Chemical Analysis Report

SW-DIST-2023-12-15-01

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

Event Description: **Run 16**
Request ID: **RQ-2023-12-11-20**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

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

Certified by: Colin Wright, Program Administrator

Date Certified: 12-JAN-2024 09:23

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: MAPLE CREEK AT WAUCHULA RD **Collection Date/Time: 12/14/2023 10:05**

Field ID: G3SW0087 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457296	DEP SOP: NU-094-1	Color (true)	92		PCU	P439071	
	EPA 180.1 Rev. 2.0	Turbidity	4.7		NTU	P439075	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P439206	
		Sulfate	220		mg SO4/L	P439337	
	SM 2320 B-2011	Total Alkalinity	75		mg CaCO3/L	P439285	
	SM 2540 C-2015	TDS	419		mg/L	P439432	
	SM 2540 D-2015	TSS	6	I	mg/L	P439347	
	SM 4500-F- C-2011	Fluoride	0.29		mg F/L	P439291	
2457297	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P439220	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P439488	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P439165	
	EPA 365.1 Rev. 2.0	Total-P	0.29		mg P/L	P439253	
	SM 5310 B-2014	Organic Carbon	23		mg C/L	P439430	
2457304	EPA 8321B	Aldicarb	0.020	U	ug/L	P438952	
		Aldicarb Sulfone	0.0020	U	ug/L	P438952	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P438952	
		Carbaryl	0.0020	U	ug/L	P438952	
		Carbofuran	0.0020	U	ug/L	P438952	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P438952	
		Methiocarb	0.0020	U	ug/L	P438952	
		Methomyl	0.0020	U	ug/L	P438952	
		Oxamyl	0.0020	U	ug/L	P438952	
		Propoxur	0.0020	U	ug/L	P438952	
2457305		Acesulfame K	0.10	U	ug/L	P439028	
		2,4-D	0.0022	I	ug/L	P439060	
		AMPA	0.10	U	ug/L	P439028	
		2,4,5-T	0.0040	U	ug/L	P439060	
		Acetaminophen	0.0080	U	ug/L	P439060	
		Endothall	0.25	U	ug/L	P439028	
		Acetamiprid	0.0020	U	ug/L	P439060	
		Glufosinate	0.10	U	ug/L	P439028	
		Glyphosate	0.10	U	ug/L	P439028	
		Afidopyropen	0.0020	U	ug/L	P439060	
		Sucralose	0.010	U	ug/L	P439028	
		Bentazon	8.0E-04	U	ug/L	P439060	
		Benzovindiflupyr	0.0020	U	ug/L	P439060	
		Carbamazepine	8.0E-04	U	ug/L	P439060	
		Clothianidin	0.0020	U	ug/L	P439060	
		Dinotefuran	0.0020	U	ug/L	P439060	
		Diuron	0.0020	U	ug/L	P439060	
		Fenuron	0.032	U	ug/L	P439060	
		Fluridone	8.0E-04	U	ug/L	P439060	
		Imazapyr	0.0040	U	ug/L	P439060	
		Hydrocodone	0.0020	U	ug/L	P439060	

Field ID: G3SW0087 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457305	EPA 8321B	Ibuprofen	0.080	U	ug/L	P439060	
		Imidacloprid	0.023		ug/L	P439060	
		Linuron	0.0040	U	ug/L	P439060	
		Mandestrobin	0.0020	U	ug/L	P439060	
		MCPP	0.0020	U	ug/L	P439060	
		Naproxen	0.0080	U	ug/L	P439060	
		Primidone	0.0040	U	ug/L	P439060	
		Pyraclostrobin	0.0020	U	ug/L	P439060	
		Silvex	0.0040	U	ug/L	P439060	
		Thiamethoxam	0.0020	U	ug/L	P439060	
		Tolfenpyrad	0.0020	U	ug/L	P439060	
		Triclopyr	0.0040	U	ug/L	P439060	
2457307	EPA 8270E	Aldrin	0.67	U	ng/L	P439309	
		Alpha-BHC	0.11	I	ng/L	P439309	
		Alpha-Chlordane	0.21	U	ng/L	P439309	
		PCB-1016	2.1	U	ng/L	P439309	
		Beta-BHC	0.10	U	ng/L	P439309	
		PCB-1221	2.1	U	ng/L	P439309	
		Beta-Cyfluthrin	1.3	U	ng/L	P439309	
		PCB-1232	2.1	U	ng/L	P439309	
		Bifenthrin	0.51	U	ng/L	P439309	
		PCB-1242	2.1	U	ng/L	P439309	
		Carbophenothion	0.93	U	ng/L	P439309	
		PCB-1248	2.1	U	ng/L	P439309	
		Chlorothalonil	3.7	U	ng/L	P439309	
		PCB-1254	2.1	U	ng/L	P439309	
		Cis-Nonachlor	0.21	U	ng/L	P439309	
		PCB-1260	2.1	U	ng/L	P439309	
		Cypermethrin	1.5	U	ng/L	P439309	
		Dacthal	0.15	U	ng/L	P439309	
		DDD-p,p'	0.26	U	ng/L	P439309	
		DDE-p,p'	0.21	U	ng/L	P439309	
		DDT-p,p'	0.82	U	ng/L	P439309	
		Delta-BHC	0.41	U	ng/L	P439309	
		Deltamethrin	1.3	U	ng/L	P439309	
		Dichlobenil	0.26	U	ng/L	P439309	
		Dicofol	1.3	U	ng/L	P439309	
		Dieldrin	0.41	U	ng/L	P439309	
		Endosulfan I	0.41	U	ng/L	P439309	
		Endosulfan II	0.93	U	ng/L	P439309	
		Endosulfan Sulfate	0.31	U	ng/L	P439309	
		Endrin	0.93	U	ng/L	P439309	
		Endrin Aldehyde	0.77	U	ng/L	P439309	
		Endrin Ketone	0.41	U	ng/L	P439309	
		Esfenvalerate	0.77	U	ng/L	P439309	

