Chemical Analysis Report

CEN-DIST-2023-02-23-01

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

Event Description: **Run 16**
Request ID: **RQ-2023-02-20-18**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant Date Certified: 16-MAR-2023 09:56

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: Howell Creek @ 150m US of Lake Howell **Collection Date/Time: 02/22/2023 12:20**

Field ID: G2CE0072 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389593	EPA 8321B	Aldicarb	0.020	U	ug/L	P426297	
		Aldicarb Sulfone	0.0020	U	ug/L	P426297	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P426297	MS
		Carbaryl	0.0020	U	ug/L	P426297	
		Carbofuran	0.0020	U	ug/L	P426297	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P426297	
		Methiocarb	0.0020	U	ug/L	P426297	
		Methomyl	0.0020	U	ug/L	P426297	
		Oxamyl	0.0020	U	ug/L	P426297	
		Propoxur	0.0020	U	ug/L	P426297	
2389594		2,4-D	0.074		ug/L	P426469	
		Acesulfame K	0.10	U	ug/L	P426216	
		2,4,5-T	0.0040	U	ug/L	P426469	
		AMPA	0.10	U	ug/L	P426216	
		Acetaminophen	0.0080	U	ug/L	P426469	
		Acetamiprid	0.0020	U	ug/L	P426469	
		Endothall	0.25	U	ug/L	P426216	
		Glufosinate	0.10	U	ug/L	P426216	
		Glyphosate	0.68		ug/L	P426216	
		Afidopyropen	0.0020	UQ	ug/L	P426586	RPD
		Bentazon	0.21		ug/L	P426469	
		Sucralose	0.43		ug/L	P426216	
		Benzovindiflupyr	0.0020	U	ug/L	P426469	
		Carbamazepine	8.0E-04	U	ug/L	P426469	
		Clothianidin	0.0034	I	ug/L	P426469	
		Dinotefuran	0.0064	I	ug/L	P426469	
		Diuron	0.0020	U	ug/L	P426469	
		Fenuron	0.032	U	ug/L	P426469	
		Fluridone	0.017		ug/L	P426469	
		Imazapyr	0.018		ug/L	P426469	
		Hydrocodone	0.0020	U	ug/L	P426469	
		Ibuprofen	0.080	U	ug/L	P426469	
		Imidacloprid	0.0029	I	ug/L	P426469	
		Linuron	0.0040	U	ug/L	P426469	
		Mandestrobin	0.0020	U	ug/L	P426469	
		MCPP	0.0020	U	ug/L	P426469	
		Naproxen	0.0080	U	ug/L	P426469	
		Primidone	0.0040	U	ug/L	P426469	
		Pyraclostrobin	0.0020	U	ug/L	P426469	
		Silvex	0.0040	U	ug/L	P426469	
		Thiamethoxam	0.0020	U	ug/L	P426469	
		Tolfenpyrad	0.0020	U	ug/L	P426469	
		Triclopyr	0.0040	U	ug/L	P426469	
2389595	EPA 8270E	Aldrin	0.66	U	ng/L	P426421	

Field ID: G2CE0072 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389595	EPA 8270E	Alpha-BHC	0.10	UJ	ng/L	P426421	LCS, MS
		Alpha-Chlordane	0.20	U	ng/L	P426421	
		PCB-1016	2.0	U	ng/L	P426421	
		Beta-BHC	0.10	U	ng/L	P426421	MS
		PCB-1221	2.0	U	ng/L	P426421	
		Beta-Cyfluthrin	1.3	U	ng/L	P426421	
		PCB-1232	2.0	U	ng/L	P426421	
		Bifenthrin	0.51	U	ng/L	P426421	
		PCB-1242	2.0	U	ng/L	P426421	
		PCB-1248	2.0	U	ng/L	P426421	
		Chlorothalonil	3.7	U	ng/L	P426421	
		PCB-1254	2.0	U	ng/L	P426421	
		Cis-Nonachlor	0.20	U	ng/L	P426421	
		PCB-1260	2.0	U	ng/L	P426421	
		Cypermethrin	1.5	U	ng/L	P426421	
		Dacthal	0.15	U	ng/L	P426421	
		DDD-p,p'	0.25	U	ng/L	P426421	
		DDE-p,p'	0.20	U	ng/L	P426421	
		DDT-p,p'	0.25	U	ng/L	P426421	
		Delta-BHC	0.41	U	ng/L	P426421	
		Deltamethrin	1.3	U	ng/L	P426421	
		Dichlobenil	0.25	U	ng/L	P426421	
		Dicofol	1.3	U	ng/L	P426421	
		Dieldrin	0.70	I	ng/L	P426421	
		Endosulfan I	0.41	U	ng/L	P426421	
		Endosulfan II	0.41	U	ng/L	P426421	
		Endosulfan Sulfate	0.31	U	ng/L	P426421	
		Endrin	0.41	U	ng/L	P426421	
		Endrin Aldehyde	0.76	U	ng/L	P426421	
		Endrin Ketone	0.41	UJ	ng/L	P426421	CCV, LCS
		Esfenvalerate	0.76	U	ng/L	P426421	
		Ethalfluralin	0.15	U	ng/L	P426421	
		Fenpropathrin	0.25	U	ng/L	P426421	
		Gamma-BHC	0.13	U	ng/L	P426421	
		Gamma-Chlordane	0.20	U	ng/L	P426421	
		Heptachlor	0.20	U	ng/L	P426421	
		Heptachlor Epoxide	0.25	U	ng/L	P426421	
		Hexachlorobenzene**	1.0	U	ng/L	P426421	
		Kepone	5.1	U	ng/L	P426421	
		Lambda-Cyhalothrin	0.76	U	ng/L	P426421	
		Methoprene	0.76	U	ng/L	P426421	
		Methoxychlor	0.31	U	ng/L	P426421	
		MGK-264	0.20	U	ng/L	P426421	
		Mirex	0.36	U	ng/L	P426421	
		Oxychlordane	0.31	U	ng/L	P426421	

Field ID: G2CE0072 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389595	EPA 8270E	Permethrin	1.6	U	ng/L	P426421	
		Phenothrin	0.92	U	ng/L	P426421	
		Piperonyl Butoxide	0.15	U	ng/L	P426421	
		Prallethrin	2.0	U	ng/L	P426421	
		Tau-Fluvalinate	0.25	U	ng/L	P426421	
		Tetramethrin	0.76	U	ng/L	P426421	
		Trans-Nonachlor	0.20	U	ng/L	P426421	
		Triclosan Methyl	0.15	U	ng/L	P426421	
		Trifluralin	0.20	U	ng/L	P426421	
	EPA 8276	Chlordane	2.0	U	ng/L	P426421	
		Toxaphene	100	J	ng/L	P426421	MS
2389596	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P426399	
		Acetochlor	0.24	U	ng/L	P426399	
		Octinoxate**	19	U	ng/L	P426399	
		Alachlor	0.24	U	ng/L	P426399	
		Avobenzone**	97	U	ng/L	P426399	
		Ametryn	1.7	I	ng/L	P426399	
		Atrazine	77		ng/L	P426399	
		PBDE-47**	3.9	U	ng/L	P426399	
		Atrazine Desethyl	9.1		ng/L	P426399	
		PBDE-99**	4.9	U	ng/L	P426399	
		Azinphos Methyl	1.9	U	ng/L	P426399	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P426399	
		Azoxystrobin	2.7		ng/L	P426399	
		Bromacil	1.6	I	ng/L	P426399	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P426399	
		Butylate	0.39	U	ng/L	P426399	
		Dechlorane Plus**	29	U	ng/L	P426399	
		Caffeine**	14	I	ng/L	P426399	
		Dechlorane 602**	4.9	U	ng/L	P426399	MS
		Carbophenothion	0.19	U	ng/L	P426399	
		Dechlorane 603**	3.9	U	ng/L	P426399	
		Carfentrazone Ethyl	0.097	U	ng/L	P426399	
		Hexabromobenzene**	5.8	U	ng/L	P426399	
		Chlorfenapyr	0.17	U	ng/L	P426399	
		PBB-153**	7.8	U	ng/L	P426399	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P426399	
		Pentabromotoluene**	2.9	U	ng/L	P426399	
		Chlorpyrifos Methyl	0.049	U	ng/L	P426399	
		Tris(2-chloroethyl) phosphate (TCEP)**	68	U	ng/L	P426399	
		Coumaphos	0.49	U	ng/L	P426399	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	27	I	ng/L	P426399	
		Cyanazine	3.2	U	ng/L	P426399	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.4	U	ng/L	P426399	

Field ID: G2CE0072 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389596	EPA 8270E	Cyprodinil	0.097	U	ng/L	P426399	
		Tetradecachloro-m-terphenyl**	7.3	UJ	ng/L	P426399	LCS, MS
		Demeton	1.5	U	ng/L	P426399	
		Diazinon	0.12	U	ng/L	P426399	
		Difenoconazole	0.58	U	ng/L	P426399	
		Dimethenamid	0.097	U	ng/L	P426399	
		Dimethomorph	0.17	U	ng/L	P426399	
		Disulfoton	0.49	U	ng/L	P426399	
		Dithiopyr	0.61	U	ng/L	P426399	
		EPTC	1.2	U	ng/L	P426399	
		Ethion	0.15	U	ng/L	P426399	
		Ethoprop	0.097	U	ng/L	P426399	
		Etridiazole	0.15	U	ng/L	P426399	
		Fenamiphos	0.49	U	ng/L	P426399	
		Fenbuconazole	0.12	U	ng/L	P426399	
		Fipronil	0.24	U	ng/L	P426399	
		Fipronil Desulfinyl**	1.1		ng/L	P426399	
		Fipronil Sulfide	0.79		ng/L	P426399	
		Fipronil Sulfone	2.2		ng/L	P426399	
		Fluazifop-P-butyl	0.097	U	ng/L	P426399	
		Fludioxonil	0.12	U	ng/L	P426399	
		Flumioxazin	4.4	U	ng/L	P426399	
		Flutolanil	0.36	I	ng/L	P426399	
		Fluxapyroxad	0.097	U	ng/L	P426399	
		Fonofos	0.19	U	ng/L	P426399	
		Hexazinone	0.49	U	ng/L	P426399	
		Imazalil	0.73	U	ng/L	P426399	
		Iprodione	0.58	U	ng/L	P426399	MS
		Loratadine**	0.34	U	ng/L	P426399	
		Malathion	0.34	U	ng/L	P426399	
		Metalaxyl	2.2	I	ng/L	P426399	
		Metolachlor	0.34	I	ng/L	P426399	
		Metribuzin	1.5	U	ng/L	P426399	
		Mevinphos	1.0	U	ng/L	P426399	
		Molinate	0.29	U	ng/L	P426399	
		Myclobutanil	4.0		ng/L	P426399	
		Naled	1.5	U	ng/L	P426399	
		Napropamide	0.39	U	ng/L	P426399	
		Norflurazon	0.49	U	ng/L	P426399	
		Oxadiazon	0.29	U	ng/L	P426399	
		Oxyfluorfen	0.15	U	ng/L	P426399	
		Parathion Ethyl	0.24	U	ng/L	P426399	
		Parathion Methyl	0.53	U	ng/L	P426399	
		Pendimethalin	0.97	U	ng/L	P426399	
		Phenytoin**	3.4	U	ng/L	P426399	

