

Chemical Analysis Report

NE-DIST-2024-01-24-02

Florida DEP Laboratory
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DOH Accreditation E31780

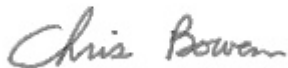
Event Description: **LSJR South Lake**
Request ID: **RQ-2024-01-08-52**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
Suite 100
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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 13-FEB-2024 16:11



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: LAKE EATON CENTER

Collection Date/Time: 01/23/2024 10:25

Field ID: G1NE0954

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463026	DEP SOP: NU-094-1	Color (true)	340		PCU	P440385	
	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P440388	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P440677	
		Sulfate	8.2		mg SO4/L	P440680	
	SM 2320 B-2011	Total Alkalinity	23		mg CaCO3/L	P440871	
	SM 2540 C-2015	TDS	141		mg/L	P440826	
	SM 2540 D-2015	TSS	4	I	mg/L	P440743	
	SM 4500-F- C-2011	Fluoride	0.059	I	mg F/L	P440874	
2463027	EPA 350.1 Rev. 2.0	Ammonia-N	0.071		mg N/L	P440814	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4	J	mg N/L	P440560	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.081		mg N/L	P440835	
	EPA 365.1 Rev. 2.0	Total-P	0.042		mg P/L	P440466	
	SM 5310 B-2014	Organic Carbon	34		mg C/L	P440785	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: MILL BR AT OLD SAN MATEO RD

Collection Date/Time: 01/23/2024 11:40

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463029	EPA 8270E	Aldrin	0.67	U	ng/L	P440412	
		Alpha-BHC	0.10	U	ng/L	P440412	
		Alpha-Chlordane	0.21	U	ng/L	P440412	
		PCB-1016	2.1	U	ng/L	P440412	
		Beta-BHC	0.10	U	ng/L	P440412	
		PCB-1221	2.1	U	ng/L	P440412	
		Beta-Cyfluthrin	1.3	U	ng/L	P440412	
		PCB-1232	2.1	U	ng/L	P440412	
		Bifenthrin	0.52	U	ng/L	P440412	
		PCB-1242	2.1	U	ng/L	P440412	
		PCB-1248	2.1	U	ng/L	P440412	
		Chlorothalonil	3.7	U	ng/L	P440412	
		PCB-1254	2.1	U	ng/L	P440412	
		Cis-Nonachlor	0.21	U	ng/L	P440412	
		PCB-1260	2.1	U	ng/L	P440412	
		Cypermethrin	1.5	U	ng/L	P440412	
		Dacthal	0.15	U	ng/L	P440412	
		DDD-p,p'	0.26	U	ng/L	P440412	
		DDE-p,p'	0.21	U	ng/L	P440412	
		DDT-p,p'	0.83	U	ng/L	P440412	
		Delta-BHC	0.41	U	ng/L	P440412	
		Deltamethrin	1.3	U	ng/L	P440412	
		Dichlobenil	0.26	U	ng/L	P440412	
		Dicofol	1.3	U	ng/L	P440412	
		Dieldrin	0.41	U	ng/L	P440412	
		Endosulfan I	0.41	U	ng/L	P440412	MS, RPD
		Endosulfan II	0.93	U	ng/L	P440412	
		Endosulfan Sulfate	0.31	UJ	ng/L	P440412	LCS, MS
		Endrin	0.93	U	ng/L	P440412	
		Endrin Aldehyde	0.77	U	ng/L	P440412	
		Endrin Ketone	0.41	U	ng/L	P440412	
		Esfenvalerate	0.77	U	ng/L	P440412	
		Ethalfuralin	0.15	U	ng/L	P440412	
		Fenpropathrin	0.26	U	ng/L	P440412	
		Gamma-BHC	0.13	U	ng/L	P440412	
		Gamma-Chlordane	0.21	U	ng/L	P440412	
		Heptachlor	0.21	U	ng/L	P440412	
		Heptachlor Epoxide	0.26	U	ng/L	P440412	MS, RPD
		Hexachlorobenzene**	1.0	U	ng/L	P440412	
		Kepone	14	U	ng/L	P440412	
		Lambda-Cyhalothrin	0.77	U	ng/L	P440412	
		Methoprene	0.77	U	ng/L	P440412	
		Methoxychlor	0.31	U	ng/L	P440412	
		MGK-264	0.21	UJ	ng/L	P440412	LCS, MS

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463029	EPA 8270E	Mirex	0.36	U	ng/L	P440412	MS, RPD
		Oxychlordane	0.31	U	ng/L	P440412	
		Permethrin	1.7	U	ng/L	P440412	
		Phenothrin	0.93	U	ng/L	P440412	
		Piperonyl Butoxide	0.15	U	ng/L	P440412	
		Prallethrin	2.1	U	ng/L	P440412	
		Tau-Fluvalinate	0.26	U	ng/L	P440412	
		Tetramethrin	0.77	U	ng/L	P440412	
		Trans-Nonachlor	0.21	U	ng/L	P440412	MS
		Triclosan Methyl	0.15	U	ng/L	P440412	MS, RPD
		Trifluralin	1.2		ng/L	P440412	
		Chlordane	2.1	U	ng/L	P440412	
		Toxaphene	15	U	ng/L	P440412	
2463030	EPA 8270E	Oxybenzone**	10	U	ng/L	P440184	RPD
		Acetochlor	0.20	U	ng/L	P440184	RPD
		Octinoxate**	150	U	ng/L	P440184	
		Alachlor	0.41	U	ng/L	P440184	
		Avobenzone**	100	U	ng/L	P440184	
		Ametryn	1.1	U	ng/L	P440184	
		Atrazine	0.20	U	ng/L	P440184	
		PBDE-47**	4.1	U	ng/L	P440184	
		Atrazine Desethyl	1.3	U	ng/L	P440184	
		PBDE-99**	5.1	U	ng/L	P440184	
		Azinphos Methyl	3.0	UJ	ng/L	P440184	CCV
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P440184	
		Azoxystrobin	36	J	ng/L	P440184	
		Bromacil	0.61	U	ng/L	P440184	
		2-Ethylhexyl	12	U	ng/L	P440184	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.46	U	ng/L	P440184	RPD
		Dechlorane Plus**	30	U	ng/L	P440184	
		Caffeine**	22	I	ng/L	P440184	
		Dechlorane 602**	5.1	U	ng/L	P440184	
		Carbophenothion	0.51	U	ng/L	P440184	
		Dechlorane 603**	4.1	U	ng/L	P440184	
		Carfentrazone Ethyl	0.15	U	ng/L	P440184	
		Hexabromobenzene**	6.1	U	ng/L	P440184	
		Chlorfenapyr	0.30	U	ng/L	P440184	
		PBB-153**	6.1	U	ng/L	P440184	
		Chlorpyrifos Ethyl	0.30	U	ng/L	P440184	
		Pentabromotoluene**	3.0	U	ng/L	P440184	RPD
		Chlorpyrifos Methyl	0.10	U	ng/L	P440184	
		Tris(2-chloroethyl) phosphate (TCEP)**	56	U	ng/L	P440184	RPD
		Coumaphos	1.1	UJ	ng/L	P440184	CCV
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	25	U	ng/L	P440184	RPD

