - 96.0
Fenpropathrin	79.2		P	28 - 115
Gamma-BHC	107		P	65 - 121
Gamma-Chlordane	74.6		P	39 - 103
Heptachlor	65.6		P	39 - 94.0
Heptachlor Epoxide	71.5		P	54 - 104
Hexachlorobenzene	46.0		P	36 - 100
Kepone	63.4		P	10 - 225
Lambda-Cyhalothrin	65.4		P	10 - 135
Methoprene	56.1		P	10 - 109
Methoxychlor	75.5		P	52 - 112
MGK-264	75.6		P	44 - 117
Mirex	55.9		P	20 - 90.0
Oxychlordane	68.0		P	44 - 102
PCB-1016	77.1		P	45 - 107
PCB-1260	81.6		P	40 - 118
Permethrin	68.0		P	18 - 135
Phenothrin	48.4		P	10 - 102
Piperonyl Butoxide	83.2		P	28 - 156
Prallethrin	72.2		P	28 - 113
Tau-Fluvalinate	65.9		P	10 - 123
Tetramethrin	79.2		P	18 - 158
Trans-Nonachlor	77.9		P	39 - 104
Triclosan Methyl	76.1		P	54 - 108
Trifluralin	67.2		P	46 - 97.0

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P436789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	83.1		P	52 - 117
Toxaphene	91.7		P	44 - 125

Reference Method: SM 2320 B-2011
Batch ID: P436862

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.1		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P437261

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	107		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P437212

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.0		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P436864

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.6		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P437014

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437373

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446031	Chloride	105		P	90 - 110
2446235	Chloride	107		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446031	Sulfate	105		P	90 - 110
2446235	Sulfate	106		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446089	Ammonia-N	102	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436866

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446236	Kjeldahl Nitrogen	103	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437011

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446236	NO2NO3-N	92.0	92.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437072

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446237	NO2NO3-N	96.4	95.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436840

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446281	Total-P	104	104	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P436713

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445500	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	56.1	61.8	P/P	50 - 150
2445500	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	74.6	72.8	P/P	29 - 155
2445500	Acetochlor	88.0	83.6	P/P	60 - 124
2445500	Alachlor	76.0	101	P/P	54 - 122
2445500	Ametryn	98.0	75.3	P/P	51 - 208
2445500	Atrazine	108	104	P/P	57 - 131
2445500	Atrazine Desethyl	74.4	81.8	P/P	13 - 124
2445500	Avobenzone	92.2	103	P/P	35 - 187

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436713

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445500	Azinphos Methyl	148	174	P/P	43 - 276
2445500	Azoxystrobin	87.1	96.6	P/P	52 - 300
2445500	Bromacil	80.1	59.1	P/P	44 - 134
2445500	Butylate	70.7	74.8	P/P	23 - 82.0
2445500	Caffeine	110	118	P/P	10 - 277
2445500	Carbophenothion	66.3	69.7	P/P	47 - 135
2445500	Carfentrazone Ethyl	69.4	74.7	P/P	46 - 147
2445500	Chlorfenapyr	77.2	61.7	P/P	43 - 114
2445500	Chlorpyrifos Ethyl	72.2	60.9	P/P	47 - 124
2445500	Chlorpyrifos Methyl	84.4	70.8	P/P	60 - 135
2445500	Coumaphos	74.8	73.8	P/P	10 - 222
2445500	Cyanazine	102	93.6	P/P	10 - 257
2445500	Cyprodinil	78.3	83.6	P/P	42 - 148
2445500	Dechlorane 602	40.1	41.4	P/P	14 - 133
2445500	Dechlorane 603	76.0	80.1	P/P	18 - 191
2445500	Dechlorane Plus	71.9	65.2	P/P	23 - 154
2445500	Demeton	98.5	119	P/P	41 - 137
2445500	Diazinon	88.4	89.4	P/P	64 - 139
2445500	Difenoconazole	145	123	P/P	46 - 254
2445500	Dimethenamid	85.8	87.0	P/P	47 - 117
2445500	Dimethomorph	199	172	P/P	14 - 255
2445500	Disulfoton	112	83.9	P/P	52 - 130
2445500	Dithiopyr	84.5	66.4	P/P	40 - 121
2445500	EPTC	59.6	51.7	P/P	19 - 78.0
2445500	Ethion	62.4	58.7	P/P	12 - 124
2445500	Ethoprop	102	101	P/P	68 - 144
2445500	Etridiazole	79.3	84.9	P/P	26 - 96.0
2445500	Fenamiphos	74.4	53.0	P/P	41 - 129
2445500	Fenbuconazole	74.9	84.9	P/P	26 - 169
2445500	Fipronil	69.9	51.4	P/P	46 - 145
2445500	Fipronil Desulfinyl	58.8	46.4	P/F	47 - 136
2445500	Fipronil Sulfide	59.1	45.2	P/P	41 - 127
2445500	Fipronil Sulfone	141	80.3	F/P	35 - 133
2445500	Fluazifop-P-butyl	72.1	57.8	P/P	46 - 131
2445500	Fludioxonil	86.6	64.8	P/P	51 - 124
2445500	Flumioxazin	154	140	P/P	10 - 289
2445500	Flutolanil	71.2	62.0	P/P	34 - 130
2445500	Fluxapyroxad	137	93.3	P/P	10 - 197
2445500	Fonofos	90.8	69.9	P/P	42 - 131
2445500	Hexabromobenzene	88.5	93.7	P/P	47 - 178
2445500	Hexazinone	104	99.1	P/P	64 - 125
2445500	Imazalil	58.0	43.0	P/P	37 - 252
2445500	Iprodione	89.4	73.3	P/P	34 - 265
2445500	Loratadine	64.0	66.9	P/P	20 - 231
2445500	Malathion	125	99.5	P/P	34 - 164
2445500	Metalaxyl	93.2	112	P/P	49 - 125
2445500	Metolachlor	91.5	68.9	P/P	54 - 125
2445500	Metribuzin	51.2	81.5	P/P	51 - 139
2445500	Mevinphos	96.2	94.8	P/P	46 - 130
2445500	Molinate	65.9	83.8	P/P	39 - 93.0
2445500	Myclobutanil	103	94.5	P/P	50 - 130
2445500	Naled	55.4	62.4	P/P	10 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P436713