Field ID: G2CE0072 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389596	EPA 8270E	Phorate	0.51	U	ng/L	P426399	
		Prodiamine	0.21	I	ng/L	P426399	
		Prometon	1.2	I	ng/L	P426399	
		Prometryn	0.19	U	ng/L	P426399	
		Pronamide	0.15	U	ng/L	P426399	
		Propanil	0.12	U	ng/L	P426399	
		Propargite	1.5	U	ng/L	P426399	
		Propiconazole	3.5		ng/L	P426399	
		Pyraflufen Ethyl	0.24	U	ng/L	P426399	
		Pyridaben	0.44	U	ng/L	P426399	
		Pyriproxyfen	0.12	UJ	ng/L	P426399	LCS, MS
		Simazine	3.3		ng/L	P426399	
		Stirophos	0.12	U	ng/L	P426399	
		Sulfentrazone	2.3		ng/L	P426399	
		Tebuconazole	4.0		ng/L	P426399	
		Terbufos	0.097	U	ng/L	P426399	
		Terbuthylazine	0.41	U	ng/L	P426399	
		Thiobencarb	0.58	U	ng/L	P426399	
		Triadimefon	0.24	U	ng/L	P426399	

Ref. Method and Comment:
EPA 8321B: Q - Sample was prepared beyond holding time for afidopyropen due to technical issues.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Queens Mirror Lake @ Center **Collection Date/Time: 02/22/2023 13:01**

Field ID: G2CE0214 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389576	DEP SOP: NU-094-1	Color (true)	80		PCU	P426302	
	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P426309	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P426693	
		Sulfate	5.8		mg SO4/L	P426696	
	SM 2320 B-2011	Total Alkalinity	46		mg CaCO3/L	P426593	
	SM 2540 C-2015	TDS	113		mg/L	P426801	
	SM 2540 D-2015	TSS	6	I	mg/L	P426740	
	SM 4500-F- C-2011	Fluoride	0.061	I	mg F/L	P426597	
2389578	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P426466	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P426717	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P426534	
	EPA 365.1 Rev. 2.0	Total-P	0.056		mg P/L	P426450	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P426788	

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: Lake Florence S of Center **Collection Date/Time: 02/22/2023 11:18**

Field ID: G2CE0283 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389577	DEP SOP: NU-094-1	Color (true)	15		PCU	P426302	
	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P426309	
	EPA 300.0 Rev. 2.1	Chloride	20		mg Cl/L	P426693	
		Sulfate	13		mg SO4/L	P426696	
	SM 2320 B-2011	Total Alkalinity	13		mg CaCO3/L	P426593	
	SM 2540 C-2015	TDS	72		mg/L	P426801	
	SM 2540 D-2015	TSS	3	I	mg/L	P426740	
	SM 4500-F- C-2011	Fluoride	0.038	I	mg F/L	P426597	
2389579	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P426466	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.43		mg N/L	P426717	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P426534	
	EPA 365.1 Rev. 2.0	Total-P	0.014		mg P/L	P426992	
	SM 5310 B-2011	Organic Carbon	5.5		mg C/L	P426788	

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: Lake Ann @ Center **Collection Date/Time: 02/22/2023 10:41**

Field ID: G2CE0097 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389573	DEP SOP: NU-094-1	Color (true)	24	A	PCU	P426302	
	EPA 180.1 Rev. 2.0	Turbidity	4.4	A	NTU	P426309	
	EPA 300.0 Rev. 2.1	Chloride	16	A	mg Cl/L	P426693	
		Sulfate	11	A	mg SO4/L	P426696	
	SM 2320 B-2011	Total Alkalinity	35		mg CaCO3/L	P426593	
	SM 2540 C-2015	TDS	92		mg/L	P426801	
	SM 2540 D-2015	TSS	6	I	mg/L	P426740	
	SM 4500-F- C-2011	Fluoride	0.042	I	mg F/L	P426597	
2389574	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P426466	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.91		mg N/L	P426717	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P426534	
	EPA 365.1 Rev. 2.0	Total-P	0.029		mg P/L	P426992	
	SM 5310 B-2011	Organic Carbon	7.5		mg C/L	P426788	
2389575	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P426306	

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: P426302

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426309

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426693

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426696

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426466

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426717

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426534

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426450

Component	Result	Code	Units
Total-P	0.010	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426992

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426306

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

Reference Method: EPA 8270E
Batch ID: P426399

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	35	I	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426399

Component	Result	Code	Units
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426399

Component	Result	Code	Units
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426399

Component	Result	Code	Units
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E
Batch ID: P426421

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426421

Component	Result	Code	Units
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426421

Component	Result	Code	Units
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426421

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

Reference Method: EPA 8276
Batch ID: P426421

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

Reference Method: EPA 8321B
Batch ID: P426216

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

Reference Method: EPA 8321B
Batch ID: P426297

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P426469

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P426469

Component	Result	Code	Units
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P426586

Component	Result	Code	Units
Afidopyropen	0.0020	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P426593

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

Reference Method: SM 2540 C-2015
Batch ID: P426801

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P426740

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P426597

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P426788

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P426788

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: P426302

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: P426309

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426693

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	94.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426696

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426466

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426717

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426534

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: P426450

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426992

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.6		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426306

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.8		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P426399

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.0		P	42 - 162
Acetochlor	92.5		P	69 - 123
Alachlor	93.6		P	65 - 118
Ametryn	116		P	58 - 141
Atrazine	84.0		P	73 - 118
Atrazine Desethyl	62.6		P	32 - 125
Avobenzone	110		P	40 - 203
Azinphos Methyl	54.8		P	36 - 197
Azoxystrobin	93.0		P	58 - 226
Bromacil	103		P	48 - 120
Butylate	55.5		P	27 - 85.0
Caffeine	95.2		P	40 - 137
Carbophenothion	94.1		P	54 - 132
Carfentrazone Ethyl	116		P	60 - 142
Chlorfenapyr	87.6		P	53 - 117
Chlorpyrifos Ethyl	102		P	59 - 116
Chlorpyrifos Methyl	107		P	66 - 119
Coumaphos	54.0		P	11 - 234
Cyanazine	205		P	61 - 248
Cyprodinil	123		P	50 - 147
Dechlorane 602	61.9		P	50 - 150
Dechlorane 603	64.4		P	50 - 150
Dechlorane Plus	108		P	47 - 182
Demeton	84.2		P	30 - 138
Diazinon	101		P	67 - 126
Difenoconazole	59.5		P	38 - 205
Dimethenamid	85.0		P	57 - 111
Dimethomorph	45.2		P	16 - 212
Disulfoton	96.1		P	46 - 126
Dithiopyr	95.1		P	62 - 115
EPTC	56.4		P	28 - 80.0
Ethion	103		P	24 - 122
Ethoprop	97.5		P	62 - 113
Etridiazole	64.8		P	28 - 92.0
Fenamiphos	73.5		P	57 - 128
Fenbuconazole	115		P	52 - 155
Fipronil	101		P	63 - 130
Fipronil Desulfinyl	89.3		P	61 - 130
Fipronil Sulfide	96.1		P	56 - 117
Fipronil Sulfone	117		P	52 - 118
Fluazifop-P-butyl	106		P	61 - 128
Fludioxonil	104		P	59 - 129
Flumioxazin	64.2		P	30 - 250
Flutolanil	121		P	53 - 127
Fluxapyroxad	119		P	42 - 132
Fonofos	83.3		P	61 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P426399

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Hexabromobenzene	110		P	50 - 150
Hexazinone	97.5		P	46 - 139
Imazalil	89.9		P	40 - 139
Iprodione	107		P	40 - 146
Loratadine	35.3		P	10 - 224
Malathion	116		P	61 - 135
Metalaxyl	83.3		P	58 - 121
Metolachlor	82.8		P	64 - 118
Metribuzin	62.3		P	45 - 245
Mevinphos	81.2		P	49 - 118
Molinate	69.5		P	42 - 92.0
Myclobutanil	115		P	55 - 127
Naled	112		P	10 - 114
Napropamide	97.2		P	39 - 121
Norflurazon	105		P	55 - 129
Octinoxate	92.5		P	26 - 166
Oxadiazon	84.8		P	54 - 115
Oxybenzone	85.4		P	49 - 135
Oxyfluorfen	132		P	64 - 139
Parathion Ethyl	95.1		P	70 - 111
Parathion Methyl	112		P	76 - 136
PBB-153	94.2		P	50 - 150
PBDE-47	80.0		P	41 - 148
PBDE-99	82.9		P	38 - 147
Pendimethalin	83.4		P	52 - 118
Pentabromotoluene	98.5		P	50 - 150
Phenytoin	17.7		P	10 - 162
Phorate	107		P	40 - 122
Prodiamine	117		P	26 - 141
Prometon	109		P	54 - 122
Prometryn	120		P	61 - 128
Pronamide	93.7		P	72 - 121
Propanil	82.8		P	45 - 144
Propargite	25.3		P	10 - 199
Propiconazole	114		P	56 - 127
Pyraflufen Ethyl	97.4		P	56 - 140
Pyridaben	100		P	26 - 211
Pyriproxyfen	263		F	33 - 194
Simazine	87.4		P	67 - 121
Stirophos	118		P	20 - 142
Sulfentrazone	144		P	21 - 144
Tebuconazole	112		P	10 - 122
Terbufos	106		P	60 - 129
Terbuthylazine	89.8		P	69 - 113
Tetradecachloro-m-terphenyl	57.5		F	70 - 200
Thiobencarb	93.4		P	51 - 120
Tri-o-cresyl Phosphate	94.6		P	49 - 150
Triadimefon	83.1		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	119		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	118		P	70 - 180