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463030	EPA 8270E	Cyanazine	5.1	U	ng/L	P440184	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.8	I	ng/L	P440184	RPD
		Cyprodinil	0.20	U	ng/L	P440184	
		Tetradecachloro-m-terphenyl**	7.6	U	ng/L	P440184	RPD
		Demeton	3.6	U	ng/L	P440184	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	61	U	ng/L	P440184	
		Diazinon	0.13	U	ng/L	P440184	
		Difenoconazole	16		ng/L	P440184	
		Dimethenamid	0.10	U	ng/L	P440184	
		Dimethomorph	0.30	UJ	ng/L	P440184	LCS, MS
		Disulfoton	0.61	U	ng/L	P440184	
		Dithiopyr	1.0	U	ng/L	P440184	
		EPTC	25		ng/L	P440184	
		Ethion	0.30	U	ng/L	P440184	
		Ethoprop	17		ng/L	P440184	
		Etridiazole	0.10	U	ng/L	P440184	
		Fenamiphos	0.46	U	ng/L	P440184	
		Fenbuconazole	0.51	U	ng/L	P440184	
		Fipronil	1.9		ng/L	P440184	
		Fipronil Desulfinyl**	0.83		ng/L	P440184	
		Fipronil Sulfide	1.7		ng/L	P440184	
		Fipronil Sulfone	3.9		ng/L	P440184	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P440184	CCV
		Fludioxonil	8.7		ng/L	P440184	
		Flumioxazin	3.0	U	ng/L	P440184	
		Flutolanil	0.10	UJ	ng/L	P440184	LCS
		Fluxapyroxad	2.5		ng/L	P440184	
		Fonofos	0.15	U	ng/L	P440184	
		Hexazinone	0.51	U	ng/L	P440184	
		Imazalil	0.66	U	ng/L	P440184	
		Iprodione	0.51	U	ng/L	P440184	
		Loratadine**	0.30	UJ	ng/L	P440184	LCS
		Malathion	0.36	U	ng/L	P440184	
		Metalaxyl	4.0		ng/L	P440184	
		Metolachlor	29		ng/L	P440184	
		Metribuzin	1.1	I	ng/L	P440184	
		Mevinphos	1.0	U	ng/L	P440184	
		Molinate	0.25	U	ng/L	P440184	
		Myclobutanil	0.36	U	ng/L	P440184	
		Naled	2.5	U	ng/L	P440184	
		Napropamide	4.4		ng/L	P440184	
		Norflurazon	1.0	U	ng/L	P440184	
		Oxadiazon	0.36	U	ng/L	P440184	
		Oxyfluorfen	0.20	U	ng/L	P440184	

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463030	EPA 8270E	Parathion Ethyl	0.15	U	ng/L	P440184	RPD
		Parathion Methyl	0.20	U	ng/L	P440184	MS, RPD
		Pendimethalin	1.7	U	ng/L	P440184	
		Phenytoin**	5.4	U	ng/L	P440184	
		Phorate	0.25	U	ng/L	P440184	
		Prodiamine	0.20	U	ng/L	P440184	
		Prometon	3.0	U	ng/L	P440184	
		Prometryn	0.36	U	ng/L	P440184	
		Pronamide	0.10	U	ng/L	P440184	
		Propanil	0.10	U	ng/L	P440184	
		Propargite	0.81	U	ng/L	P440184	
		Propiconazole	0.61	U	ng/L	P440184	
		Pyraflufen Ethyl	0.30	U	ng/L	P440184	
		Pyridaben	1.4	U	ng/L	P440184	
		Pyriproxyfen	0.25	U	ng/L	P440184	
		Simazine	0.25	U	ng/L	P440184	
		Stirophos	0.41	U	ng/L	P440184	
		Sulfentrazone	1.4	U	ng/L	P440184	
		Tebuconazole	1.4	U	ng/L	P440184	
		Terbufos	0.20	U	ng/L	P440184	
		Terbuthylazine	0.20	U	ng/L	P440184	
		Thiobencarb	0.51	U	ng/L	P440184	
		Triadimefon	0.15	U	ng/L	P440184	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Estimation for azoxysrobin due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P440385

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440388

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440677

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440680

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440814

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440560

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440835

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440466

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

Reference Method: EPA 8270E
Batch ID: P440184

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P440184

Component	Result	Code	Units
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
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P440184

Component	Result	Code	Units
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
Phenytol	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
Terbuthylazine	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: P440412

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P440412

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8276
Batch ID: P440412

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

Reference Method: SM 2320 B-2011
Batch ID: P440871

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

Reference Method: SM 2540 C-2015
Batch ID: P440826

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P440743

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P440874

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P440785

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: P440385

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440388

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440677

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440680

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440814

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: P440560

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.4		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440835

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440466

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

Reference Method: EPA 8270E
Batch ID: P440184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	80.3		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	102		P	37 - 154
Acetochlor	109		P	64 - 124
Alachlor	111		P	61 - 118

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P440184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ametryn	146		P	47 - 158
Atrazine	105		P	68 - 121
Atrazine Desethyl	112		P	30 - 119
Avobenzone	124		P	48 - 193
Azinphos Methyl	146		P	30 - 194
Azoxystrobin	150		P	58 - 154
Bromacil	122		P	47 - 126
Butylate	62.1		P	31 - 83.0
Caffeine	117		P	10 - 180
Carbophenothion	127		P	59 - 133
Carfentrazone Ethyl	141		P	59 - 147
Chlorfenapyr	100		P	52 - 118
Chlorpyrifos Ethyl	111		P	59 - 119
Chlorpyrifos Methyl	117		P	65 - 123
Coumaphos	172		P	11 - 223
Cyanazine	224		P	63 - 250
Cyprodinil	114		P	52 - 143
Dechlorane 602	64.9		P	23 - 142
Dechlorane 603	102		P	51 - 171
Dechlorane Plus	105		P	46 - 161
Demeton	87.0		P	42 - 119
Diazinon	120		P	67 - 132
Difenoconazole	170		P	12 - 204
Dimethenamid	95.5		P	53 - 113
Dimethomorph	298		F	13 - 238
Disulfoton	125		P	56 - 126
Dithiopyr	114		P	58 - 127
EPTC	52.3		P	31 - 78.0
Ethion	39.1		P	24 - 127
Ethoprop	109		P	60 - 118
Etridiazole	70.8		P	32 - 91.0
Fenamiphos	98.5		P	54 - 129
Fenbuconazole	119		P	31 - 162
Fipronil	129		P	56 - 131
Fipronil Desulfinyl	111		P	58 - 132
Fipronil Sulfide	106		P	51 - 123
Fipronil Sulfone	109		P	50 - 125
Fluazifop-P-butyl	117		P	52 - 132
Fludioxonil	106		P	52 - 129
Flumioxazin	201		P	34 - 250
Flutolanil	134		F	45 - 128
Fluxapyroxad	92.6		P	31 - 150
Fonofos	112		P	60 - 116
Hexabromobenzene	98.4		P	52 - 165
Hexazinone	106		P	59 - 120
Imazalil	129		P	39 - 134
Iprodione	175		P	39 - 243
Loratadine	270		F	10 - 240
Malathion	124		P	53 - 145
Metalaxyl	95.6		P	59 - 120
Metolachlor	101		P	64 - 122
Metribuzin	126		P	33 - 128