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445500	Napropamide	69.8	72.1	P/P	10 - 109
2445500	Norflurazon	70.9	64.9	P/P	36 - 134
2445500	Octinoxate	101	101	P/P	18 - 170
2445500	Oxadiazon	65.8	53.5	P/P	43 - 112
2445500	Oxybenzone	109	103	P/P	33 - 154
2445500	Oxyfluorfen	183	117	F/P	62 - 154
2445500	Parathion Ethyl	115	114	P/P	65 - 120
2445500	Parathion Methyl	107	91.4	P/P	77 - 185
2445500	PBB-153	72.6	86.6	P/P	23 - 193
2445500	PBDE-47	62.6	59.3	P/P	31 - 139
2445500	PBDE-99	55.1	58.8	P/P	24 - 138
2445500	Pendimethalin	113	109	P/P	50 - 146
2445500	Pentabromotoluene	85.6	84.2	P/P	54 - 152
2445500	Phenytoin	42.0	44.6	P/P	10 - 157
2445500	Phorate	134	131	P/P	54 - 161
2445500	Prodiamine	65.7	62.1	P/P	29 - 160
2445500	Prometon	145	134	P/P	38 - 145
2445500	Prometryn	91.9	84.3	P/P	32 - 151
2445500	Pronamide	124	105	P/P	61 - 140
2445500	Propanil	99.8	99.2	P/P	50 - 147
2445500	Propargite	93.6	80.6	P/P	10 - 190
2445500	Propiconazole	73.4	58.7	P/P	30 - 146
2445500	Pyraflufen Ethyl	47.1	46.8	P/P	30 - 147
2445500	Pyridaben	146	98.1	P/P	15 - 195
2445500	Pyriproxyfen	79.9	76.0	P/P	31 - 218
2445500	Simazine	112	104	P/P	45 - 139
2445500	Stirophos	58.9	55.5	P/P	10 - 134
2445500	Sulfentrazone	46.2	41.9	F/F	53 - 186
2445500	Tebuconazole	53.1	42.3	P/P	10 - 133
2445500	Terbufos	116	83.7	P/P	65 - 151
2445500	Terbutylazine	111	89.0	P/P	62 - 117
2445500	Tetradecachloro-m-terphenyl	143	137	P/P	10 - 260
2445500	Thiobencarb	96.2	82.8	P/P	48 - 122
2445500	Tri-o-cresyl Phosphate	94.3	96.6	P/P	32 - 151
2445500	Triadimefon	66.2	61.7	P/P	46 - 124
2445500	Tris(1-chloro-2-propyl) phosphate (TCPP)	122	118	P/P	51 - 154
2445500	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	91.9	84.5	P/P	59 - 147
2445500	Tris(2-chloroethyl) phosphate (TCEP)	97.5	112	P/P	65 - 156

Reference Method: EPA 8270E
Batch ID: P436789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446246	Aldrin	40.8	49.0	P/P	24 - 81.0
2446246	Alpha-BHC	85.4	83.3	P/P	65 - 110
2446246	Alpha-Chlordane	65.6	72.3	P/P	43 - 119
2446246	Beta-BHC	88.2	81.5	P/P	54 - 165
2446246	Beta-Cyfluthrin	102	83.9	P/P	27 - 165
2446246	Bifenthrin	70.8	59.6	P/P	17 - 117
2446246	Chlorothalonil	157	90.9	P/P	10 - 255
2446246	Cis-Nonachlor	66.9	60.8	P/P	34 - 98.0
2446246	Cypermethrin	90.8	92.1	P/P	25 - 143

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P436789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446246	Dacthal	79.1	80.7	P/P	55 - 139
2446246	DDD-p,p'	65.0	66.6	P/P	30 - 109
2446246	DDE-p,p'	64.9	68.0	P/P	35 - 106
2446246	DDT-p,p'	74.9	75.6	P/P	41 - 101
2446246	Delta-BHC	101	104	P/P	58 - 165
2446246	Deltamethrin	120	111	P/P	10 - 194
2446246	Dichlobenil	74.8	74.2	P/P	22 - 114
2446246	Dicofol	83.0	76.4	P/P	17 - 133
2446246	Dieldrin	71.4	75.3	P/P	45 - 129
2446246	Endosulfan I	81.0	83.9	P/P	49 - 104
2446246	Endosulfan II	68.2	68.9	P/P	37 - 117
2446246	Endosulfan Sulfate	68.9	73.2	P/P	38 - 128
2446246	Endrin	69.4	74.0	P/P	35 - 116
2446246	Endrin Aldehyde	53.5	61.9	P/P	19 - 108
2446246	Endrin Ketone	128	110	P/P	44 - 134
2446246	Esfenvalerate	110	95.5	P/P	27 - 176
2446246	Ethalfuralin	63.7	66.1	P/P	49 - 100
2446246	Fenpropathrin	78.1	79.1	P/P	34 - 117
2446246	Gamma-BHC	109	109	P/P	59 - 129
2446246	Gamma-Chlordane	62.0	66.8	P/P	33 - 107
2446246	Heptachlor	52.3	63.7	P/P	37 - 94.0
2446246	Heptachlor Epoxide	79.2	90.6	P/P	38 - 118
2446246	Hexachlorobenzene	45.4	50.2	P/P	35 - 97.0
2446246	Kepone	56.9	58.3	P/P	10 - 221
2446246	Lambda-Cyhalothrin	97.2	84.0	P/P	23 - 190
2446246	Methoprene	60.0	64.5	P/P	21 - 109
2446246	Methoxychlor	92.1	99.3	P/P	46 - 118
2446246	MGK-264	79.1	86.5	P/P	39 - 122
2446246	Mirex	44.7	45.6	P/P	25 - 90.0
2446246	Oxychlordane	64.7	72.4	P/P	42 - 100
2446246	Permethrin	86.1	79.3	P/P	33 - 181
2446246	Phenothrin	80.7	70.9	P/P	12 - 125
2446246	Piperonyl Butoxide	84.0	88.9	P/P	10 - 178
2446246	Prallethrin	58.5	76.4	P/P	24 - 122
2446246	Tau-Fluvalinate	98.2	85.7	P/P	13 - 151
2446246	Tetramethrin	107	105	P/P	16 - 172
2446246	Trans-Nonachlor	67.9	68.3	P/P	39 - 100
2446246	Triclosan Methyl	66.9	78.1	P/P	43 - 110
2446246	Trifluralin	66.7	70.6	P/P	45 - 94.0
2446450	PCB-1016	69.8	77.2	P/P	45 - 107
2446450	PCB-1260	80.4	90.6	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P436789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446450	Chlordane	64.6	76.3	P/P	43 - 123