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P426421

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.1		P	10 - 92.0
Alpha-BHC	73.8		F	75 - 107
Alpha-Chlordane	69.9		P	50 - 108
Beta-BHC	78.4		P	36 - 138
Beta-Cyfluthrin	78.4		P	20 - 161
Bifenthrin	63.1		P	10 - 119
Chlorothalonil	91.3		P	26 - 186
Cis-Nonachlor	65.5		P	42 - 119
Cypermethrin	72.5		P	22 - 150
Dacthal	78.7		P	72 - 119
DDD-p,p'	65.1		P	45 - 107
DDE-p,p'	67.5		P	48 - 106
DDT-p,p'	65.4		P	48 - 110
Delta-BHC	82.4		P	54 - 140
Deltamethrin	90.7		P	22 - 189
Dichlobenil	66.4		P	36 - 117
Dicofol	67.4		P	46 - 155
Dieldrin	73.4		P	54 - 110
Endosulfan I	70.9		P	59 - 105
Endosulfan II	80.0		P	51 - 118
Endosulfan Sulfate	79.1		P	57 - 121
Endrin	72.3		P	10 - 120
Endrin Aldehyde	73.7		P	34 - 118
Endrin Ketone	67.1		F	69 - 177
Esfenvalerate	80.9		P	23 - 168
Ethalfluralin	68.0		P	49 - 99.0
Fenpropathrin	76.7		P	34 - 117
Gamma-BHC	82.0		P	72 - 117
Gamma-Chlordane	65.0		P	43 - 106
Heptachlor	57.2		P	41 - 98.0
Heptachlor Epoxide	70.7		P	57 - 106
Hexachlorobenzene	57.8		P	36 - 99.0
Kepone	55.3		P	16 - 215
Lambda-Cyhalothrin	40.3		P	21 - 177
Methoprene	65.5		P	10 - 119
Methoxychlor	73.5		P	60 - 112
MGK-264	66.8		P	26 - 122
Mirex	59.1		P	10 - 169
Oxychlordane	63.4		P	43 - 105
PCB-1016	70.6		P	48 - 112
PCB-1260	70.8		P	44 - 118
Permethrin	45.3		P	24 - 148
Phenothrin	62.2		P	10 - 106
Piperonyl Butoxide	81.8		P	10 - 139
Prallethrin	65.2		P	17 - 109
Tau-Fluvalinate	76.8		P	13 - 131
Tetramethrin	101		P	10 - 132
Trans-Nonachlor	63.5		P	44 - 106
Triclosan Methyl	74.8		P	59 - 109
Trifluralin	67.0		P	44 - 101

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P426421

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	79.1		P	53 - 126
Toxaphene	85.0		P	56 - 211

Reference Method: EPA 8321B
Batch ID: P426216

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	112		P	40 - 150
AMPA	102		P	40 - 150
Endothall	117		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	104		P	40 - 150
Sucralose	108		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	79.8		P	40 - 150
Aldicarb	59.9		P	30 - 150
Aldicarb Sulfone	88.6		P	40 - 150
Aldicarb Sulfoxide	94.3		P	40 - 150
Carbaryl	72.4		P	40 - 150
Carbofuran	72.0		P	40 - 150
Methiocarb	58.0		P	40 - 150
Methomyl	93.8		P	40 - 150
Oxamyl	95.5		P	40 - 150
Propoxur	64.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	122		P	40 - 150
2,4,5-T	91.9		P	40 - 150
Acetaminophen	113		P	30 - 150
Acetamiprid	88.1		P	40 - 150
Bentazon	122		P	30 - 150
Benzovindiflupyr	89.4		P	40 - 150
Carbamazepine	85.4		P	40 - 150
Clothianidin	87.3		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	81.4		P	40 - 150
Fenuron	91.3		P	40 - 150
Fluridone	77.6		P	40 - 150
Hydrocodone	86.6		P	40 - 150
Ibuprofen	81.5		P	40 - 150
Imazapyr	98.5		P	40 - 150
Imidacloprid	104		P	40 - 150
Linuron	74.9		P	40 - 150
Mandestrobin	85.5		P	40 - 150
MCPP	107		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P426469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naproxen	110		P	40 - 150
Primidone	91.8		P	40 - 150
Pyraclostrobin	81.1		P	40 - 150
Silvex	106		P	40 - 150
Thiamethoxam	97.0		P	40 - 150
Tolfenpyrad	58.8		P	30 - 150
Triclopyr	106		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Afidopyropen	60.2		P	30 - 150

Reference Method: SM 2320 B-2011
Batch ID: P426593

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.5		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P426801

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.2		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P426740

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.3		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P426597

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P426788

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.1		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426693

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389573	Chloride	94.4		P	90 - 110
2389625	Chloride	93.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426696

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389573	Sulfate	98.7		P	90 - 110
2389625	Sulfate	96.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426466

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389574	Ammonia-N	108	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426717

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389482	Kjeldahl Nitrogen	106	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426534

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389492	NO2NO3-N	95.0	95.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426450

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389628	Total-P	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426992

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389565	Total-P	101	99.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426306

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389546	O-Phosphate-P	97.6	97.4	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P426399

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389401	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	87.3	86.6	P/P	26 - 165
2389401	Acetochlor	91.5	79.2	P/P	67 - 124

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P426399

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389401	Alachlor	97.5	94.4	P/P	60 - 120
2389401	Ametryn	163	164	P/P	54 - 216
2389401	Atrazine Desethyl	67.5	66.4	P/P	15 - 122
2389401	Avobenzone	104	101	P/P	37 - 178
2389401	Azinphos Methyl	74.1	60.6	P/P	40 - 292
2389401	Azoxystrobin	91.1	80.8	P/P	35 - 220
2389401	Bromacil	108	93.1	P/P	45 - 127
2389401	Butylate	53.8	42.0	P/P	20 - 83.0
2389401	Caffeine	101	82.9	P/P	10 - 194
2389401	Carbophenothion	82.4	79.3	P/P	57 - 127
2389401	Carfentrazone Ethyl	112	91.0	P/P	51 - 141
2389401	Chlorfenapyr	84.3	73.2	P/P	46 - 111
2389401	Chlorpyrifos Ethyl	92.6	103	P/P	52 - 120
2389401	Chlorpyrifos Methyl	112	103	P/P	63 - 119
2389401	Coumaphos	76.5	58.4	P/P	10 - 228
2389401	Cyanazine	174	148	P/P	59 - 241
2389401	Cyprodinil	138	111	P/P	47 - 146
2389401	Dechlorane 602	43.0	47.2	F/F	50 - 150
2389401	Dechlorane 603	51.9	53.1	P/P	50 - 150
2389401	Dechlorane Plus	88.1	75.7	P/P	50 - 150
2389401	Demeton	90.1	79.7	P/P	40 - 136
2389401	Diazinon	110	97.4	P/P	69 - 132
2389401	Difenoconazole	68.4	63.1	P/P	57 - 258
2389401	Dimethenamid	88.9	67.7	P/P	54 - 110
2389401	Dimethomorph	55.2	50.3	P/P	28 - 210
2389401	Disulfoton	86.1	78.9	P/P	43 - 133
2389401	Dithiopyr	109	109	P/P	39 - 116
2389401	EPTC	54.3	50.9	P/P	20 - 78.0
2389401	Ethion	95.4	93.9	P/P	17 - 119
2389401	Ethoprop	109	119	P/P	66 - 120
2389401	Etridiazole	59.1	48.9	P/P	28 - 96.0
2389401	Fenamiphos	69.1	84.5	P/P	41 - 126
2389401	Fenbuconazole	143	129	P/P	42 - 169
2389401	Fipronil	101	99.9	P/P	61 - 132
2389401	Fipronil Desulfinyl	95.3	91.8	P/P	56 - 132
2389401	Fipronil Sulfide	102	96.2	P/P	48 - 119
2389401	Fipronil Sulfone	87.6	85.1	P/P	42 - 131
2389401	Fluazifop-P-butyl	110	93.5	P/P	53 - 131
2389401	Fludioxonil	106	81.6	P/P	56 - 127
2389401	Flumioxazin	70.9	61.7	P/P	19 - 300
2389401	Flutolanil	115	122	P/P	41 - 127
2389401	Fluxapyroxad	130	162	P/P	42 - 172
2389401	Fonofos	91.1	75.4	P/P	59 - 113
2389401	Hexabromobenzene	89.2	104	P/P	50 - 150
2389401	Hexazinone	95.3	90.9	P/P	66 - 122
2389401	Imazalil	88.7	80.4	P/P	21 - 283
2389401	Iprodione	142	171	P/F	43 - 150
2389401	Loratadine	55.8	49.6	P/P	23 - 201
2389401	Malathion	114	99.5	P/P	58 - 136
2389401	Metalaxyl	89.0	84.8	P/P	55 - 120
2389401	Mevinphos	85.5	77.5	P/P	50 - 126
2389401	Molinate	73.7	61.3	P/P	42 - 93.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P426399