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P440184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mevinphos	97.0		P	48 - 119
Molinate	66.5		P	42 - 89.0
Myclobutanil	109		P	54 - 129
Naled	54.1		P	10 - 138
Napropamide	65.3		P	40 - 122
Norflurazon	113		P	49 - 132
Octinoxate	101		P	29 - 176
Oxadiazon	95.3		P	50 - 115
Oxybenzone	99.3		P	45 - 145
Oxyfluorfen	120		P	62 - 149
Parathion Ethyl	107		P	68 - 119
Parathion Methyl	111		P	68 - 147
PBB-153	105		P	42 - 179
PBDE-47	85.8		P	44 - 141
PBDE-99	90.1		P	36 - 141
Pendimethalin	94.7		P	59 - 158
Pentabromotoluene	89.8		P	58 - 148
Phenytoin	33.8		P	10 - 151
Phorate	104		P	44 - 124
Prodiamine	42.7		P	10 - 136
Prometon	105		P	45 - 131
Prometryn	126		P	52 - 140
Pronamide	119		P	70 - 129
Propanil	124		P	54 - 144
Propargite	71.0		P	10 - 191
Propiconazole	87.0		P	49 - 128
Pyraflufen Ethyl	125		P	46 - 141
Pyridaben	164		P	29 - 198
Pyriproxyfen	93.7		P	33 - 221
Simazine	108		P	62 - 119
Stirophos	70.9		P	13 - 144
Sulfentrazone	118		P	12 - 152
Tebuconazole	51.2		P	10 - 135
Terbufos	115		P	67 - 136
Terbuthylazine	105		P	66 - 113
Tetradecachloro-m-terphenyl	147		P	30 - 235
Thiobencarb	111		P	51 - 125
Tri-o-cresyl Phosphate	88.6		P	50 - 150
Triadimefon	101		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	107		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	105		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	119		P	59 - 166

Reference Method: EPA 8270E
Batch ID: P440412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	64.4		P	30 - 96.0
Alpha-BHC	81.4		P	70 - 109
Alpha-Chlordane	103		P	45 - 107
Beta-BHC	96.5		P	64 - 138
Beta-Cyfluthrin	108		P	17 - 141

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P440412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bifenthrin	37.3		P	10 - 113
Chlorothalonil	102		P	26 - 180
Cis-Nonachlor	57.0		P	37 - 102
Cypermethrin	58.2		P	20 - 133
Dacthal	95.5		P	69 - 114
DDD-p,p'	57.7		P	42 - 105
DDE-p,p'	57.7		P	42 - 106
DDT-p,p'	71.4		P	42 - 107
Delta-BHC	71.7		P	67 - 144
Deltamethrin	125		P	15 - 149
Dichlobenil	90.0		P	46 - 117
Dicofol	72.7		P	34 - 114
Dieldrin	85.1		P	50 - 108
Endosulfan I	88.0		P	55 - 104
Endosulfan II	86.2		P	51 - 111
Endosulfan Sulfate	127		F	56 - 121
Endrin	94.5		P	10 - 106
Endrin Aldehyde	93.1		P	34 - 114
Endrin Ketone	101		P	63 - 177
Esfenvalerate	103		P	29 - 143
Ethalfuralin	91.6		P	46 - 96.0
Fenpropathrin	41.9		P	28 - 115
Gamma-BHC	80.4		P	65 - 121
Gamma-Chlordane	62.5		P	39 - 103
Heptachlor	47.6		P	39 - 94.0
Heptachlor Epoxide	101		P	54 - 104
Hexachlorobenzene	48.8		P	36 - 100
Kepone	129		P	10 - 225
Lambda-Cyhalothrin	67.9		P	10 - 135
Methoprene	38.5		P	10 - 109
Methoxychlor	64.7		P	52 - 112
MGK-264	129		F	44 - 117
Mirex	36.8		P	20 - 90.0
Oxychlordane	83.4		P	44 - 102
PCB-1016	73.3		P	45 - 107
PCB-1260	77.4		P	40 - 118
Permethrin	97.2		P	18 - 135
Phenothrin	71.1		P	10 - 102
Piperonyl Butoxide	105		P	28 - 156
Prallethrin	110		P	28 - 113
Tau-Fluvalinate	51.9		P	10 - 123
Tetramethrin	103		P	18 - 158
Trans-Nonachlor	78.6		P	39 - 104
Triclosan Methyl	94.2		P	54 - 108
Trifluralin	92.1		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P440412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	101		P	52 - 117
Toxaphene	110		P	44 - 125

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P440871

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.0		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P440826

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

Reference Method: SM 2540 D-2015
Batch ID: P440743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	97.6		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P440874

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.8		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P440785

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440677

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462635	Chloride	101		P	90 - 110
2463053	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440680

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462635	Sulfate	99.1		P	90 - 110
2463053	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2461495	Ammonia-N	94.4	93.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440560

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463027	Kjeldahl Nitrogen	90.6	88.8	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440835

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462927	NO2NO3-N	97.0	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440466

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463059	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P440184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462399	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	62.9	72.5	P/P	50 - 150
2462399	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	75.4	88.9	P/P	29 - 155
2462399	Acetochlor	73.2	99.0	P/P	60 - 124
2462399	Alachlor	76.8	88.2	P/P	54 - 122
2462399	Ametryn	101	131	P/P	51 - 208
2462399	Atrazine	71.0	84.6	P/P	57 - 131
2462399	Atrazine Desethyl	109	123	P/P	13 - 124
2462399	Avobenzone	84.7	117	P/P	35 - 187
2462399	Azinphos Methyl	101	112	P/P	43 - 276
2462399	Azoxystrobin	92.0	114	P/P	52 - 300
2462399	Bromacil	85.9	116	P/P	44 - 134
2462399	Butylate	32.7	55.4	P/P	23 - 82.0
2462399	Caffeine	121	141	P/P	10 - 277
2462399	Carbophenothion	95.6	107	P/P	47 - 135

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P440184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462399	Carfentrazone Ethyl	103	120	P/P	46 - 147
2462399	Chlorfenapyr	68.1	67.0	P/P	43 - 114
2462399	Chlorpyrifos Ethyl	74.2	88.6	P/P	47 - 124
2462399	Chlorpyrifos Methyl	78.8	96.3	P/P	60 - 135
2462399	Coumaphos	136	112	P/P	10 - 222
2462399	Cyanazine	161	192	P/P	10 - 257
2462399	Cyprodinil	78.6	102	P/P	42 - 148
2462399	Dechlorane 602	57.1	72.9	P/P	14 - 133
2462399	Dechlorane 603	72.5	96.5	P/P	18 - 191
2462399	Dechlorane Plus	74.6	92.1	P/P	23 - 154
2462399	Demeton	60.6	77.4	P/P	41 - 137
2462399	Diazinon	80.8	94.6	P/P	64 - 139
2462399	Difenoconazole	122	141	P/P	46 - 254
2462399	Dimethenamid	72.1	86.6	P/P	47 - 117
2462399	Dimethomorph	204	259	P/F	14 - 255
2462399	Disulfoton	83.3	109	P/P	52 - 130
2462399	Dithiopyr	82.4	99.3	P/P	40 - 121
2462399	EPTC	31.0	48.5	P/P	19 - 78.0
2462399	Ethion	47.2	55.7	P/P	12 - 124
2462399	Ethoprop	80.7	103	P/P	68 - 144
2462399	Etridiazole	44.4	64.7	P/P	26 - 96.0
2462399	Fenamiphos	75.3	105	P/P	41 - 129
2462399	Fenbuconazole	87.3	85.4	P/P	26 - 169
2462399	Fipronil	74.2	91.2	P/P	46 - 145
2462399	Fipronil Desulfinyl	91.4	103	P/P	47 - 136
2462399	Fipronil Sulfide	67.1	79.6	P/P	41 - 127
2462399	Fipronil Sulfone	89.6	92.0	P/P	35 - 133
2462399	Fluazifop-P-butyl	107	118	P/P	46 - 131
2462399	Fludioxonil	79.8	90.0	P/P	51 - 124
2462399	Flumioxazin	157	176	P/P	10 - 289
2462399	Flutolanil	91.0	105	P/P	34 - 130
2462399	Fluxapyroxad	81.9	91.6	P/P	10 - 197
2462399	Fonofos	73.5	77.6	P/P	42 - 131
2462399	Hexabromobenzene	74.2	95.4	P/P	47 - 178
2462399	Hexazinone	74.0	93.4	P/P	64 - 125
2462399	Imazalil	124	138	P/P	37 - 252
2462399	Iprodione	137	153	P/P	34 - 265
2462399	Loratadine	144	204	P/P	20 - 231
2462399	Malathion	88.2	101	P/P	34 - 164
2462399	Metalaxyl	67.6	90.7	P/P	49 - 125
2462399	Metolachlor	72.8	81.9	P/P	54 - 125
2462399	Metribuzin	82.7	104	P/P	51 - 139
2462399	Mevinphos	73.4	90.9	P/P	46 - 130
2462399	Molinate	43.2	56.7	P/P	39 - 93.0
2462399	Myclobutanil	83.3	98.0	P/P	50 - 130
2462399	Naled	37.9	53.8	P/P	10 - 150
2462399	Napropamide	74.2	76.9	P/P	10 - 109
2462399	Norflurazon	89.3	71.0	P/P	36 - 134
2462399	Octinoxate	73.8	102	P/P	18 - 170
2462399	Oxadiazon	64.1	73.4	P/P	43 - 112
2462399	Oxybenzone	79.2	119	P/P	33 - 154
2462399	Oxyfluorfen	96.5	115	P/P	62 - 154