Reference Method: SM 4500-F- C-2011
Batch ID: P436864

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

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P436864

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445705	Fluoride	100	99.8	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P437014

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446089	Organic Carbon	96.5	98.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446234	Color (true)	7.66	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446088	Turbidity	5.61	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437373

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446031	Chloride	0.646	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446031	Sulfate	1.02	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446089	Ammonia-N	0.768	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436866

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446236	Kjeldahl Nitrogen	0.539	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437011

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446236	NO2NO3-N	0.542	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437072

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446237	NO2NO3-N	0.449	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P436840

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446281	Total-P	0.249	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P436713

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445500	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	9.58	Spike	P	0 - 30
2445500	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	2.38	Spike	P	0 - 35
2445500	Acetochlor	5.14	Spike	P	0 - 28
2445500	Alachlor	27.8	Spike	P	0 - 30
2445500	Ametryn	26.1	Spike	P	0 - 32
2445500	Atrazine	4.01	Spike	P	0 - 33
2445500	Atrazine Desethyl	9.58	Spike	P	0 - 36
2445500	Avobenzone	11.5	Spike	P	0 - 35
2445500	Azinphos Methyl	15.7	Spike	P	0 - 62
2445500	Azoxystrobin	9.87	Spike	P	0 - 39
2445500	Bromacil	30.2	Spike	P	0 - 33
2445500	Butylate	5.57	Spike	P	0 - 51
2445500	Caffeine	6.56	Spike	P	0 - 100
2445500	Carbophenothion	5.03	Spike	P	0 - 34
2445500	Carfentrazone Ethyl	7.34	Spike	P	0 - 33
2445500	Chlorfenapyr	22.4	Spike	P	0 - 28
2445500	Chlorpyrifos Ethyl	16.9	Spike	P	0 - 31
2445500	Chlorpyrifos Methyl	17.5	Spike	P	0 - 27
2445500	Coumaphos	1.33	Spike	P	0 - 62
2445500	Cyanazine	8.52	Spike	P	0 - 48
2445500	Cyprodinil	6.62	Spike	P	0 - 29
2445500	Dechlorane 602	3.13	Spike	P	0 - 60
2445500	Dechlorane 603	5.31	Spike	P	0 - 40
2445500	Dechlorane Plus	9.80	Spike	P	0 - 38
2445500	Demeton	19.0	Spike	P	0 - 33
2445500	Diazinon	1.13	Spike	P	0 - 32
2445500	Difenoconazole	16.6	Spike	P	0 - 71
2445500	Dimethenamid	1.35	Spike	P	0 - 60
2445500	Dimethomorph	14.9	Spike	P	0 - 61
2445500	Disulfoton	28.5	Spike	P	0 - 30
2445500	Dithiopyr	24.0	Spike	P	0 - 28
2445500	EPTC	14.3	Spike	P	0 - 56
2445500	Ethion	6.22	Spike	P	0 - 79
2445500	Ethoprop	1.52	Spike	P	0 - 31
2445500	Etridiazole	6.85	Spike	P	0 - 43
2445500	Fenamiphos	28.9	Spike	P	0 - 43
2445500	Fenbuconazole	12.4	Spike	P	0 - 79
2445500	Fipronil	30.5	Spike	P	0 - 46
2445500	Fipronil Desulfanyl	23.5	Spike	P	0 - 36
2445500	Fipronil Sulfide	26.7	Spike	P	0 - 34
2445500	Fipronil Sulfone	54.8	Spike	F	0 - 47
2445500	Fluazifop-P-butyl	22.0	Spike	P	0 - 38
2445500	Fludioxonil	28.8	Spike	P	0 - 29
2445500	Flumioxazin	9.52	Spike	P	0 - 63