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389401	Myclobutanil	92.0	83.7	P/P	55 - 125
2389401	Naled	99.9	87.6	P/P	18 - 200
2389401	Napropamide	87.9	95.1	P/P	39 - 110
2389401	Norflurazon	96.6	95.8	P/P	48 - 128
2389401	Octinoxate	80.9	79.6	P/P	21 - 159
2389401	Oxadiazon	72.4	59.1	P/P	43 - 112
2389401	Oxybenzone	74.9	73.8	P/P	41 - 142
2389401	Oxyfluorfen	134	131	P/P	64 - 153
2389401	Parathion Ethyl	98.1	89.4	P/P	69 - 114
2389401	Parathion Methyl	123	105	P/P	79 - 139
2389401	PBB-153	58.3	64.5	P/P	50 - 150
2389401	PBDE-47	73.0	73.9	P/P	27 - 144
2389401	PBDE-99	75.0	73.4	P/P	18 - 150
2389401	Pendimethalin	106	95.1	P/P	50 - 139
2389401	Pentabromotoluene	85.2	92.4	P/P	50 - 150
2389401	Phenytoin	24.5	24.9	P/P	10 - 146
2389401	Phorate	89.3	89.8	P/P	54 - 161
2389401	Prodiamine	138	100	P/P	30 - 161
2389401	Prometon	123	112	P/P	45 - 134
2389401	Prometryn	130	121	P/P	45 - 137
2389401	Pronamide	101	87.1	P/P	65 - 133
2389401	Propanil	83.0	78.8	P/P	49 - 142
2389401	Propargite	30.5	29.9	P/P	10 - 203
2389401	Propiconazole	101	112	P/P	38 - 146
2389401	Pyraflufen Ethyl	86.6	91.1	P/P	34 - 153
2389401	Pyridaben	117	121	P/P	12 - 192
2389401	Pyriproxyfen	232	218	F/F	33 - 180
2389401	Simazine	79.2	82.6	P/P	51 - 157
2389401	Stirophos	115	93.9	P/P	10 - 128
2389401	Sulfentrazone	165	176	P/P	53 - 186
2389401	Terbufos	112	97.5	P/P	65 - 139
2389401	Terbuthylazine	89.6	87.2	P/P	66 - 117
2389401	Tetradecachloro-m-terphenyl	56.9	49.0	F/F	70 - 200
2389401	Thiobencarb	97.8	95.8	P/P	51 - 119
2389401	Tri-o-cresyl Phosphate	84.3	82.9	P/P	31 - 144
2389401	Triadimefon	74.9	77.5	P/P	48 - 119
2389401	Tris(1-chloro-2-propyl) phosphate (TCPP)	103	108	P/P	50 - 150
2389401	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	104	100	P/P	50 - 150
2389401	Tris(2-chloroethyl) phosphate (TCEP)	112	103	P/P	70 - 180

Reference Method: EPA 8270E
Batch ID: P426421

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389580	Aldrin	53.9	58.1	P/P	20 - 82.0
2389580	Alpha-BHC	67.0	70.5	F/F	71 - 109
2389580	Alpha-Chlordane	79.0	81.0	P/P	42 - 106
2389580	Beta-BHC	68.7	83.9	F/P	69 - 180
2389580	Beta-Cyfluthrin	93.3	98.3	P/P	18 - 175
2389580	Bifenthrin	81.6	78.0	P/P	21 - 128
2389580	Chlorothalonil	86.4	108	P/P	10 - 300
2389580	Cis-Nonachlor	76.7	75.8	P/P	34 - 106

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P426421

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389580	Cypermethrin	92.6	88.5	P/P	22 - 158
2389580	Dacthal	83.0	88.5	P/P	54 - 116
2389580	DDD-p,p'	80.5	74.0	P/P	34 - 107
2389580	DDE-p,p'	78.5	77.2	P/P	33 - 110
2389580	DDT-p,p'	70.6	77.6	P/P	50 - 122
2389580	Delta-BHC	86.0	95.2	P/P	77 - 193
2389580	Deltamethrin	113	121	P/P	10 - 195
2389580	Dichlobenil	43.3	50.0	P/P	25 - 113
2389580	Dicofol	75.2	79.7	P/P	38 - 247
2389580	Dieldrin	85.8	82.4	P/P	45 - 118
2389580	Endosulfan I	81.7	85.8	P/P	51 - 106
2389580	Endosulfan II	85.6	88.7	P/P	37 - 122
2389580	Endosulfan Sulfate	76.3	81.5	P/P	43 - 132
2389580	Endrin	82.5	87.2	P/P	29 - 101
2389580	Endrin Aldehyde	65.9	71.1	P/P	19 - 110
2389580	Endrin Ketone	68.9	74.1	P/P	60 - 140
2389580	Esfenvalerate	99.3	105	P/P	26 - 199
2389580	Ethalfluralin	66.8	71.4	P/P	45 - 99.0
2389580	Fenpropathrin	88.2	86.6	P/P	35 - 120
2389580	Gamma-BHC	75.9	80.8	P/P	63 - 128
2389580	Gamma-Chlordane	75.5	76.8	P/P	40 - 104
2389580	Heptachlor	58.3	65.6	P/P	36 - 97.0
2389580	Heptachlor Epoxide	79.1	83.1	P/P	49 - 184
2389580	Hexachlorobenzene	44.4	56.3	P/P	39 - 96.0
2389580	Kepone	78.3	83.1	P/P	10 - 217
2389580	Lambda-Cyhalothrin	53.3	50.4	P/P	21 - 193
2389580	Methoprene	74.6	77.6	P/P	20 - 106
2389580	Methoxychlor	79.9	90.9	P/P	53 - 118
2389580	MGK-264	77.7	73.6	P/P	40 - 118
2389580	Mirex	70.8	70.0	P/P	26 - 92.0
2389580	Oxychlordane	73.4	75.7	P/P	44 - 99.0
2389580	Permethrin	59.0	55.3	P/P	33 - 182
2389580	Phenothrin	76.5	77.1	P/P	10 - 129
2389580	Piperonyl Butoxide	92.5	85.4	P/P	10 - 211
2389580	Prallethrin	61.2	66.4	P/P	24 - 113
2389580	Tau-Fluvalinate	92.4	98.5	P/P	14 - 149
2389580	Tetramethrin	109	114	P/P	17 - 151
2389580	Trans-Nonachlor	82.2	80.1	P/P	42 - 102
2389580	Triclosan Methyl	82.0	86.0	P/P	48 - 108
2389580	Trifluralin	71.0	72.0	P/P	47 - 96.0
2389595	PCB-1016	54.0	58.0	P/P	46 - 111
2389595	PCB-1260	48.6	50.0	P/P	45 - 114

Reference Method: EPA 8276
Batch ID: P426421

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389595	Chlordane	59.5	60.6	P/P	53 - 126
2389595	Toxaphene	40.7	45.2	F/F	56 - 211

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P426216

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389131	Acesulfame K	122	115	P/P	40 - 150
2389131	AMPA	73.1	67.5	P/P	40 - 150
2389131	Endothall	114	106	P/P	40 - 150
2389131	Glufosinate	76.6	79.4	P/P	40 - 150
2389131	Glyphosate	97.1	101	P/P	40 - 150
2389131	Sucralose	98.2	105	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390059	3-Hydroxycarbofuran	59.8	45.8	P/P	40 - 150
2390059	Aldicarb	47.4	58.0	P/P	30 - 150
2390059	Aldicarb Sulfone	78.9	82.0	P/P	40 - 150
2390059	Aldicarb Sulfoxide	30.2	30.9	F/F	40 - 150
2390059	Carbaryl	48.4	55.4	P/P	40 - 150
2390059	Carbofuran	47.8	48.6	P/P	40 - 150
2390059	Methiocarb	53.7	55.6	P/P	40 - 150
2390059	Methomyl	63.7	65.6	P/P	40 - 150
2390059	Oxamyl	75.2	72.0	P/P	40 - 150
2390059	Propoxur	44.3	45.8	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426469

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390647	2,4-D	97.0	110	P/P	40 - 150
2390647	2,4,5-T	98.0	98.3	P/P	40 - 150
2390647	Acetaminophen	114	118	P/P	30 - 150
2390647	Acetamiprid	53.6	59.2	P/P	40 - 150
2390647	Bentazon	78.7	78.8	P/P	30 - 150
2390647	Benzovindiflupyr	75.4	76.0	P/P	40 - 150
2390647	Carbamazepine	58.2	60.3	P/P	40 - 150
2390647	Clothianidin	77.9	81.3	P/P	40 - 150
2390647	Dinotefuran	95.9	96.1	P/P	40 - 150
2390647	Diuron	49.0	48.0	P/P	40 - 150
2390647	Fenuron	56.5	58.0	P/P	40 - 150
2390647	Fluridone	55.8	51.4	P/P	40 - 150
2390647	Hydrocodone	73.8	74.6	P/P	40 - 150
2390647	Ibuprofen	72.2	88.4	P/P	40 - 150
2390647	Imazapyr	98.9	106	P/P	40 - 150
2390647	Imidacloprid	101	106	P/P	40 - 150
2390647	Linuron	62.1	61.3	P/P	40 - 150
2390647	Mandestrobin	68.3	77.1	P/P	40 - 150
2390647	MCPP	94.6	103	P/P	40 - 150
2390647	Naproxen	61.4	69.5	P/P	40 - 150
2390647	Primidone	78.9	79.3	P/P	40 - 150
2390647	Pyraclostrobin	70.8	71.2	P/P	40 - 150
2390647	Silvex	103	109	P/P	40 - 150
2390647	Thiamethoxam	84.1	81.4	P/P	40 - 150
2390647	Tolfenpyrad	52.6	51.0	P/P	30 - 150
2390647	Triclopyr	104	104	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P426586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391073	Afidopyropen	73.1	39.7	P/P	30 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P426597

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389558	Fluoride	98.8	98.2	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P426788

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389629	Organic Carbon	94.5	95.9	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P426302

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389573	Color (true)	1.63	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426309

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389573	Turbidity	11.0	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426693

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389573	Chloride	0.153	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426696

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389573	Sulfate	0.831	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426466

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389574	Ammonia-N	2.44	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426717

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389482	Kjeldahl Nitrogen	3.06	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426534

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389492	NO2NO3-N	0.155	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426450

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389628	Total-P	0.313	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389565	Total-P	1.69	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P426306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389546	O-Phosphate-P	0.205	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P426399