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P440184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462399	Parathion Ethyl	66.2	105	P/P	65 - 120
2462399	Parathion Methyl	61.0	121	F/P	77 - 185
2462399	PBB-153	74.7	85.6	P/P	23 - 193
2462399	PBDE-47	67.0	93.3	P/P	31 - 139
2462399	PBDE-99	68.6	85.7	P/P	24 - 138
2462399	Pendimethalin	79.7	106	P/P	50 - 146
2462399	Pentabromotoluene	68.0	95.9	P/P	54 - 152
2462399	Phenytoin	32.7	45.0	P/P	10 - 157
2462399	Phorate	73.2	88.9	P/P	54 - 161
2462399	Prodiamine	47.1	55.5	P/P	29 - 160
2462399	Prometon	89.9	105	P/P	38 - 145
2462399	Prometryn	94.3	114	P/P	32 - 151
2462399	Pronamide	91.3	109	P/P	61 - 140
2462399	Propanil	92.3	112	P/P	50 - 147
2462399	Propargite	69.1	73.8	P/P	10 - 190
2462399	Propiconazole	65.6	50.4	P/P	30 - 146
2462399	Pyraflufen Ethyl	78.1	59.5	P/P	30 - 147
2462399	Pyridaben	133	163	P/P	15 - 195
2462399	Pyriproxyfen	75.4	83.3	P/P	31 - 218
2462399	Simazine	73.8	81.0	P/P	45 - 139
2462399	Stiropfos	73.5	58.4	P/P	10 - 134
2462399	Sulfentrazone	82.5	94.3	P/P	53 - 186
2462399	Tebuconazole	49.9	48.6	P/P	10 - 133
2462399	Terbufos	74.5	94.2	P/P	65 - 151
2462399	Terbutylazine	71.6	88.6	P/P	62 - 117
2462399	Tetradecachloro-m-terphenyl	81.2	130	P/P	10 - 260
2462399	Thiobencarb	83.5	95.8	P/P	48 - 122
2462399	Tri-o-cresyl Phosphate	59.7	51.1	P/P	32 - 151
2462399	Triadimefon	73.9	89.5	P/P	46 - 124
2462399	Tris(1-chloro-2-propyl) phosphate (TCPP)	80.1	112	P/P	51 - 154
2462399	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	71.4	103	P/P	59 - 147
2462399	Tris(2-chloroethyl) phosphate (TCEP)	94.7	132	P/P	65 - 156

Reference Method: EPA 8270E

Batch ID: P440412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462903	Aldrin	72.7	56.8	P/P	24 - 81.0
2462903	Alpha-BHC	65.0	70.8	P/P	65 - 110
2462903	Alpha-Chlordane	118	76.1	P/P	43 - 119
2462903	Beta-BHC	116	107	P/P	54 - 165
2462903	Beta-Cyfluthrin	106	90.1	P/P	27 - 165
2462903	Bifenthrin	48.8	46.7	P/P	17 - 117
2462903	Chlorothalonil	43.1	56.6	P/P	10 - 255
2462903	Cis-Nonachlor	69.5	72.4	P/P	34 - 98.0
2462903	Cypermethrin	74.4	58.5	P/P	25 - 143
2462903	Dacthal	73.3	95.8	P/P	55 - 139
2462903	DDD-p,p'	65.0	58.2	P/P	30 - 109
2462903	DDE-p,p'	83.2	71.0	P/P	35 - 106
2462903	DDT-p,p'	62.7	73.9	P/P	41 - 101
2462903	Delta-BHC	67.6	67.3	P/P	58 - 165
2462903	Deltamethrin	80.9	132	P/P	10 - 194

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P440412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462903	Dichlobenil	52.1	54.0	P/P	22 - 114
2462903	Dicofol	63.8	73.3	P/P	17 - 133
2462903	Dieldrin	126	109	P/P	45 - 129
2462903	Endosulfan I	109	83.3	F/P	49 - 104
2462903	Endosulfan II	99.8	96.8	P/P	37 - 117
2462903	Endosulfan Sulfate	119	134	P/F	38 - 128
2462903	Endrin	81.4	97.1	P/P	35 - 116
2462903	Endrin Aldehyde	82.9	73.5	P/P	19 - 108
2462903	Endrin Ketone	89.7	103	P/P	44 - 134
2462903	Esfenvalerate	96.4	110	P/P	27 - 176
2462903	Ethalfuralin	82.3	86.4	P/P	49 - 100
2462903	Fenpropathrin	54.0	47.6	P/P	34 - 117
2462903	Gamma-BHC	88.2	82.6	P/P	59 - 129
2462903	Gamma-Chlordane	106	94.0	P/P	33 - 107
2462903	Heptachlor	49.7	52.0	P/P	37 - 94.0
2462903	Heptachlor Epoxide	125	77.8	F/P	38 - 118
2462903	Hexachlorobenzene	45.8	47.4	P/P	35 - 97.0
2462903	Kepone	101	94.6	P/P	10 - 221
2462903	Lambda-Cyhalothrin	48.7	61.2	P/P	23 - 190
2462903	Methoprene	61.3	50.5	P/P	21 - 109
2462903	Methoxychlor	72.0	68.7	P/P	46 - 118
2462903	MGK-264	137	93.9	F/P	39 - 122
2462903	Mirex	45.7	44.7	P/P	25 - 90.0
2462903	Oxychlordane	114	82.0	F/P	42 - 100
2462903	Permethrin	83.3	92.8	P/P	33 - 181
2462903	Phenothrin	88.0	74.3	P/P	12 - 125
2462903	Piperonyl Butoxide	114	108	P/P	10 - 178
2462903	Prallethrin	108	79.3	P/P	24 - 122
2462903	Tau-Fluvalinate	47.9	74.0	P/P	13 - 151
2462903	Tetramethrin	82.2	80.8	P/P	16 - 172
2462903	Trans-Nonachlor	107	111	F/F	39 - 100
2462903	Triclosan Methyl	135	91.2	F/P	43 - 110
2462903	Trifluralin	75.0	86.7	P/P	45 - 94.0
2463408	PCB-1016	71.6	63.3	P/P	45 - 107
2463408	PCB-1260	77.6	66.6	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P440412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463408	Chlordane	94.0	85.2	P/P	43 - 123
2463408	Toxaphene	94.5	87.6	P/P	27 - 156

Reference Method: SM 4500-F- C-2011
Batch ID: P440874

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462866	Fluoride	102	100	P/P	94 - 106

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2014
Batch ID: P440785

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463000	Organic Carbon	96.8	99.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P440385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462948	Color (true)	5.48	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440388

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462842	Turbidity	6.49	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440677

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462635	Chloride	1.03	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440680