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P436713

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445500	Flutolanil	13.1	Spike	P	0 - 36
2445500	Fluxapyroxad	37.9	Spike	P	0 - 65
2445500	Fonofos	25.9	Spike	P	0 - 35
2445500	Hexabromobenzene	5.77	Spike	P	0 - 41
2445500	Hexazinone	5.26	Spike	P	0 - 31
2445500	Imazalil	29.7	Spike	P	0 - 52
2445500	Iprodione	19.9	Spike	P	0 - 49
2445500	Loratadine	4.52	Spike	P	0 - 59
2445500	Malathion	22.8	Spike	P	0 - 77
2445500	Metalaxyl	18.0	Spike	P	0 - 76
2445500	Metolachlor	23.0	Spike	P	0 - 29
2445500	Metribuzin	45.6	Spike	P	0 - 51
2445500	Mevinphos	1.45	Spike	P	0 - 31
2445500	Molinate	24.0	Spike	P	0 - 39
2445500	Myclobutanil	8.37	Spike	P	0 - 34
2445500	Naled	12.0	Spike	P	0 - 37
2445500	Napropamide	3.29	Spike	P	0 - 100
2445500	Norflurazon	8.87	Spike	P	0 - 54
2445500	Octinoxate	0.192	Spike	P	0 - 35
2445500	Oxadiazon	20.6	Spike	P	0 - 34
2445500	Oxybenzone	5.04	Spike	P	0 - 35
2445500	Oxyfluorfen	44.2	Spike	F	0 - 28
2445500	Parathion Ethyl	0.972	Spike	P	0 - 31
2445500	Parathion Methyl	15.2	Spike	P	0 - 29
2445500	PBB-153	17.5	Spike	P	0 - 49
2445500	PBDE-47	5.40	Spike	P	0 - 36
2445500	PBDE-99	6.46	Spike	P	0 - 46
2445500	Pendimethalin	3.42	Spike	P	0 - 31
2445500	Pentabromotoluene	1.68	Spike	P	0 - 16
2445500	Phenytoin	6.16	Spike	P	0 - 100
2445500	Phorate	1.92	Spike	P	0 - 36
2445500	Prodiamine	5.67	Spike	P	0 - 68
2445500	Prometon	7.63	Spike	P	0 - 35
2445500	Prometryn	8.65	Spike	P	0 - 33
2445500	Pronamide	16.5	Spike	P	0 - 24
2445500	Propanil	0.683	Spike	P	0 - 28
2445500	Propargite	14.9	Spike	P	0 - 53
2445500	Propiconazole	22.3	Spike	P	0 - 44
2445500	Pyraflufen Ethyl	0.406	Spike	P	0 - 61
2445500	Pyridaben	39.3	Spike	P	0 - 43
2445500	Pyriproxyfen	4.99	Spike	P	0 - 82
2445500	Simazine	7.75	Spike	P	0 - 29
2445500	Stirophos	5.97	Spike	P	0 - 100
2445500	Sulfentrazone	9.84	Spike	P	0 - 64
2445500	Tebuconazole	18.0	Spike	P	0 - 76
2445500	Terbufos	32.4	Spike	F	0 - 29
2445500	Terbuthylazine	22.1	Spike	P	0 - 28
2445500	Tetradecachloro-m-terphenyl	4.24	Spike	P	0 - 42
2445500	Thiobencarb	15.0	Spike	P	0 - 26
2445500	Tri-o-cresyl Phosphate	2.38	Spike	P	0 - 24
2445500	Triadimefon	7.06	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P436713

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445500	Tris(1-chloro-2-propyl) phosphate (TCPP)	3.66	Spike	P	0 - 30
2445500	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	8.36	Spike	P	0 - 22
2445500	Tris(2-chloroethyl) phosphate (TCEP)	13.5	Spike	P	0 - 15

Reference Method: EPA 8270E

Batch ID: P436789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446246	Aldrin	18.3	Spike	P	0 - 41
2446246	Alpha-BHC	2.48	Spike	P	0 - 25
2446246	Alpha-Chlordane	9.69	Spike	P	0 - 32
2446246	Beta-BHC	7.84	Spike	P	0 - 33
2446246	Beta-Cyfluthrin	19.5	Spike	P	0 - 43
2446246	Bifenthrin	17.2	Spike	P	0 - 52
2446246	Chlorothalonil	53.3	Spike	P	0 - 82
2446246	Cis-Nonachlor	9.58	Spike	P	0 - 33
2446246	Cypermethrin	1.38	Spike	P	0 - 51
2446246	Dacthal	2.00	Spike	P	0 - 27
2446246	DDD-p,p'	2.34	Spike	P	0 - 39
2446246	DDE-p,p'	4.63	Spike	P	0 - 31
2446246	DDT-p,p'	0.849	Spike	P	0 - 29
2446246	Delta-BHC	2.61	Spike	P	0 - 35
2446246	Deltamethrin	7.89	Spike	P	0 - 100
2446246	Dichlobenil	0.828	Spike	P	0 - 40
2446246	Dicofol	8.35	Spike	P	0 - 37
2446246	Dieldrin	5.32	Spike	P	0 - 27
2446246	Endosulfan I	3.54	Spike	P	0 - 23
2446246	Endosulfan II	1.08	Spike	P	0 - 34
2446246	Endosulfan Sulfate	6.05	Spike	P	0 - 36
2446246	Endrin	6.36	Spike	P	0 - 45
2446246	Endrin Aldehyde	14.7	Spike	P	0 - 76
2446246	Endrin Ketone	15.1	Spike	P	0 - 43
2446246	Esfenvalerate	14.6	Spike	P	0 - 51
2446246	Ethalfuralin	3.63	Spike	P	0 - 22
2446246	Fenpropathrin	1.27	Spike	P	0 - 49
2446246	Gamma-BHC	0.242	Spike	P	0 - 28
2446246	Gamma-Chlordane	7.46	Spike	P	0 - 40
2446246	Heptachlor	19.5	Spike	P	0 - 29
2446246	Heptachlor Epoxide	13.4	Spike	P	0 - 33
2446246	Hexachlorobenzene	10.2	Spike	P	0 - 36
2446246	Kepone	2.50	Spike	P	0 - 85
2446246	Lambda-Cyhalothrin	14.6	Spike	P	0 - 55
2446246	Methoprene	7.20	Spike	P	0 - 53
2446246	Methoxychlor	7.46	Spike	P	0 - 50
2446246	MGK-264	8.92	Spike	P	0 - 43
2446246	Mirex	1.95	Spike	P	0 - 40
2446246	Oxychlordane	11.2	Spike	P	0 - 31
2446246	Permethrin	8.14	Spike	P	0 - 50
2446246	Phenothrin	12.9	Spike	P	0 - 58
2446246	Piperonyl Butoxide	5.12	Spike	P	0 - 100