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389401	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	0.773	Spike	P	0 - 37
2389401	Acetochlor	14.4	Spike	P	0 - 28
2389401	Alachlor	3.13	Spike	P	0 - 30
2389401	Ametryn	0.535	Spike	P	0 - 32
2389401	Atrazine	6.43	Spike	P	0 - 41
2389401	Atrazine Desethyl	1.66	Spike	P	0 - 36
2389401	Avobenzone	3.06	Spike	P	0 - 36
2389401	Azinphos Methyl	20.0	Spike	P	0 - 75
2389401	Azoxystrobin	9.71	Spike	P	0 - 39
2389401	Bromacil	12.4	Spike	P	0 - 33
2389401	Butylate	24.7	Spike	P	0 - 44
2389401	Caffeine	18.3	Spike	P	0 - 74
2389401	Carbophenothion	3.79	Spike	P	0 - 25
2389401	Carfentrazone Ethyl	21.0	Spike	P	0 - 27
2389401	Chlorfenapyr	14.0	Spike	P	0 - 24
2389401	Chlorpyrifos Ethyl	10.5	Spike	P	0 - 26
2389401	Chlorpyrifos Methyl	8.95	Spike	P	0 - 26
2389401	Coumaphos	26.8	Spike	P	0 - 28
2389401	Cyanazine	16.3	Spike	P	0 - 48
2389401	Cyprodinil	21.5	Spike	P	0 - 29
2389401	Dechlorane 602	9.33	Spike	P	0 - 30
2389401	Dechlorane 603	2.23	Spike	P	0 - 30
2389401	Dechlorane Plus	15.1	Spike	P	0 - 30
2389401	Demeton	12.3	Spike	P	0 - 33
2389401	Diazinon	12.6	Spike	P	0 - 29
2389401	Difenoconazole	8.04	Spike	P	0 - 34
2389401	Dimethenamid	27.1	Spike	P	0 - 39
2389401	Dimethomorph	9.16	Spike	P	0 - 51
2389401	Disulfoton	8.72	Spike	P	0 - 30
2389401	Dithiopyr	0.211	Spike	P	0 - 26
2389401	EPTC	6.44	Spike	P	0 - 43
2389401	Ethion	1.59	Spike	P	0 - 79
2389401	Ethoprop	9.16	Spike	P	0 - 29
2389401	Etridiazole	18.8	Spike	P	0 - 33
2389401	Fenamiphos	20.0	Spike	P	0 - 40
2389401	Fenbuconazole	10.3	Spike	P	0 - 74
2389401	Fipronil	0.944	Spike	P	0 - 29

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P426399

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389401	Fipronil Desulfinyl	3.42	Spike	P	0 - 32
2389401	Fipronil Sulfide	5.14	Spike	P	0 - 30
2389401	Fipronil Sulfone	2.16	Spike	P	0 - 33
2389401	Fluazifop-P-butyl	16.2	Spike	P	0 - 38
2389401	Fludioxonil	25.8	Spike	P	0 - 29
2389401	Flumioxazin	13.8	Spike	P	0 - 51
2389401	Flutolanil	5.69	Spike	P	0 - 25
2389401	Fluxapyroxad	21.3	Spike	P	0 - 45
2389401	Fonofos	18.8	Spike	P	0 - 27
2389401	Hexabromobenzene	15.0	Spike	P	0 - 30
2389401	Hexazinone	3.72	Spike	P	0 - 30
2389401	Imazalil	9.84	Spike	P	0 - 100
2389401	Iprodione	15.7	Spike	P	0 - 33
2389401	Loratadine	11.7	Spike	P	0 - 56
2389401	Malathion	13.7	Spike	P	0 - 37
2389401	Metalaxyl	4.82	Spike	P	0 - 40
2389401	Metolachlor	4.70	Spike	P	0 - 29
2389401	Metribuzin	24.2	Spike	P	0 - 45
2389401	Mevinphos	9.77	Spike	P	0 - 29
2389401	Molinate	18.5	Spike	P	0 - 33
2389401	Myclobutanil	8.72	Spike	P	0 - 26
2389401	Naled	13.1	Spike	P	0 - 37
2389401	Napropamide	7.93	Spike	P	0 - 44
2389401	Norflurazon	0.808	Spike	P	0 - 30
2389401	Octinoxate	1.67	Spike	P	0 - 45
2389401	Oxadiazon	13.6	Spike	P	0 - 28
2389401	Oxybenzone	1.53	Spike	P	0 - 46
2389401	Oxyfluorfen	2.74	Spike	P	0 - 28
2389401	Parathion Ethyl	9.23	Spike	P	0 - 31
2389401	Parathion Methyl	15.9	Spike	P	0 - 29
2389401	PBB-153	10.2	Spike	P	0 - 30
2389401	PBDE-47	1.25	Spike	P	0 - 36
2389401	PBDE-99	2.27	Spike	P	0 - 40
2389401	Pendimethalin	10.5	Spike	P	0 - 33
2389401	Pentabromotoluene	8.06	Spike	P	0 - 30
2389401	Phenytoin	1.39	Spike	P	0 - 100
2389401	Phorate	0.505	Spike	P	0 - 36
2389401	Prodiamine	29.3	Spike	P	0 - 71
2389401	Prometon	9.28	Spike	P	0 - 36
2389401	Prometryn	7.70	Spike	P	0 - 28
2389401	Pronamide	15.2	Spike	P	0 - 24
2389401	Propanil	5.24	Spike	P	0 - 28
2389401	Propargite	2.11	Spike	P	0 - 43
2389401	Propiconazole	7.01	Spike	P	0 - 33
2389401	Pyraflufen Ethyl	5.09	Spike	P	0 - 29
2389401	Pyridaben	3.31	Spike	P	0 - 30
2389401	Pyriproxyfen	6.14	Spike	P	0 - 79
2389401	Simazine	2.15	Spike	P	0 - 29
2389401	Stirophos	19.9	Spike	P	0 - 61
2389401	Sulfentrazone	5.23	Spike	P	0 - 33
2389401	Tebuconazole	10.0	Spike	P	0 - 69

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P426399

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389401	Terbufos	14.0	Spike	P	0 - 29
2389401	Terbuthylazine	2.66	Spike	P	0 - 32
2389401	Tetradecachloro-m-terphenyl	14.9	Spike	P	0 - 30
2389401	Thiobencarb	1.98	Spike	P	0 - 26
2389401	Tri-o-cresyl Phosphate	1.71	Spike	P	0 - 33
2389401	Triadimefon	3.37	Spike	P	0 - 28
2389401	Tris(1-chloro-2-propyl) phosphate (TCPP)	2.69	Spike	P	0 - 30
2389401	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	3.52	Spike	P	0 - 30
2389401	Tris(2-chloroethyl) phosphate (TCEP)	8.93	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P426421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389580	Aldrin	7.51	Spike	P	0 - 41
2389580	Alpha-BHC	5.08	Spike	P	0 - 25
2389580	Alpha-Chlordane	2.53	Spike	P	0 - 33
2389580	Beta-BHC	19.8	Spike	P	0 - 36
2389580	Beta-Cyfluthrin	5.27	Spike	P	0 - 42
2389580	Bifenthrin	4.43	Spike	P	0 - 53
2389580	Chlorothalonil	22.1	Spike	P	0 - 71
2389580	Cis-Nonachlor	1.17	Spike	P	0 - 29
2389580	Cypermethrin	4.63	Spike	P	0 - 40
2389580	Dacthal	6.38	Spike	P	0 - 26
2389580	DDD-p,p'	8.37	Spike	P	0 - 39
2389580	DDE-p,p'	1.59	Spike	P	0 - 33
2389580	DDT-p,p'	9.56	Spike	P	0 - 40
2389580	Delta-BHC	10.2	Spike	P	0 - 37
2389580	Deltamethrin	6.79	Spike	P	0 - 100
2389580	Dichlobenil	14.4	Spike	P	0 - 40
2389580	Dicofol	5.70	Spike	P	0 - 31
2389580	Dieldrin	3.98	Spike	P	0 - 27
2389580	Endosulfan I	4.84	Spike	P	0 - 23
2389580	Endosulfan II	3.56	Spike	P	0 - 28
2389580	Endosulfan Sulfate	6.55	Spike	P	0 - 38
2389580	Endrin	5.56	Spike	P	0 - 63
2389580	Endrin Aldehyde	7.70	Spike	P	0 - 60
2389580	Endrin Ketone	7.31	Spike	P	0 - 37
2389580	Esfenvalerate	5.88	Spike	P	0 - 52
2389580	Ethalfluralin	6.78	Spike	P	0 - 23
2389580	Fenpropathrin	1.80	Spike	P	0 - 32
2389580	Gamma-BHC	6.28	Spike	P	0 - 17
2389580	Gamma-Chlordane	1.81	Spike	P	0 - 40
2389580	Heptachlor	11.9	Spike	P	0 - 29
2389580	Heptachlor Epoxide	4.94	Spike	P	0 - 25
2389580	Hexachlorobenzene	23.6	Spike	P	0 - 36
2389580	Kepone	5.94	Spike	P	0 - 93
2389580	Lambda-Cyhalothrin	5.63	Spike	P	0 - 55
2389580	Methoprene	3.96	Spike	P	0 - 53
2389580	Methoxychlor	12.9	Spike	P	0 - 29

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P426421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389580	MGK-264	5.46	Spike	P	0 - 35
2389580	Mirex	1.13	Spike	P	0 - 46
2389580	Oxychlordane	3.01	Spike	P	0 - 29
2389580	Permethrin	6.56	Spike	P	0 - 44
2389580	Phenothrin	0.768	Spike	P	0 - 56
2389580	Piperonyl Butoxide	8.01	Spike	P	0 - 100
2389580	Prallethrin	8.15	Spike	P	0 - 42
2389580	Tau-Fluvalinate	6.33	Spike	P	0 - 54
2389580	Tetramethrin	4.46	Spike	P	0 - 51
2389580	Trans-Nonachlor	2.57	Spike	P	0 - 37
2389580	Triclosan Methyl	4.72	Spike	P	0 - 31
2389580	Trifluralin	1.39	Spike	P	0 - 30
2389595	PCB-1016	7.10	Spike	P	0 - 32
2389595	PCB-1260	2.90	Spike	P	0 - 31

Reference Method: EPA 8276
Batch ID: P426421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389595	Chlordane	1.81	Spike	P	0 - 25
2389595	Toxaphene	5.98	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P426216

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389131	Acesulfame K	6.12	Spike	P	0 - 30
2389131	AMPA	7.93	Spike	P	0 - 30
2389131	Endothall	7.84	Spike	P	0 - 30
2389131	Glufosinate	3.56	Spike	P	0 - 30
2389131	Glyphosate	3.84	Spike	P	0 - 30
2389131	Sucralose	6.93	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P426297