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462635	Sulfate	0.611	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2461495	Ammonia-N	0.650	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440560

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463027	Kjeldahl Nitrogen	1.03	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440835

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462927	NO2NO3-N	0.593	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440466

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463059	Total-P	0.246	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P440184

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462399	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	14.3	Spike	P	0 - 30
2462399	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	16.5	Spike	P	0 - 35
2462399	Acetochlor	30.0	Spike	F	0 - 28
2462399	Alachlor	13.8	Spike	P	0 - 30
2462399	Ametryn	26.0	Spike	P	0 - 32
2462399	Atrazine	17.5	Spike	P	0 - 33
2462399	Atrazine Desethyl	12.7	Spike	P	0 - 36
2462399	Avobenzone	32.4	Spike	P	0 - 35
2462399	Azinphos Methyl	9.93	Spike	P	0 - 62
2462399	Azoxystrobin	21.1	Spike	P	0 - 39
2462399	Bromacil	29.5	Spike	P	0 - 33
2462399	Butylate	51.6	Spike	F	0 - 51
2462399	Caffeine	13.7	Spike	P	0 - 100
2462399	Carbophenothion	10.9	Spike	P	0 - 34
2462399	Carfentrazone Ethyl	15.2	Spike	P	0 - 33
2462399	Chlorfenapyr	1.54	Spike	P	0 - 28
2462399	Chlorpyrifos Ethyl	17.6	Spike	P	0 - 31
2462399	Chlorpyrifos Methyl	20.1	Spike	P	0 - 27
2462399	Coumaphos	19.7	Spike	P	0 - 62
2462399	Cyanazine	17.8	Spike	P	0 - 48
2462399	Cyprodinil	25.6	Spike	P	0 - 29
2462399	Dechlorane 602	24.4	Spike	P	0 - 60
2462399	Dechlorane 603	28.4	Spike	P	0 - 40
2462399	Dechlorane Plus	21.0	Spike	P	0 - 38
2462399	Demeton	24.2	Spike	P	0 - 33
2462399	Diazinon	15.7	Spike	P	0 - 32
2462399	Difenoconazole	14.7	Spike	P	0 - 71
2462399	Dimethenamid	18.2	Spike	P	0 - 60
2462399	Dimethomorph	23.7	Spike	P	0 - 61
2462399	Disulfoton	26.9	Spike	P	0 - 30
2462399	Dithiopyr	18.6	Spike	P	0 - 28
2462399	EPTC	44.1	Spike	P	0 - 56
2462399	Ethion	16.5	Spike	P	0 - 79
2462399	Ethoprop	24.2	Spike	P	0 - 31
2462399	Etridiazole	37.3	Spike	P	0 - 43
2462399	Fenamiphos	32.9	Spike	P	0 - 43
2462399	Fenbuconazole	2.26	Spike	P	0 - 79
2462399	Fipronil	20.6	Spike	P	0 - 46
2462399	Fipronil Desulfinyl	11.7	Spike	P	0 - 36
2462399	Fipronil Sulfide	17.1	Spike	P	0 - 34
2462399	Fipronil Sulfone	2.69	Spike	P	0 - 47
2462399	Fluazifop-P-butyl	10.2	Spike	P	0 - 38
2462399	Fludioxonil	12.1	Spike	P	0 - 29
2462399	Flumioxazin	11.6	Spike	P	0 - 63
2462399	Flutolanil	14.7	Spike	P	0 - 36
2462399	Fluxapyroxad	11.1	Spike	P	0 - 65
2462399	Fonofos	5.43	Spike	P	0 - 35
2462399	Hexabromobenzene	25.0	Spike	P	0 - 41
2462399	Hexazinone	23.2	Spike	P	0 - 31
2462399	Imazalil	10.3	Spike	P	0 - 52
2462399	Iprodione	11.3	Spike	P	0 - 49

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P440184

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462399	Loratadine	34.5	Spike	P	0 - 59
2462399	Malathion	13.7	Spike	P	0 - 77
2462399	Metalaxyl	29.3	Spike	P	0 - 76
2462399	Metolachlor	11.7	Spike	P	0 - 29
2462399	Metribuzin	22.9	Spike	P	0 - 51
2462399	Mevinphos	21.3	Spike	P	0 - 31
2462399	Molinate	27.0	Spike	P	0 - 39
2462399	Myclobutanil	16.2	Spike	P	0 - 34
2462399	Naled	34.8	Spike	P	0 - 37
2462399	Napropamide	3.65	Spike	P	0 - 100
2462399	Norflurazon	22.8	Spike	P	0 - 54
2462399	Octinoxate	31.7	Spike	P	0 - 35
2462399	Oxadiazon	13.6	Spike	P	0 - 34
2462399	Oxybenzone	40.5	Spike	F	0 - 35
2462399	Oxyfluorfen	17.7	Spike	P	0 - 28
2462399	Parathion Ethyl	45.2	Spike	F	0 - 31
2462399	Parathion Methyl	66.2	Spike	F	0 - 29
2462399	PBB-153	13.6	Spike	P	0 - 49
2462399	PBDE-47	32.8	Spike	P	0 - 36
2462399	PBDE-99	22.2	Spike	P	0 - 46
2462399	Pendimethalin	28.2	Spike	P	0 - 31
2462399	Pentabromotoluene	34.1	Spike	F	0 - 16
2462399	Phenytoin	31.5	Spike	P	0 - 100
2462399	Phorate	19.4	Spike	P	0 - 36
2462399	Prodiamine	16.3	Spike	P	0 - 68
2462399	Prometon	15.8	Spike	P	0 - 35
2462399	Prometryn	19.0	Spike	P	0 - 33
2462399	Pronamide	17.6	Spike	P	0 - 24
2462399	Propanil	19.1	Spike	P	0 - 28
2462399	Propargite	6.61	Spike	P	0 - 53
2462399	Propiconazole	26.2	Spike	P	0 - 44
2462399	Pyraflufen Ethyl	27.1	Spike	P	0 - 61
2462399	Pyridaben	20.4	Spike	P	0 - 43
2462399	Pyriproxyfen	9.87	Spike	P	0 - 82
2462399	Simazine	9.22	Spike	P	0 - 29
2462399	Stirophos	22.9	Spike	P	0 - 100
2462399	Sulfentrazone	13.3	Spike	P	0 - 64
2462399	Tebuconazole	2.64	Spike	P	0 - 76
2462399	Terbufos	23.3	Spike	P	0 - 29
2462399	Terbuthylazine	21.3	Spike	P	0 - 28
2462399	Tetradecachloro-m-terphenyl	46.3	Spike	F	0 - 42
2462399	Thiobencarb	13.6	Spike	P	0 - 26
2462399	Tri-o-cresyl Phosphate	15.5	Spike	P	0 - 24
2462399	Triadimefon	19.0	Spike	P	0 - 40
2462399	Tris(1-chloro-2-propyl) phosphate (TCPP)	33.0	Spike	F	0 - 30
2462399	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	36.3	Spike	F	0 - 22
2462399	Tris(2-chloroethyl) phosphate (TCEP)	33.0	Spike	F	0 - 15