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P436789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446246	Prallethrin	26.5	Spike	P	0 - 39
2446246	Tau-Fluvalinate	13.6	Spike	P	0 - 54
2446246	Tetramethrin	1.39	Spike	P	0 - 51
2446246	Trans-Nonachlor	0.565	Spike	P	0 - 39
2446246	Triclosan Methyl	15.4	Spike	P	0 - 31
2446246	Trifluralin	5.69	Spike	P	0 - 22
2446450	PCB-1016	10.1	Spike	P	0 - 25
2446450	PCB-1260	12.0	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P436789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446450	Chlordane	14.8	Spike	P	0 - 28
2446450	Toxaphene	14.6	Spike	P	0 - 27

Reference Method: SM 2320 B-2011
Batch ID: P436862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445705	Total Alkalinity	1.99	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P437261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446029	TDS	7.64	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436864

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445705	Fluoride	0.480	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P437014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446089	Organic Carbon	1.81	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2446241
Field Sample ID: G2NE1212

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	52.3	P	37 - 129
EPA 8270E	Decachlorobiphenyl	70.9	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	34.6	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	47.3	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	41.8	P	28 - 102
EPA 8276	PCNB	111	P	49 - 115

Lab Sample ID: 2446242
Field Sample ID: G2NE1212

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	65.9	P	20 - 200
EPA 8270E	Simazine-d10	77.0	P	58 - 137
EPA 8270E	Terbufos-d10	69.6	P	50 - 134
EPA 8270E	Terphenyl-d14	90.2	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A122250

Included Lab Sample IDs: 2446234, 2446235

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.8	99.9	P/P	90 - 110
Color (true)	99.9	99.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122251

Included Lab Sample IDs: 2446234, 2446235

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

Reference Method: SM 2320 B-2011

Run ID: A122285

Included Lab Sample IDs: 2446234, 2446235

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.0	95.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A122285

Included Lab Sample IDs: 2446234, 2446235

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122292

Included Lab Sample IDs: 2446236, 2446237

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	97.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122313

Included Lab Sample IDs: 2446236

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	92.5	90.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A122330

Included Lab Sample IDs: 2446242

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	94.5		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	88.8		P	80 - 120
Avobenzone	89.6		P	80 - 120
Dechlorane 602	98.3		P	80 - 120
Dechlorane 603	93.8		P	80 - 120
Dechlorane Plus	94.0		P	80 - 120
Hexabromobenzene	91.0		P	80 - 120
Octinoxate	90.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122330
Included Lab Sample IDs: 2446242

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxybenzone	93.2		P	80 - 120
PBB-153	87.2		P	80 - 120
PBDE-47	89.3		P	80 - 120
PBDE-99	88.5		P	80 - 120
Pentabromotoluene	96.0		P	80 - 120
Tetradecachloro-m-terphenyl	90.4		P	80 - 120
Tri-o-cresyl Phosphate	94.0		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	96.1		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	95.1		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	97.6		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A122345
Included Lab Sample IDs: 2446236, 2446237

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.7	90.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A122353
Included Lab Sample IDs: 2446236, 2446237

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	108	108	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A122369
Included Lab Sample IDs: 2446236, 2446237

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.4	97.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A122402
Included Lab Sample IDs: 2446237

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A122407
Included Lab Sample IDs: 2446241

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	103		P	80 - 120
Toxaphene	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122463
Included Lab Sample IDs: 2446241

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	84.8		P	80 - 120
Alpha-BHC	98.7		P	80 - 120
Alpha-Chlordane	90.4		P	80 - 120
Beta-BHC	98.1		P	80 - 120
Beta-Cyfluthrin	99.8		P	80 - 120
Bifenthrin	112		P	80 - 120
Chlorothalonil	102		P	80 - 120
Cis-Nonachlor	90.8		P	80 - 120
Cypermethrin	89.6		P	80 - 120
Dacthal	88.7		P	80 - 120
DDD-p,p'	85.2		P	80 - 120
DDE-p,p'	88.8		P	80 - 120
DDT-p,p'	116		P	80 - 120
Delta-BHC	112		P	80 - 120
Deltamethrin	94.9		P	80 - 120
Dichlobenil	104		P	80 - 120
Dicofol	98.3		P	80 - 120
Dieldrin	89.0		P	80 - 120
Endosulfan I	116		P	80 - 120
Endosulfan II	86.4		P	80 - 120
Endosulfan Sulfate	86.0		P	80 - 120
Endrin	83.6		P	80 - 120
Endrin Aldehyde	90.6		P	80 - 120
Endrin Ketone	117		P	80 - 120
Esfenvalerate	111		P	80 - 120
Ethalfuralin	91.8		P	80 - 120
Fenpropathrin	95.2		P	80 - 120
Gamma-BHC	116		P	80 - 120
Gamma-Chlordane	91.2		P	80 - 120
Heptachlor	88.0		P	80 - 120
Heptachlor Epoxide	116		P	80 - 120
Hexachlorobenzene	114		P	80 - 120
Kepone	102		P	80 - 120
Lambda-Cyhalothrin	116		P	80 - 120
Methoprene	83.5		P	80 - 120
Methoxychlor	115		P	80 - 120
MGK-264	84.8		P	80 - 120
Mirex	86.3		P	80 - 120
Oxychlordane	84.4		P	80 - 120
Permethrin	115		P	80 - 120
Phenothrin	82.7		P	80 - 120
Piperonyl Butoxide	80.3		P	80 - 120
Prallethrin	82.6		P	80 - 120
Tau-Fluvalinate	115		P	80 - 120
Tetramethrin	109		P	80 - 120
Trans-Nonachlor	94.6		P	80 - 120
Triclosan Methyl	89.5		P	80 - 120
Trifluralin	85.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A122479