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390059	3-Hydroxycarbofuran	26.5	Spike	P	0 - 30
2390059	Aldicarb	20.1	Spike	P	0 - 30
2390059	Aldicarb Sulfone	3.87	Spike	P	0 - 30
2390059	Aldicarb Sulfoxide	2.36	Spike	P	0 - 30
2390059	Carbaryl	13.5	Spike	P	0 - 30
2390059	Carbofuran	1.68	Spike	P	0 - 30
2390059	Methiocarb	3.56	Spike	P	0 - 30
2390059	Methomyl	2.96	Spike	P	0 - 30
2390059	Oxamyl	4.42	Spike	P	0 - 30
2390059	Propoxur	3.24	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P426469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390647	2,4-D	12.5	Spike	P	0 - 30
2390647	2,4,5-T	0.264	Spike	P	0 - 30
2390647	Acetaminophen	3.77	Spike	P	0 - 30
2390647	Acetamiprid	9.88	Spike	P	0 - 30
2390647	Bentazon	0.234	Spike	P	0 - 30
2390647	Benzovindiflupyr	0.827	Spike	P	0 - 30
2390647	Carbamazepine	3.60	Spike	P	0 - 30
2390647	Clothianidin	4.19	Spike	P	0 - 30
2390647	Dinotefuran	0.234	Spike	P	0 - 30
2390647	Diuron	2.07	Spike	P	0 - 30
2390647	Fenuron	2.70	Spike	P	0 - 30
2390647	Fluridone	8.10	Spike	P	0 - 30
2390647	Hydrocodone	1.12	Spike	P	0 - 30
2390647	Ibuprofen	20.2	Spike	P	0 - 30
2390647	Imazapyr	6.28	Spike	P	0 - 30
2390647	Imidacloprid	5.33	Spike	P	0 - 30
2390647	Linuron	1.28	Spike	P	0 - 30
2390647	Mandestrobin	12.1	Spike	P	0 - 30
2390647	MCPP	8.21	Spike	P	0 - 30
2390647	Naproxen	12.4	Spike	P	0 - 30
2390647	Primidone	0.572	Spike	P	0 - 30
2390647	Pyraclostrobin	0.485	Spike	P	0 - 30
2390647	Silvex	4.93	Spike	P	0 - 30
2390647	Thiamethoxam	3.22	Spike	P	0 - 30
2390647	Tolfenpyrad	3.12	Spike	P	0 - 30
2390647	Triclopyr	0.455	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P426586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391073	Afidopyropen	59.2	Spike	F	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P426593

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389558	Total Alkalinity	1.04	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P426801

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389380	TDS	4.49	Sample	P	0 - 10

Quality Assurance Report
Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P426597

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389558	Fluoride	0.482	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P426788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389629	Organic Carbon	0.996	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2389593
Field Sample ID: G2CE0072

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	62.8	P	30 - 160

Lab Sample ID: 2389594
Field Sample ID: G2CE0072

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	138	P	30 - 160
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	115	P	30 - 160
EPA 8321B	Carbamazepine-d10	70.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	79.2	P	30 - 160
EPA 8321B	Diuron-d6	60.9	P	30 - 160
EPA 8321B	Diuron-d6	58.8	P	30 - 160
EPA 8321B	Endothall-d6	103	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	105	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	76.3	P	30 - 160
EPA 8321B	Primidone-d5	101	P	30 - 160
EPA 8321B	Primidone-d5	89.2	P	30 - 160
EPA 8321B	Sucralose-d6	111	P	30 - 160

Lab Sample ID: 2389595
Field Sample ID: G2CE0072

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	49.3	P	29 - 130
EPA 8270E	Decachlorobiphenyl	47.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	34.1	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	37.7	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	38.3	P	30 - 101
EPA 8276	PCNB	51.7	P	48 - 121

Lab Sample ID: 2389596
Field Sample ID: G2CE0072

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	72.1	P	20 - 200
EPA 8270E	Simazine-d10	67.9	P	62 - 142
EPA 8270E	Terbufos-d10	73.4	P	58 - 132
EPA 8270E	Terphenyl-d14	93.0	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A117629
Included Lab Sample IDs: 2389573, 2389576, 2389577

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A117630
Included Lab Sample IDs: 2389575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.3	99.0	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A117632
Included Lab Sample IDs: 2389573, 2389576, 2389577

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

Reference Method: EPA 8321B
Run ID: A117674
Included Lab Sample IDs: 2389594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	106	97.9	P/P	60 - 160
Endothall	108	105	P/P	60 - 160
Glufosinate	93.9	93.6	P/P	60 - 160
Glyphosate	103	107	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A117677
Included Lab Sample IDs: 2389594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	119	117	P/P	60 - 160
Sucralose	108	108	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A117687
Included Lab Sample IDs: 2389573, 2389576, 2389577

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	95.6	95.6	P/P	90 - 110
Sulfate	98.1	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A117699
Included Lab Sample IDs: 2389574, 2389578, 2389579

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A117705
Included Lab Sample IDs: 2389593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	87.4	102	P/P	60 - 150
Aldicarb	105	90.3	P/P	60 - 150
Aldicarb Sulfone	94.3	90.9	P/P	50 - 150
Aldicarb Sulfoxide	101	103	P/P	50 - 150
Carbaryl	108	106	P/P	60 - 150
Carbofuran	105	102	P/P	50 - 150
Methiocarb	105	93.7	P/P	50 - 150
Methomyl	100	102	P/P	50 - 150
Oxamyl	103	94.3	P/P	50 - 150
Propoxur	106	108	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A117735
Included Lab Sample IDs: 2389574, 2389578, 2389579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A117758
Included Lab Sample IDs: 2389573, 2389576, 2389577

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.4	99.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A117758
Included Lab Sample IDs: 2389573, 2389576, 2389577

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A117799
Included Lab Sample IDs: 2389578

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	104	103	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A117816
Included Lab Sample IDs: 2389595

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.6		P	80 - 120
Toxaphene	99.6		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A117817
Included Lab Sample IDs: 2389595

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.1		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	95.3		P	80 - 120
Beta-Cyfluthrin	93.7		P	80 - 120
Bifenthrin	96.2		P	80 - 120
Chlorothalonil	107		P	80 - 120
Cis-Nonachlor	103		P	80 - 120
Cypermethrin	92.8		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	97.2		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	99.5		P	80 - 120
Deltamethrin	96.8		P	80 - 120
Dichlobenil	98.3		P	80 - 120
Dicofol	98.1		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	103		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	96.6		P	80 - 120
Endrin	103		P	80 - 120
Endrin Aldehyde	103		P	80 - 120
Endrin Ketone	129*		F	80 - 120
Esfenvalerate	99.3		P	80 - 120
Ethalfluralin	101		P	80 - 120
Fenpropathrin	97.1		P	80 - 120
Gamma-BHC	104		P	80 - 120
Gamma-Chlordane	100		P	80 - 120
Heptachlor	97.8		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	99.3		P	80 - 120
Kepone	84.9		P	80 - 120
Lambda-Cyhalothrin	97.1		P	80 - 120
Methoprene	101		P	80 - 120
Methoxychlor	99.5		P	80 - 120
MGK-264	98.7		P	80 - 120
Mirex	100		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	98.0		P	80 - 120
Phenothrin	94.7		P	80 - 120
Piperonyl Butoxide	102		P	80 - 120
Prallethrin	99.9		P	80 - 120
Tau-Fluvalinate	95.8		P	80 - 120
Tetramethrin	102		P	80 - 120
Trans-Nonachlor	104		P	80 - 120
Triclosan Methyl	104		P	80 - 120
Trifluralin	101		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A117830
Included Lab Sample IDs: 2389596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	101		P	80 - 120
Azoxystrobin	96.3		P	80 - 120
Fipronil Sulfone	103		P	80 - 120
Myclobutanil	98.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117837
Included Lab Sample IDs: 2389596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	103		P	80 - 120
Alachlor	108		P	80 - 120
Ametryn	119		P	80 - 120
Atrazine Desethyl	96.2		P	80 - 120
Azinphos Methyl	114		P	80 - 120
Bromacil	103		P	80 - 120
Butylate	94.2		P	80 - 120
Caffeine	104		P	80 - 120
Carbophenothion	102		P	80 - 120
Carfentrazone Ethyl	101		P	80 - 120
Chlorfenapyr	114		P	80 - 120
Chlorpyrifos Ethyl	110		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	112		P	80 - 120
Cyanazine	119		P	80 - 120
Cyprodinil	119		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	97.2		P	80 - 120
Difenoconazole	119		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	109		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	106		P	80 - 120
Ethion	100		P	80 - 120
Ethoprop	96.7		P	80 - 120
Etridiazole	92.0		P	80 - 120
Fenamiphos	101		P	80 - 120
Fenbuconazole	95.1		P	80 - 120
Fipronil	100		P	80 - 120
Fipronil Desulfinyl	96.7		P	80 - 120
Fipronil Sulfide	105		P	80 - 120
Fluazifop-P-butyl	101		P	80 - 120
Fludioxonil	107		P	80 - 120
Flumioxazin	106		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	91.5		P	80 - 120
Fonofos	99.3		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	106		P	80 - 120
Iprodione	91.4		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A117837
Included Lab Sample IDs: 2389596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Loratadine	107		P	80 - 120
Malathion	101		P	80 - 120
Metalaxyl	111		P	80 - 120
Metolachlor	96.6		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	94.9		P	80 - 120
Molinate	98.3		P	80 - 120
Naled	93.1		P	80 - 120
Napropamide	104		P	80 - 120
Norflurazon	104		P	80 - 120
Oxadiazon	110		P	80 - 120
Oxyfluorfen	105		P	80 - 120
Parathion Ethyl	104		P	80 - 120
Parathion Methyl	113		P	80 - 120
Pendimethalin	119		P	80 - 120
Phenytoin	117		P	80 - 120
Phorate	104		P	80 - 120
Prodiamine	118		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	114		P	80 - 120
Pronamide	99.4		P	80 - 120
Propanil	97.2		P	80 - 120
Propargite	112		P	80 - 120
Propiconazole	107		P	80 - 120
Pyraflufen Ethyl	104		P	80 - 120
Pyridaben	94.6		P	80 - 120
Pyriproxyfen	105		P	80 - 120
Simazine	99.4		P	80 - 120
Stirophos	100		P	80 - 120
Sulfentrazone	95.5		P	80 - 120
Tebuconazole	81.0		P	80 - 120
Terbufos	99.0		P	80 - 120
Terbuthylazine	101		P	80 - 120
Thiobencarb	99.3		P	80 - 120
Triadimefon	90.3		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A117844
Included Lab Sample IDs: 2389574, 2389578, 2389579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.6	95.4	P/P	90 - 110
Organic Carbon	95.4	95.4	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A117849
Included Lab Sample IDs: 2389594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.1	96.1	P/P	50 - 150
2,4,5-T	82.1	99.8	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A117849
Included Lab Sample IDs: 2389594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	116	126	P/P	60 - 160
Acetamiprid	99.0	99.0	P/P	50 - 150
Benzovindiflupyr	106	104	P/P	50 - 150
Carbamazepine	102	103	P/P	60 - 150
Clothianidin	93.6	100	P/P	60 - 150
Dinotefuran	112	114	P/P	50 - 150
Diuron	110	114	P/P	60 - 160
Fenuron	98.6	104	P/P	60 - 150
Fluridone	97.8	114	P/P	60 - 160
Hydrocodone	105	101	P/P	60 - 150
Ibuprofen	122	60.3	P/P	50 - 160
Imazapyr	98.3	94.8	P/P	50 - 150
Imidacloprid	98.3	94.5	P/P	60 - 150
Linuron	100	108	P/P	60 - 150
Mandestrobin	99.1	91.5	P/P	50 - 150
MCPP	99.7	103	P/P	50 - 150
Naproxen	95.7	127	P/P	50 - 160
Primidone	83.2	86.5	P/P	60 - 150
Pyraclostrobin	108	105	P/P	60 - 150
Silvex	92.8	88.5	P/P	50 - 150
Thiamethoxam	103	105	P/P	50 - 150
Tolfenpyrad	97.2	99.1	P/P	60 - 150
Triclopyr	103	90.7	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A117850
Included Lab Sample IDs: 2389594