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P440412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462903	Aldrin	24.6	Spike	P	0 - 41
2462903	Alpha-BHC	8.52	Spike	P	0 - 25
2462903	Alpha-Chlordane	21.6	Spike	P	0 - 32
2462903	Beta-BHC	8.01	Spike	P	0 - 33
2462903	Beta-Cyfluthrin	16.3	Spike	P	0 - 43
2462903	Bifenthrin	4.35	Spike	P	0 - 52
2462903	Chlorothalonil	27.2	Spike	P	0 - 82
2462903	Cis-Nonachlor	4.12	Spike	P	0 - 33
2462903	Cypermethrin	24.0	Spike	P	0 - 51
2462903	Dacthal	26.6	Spike	P	0 - 27
2462903	DDD-p,p'	11.1	Spike	P	0 - 39
2462903	DDE-p,p'	15.8	Spike	P	0 - 31
2462903	DDT-p,p'	16.3	Spike	P	0 - 29
2462903	Delta-BHC	0.472	Spike	P	0 - 35
2462903	Deltamethrin	47.7	Spike	P	0 - 100
2462903	Dichlobenil	3.19	Spike	P	0 - 40
2462903	Dicofol	13.8	Spike	P	0 - 37
2462903	Dieldrin	12.5	Spike	P	0 - 27
2462903	Endosulfan I	27.2	Spike	F	0 - 23
2462903	Endosulfan II	3.05	Spike	P	0 - 34
2462903	Endosulfan Sulfate	12.1	Spike	P	0 - 36
2462903	Endrin	17.6	Spike	P	0 - 45
2462903	Endrin Aldehyde	12.0	Spike	P	0 - 76
2462903	Endrin Ketone	13.6	Spike	P	0 - 43
2462903	Esfenvalerate	13.6	Spike	P	0 - 51
2462903	Ethalfuralin	4.88	Spike	P	0 - 22
2462903	Fenpropathrin	12.6	Spike	P	0 - 49
2462903	Gamma-BHC	6.49	Spike	P	0 - 28
2462903	Gamma-Chlordane	9.46	Spike	P	0 - 40
2462903	Heptachlor	4.49	Spike	P	0 - 29
2462903	Heptachlor Epoxide	39.7	Spike	F	0 - 33
2462903	Hexachlorobenzene	3.36	Spike	P	0 - 36
2462903	Kepone	6.14	Spike	P	0 - 85
2462903	Lambda-Cyhalothrin	22.6	Spike	P	0 - 55
2462903	Methoprene	19.3	Spike	P	0 - 53
2462903	Methoxychlor	4.80	Spike	P	0 - 50
2462903	MGK-264	37.3	Spike	P	0 - 43
2462903	Mirex	2.14	Spike	P	0 - 40
2462903	Oxychlordane	32.3	Spike	F	0 - 31
2462903	Permethrin	10.8	Spike	P	0 - 50
2462903	Phenothrin	16.9	Spike	P	0 - 58
2462903	Piperonyl Butoxide	5.93	Spike	P	0 - 100
2462903	Prallethrin	30.2	Spike	P	0 - 39
2462903	Tau-Fluvalinate	42.7	Spike	P	0 - 54
2462903	Tetramethrin	1.67	Spike	P	0 - 51
2462903	Trans-Nonachlor	2.80	Spike	P	0 - 39
2462903	Triclosan Methyl	38.6	Spike	F	0 - 31
2462903	Trifluralin	14.5	Spike	P	0 - 22
2463408	PCB-1016	12.3	Spike	P	0 - 25
2463408	PCB-1260	15.3	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P440412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463408	Chlordane	9.84	Spike	P	0 - 28
2463408	Toxaphene	7.56	Spike	P	0 - 27

Reference Method: SM 2320 B-2011
Batch ID: P440871

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462866	Total Alkalinity	0.297	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P440826

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462946	TDS	0.851	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P440874

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462866	Fluoride	0.973	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P440785

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463000	Organic Carbon	2.17	Spike	P	0 - 15

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

Quality Assurance Report

Surrogates

Lab Sample ID: 2463029

Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	68.6	P	37 - 129
EPA 8270E	Decachlorobiphenyl	41.4	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	50.2	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	70.5	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	45.2	P	23 - 110
EPA 8276	PCNB	119	P	51 - 130

Lab Sample ID: 2463030

Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	80.2	P	20 - 200
EPA 8270E	Simazine-d10	94.7	P	58 - 137
EPA 8270E	Terbufos-d10	77.2	P	50 - 134
EPA 8270E	Terphenyl-d14	78.8	P	44 - 134

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A123798
Included Lab Sample IDs: 2463026

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A123800
Included Lab Sample IDs: 2463026

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A123884
Included Lab Sample IDs: 2463027

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	98.8	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A123893
Included Lab Sample IDs: 2463029

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	95.0		P	80 - 120
PCB-1260	96.9		P	80 - 120

Reference Method: EPA 8276
Run ID: A123904
Included Lab Sample IDs: 2463029

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.3		P	80 - 120
Toxaphene	98.3		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A123908
Included Lab Sample IDs: 2463026

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Sulfate	101	99.4	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A123912
Included Lab Sample IDs: 2463029

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	92.2		P	80 - 120
Alpha-BHC	93.3		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	106		P	80 - 120
Bifenthrin	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123912
Included Lab Sample IDs: 2463029

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorothalonil	98.7		P	80 - 120
Cis-Nonachlor	113		P	80 - 120
Cypermethrin	105		P	80 - 120
Dacthal	92.1		P	80 - 120
DDD-p,p'	113		P	80 - 120
DDE-p,p'	113		P	80 - 120
DDT-p,p'	99.6		P	80 - 120
Delta-BHC	99.5		P	80 - 120
Deltamethrin	95.8		P	80 - 120
Dichlobenil	84.5		P	80 - 120
Dicofol	103		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	95.0		P	80 - 120
Endosulfan II	97.0		P	80 - 120
Endosulfan Sulfate	106		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	93.6		P	80 - 120
Endrin Ketone	106		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	96.0		P	80 - 120
Fenpropathrin	117		P	80 - 120
Gamma-BHC	88.3		P	80 - 120
Gamma-Chlordane	94.1		P	80 - 120
Heptachlor	88.4		P	80 - 120
Heptachlor Epoxide	89.6		P	80 - 120
Hexachlorobenzene	96.4		P	80 - 120
Kepone	107		P	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoprene	95.6		P	80 - 120
Methoxychlor	117		P	80 - 120
MGK-264	100		P	80 - 120
Mirex	95.2		P	80 - 120
Oxychlordane	86.0		P	80 - 120
Permethrin	104		P	80 - 120
Phenothrin	95.2		P	80 - 120
Piperonyl Butoxide	115		P	80 - 120
Prallethrin	102		P	80 - 120
Tau-Fluvalinate	106		P	80 - 120
Tetramethrin	94.2		P	80 - 120
Trans-Nonachlor	93.5		P	80 - 120
Triclosan Methyl	87.7		P	80 - 120
Trifluralin	108		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123914
Included Lab Sample IDs: 2463030

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	96.6		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.0		P	80 - 120
Avobenzone	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123914
Included Lab Sample IDs: 2463030

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dechlorane 602	103		P	80 - 120
Dechlorane 603	97.4		P	80 - 120
Dechlorane Plus	98.5		P	80 - 120
Hexabromobenzene	94.7		P	80 - 120
Octinoxate	106		P	80 - 120
Oxybenzone	109		P	80 - 120
PBB-153	97.8		P	80 - 120
PBDE-47	104		P	80 - 120
PBDE-99	102		P	80 - 120
Pentabromotoluene	102		P	80 - 120
Tetradecachloro-m-terphenyl	90.7		P	80 - 120
Tri-o-cresyl Phosphate	116		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	108		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	107		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	110		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A123929
Included Lab Sample IDs: 2463027

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.0	99.8	P/P	90 - 110

Reference Method: SM 5310 B-2014
Run ID: A123942
Included Lab Sample IDs: 2463027

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	97.0	P/P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A123952
Included Lab Sample IDs: 2463027

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.9	98.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A123956
Included Lab Sample IDs: 2463027

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

Reference Method: SM 2320 B-2011
Run ID: A123977
Included Lab Sample IDs: 2463026

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.1	94.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011
Run ID: A123977
Included Lab Sample IDs: 2463026