Included Lab Sample IDs: 2446234, 2446235

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Chloride	101	103	P/P	90 - 110
Sulfate	100	103	P/P	90 - 110
Sulfate	101	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A122492

Included Lab Sample IDs: 2446241

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	90.2		P	80 - 120
PCB-1260	95.9		P	80 - 120

Reference Method: EPA 8270E

Run ID: A122612

Included Lab Sample IDs: 2446242

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	79.0*		F	80 - 120
Alachlor	90.3		P	80 - 120
Ametryn	117		P	80 - 120
Atrazine	99.4		P	80 - 120
Atrazine Desethyl	101		P	80 - 120
Azinphos Methyl	104		P	80 - 120
Azoxystrobin	94.1		P	80 - 120
Bromacil	92.4		P	80 - 120
Butylate	109		P	80 - 120
Caffeine	102		P	80 - 120
Carbophenothion	105		P	80 - 120
Carfentrazone Ethyl	93.5		P	80 - 120
Chlorfenapyr	89.4		P	80 - 120
Chlorpyrifos Ethyl	83.0		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	113		P	80 - 120
Cyanazine	91.3		P	80 - 120
Cyprodinil	84.0		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	93.4		P	80 - 120
Difenoconazole	105		P	80 - 120
Dimethenamid	85.3		P	80 - 120
Dimethomorph	111		P	80 - 120
Disulfoton	96.3		P	80 - 120
Dithiopyr	97.0		P	80 - 120
EPTC	109		P	80 - 120
Ethion	93.0		P	80 - 120
Ethoprop	94.4		P	80 - 120
Etridiazole	97.2		P	80 - 120
Fenamiphos	84.7		P	80 - 120
Fenbuconazole	87.8		P	80 - 120
Fipronil	87.9		P	80 - 120
Fipronil Desulfinyl	83.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122612
Included Lab Sample IDs: 2446242

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil Sulfide	109		P	80 - 120
Fipronil Sulfone	103		P	80 - 120
Fluazifop-P-butyl	111		P	80 - 120
Fludioxonil	97.2		P	80 - 120
Flumioxazin	118		P	80 - 120
Flutolanil	90.6		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	86.2		P	80 - 120
Hexazinone	95.5		P	80 - 120
Imazalil	95.0		P	80 - 120
Iprodione	80.9		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	80.9		P	80 - 120
Metalaxyl	111		P	80 - 120
Metribuzin	110		P	80 - 120
Mevinphos	104		P	80 - 120
Molinate	98.4		P	80 - 120
Myclobutanil	89.8		P	80 - 120
Naled	96.6		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	93.9		P	80 - 120
Oxyfluorfen	102		P	80 - 120
Parathion Ethyl	94.1		P	80 - 120
Parathion Methyl	94.5		P	80 - 120
Pendimethalin	98.6		P	80 - 120
Phenytoin	85.8		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	60.0*		F	80 - 120
Prometon	107		P	80 - 120
Prometryn	97.3		P	80 - 120
Pronamide	92.1		P	80 - 120
Propanil	100		P	80 - 120
Propargite	94.9		P	80 - 120
Propiconazole	95.0		P	80 - 120
Pyraflufen Ethyl	118		P	80 - 120
Pyridaben	97.3		P	80 - 120
Pyriproxyfen	93.1		P	80 - 120
Simazine	101		P	80 - 120
Stirophos	112		P	80 - 120
Sulfentrazone	98.4		P	80 - 120
Tebuconazole	93.7		P	80 - 120
Terbufos	104		P	80 - 120
Terbutylazine	86.4		P	80 - 120
Thiobencarb	91.6		P	80 - 120
Triadimefon	105		P	80 - 120

Reference Method: EPA 8270E
Run ID: A122613
Included Lab Sample IDs: 2446242

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

Calibration Verification

Reference Method: EPA 8270E
Run ID: A122613
Included Lab Sample IDs: 2446242

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Metolachlor	91.2		P	80 - 120
Napropamide	100		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	97.8				7.66	
EPA 180.1 Rev. 2.0	Turbidity	104				5.61	
EPA 300.0 Rev. 2.1	Chloride	105	105	107		0.646	
	Sulfate	106	105	106		1.02	
EPA 350.1 Rev. 2.0	Ammonia-N	98.0	102	103			0.768
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	103	103			0.539
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	92.0	92.0	92.5			0.542
	NO ₂ NO ₃ -N	98.5	96.4	95.8			0.449
EPA 365.1 Rev. 2.0	Total-P	102	104	104			0.249
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	73.6	56.1	61.8			9.58
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	20.1	74.6	72.8			2.38
	Acetochlor	68.0	88.0	83.6			5.14
	Alachlor	81.1	76.0	101			27.8
	Aldrin	48.3	40.8	49.0			18.3
	Alpha-BHC	79.9	85.4	83.3			2.48
	Alpha-Chlordane	73.9	65.6	72.3			9.69
	Ametryn	111	98.0	75.3			26.1
	Atrazine	118	108	104			4.01
	Atrazine Desethyl	107	74.4	81.8			9.58
	Avobenzone	108	92.2	103			11.5
	Azinphos Methyl	53.8	148	174			15.7
	Azoxystrobin	85.3	87.1	96.6			9.87
	Beta-BHC	80.4	88.2	81.5			7.84
	Beta-Cyfluthrin	78.0	102	83.9			19.5
	Bifenthrin	55.7	70.8	59.6			17.2
	Bromacil	93.0	80.1	59.1			30.2
	Butylate	59.7	70.7	74.8			5.57
	Caffeine	146	110	118			6.56
	Carbophenothion	118	66.3	69.7			5.03
	Carfentrazone Ethyl	95.7	69.4	74.7			7.34
	Chlorfenapyr	75.2	77.2	61.7			22.4
	Chlorothalonil	92.5	157	90.9			53.3
	Chlorpyrifos Ethyl	108	72.2	60.9			16.9
	Chlorpyrifos Methyl	99.6	84.4	70.8			17.5
	Cis-Nonachlor	68.8	66.9	60.8			9.58
	Coumaphos	113	74.8	73.8			1.33
	Cyanazine	88.9	102	93.6			8.52
	Cypermethrin	75.6	90.8	92.1			1.38
	Cyprodinil	89.0	78.3	83.6			6.62
	Dacthal	85.2	79.1	80.7			2.00
	DDD-p,p'	72.2	65.0	66.6			2.34
	DDE-p,p'	70.3	64.9	68.0			4.63
	DDT-p,p'	70.7	74.9	75.6			0.849
	Dechlorane 602	57.5	40.1	41.4			3.13
	Dechlorane 603	82.3	76.0	80.1			5.31
	Dechlorane Plus	75.2	71.9	65.2			9.80
	Delta-BHC	82.4	101	104			2.61
	Deltamethrin	91.3	120	111			7.89
	Demeton	89.3	98.5	119			19.0
	Diazinon	98.3	88.4	89.4			1.13
	Dichlobenil	65.5	74.8	74.2			0.828