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	112	96.3	P/P	50 - 150
Bentazon	123	129	P/P	50 - 160

Reference Method: EPA 8270E
Run ID: A117857
Included Lab Sample IDs: 2389596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	100		P	80 - 120
Avobenzone	102		P	80 - 120
Dechlorane 602	94.8		P	80 - 120
Dechlorane 603	96.7		P	80 - 120
Dechlorane Plus	98.0		P	80 - 120
Hexabromobenzene	98.3		P	80 - 120
Octinoxate	102		P	80 - 120
Oxybenzone	103		P	80 - 120
PBB-153	98.7		P	80 - 120
PBDE-47	99.6		P	80 - 120
PBDE-99	100		P	80 - 120
Pentabromotoluene	96.3		P	80 - 120
Tetradecachloro-m-terphenyl	95.2		P	80 - 120
Tri-o-cresyl Phosphate	102		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A117857
Included Lab Sample IDs: 2389596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tris(1-chloro-2-propyl) phosphate (TCPP)	101		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	101		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	104		P	80 - 120

Reference Method: EPA 8270E
Run ID: A117867
Included Lab Sample IDs: 2389595

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	96.6		P	80 - 120
PCB-1260	97.9		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A117881
Included Lab Sample IDs: 2389574, 2389578, 2389579

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	92.2	94.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A117983
Included Lab Sample IDs: 2389574, 2389579

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

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	101				1.63	
EPA 180.1 Rev. 2.0	Turbidity	99.8				11.0	
EPA 300.0 Rev. 2.1	Chloride	94.5	94.4	93.8		0.153	
	Sulfate	97.5	98.7	96.0		0.831	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	108	105			2.44
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.0	106	100			3.06
EPA 353.2 Rev. 2.0	NO2NO3-N	101	95.0	95.2			0.155
EPA 365.1 Rev. 2.0	Total-P	102	101	101			0.313
	Total-P	98.6	101	99.7			1.69
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.8	97.6	97.4			0.205
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.0	86.6	87.3			0.773
	Acetochlor	92.5	91.5	79.2			14.4
	Alachlor	93.6	97.5	94.4			3.13
	Aldrin	49.1	53.9	58.1			7.51
	Alpha-BHC	73.8	67.0	70.5			5.08
	Alpha-Chlordane	69.9	79.0	81.0			2.53
	Ametryn	116	163	164			0.535
	Atrazine	84.0					6.43
	Atrazine Desethyl	62.6	67.5	66.4			1.66
	Avobenzone	110	104	101			3.06
	Azinphos Methyl	54.8	74.1	60.6			20.0
	Azoxystrobin	93.0	91.1	80.8			9.71
	Beta-BHC	78.4	68.7	83.9			19.8
	Beta-Cyfluthrin	78.4	93.3	98.3			5.27
	Bifenthrin	63.1	81.6	78.0			4.43
	Bromacil	103	108	93.1			12.4
	Butylate	55.5	53.8	42.0			24.7
	Caffeine	95.2	101	82.9			18.3
	Carbophenothion	94.1	82.4	79.3			3.79
	Carfentrazone Ethyl	116	112	91.0			21.0
	Chlorfenapyr	87.6	84.3	73.2			14.0
	Chlorothalonil	91.3	86.4	108			22.1
	Chlorpyrifos Ethyl	102	92.6	103			10.5
	Chlorpyrifos Methyl	107	112	103			8.95
	Cis-Nonachlor	65.5	76.7	75.8			1.17
	Coumaphos	54.0	76.5	58.4			26.8
	Cyanazine	205	174	148			16.3
	Cypermethrin	72.5	92.6	88.5			4.63
	Cyprodinil	123	138	111			21.5
	Dacthal	78.7	83.0	88.5			6.38
	DDD-p,p'	65.1	80.5	74.0			8.37
	DDE-p,p'	67.5	78.5	77.2			1.59
	DDT-p,p'	65.4	70.6	77.6			9.56
	Dechlorane 602	61.9	47.2	43.0			9.33
	Dechlorane 603	64.4	53.1	51.9			2.23
	Dechlorane Plus	108	75.7	88.1			15.1
	Delta-BHC	82.4	86.0	95.2			10.2
	Deltamethrin	90.7	113	121			6.79
	Demeton	84.2	90.1	79.7			12.3
	Diazinon	101	110	97.4			12.6
	Dichlobenil	66.4	43.3	50.0			14.4
	Dicofol	67.4	75.2	79.7			5.70

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Dieldrin	73.4	85.8	82.4			3.98
	Difenoconazole	59.5	68.4	63.1			8.04
	Dimethenamid	85.0	88.9	67.7			27.1
	Dimethomorph	45.2	55.2	50.3			9.16
	Disulfoton	96.1	86.1	78.9			8.72
	Dithiopyr	95.1	109	109			0.211
	Endosulfan I	70.9	81.7	85.8			4.84
	Endosulfan II	80.0	85.6	88.7			3.56
	Endosulfan Sulfate	79.1	76.3	81.5			6.55
	Endrin	72.3	82.5	87.2			5.56
	Endrin Aldehyde	73.7	65.9	71.1			7.70
	Endrin Ketone	67.1	68.9	74.1			7.31
	EPTC	56.4	54.3	50.9			6.44
	Esfenvalerate	80.9	99.3	105			5.88
	Ethalfluralin	68.0	66.8	71.4			6.78
	Ethion	103	95.4	93.9			1.59
	Ethoprop	97.5	109	119			9.16
	Etridiazole	64.8	59.1	48.9			18.8
	Fenamiphos	73.5	69.1	84.5			20.0
	Fenbuconazole	115	143	129			10.3
	Fenpropathrin	76.7	88.2	86.6			1.80
	Fipronil	101	101	99.9			0.944
	Fipronil Desulfinyl	89.3	95.3	91.8			3.42
	Fipronil Sulfide	96.1	102	96.2			5.14
	Fipronil Sulfone	117	87.6	85.1			2.16
	Fluazifop-P-butyl	106	110	93.5			16.2
	Fludioxonil	104	106	81.6			25.8
	Flumioxazin	64.2	70.9	61.7			13.8
	Flutolanil	121	115	122			5.69
	Fluxapyroxad	119	130	162			21.3
	Fonofos	83.3	91.1	75.4			18.8
	Gamma-BHC	82.0	75.9	80.8			6.28
	Gamma-Chlordane	65.0	75.5	76.8			1.81
	Heptachlor	57.2	58.3	65.6			11.9
	Heptachlor Epoxide	70.7	79.1	83.1			4.94
	Hexabromobenzene	110	104	89.2			15.0
	Hexachlorobenzene	57.8	44.4	56.3			23.6
	Hexazinone	97.5	95.3	90.9			3.72
	Imazalil	89.9	88.7	80.4			9.84
	Iprodione	107	142	171			15.7
	Kepone	55.3	78.3	83.1			5.94
	Lambda-Cyhalothrin	40.3	53.3	50.4			5.63
	Loratadine	35.3	55.8	49.6			11.7
	Malathion	116	114	99.5			13.7
	Metalaxyl	83.3	89.0	84.8			4.82
	Methoprene	65.5	74.6	77.6			3.96
	Methoxychlor	73.5	79.9	90.9			12.9
	Metolachlor	82.8					4.70
	Metribuzin	62.3					24.2
	Mevinphos	81.2	85.5	77.5			9.77
	MGK-264	66.8	77.7	73.6			5.46
	Mirex	59.1	70.8	70.0			1.13
	Molinate	69.5	73.7	61.3			18.5
	Myclobutanil	115	92.0	83.7			8.72