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

Reference Method: EPA 8270E
Run ID: A124003
Included Lab Sample IDs: 2463030

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.5		P	80 - 120
Alachlor	91.2		P	80 - 120
Ametryn	107		P	80 - 120
Atrazine	89.8		P	80 - 120
Atrazine Desethyl	99.8		P	80 - 120
Azinphos Methyl	71.4*		F	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	96.1		P	80 - 120
Caffeine	96.1		P	80 - 120
Carbophenothion	98.2		P	80 - 120
Carfentrazone Ethyl	102		P	80 - 120
Chlorfenapyr	80.4		P	80 - 120
Chlorpyrifos Ethyl	88.1		P	80 - 120
Chlorpyrifos Methyl	95.9		P	80 - 120
Coumaphos	136*		F	80 - 120
Cyanazine	80.5		P	80 - 120
Cyprodinil	116		P	80 - 120
Demeton	98.1		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	115		P	80 - 120
Dimethenamid	94.8		P	80 - 120
Dimethomorph	97.0		P	80 - 120
Disulfoton	97.0		P	80 - 120
Dithiopyr	112		P	80 - 120
EPTC	102		P	80 - 120
Ethion	92.2		P	80 - 120
Ethoprop	94.8		P	80 - 120
Etridiazole	99.5		P	80 - 120
Fenamiphos	94.5		P	80 - 120
Fenbuconazole	83.4		P	80 - 120
Fipronil	113		P	80 - 120
Fipronil Desulfinyl	93.5		P	80 - 120
Fipronil Sulfide	99.5		P	80 - 120
Fipronil Sulfone	105		P	80 - 120
Fluazifop-P-butyl	135*		F	80 - 120
Fludioxonil	100		P	80 - 120
Flumioxazin	105		P	80 - 120
Flutolanil	98.8		P	80 - 120
Fluxapyroxad	111		P	80 - 120
Fonofos	93.5		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	105		P	80 - 120
Iprodione	109		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124003
Included Lab Sample IDs: 2463030

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Loratadine	84.0		P	80 - 120
Malathion	85.6		P	80 - 120
Metalaxyl	88.1		P	80 - 120
Metolachlor	98.8		P	80 - 120
Metribuzin	105		P	80 - 120
Mevinphos	95.9		P	80 - 120
Molinate	87.7		P	80 - 120
Myclobutanil	87.3		P	80 - 120
Naled	118		P	80 - 120
Napropamide	95.2		P	80 - 120
Norflurazon	98.8		P	80 - 120
Oxadiazon	99.1		P	80 - 120
Oxyfluorfen	109		P	80 - 120
Parathion Ethyl	95.9		P	80 - 120
Parathion Methyl	82.3		P	80 - 120
Pendimethalin	88.4		P	80 - 120
Phenytoin	105		P	80 - 120
Phorate	94.7		P	80 - 120
Prodiamine	104		P	80 - 120
Prometon	105		P	80 - 120
Prometryn	99.0		P	80 - 120
Pronamide	97.2		P	80 - 120
Propanil	91.8		P	80 - 120
Propargite	105		P	80 - 120
Propiconazole	86.5		P	80 - 120
Pyraflufen Ethyl	110		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	97.8		P	80 - 120
Simazine	84.9		P	80 - 120
Stirophos	94.0		P	80 - 120
Sulfentrazone	104		P	80 - 120
Tebuconazole	99.1		P	80 - 120
Terbufos	98.2		P	80 - 120
Terbuthylazine	94.1		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	93.9		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)	101				5.48	
EPA 180.1 Rev. 2.0	Turbidity	104				6.49	
EPA 300.0 Rev. 2.1	Chloride	102	101	104		1.03	
	Sulfate	102	99.1	104		0.611	
EPA 350.1 Rev. 2.0	Ammonia-N	98.0	94.4	93.6			0.650
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.4	90.6	88.8			1.03
EPA 353.2 Rev. 2.0	NO2NO3-N	101	97.0	98.0			0.593
EPA 365.1 Rev. 2.0	Total-P	102	103	103			0.246
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	80.3	72.5	62.9			14.3
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	102	75.4	88.9			16.5
	Acetochlor	109	73.2	99.0			30.0
	Alachlor	111	76.8	88.2			13.8
	Aldrin	64.4	72.7	56.8			24.6
	Alpha-BHC	81.4	65.0	70.8			8.52
	Alpha-Chlordane	103	118	76.1			21.6
	Ametryn	146	101	131			26.0
	Atrazine	105	71.0	84.6			17.5
	Atrazine Desethyl	112	109	123			12.7
	Avobenzone	124	84.7	117			32.4
	Azinphos Methyl	146	101	112			9.93
	Azoxystrobin	150	92.0	114			21.1
	Beta-BHC	96.5	116	107			8.01
	Beta-Cyfluthrin	108	106	90.1			16.3
	Bifenthrin	37.3	48.8	46.7			4.35
	Bromacil	122	85.9	116			29.5
	Butylate	62.1	32.7	55.4			51.6
	Caffeine	117	121	141			13.7
	Carbophenothion	127	95.6	107			10.9
	Carfentrazone Ethyl	141	103	120			15.2
	Chlorfenapyr	100	68.1	67.0			1.54
	Chlorothalonil	102	43.1	56.6			27.2
	Chlorpyrifos Ethyl	111	74.2	88.6			17.6
	Chlorpyrifos Methyl	117	78.8	96.3			20.1
	Cis-Nonachlor	57.0	69.5	72.4			4.12
	Coumaphos	172	136	112			19.7
	Cyanazine	224	161	192			17.8
	Cypermethrin	58.2	74.4	58.5			24.0
	Cyprodinil	114	78.6	102			25.6
	Dacthal	95.5	73.3	95.8			26.6
	DDD-p,p'	57.7	65.0	58.2			11.1
	DDE-p,p'	57.7	83.2	71.0			15.8
	DDT-p,p'	71.4	62.7	73.9			16.3
	Dechlorane 602	64.9	57.1	72.9			24.4
	Dechlorane 603	102	72.5	96.5			28.4
	Dechlorane Plus	105	74.6	92.1			21.0
	Delta-BHC	71.7	67.6	67.3			0.472
	Deltamethrin	125	80.9	132			47.7
	Demeton	87.0	60.6	77.4			24.2
	Diazinon	120	80.8	94.6			15.7
	Dichlobenil	90.0	52.1	54.0			3.19
	Dicofol	72.7	63.8	73.3			13.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8270E	Dieldrin	85.1	126	109		12.5
	Difenoconazole	170	122	141		14.7
	Dimethenamid	95.5	72.1	86.6		18.2
	Dimethomorph	298	204	259		23.7
	Disulfoton	125	83.3	109		26.9
	Dithiopyr	114	82.4	99.3		18.6
	Endosulfan I	88.0	109	83.3		27.2
	Endosulfan II	86.2	99.8	96.8		3.05
	Endosulfan Sulfate	127	119	134		12.1
	Endrin	94.5	81.4	97.1		17.6
	Endrin Aldehyde	93.1	82.9	73.5		12.0
	Endrin Ketone	101	89.7	103		13.6
	EPTC	52.3	31.0	48.5		44.1
	Esfenvalerate	103	96.4	110		13.6
	Ethalfuralin	91.6	82.3	86.4		4.88
	Ethion	39.1	47.2	55.7		16.5
	Ethoprop	109	80.7	103		24.2
	Etridiazole	70.8	44.4	64.7		37.3
	Fenamiphos	98.5	75.3	105		32.9
	Fenbuconazole	119	87.3	85.4		2.26
	Fenpropathrin	41.9	54.0	47.6		12.6
	Fipronil	129	74.2	91.2		20.6
	Fipronil Desulfinyl	111	91.4	103		11.7
	Fipronil Sulfide	106	67.1	79.6		17.1
	Fipronil Sulfone	109	89.6	92.0		2.69
	Fluazifop-P-butyl	117	107	118		10.2
	Fludioxonil	106	79.8	90.0		12.1
	Flumioxazin	201	157	176		11.6
	Flutolanil	134	91.0	105		14.7
	Fluxapyroxad	92.6	81.9	91.6		11.1
	Fonofos	112	73.5	77.6		5.43
	Gamma-BHC	80.4	88.2	82.6		6.49
	Gamma-Chlordane	62.5	106	94.0		9.46
	Heptachlor	47.6	49.7	52.0		4.49
	Heptachlor Epoxide	101	125	77.8		39.7
	Hexabromobenzene	98.4	74.2	95.4		25.0
	Hexachlorobenzene	48.8	45.8	47.4		3.36
	Hexazinone	106	74.0	93.4		23.2
	Imazalil	129	124	138		10.3
	Iprodione	175	137	153		11.3
	Kepone	129	101	94.6		6.14
	Lambda-Cyhalothrin	67.9	48.7	61.2		22.6
	Loratadine	270	144	204		34.5
	Malathion	124	88.2	101		13.7
	Metalaxyl	95.6	67.6	90.7		29.3
	Methoprene	38.5	61.3	50.5		19.3
	Methoxychlor	64.7	72.0	68.7		4.80
	Metolachlor	101	72.8	81.9		11.7
	Metribuzin	126	82.7	104		22.9
	Mevinphos	97.0	73.4	90.9		21.3
	MGK-264	129	137	93.9		37.3
	Mirex	36.8	45.7	44.7		2.14
	Molinate	66.5	43.2	56.7		27.0
	Myclobutanil	109	83.3	98.0		16.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Naled	54.1	37.9	53.8			34.8
	Napropamide	65.3	74.2	76.9			3.65
	Norflurazon	113	89.3	71.0			22.8
	Octinoxate	101	73.8	102			31.7
	Oxadiazon	95.3	64.1	73.4			13.6
	Oxybenzone	99.3	79.2	119			40.5
	Oxychlor dane	83.4	114	82.0			32.3
	Oxyfluorfen	120	96.5	115			17.7
	Parathion Ethyl	107	66.2	105			45.2
	Parathion Methyl	111	61.0	121			66.2
	PBB-153	105	74.7	85.6			13.6
	PBDE-47	85.8	67.0	93.3			32.8
	PBDE-99	90.1	68.6	85.7			22.2
	PCB-1016	73.3	71.6	63.3			12.3
	PCB-1260	77.4	77.6	66.6			15.3
	Pendimethalin	94.7	79.7	106			28.2
	Pentabromotoluene	89.8	68.0	95.9			34.1
	Permethrin	97.2	83.3	92.8			10.8
	Phenothrin	71.1	88.0	74.3			16.9
	Phenytoin	33.8	32.7	45.0			31.5
	Phorate	104	73.2	88.9			19.4
	Piperonyl Butoxide	105	114	108			5.93
	Prallethrin	110	108	79.3			30.2
	Prodiamine	42.7	47.1	55.5			16.3
	Prometon	105	89.9	105			15.8
	Prometryn	126	94.3	114			19.0
	Pronamide	119	91.3	109			17.6
	Propanil	124	92.3	112			19.1
	Propargite	71.0	69.1	73.8			6.61
	Propiconazole	87.0	65.6	50.4			26.2
	Pyraflufen Ethyl	125	78.1	59.5			27.1
	Pyridaben	164	133	163			20.4
	Pyriproxyfen	93.7	75.4	83.3			9.87
	Simazine	108	73.8	81.0			9.22
	Stirophos	70.9	73.5	58.4			22.9
	Sulfentrazone	118	82.5	94.3			13.3
	Tau-Fluvalinate	51.9	47.9	74.0			42.7
	Tebuconazole	51.2	48.6	49.9			2.64
	Terbufos	115	94.2	74.5			23.3
	Terbutylazine	105	88.6	71.6			21.3
	Tetradecachloro-m-terphenyl	147	130	81.2			46.3
	Tetramethrin	103	82.2	80.8			1.67
	Thiobencarb	111	95.8	83.5			13.6
	Trans-Nonachlor	78.6	107	111			2.80
	Tri-o-cresyl Phosphate	88.6	59.7	51.1			15.5
	Triadimefon	101	89.5	73.9			19.0
	Triclosan Methyl	94.2	135	91.2			38.6
	Trifluralin	92.1	75.0	86.7			14.5
	Tris(1-chloro-2-propyl) phosphate (TCPP)	107	80.1	112			33.0
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	105	103	71.4			36.3
	Tris(2-chloroethyl) phosphate (TCEP)	119	94.7	132			33.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8276	Chlordane	101	94.0	85.2			9.84
	Toxaphene	110	94.5	87.6			7.56
SM 2320 B-2011	Total Alkalinity	97.0				0.297	
SM 2540 C-2015	TDS	96.4				0.851	
SM 2540 D-2015	TSS	97.6					
SM 4500-F- C-2011	Fluoride	98.8	102	100			
SM 5310 B-2014	Organic Carbon	98.1	96.8	99.8			0.973
							2.17