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Dicofol	72.2	83.0	76.4			8.35
	Dieldrin	75.4	71.4	75.3			5.32
	Difenoconazole	64.5	145	123			16.6
	Dimethenamid	83.5	85.8	87.0			1.35
	Dimethomorph	150	199	172			14.9
	Disulfoton	80.3	112	83.9			28.5
	Dithiopyr	91.2	84.5	66.4			24.0
	Endosulfan I	70.0	81.0	83.9			3.54
	Endosulfan II	73.2	68.2	68.9			1.08
	Endosulfan Sulfate	76.2	68.9	73.2			6.05
	Endrin	71.5	69.4	74.0			6.36
	Endrin Aldehyde	70.8	53.5	61.9			14.7
	Endrin Ketone	119	128	110			15.1
	EPTC	56.0	59.6	51.7			14.3
	Esfenvalerate	69.3	110	95.5			14.6
	Ethalfuralin	71.1	63.7	66.1			3.63
	Ethion	63.8	62.4	58.7			6.22
	Ethoprop	93.4	102	101			1.52
	Etridiazole	66.7	79.3	84.9			6.85
	Fenamiphos	112	74.4	53.0			28.9
	Fenbuconazole	53.1	74.9	84.9			12.4
	Fenpropathrin	79.2	78.1	79.1			1.27
	Fipronil	66.2	69.9	51.4			30.5
	Fipronil Desulfinyl	73.5	58.8	46.4			23.5
	Fipronil Sulfide	65.7	59.1	45.2			26.7
	Fipronil Sulfone	90.7	141	80.3			54.8
	Fluazifop-P-butyl	95.4	72.1	57.8			22.0
	Fludioxonil	82.5	86.6	64.8			28.8
	Flumioxazin	56.5	154	140			9.52
	Flutolanil	71.9	71.2	62.0			13.1
	Fluxapyroxad	92.6	137	93.3			37.9
	Fonofos	87.8	90.8	69.9			25.9
	Gamma-BHC	107	109	109			0.242
	Gamma-Chlordane	74.6	62.0	66.8			7.46
	Heptachlor	65.6	52.3	63.7			19.5
	Heptachlor Epoxide	71.5	79.2	90.6			13.4
	Hexabromobenzene	71.2	88.5	93.7			5.77
	Hexachlorobenzene	46.0	45.4	50.2			10.2
	Hexazinone	108	104	99.1			5.26
	Imazalil	115	58.0	43.0			29.7
	Iprodione	110	89.4	73.3			19.9
	Kepone	63.4	56.9	58.3			2.50
	Lambda-Cyhalothrin	65.4	97.2	84.0			14.6
	Loratadine	147	64.0	66.9			4.52
	Malathion	125	125	99.5			22.8
	Metalaxyl	93.0	93.2	112			18.0
	Methoprene	56.1	60.0	64.5			7.20
	Methoxychlor	75.5	92.1	99.3			7.46
	Metolachlor	103	91.5	68.9			23.0
	Metribuzin	12.8	51.2	81.5			45.6
	Mevinphos	102	96.2	94.8			1.45
	MGK-264	75.6	79.1	86.5			8.92
	Mirex	55.9	44.7	45.6			1.95
	Molinate	72.5	65.9	83.8			24.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Myclobutanil	76.9	103	94.5		8.37
	Naled	51.4	55.4	62.4		12.0
	Napropamide	73.1	69.8	72.1		3.29
	Norflurazon	81.3	70.9	64.9		8.87
	Octinoxate	113	101	101		0.192
	Oxadiazon	77.0	65.8	53.5		20.6
	Oxybenzone	117	103	109		5.04
	Oxychlordane	68.0	64.7	72.4		11.2
	Oxyfluorfen	99.8	183	117		44.2
	Parathion Ethyl	109	115	114		0.972
	Parathion Methyl	133	107	91.4		15.2
	PBB-153	31.3	72.6	86.6		17.5
	PBDE-47	79.5	62.6	59.3		5.40
	PBDE-99	51.6	55.1	58.8		6.46
	PCB-1016	77.1	69.8	77.2		10.1
	PCB-1260	81.6	80.4	90.6		12.0
	Pendimethalin	133	113	109		3.42
	Pentabromotoluene	85.3	85.6	84.2		1.68
	Permethrin	68.0	86.1	79.3		8.14
	Phenothrin	48.4	80.7	70.9		12.9
	Phenytol	55.8	42.0	44.6		6.16
	Phorate	104	134	131		1.92
	Piperonyl Butoxide	83.2	84.0	88.9		5.12
	Prallethrin	72.2	58.5	76.4		26.5
	Prodiamine	54.1	65.7	62.1		5.67
	Prometon	101	145	134		7.63
	Prometryn	92.5	91.9	84.3		8.65
	Pronamide	106	124	105		16.5
	Propanil	116	99.8	99.2		0.683
	Propargite	87.0	93.6	80.6		14.9
	Propiconazole	63.7	73.4	58.7		22.3
	Pyraflufen Ethyl	88.3	47.1	46.8		0.406
	Pyridaben	90.7	146	98.1		39.3
	Pyriproxyfen	56.0	79.9	76.0		4.99
	Simazine	108	112	104		7.75
	Stirophos	91.6	58.9	55.5		5.97
	Sulfentrazon	110	46.2	41.9		9.84
	Tau-Fluvalinate	65.9	98.2	85.7		13.6
	Tebuconazole	68.0	53.1	42.3		18.0
	Terbufos	98.5	116	83.7		32.4
	Terbuthylazine	70.6	111	89.0		22.1
	Tetradecachloro-m-terphenyl	132	143	137		4.24
	Tetramethrin	79.2	107	105		1.39
	Thiobencarb	93.5	96.2	82.8		15.0
	Trans-Nonachlor	77.9	67.9	68.3		0.565
	Tri-o-cresyl Phosphate	98.3	94.3	96.6		2.38
	Triadimefon	125	66.2	61.7		7.06
	Triclosan Methyl	76.1	66.9	78.1		15.4
	Trifluralin	67.2	66.7	70.6		5.69
	Tris(1-chloro-2-propyl) phosphate (TCPP)	127	122	118		3.66
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	99.1	91.9	84.5		8.36