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Naled	112	99.9	87.6			13.1
	Napropamide	97.2	87.9	95.1			7.93
	Norflurazon	105	96.6	95.8			0.808
	Octinoxate	92.5	80.9	79.6			1.67
	Oxadiazon	84.8	72.4	59.1			13.6
	Oxybenzone	85.4	74.9	73.8			1.53
	Oxychlordane	63.4	73.4	75.7			3.01
	Oxyfluorfen	132	134	131			2.74
	Parathion Ethyl	95.1	98.1	89.4			9.23
	Parathion Methyl	112	123	105			15.9
	PBB-153	94.2	64.5	58.3			10.2
	PBDE-47	80.0	73.0	73.9			1.25
	PBDE-99	82.9	75.0	73.4			2.27
	PCB-1016	70.6	54.0	58.0			7.10
	PCB-1260	70.8	48.6	50.0			2.90
	Pendimethalin	83.4	106	95.1			10.5
	Pentabromotoluene	98.5	92.4	85.2			8.06
	Permethrin	45.3	59.0	55.3			6.56
	Phenothrin	62.2	76.5	77.1			0.768
	Phenytoin	17.7	24.5	24.9			1.39
	Phorate	107	89.3	89.8			0.505
	Piperonyl Butoxide	81.8	92.5	85.4			8.01
	Prallethrin	65.2	61.2	66.4			8.15
	Prodiamine	117	138	100			29.3
	Prometon	109	112	123			9.28
	Prometryn	120	130	121			7.70
	Pronamide	93.7	101	87.1			15.2
	Propanil	82.8	83.0	78.8			5.24
	Propargite	25.3	30.5	29.9			2.11
	Propiconazole	114	101	112			7.01
	Pyraflufen Ethyl	97.4	86.6	91.1			5.09
	Pyridaben	100	117	121			3.31
	Pyriproxyfen	263	232	218			6.14
	Simazine	87.4	79.2	82.6			2.15
	Stirophos	118	115	93.9			19.9
	Sulfentrazone	144	165	176			5.23
	Tau-Fluvalinate	76.8	92.4	98.5			6.33
	Tebuconazole	112					10.0
	Terbufos	106	112	97.5			14.0
	Terbuthylazine	89.8	89.6	87.2			2.66
	Tetradecachloro-m-terphenyl	57.5	49.0	56.9			14.9
	Tetramethrin	101	109	114			4.46
	Thiobencarb	93.4	97.8	95.8			1.98
	Trans-Nonachlor	63.5	82.2	80.1			2.57
	Tri-o-cresyl Phosphate	94.6	82.9	84.3			1.71
	Triadimefon	83.1	74.9	77.5			3.37
	Triclosan Methyl	74.8	82.0	86.0			4.72
	Trifluralin	67.0	71.0	72.0			1.39
	Tris(1-chloro-2-propyl) phosphate (TCPP)	119	108	103			2.69
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111	100	104			3.52
	Tris(2-chloroethyl) phosphate (TCEP)	118	103	112			8.93

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8276	Chlordane	79.1	59.5	60.6			1.81
	Toxaphene	85.0	40.7	45.2			5.98
EPA 8321B	2,4-D	122	97.0	110			12.5
	2,4,5-T	91.9	98.0	98.3			0.264
	3-Hydroxycarbofuran	79.8	59.8	45.8			26.5
	Acesulfame K	112	122	115			6.12
	Acetaminophen	113	114	118			3.77
	Acetamiprid	88.1	53.6	59.2			9.88
	Afidopyropen	60.2	73.1	39.7			59.2
	Aldicarb	59.9	47.4	58.0			20.1
	Aldicarb Sulfone	88.6	78.9	82.0			3.87
	Aldicarb Sulfoxide	94.3	30.2	30.9			2.36
	AMPA	102	73.1	67.5			7.93
	Bentazon	122	78.7	78.8			0.234
	Benzovindiflupyr	89.4	75.4	76.0			0.827
	Carbamazepine	85.4	58.2	60.3			3.60
	Carbaryl	72.4	48.4	55.4			13.5
	Carbofuran	72.0	47.8	48.6			1.68
	Clothianidin	87.3	77.9	81.3			4.19
	Dinotefuran	108	95.9	96.1			0.234
	Diuron	81.4	49.0	48.0			2.07
	Endothall	117	114	106			7.84
	Fenuron	91.3	56.5	58.0			2.70
	Fluridone	77.6	55.8	51.4			8.10
	Glufosinate	105	76.6	79.4			3.56
	Glyphosate	104	97.1	101			3.84
	Hydrocodone	86.6	73.8	74.6			1.12
	Ibuprofen	81.5	72.2	88.4			20.2
	Imazapyr	98.5	98.9	106			6.28
	Imidacloprid	104	101	106			5.33
	Linuron	74.9	62.1	61.3			1.28
	Mandestrobin	85.5	68.3	77.1			12.1
	MCPP	107	94.6	103			8.21
	Methiocarb	58.0	53.7	55.6			3.56
	Methomyl	93.8	63.7	65.6			2.96
	Naproxen	110	61.4	69.5			12.4
	Oxamyl	95.5	75.2	72.0			4.42
	Primidone	91.8	78.9	79.3			0.572
	Propoxur	64.3	44.3	45.8			3.24
	Pyraclostrobin	81.1	70.8	71.2			0.485
	Silvex	106	103	109			4.93
	Sucralose	108	98.2	105			6.93
	Thiamethoxam	97.0	84.1	81.4			3.22
	Tolfenpyrad	58.8	52.6	51.0			3.12
	Triclopyr	106	104	104			0.455
SM 2320 B-2011	Total Alkalinity	97.5				1.04	
SM 2540 C-2015	TDS	94.2				4.49	
SM 2540 D-2015	TSS	93.3					
SM 4500-F- C-2011	Fluoride	100	98.8	98.2			0.482
SM 5310 B-2011	Organic Carbon	94.1	94.5	95.9			0.996

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2389573, 2389576, 2389577
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2389573, 2389576, 2389577
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2389573, 2389576, 2389577
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2389573, 2389576, 2389577
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2389574, 2389578, 2389579
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2389574, 2389578, 2389579
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2389574, 2389578, 2389579
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2389574, 2389578, 2389579
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2389575
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2389596
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2389595
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2389596
EPA 8270E	PCBs in water matrices by GC/MS/MS	2389595
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2389595
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2389593
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2389594
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2389573, 2389576, 2389577
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2389573, 2389576, 2389577
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2389573, 2389576, 2389577
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2389573, 2389576, 2389577
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2389574, 2389578, 2389579

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	02/23/2023			02/23/2023 14:10	Alexis Price	2389573, 2389576
	02/23/2023			02/23/2023 14:11	Alexis Price	2389577
EPA 180.1 Rev. 2.0	02/23/2023			02/23/2023 14:28	Khloe J Berg	2389573
	02/23/2023			02/23/2023 14:29	Khloe J Berg	2389576
	02/23/2023			02/23/2023 14:32	Khloe J Berg	2389577
EPA 300.0 Rev. 2.1	02/23/2023			03/04/2023 00:39	Judith K. Clark	2389573
	02/23/2023			03/04/2023 02:39	Judith K. Clark	2389576
	02/23/2023			03/04/2023 02:54	Judith K. Clark	2389577
EPA 350.1 Rev. 2.0	02/23/2023			02/28/2023 11:47	Khloe J Berg	2389574
	02/23/2023			02/28/2023 11:56	Khloe J Berg	2389578
	02/23/2023			02/28/2023 11:58	Khloe J Berg	2389579
EPA 351.2 Rev. 2.0	02/23/2023	03/07/2023 09:18	Simonne.V. Calhoun	03/08/2023 16:13	Judith K. Clark	2389574
	02/23/2023	03/07/2023 09:18	Simonne.V. Calhoun	03/08/2023 16:14	Judith K. Clark	2389578
	02/23/2023	03/07/2023 09:18	Simonne.V. Calhoun	03/08/2023 16:15	Judith K. Clark	2389579
EPA 353.2 Rev. 2.0	02/23/2023			02/28/2023 11:55	Beverly Y. Sanders	2389574
	02/23/2023			02/28/2023 11:56	Beverly Y. Sanders	2389578
	02/23/2023			02/28/2023 11:57	Beverly Y. Sanders	2389579
EPA 365.1 Rev. 2.0	02/23/2023	02/28/2023 17:21	Adam P Silver	03/04/2023 09:15	James L Waggerby	2389578
	02/23/2023	03/10/2023 13:50	Adam P Silver	03/14/2023 13:41	James L Waggerby	2389574
	02/23/2023	03/10/2023 13:50	Adam P Silver	03/14/2023 13:42	James L Waggerby	2389579
EPA 365.1 Rev. 2.0 dissolved	02/23/2023			02/23/2023 14:48	Elise M. Gillis	2389575
EPA 8270E	02/23/2023	02/28/2023 08:00	Fe-Val Siddell	03/02/2023 21:49	Michael Poppell	2389596
	02/23/2023	02/28/2023 08:00	Fe-Val Siddell	03/06/2023 17:11	Michael Poppell	2389596
	02/23/2023	02/28/2023 08:00	Fe-Val Siddell	03/06/2023 17:37	Michael Poppell	2389596
	02/23/2023	02/28/2023 08:00	Fe-Val Siddell	03/07/2023 19:33	Arthur Maknenko	2389596
	02/23/2023	02/28/2023 09:00	Julie Wi	03/02/2023 19:37	Vandana T. Nagar	2389595
	02/23/2023	02/28/2023 09:00	Julie Wi	03/02/2023 20:38	Vandana T. Nagar	2389595
EPA 8276	02/23/2023	02/28/2023 09:00	Julie Wi	03/04/2023 02:16	Lipi Saha	2389595
EPA 8321B	02/23/2023	02/24/2023 10:00	Manjita Shrestha	02/24/2023 13:50	Manjita Shrestha	2389594
	02/23/2023	02/24/2023 10:00	Manjita Shrestha	02/24/2023 20:12	Manjita Shrestha	2389594
	02/23/2023	02/27/2023 09:00	Hoor Shaik	02/27/2023 19:25	Juyoung Kim	2389593
	02/23/2023	03/01/2023 09:00	Hoor Shaik	03/01/2023 18:05	Juyoung Kim	2389594
	02/23/2023	03/01/2023 09:00	Hoor Shaik	03/03/2023 20:30	Juyoung Kim	2389594
	02/23/2023	03/03/2023 09:00	Hoor Shaik	03/04/2023 00:34	Juyoung Kim	2389594
SM 2320 B-2011	02/23/2023			03/01/2023 20:53	Dale L. Simmons	2389573
	02/23/2023			03/01/2023 21:06	Dale L. Simmons	2389576
	02/23/2023			03/01/2023 21:18	Dale L. Simmons	2389577
SM 2540 C-2015	02/23/2023			02/27/2023 16:17	Yijie Li	2389573, 2389576, 2389577
SM 2540 D-2015	02/23/2023			02/27/2023 16:17	Yijie Li	2389573, 2389576, 2389577
SM 4500-F- C-2011	02/23/2023			03/01/2023 20:53	Dale L. Simmons	2389573

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500-F- C-2011	02/23/2023			03/01/2023 21:06	Dale L. Simmons	2389576
	02/23/2023			03/01/2023 21:18	Dale L. Simmons	2389577
SM 5310 B-2011	02/23/2023			03/06/2023 16:15	Elise M. Gillis	2389574
	02/23/2023			03/06/2023 16:29	Elise M. Gillis	2389578
	02/23/2023			03/06/2023 17:11	Elise M. Gillis	2389579