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2463026
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2463026
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2463026
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2463026
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2463027
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2463027
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2463027
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2463027
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2463030
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2463029
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2463030
EPA 8270E	PCBs in water matrices by GC/MS/MS	2463029
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2463029
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2463026
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2463026
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2463026
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2463026
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2463027

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	01/24/2024			01/24/2024 14:49	Samantha L Bates	2463026
EPA 180.1 Rev. 2.0	01/24/2024			01/24/2024 12:20	Dipa Joshi	2463026
EPA 300.0 Rev. 2.1	01/24/2024			01/30/2024 08:55	James L Waggeberby	2463026
EPA 350.1 Rev. 2.0	01/24/2024			02/01/2024 12:31	Khloe J Berg	2463027
EPA 351.2 Rev. 2.0	01/24/2024	01/30/2024 13:09	Simonne.V. Calhoun	01/31/2024 13:45	Samantha L Bates	2463027
EPA 353.2 Rev. 2.0	01/24/2024			01/31/2024 14:00	Fadila Guebre	2463027
EPA 365.1 Rev. 2.0	01/24/2024	01/26/2024 13:30	Simonne.V. Calhoun	01/29/2024 15:18	Chandler E Cox	2463027
EPA 8270E	01/24/2024	01/25/2024 08:00	Rasheda Ghaffari	01/30/2024 20:38	Arthur Maknenko	2463030
	01/24/2024	01/25/2024 08:00	Rasheda Ghaffari	02/01/2024 22:00	Vandana T. Nagar	2463030
	01/24/2024	01/26/2024 08:00	Fe-Val Siddell	01/30/2024 02:26	Lipi Saha	2463029
	01/24/2024	01/26/2024 08:00	Fe-Val Siddell	01/30/2024 20:50	Julie Wi	2463029
EPA 8276	01/24/2024	01/26/2024 08:00	Fe-Val Siddell	01/30/2024 19:02	Arthur Maknenko	2463029
SM 2320 B-2011	01/24/2024			01/31/2024 22:28	Dale L. Simmons	2463026
SM 2540 C-2015	01/24/2024			01/26/2024 15:06	Yijie Li	2463026
SM 2540 D-2015	01/24/2024			01/26/2024 15:06	Yijie Li	2463026
SM 4500-F- C-2011	01/24/2024			01/31/2024 22:28	Dale L. Simmons	2463026
SM 5310 B-2014	01/24/2024			01/31/2024 22:46	Khloe J Berg	2463027