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8270E	Tris(2-chloroethyl) phosphate (TCEP)	107	97.5	112		13.5
EPA 8276	Chlordane	83.1	64.6	76.3		14.8
	Toxaphene	91.7				14.6
SM 2320 B-2011	Total Alkalinity	97.1			1.99	
SM 2540 C-2015	TDS	107			7.64	
SM 2540 D-2015	TSS	92.0				
SM 4500-F- C-2011	Fluoride	99.6	100	99.8		0.480
SM 5310 B-2011	Organic Carbon	96.4	96.5	98.8		1.81

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2446234, 2446235
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2446234, 2446235
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2446234, 2446235
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2446234, 2446235
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2446236, 2446237
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2446236, 2446237
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2446236, 2446237
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2446236, 2446237
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2446242
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2446241
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2446242
EPA 8270E	PCBs in water matrices by GC/MS/MS	2446241
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2446241
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2446234, 2446235
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2446234, 2446235
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2446234, 2446235
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2446234, 2446235
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2446236, 2446237

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	10/19/2023			10/19/2023 14:55	Anna M. Plaviak	2446234
	10/19/2023			10/19/2023 15:02	Anna M. Plaviak	2446235
EPA 180.1 Rev. 2.0	10/19/2023			10/19/2023 14:25	Samantha L Bates	2446234
	10/19/2023			10/19/2023 14:26	Samantha L Bates	2446235
EPA 300.0 Rev. 2.1	10/19/2023			11/02/2023 07:32	James L Waggeberby	2446235
	10/19/2023			11/02/2023 12:04	James L Waggeberby	2446234
EPA 350.1 Rev. 2.0	10/19/2023			10/23/2023 13:55	Ping Hua	2446236
	10/19/2023			10/23/2023 13:56	Ping Hua	2446237
EPA 351.2 Rev. 2.0	10/19/2023	10/24/2023 11:15	Ping Hua	10/25/2023 12:16	Samantha L Bates	2446236
	10/19/2023	10/24/2023 11:15	Ping Hua	10/25/2023 12:21	Samantha L Bates	2446237
EPA 353.2 Rev. 2.0	10/19/2023			10/23/2023 16:22	Fadila Guebre	2446236
	10/19/2023			10/26/2023 14:16	Fadila Guebre	2446237
EPA 365.1 Rev. 2.0	10/19/2023	10/23/2023 13:55	Simonne.V. Calhoun	10/25/2023 15:28	Simonne.V. Calhoun	2446236
	10/19/2023	10/23/2023 13:55	Simonne.V. Calhoun	10/25/2023 15:29	Simonne.V. Calhoun	2446237
EPA 8270E	10/19/2023	10/20/2023 08:00	Fe-Val Siddell	10/24/2023 00:28	Vandana T. Nagar	2446242
	10/19/2023	10/20/2023 08:00	Fe-Val Siddell	10/24/2023 22:24	Arthur Maknenko	2446242
	10/19/2023	10/20/2023 08:00	Fe-Val Siddell	11/06/2023 19:35	Vandana T. Nagar	2446242
	10/19/2023	10/24/2023 08:00	Fe-Val Siddell	10/29/2023 09:03	Julie Wi	2446241
	10/19/2023	10/24/2023 08:00	Fe-Val Siddell	11/01/2023 01:26	Lipi Saha	2446241
	10/19/2023	10/24/2023 08:00	Fe-Val Siddell	10/27/2023 06:20	Arthur Maknenko	2446241
EPA 8276	10/19/2023			10/21/2023 01:30	Chandler E Cox	2446234
	10/19/2023			10/21/2023 01:39	Chandler E Cox	2446235
SM 2320 B-2011	10/19/2023			10/24/2023 15:22	Yijie Li	2446234, 2446235
SM 2540 C-2015	10/19/2023			10/24/2023 15:22	Yijie Li	2446234, 2446235
SM 4500-F- C-2011	10/19/2023			10/21/2023 01:30	Chandler E Cox	2446234
	10/19/2023			10/21/2023 01:39	Chandler E Cox	2446235
SM 5310 B-2011	10/19/2023			10/25/2023 19:09	Elise M. Gillis	2446236
	10/19/2023			10/25/2023 19:24	Elise M. Gillis	2446237