Field ID: G3SW0087 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457307	EPA 8270E	Ethalfluralin	0.15	U	ng/L	P439309	
		Fenpropathrin	0.26	U	ng/L	P439309	
		Gamma-BHC	0.13	U	ng/L	P439309	
		Gamma-Chlordane	0.21	U	ng/L	P439309	
		Heptachlor	0.21	U	ng/L	P439309	
		Heptachlor Epoxide	0.26	U	ng/L	P439309	
		Hexachlorobenzene**	1.0	U	ng/L	P439309	
		Kepone	14	U	ng/L	P439309	
		Lambda-Cyhalothrin	0.77	U	ng/L	P439309	
		Methoprene	0.77	U	ng/L	P439309	
		Methoxychlor	0.31	U	ng/L	P439309	
		MGK-264	0.21	U	ng/L	P439309	
		Mirex	0.36	U	ng/L	P439309	
		Oxychlordane	0.31	U	ng/L	P439309	
		Permethrin	1.6	U	ng/L	P439309	
		Phenothrin	0.93	U	ng/L	P439309	
		Piperonyl Butoxide	0.58	I	ng/L	P439309	
		Prallethrin	2.1	U	ng/L	P439309	
		Tau-Fluvalinate	0.26	U	ng/L	P439309	
		Tetramethrin	0.77	U	ng/L	P439309	
		Trans-Nonachlor	0.21	U	ng/L	P439309	
		Triclosan Methyl	0.15	U	ng/L	P439309	
		Trifluralin	0.21	U	ng/L	P439309	
	EPA 8276	Chlordane	2.1	U	ng/L	P439309	
		Toxaphene	15	U	ng/L	P439309	
2457308	EPA 8270E	Oxybenzone**	11	U	ng/L	P439022	
		Acetochlor	0.21	U	ng/L	P439022	
		Octinoxate**	160	U	ng/L	P439022	
		Alachlor	0.42	U	ng/L	P439022	
		Avobenzone**	110	U	ng/L	P439022	
		Ametryn	1.2	U	ng/L	P439022	
		Atrazine	1.6		ng/L	P439022	
		PBDE-47**	4.2	U	ng/L	P439022	
		Atrazine Desethyl	1.4	U	ng/L	P439022	
		PBDE-99**	5.3	U	ng/L	P439022	
		Azinphos Methyl	3.2	U	ng/L	P439022	
		Tri-o-cresyl Phosphate**	6.4	U	ng/L	P439022	
		Azoxystrobin	0.42	U	ng/L	P439022	
		Bromacil	3.7		ng/L	P439022	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P439022	
		Butylate	0.48	U	ng/L	P439022	
		Dechlorane Plus**	32	U	ng/L	P439022	
		Caffeine**	7.9	U	ng/L	P439022	
		Dechlorane 602**	5.3	U	ng/L	P439022	

Field ID: G3SW0087 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457308	EPA 8270E	Carbophenothion	0.53	U	ng/L	P439022	
		Dechlorane 603**	4.2	U	ng/L	P439022	
		Carfentrazone Ethyl	0.16	U	ng/L	P439022	
		Hexabromobenzene**	6.4	U	ng/L	P439022	
		Chlorfenapyr	0.32	U	ng/L	P439022	
		PBB-153**	6.4	U	ng/L	P439022	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P439022	
		Pentabromotoluene**	3.2	U	ng/L	P439022	
		Chlorpyrifos Methyl	0.11	UJ	ng/L	P439022	LCS
		Tris(2-chloroethyl) phosphate (TCEP)**	58	UJ	ng/L	P439022	MS
		Coumaphos	1.1	U	ng/L	P439022	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	37	I	ng/L	P439022	
		Cyanazine	5.3	UJ	ng/L	P439022	CCV
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.8	I	ng/L	P439022	
		Cyprodinil	0.21	U	ng/L	P439022	
		Tetradecachloro-m-terphenyl**	7.9	U	ng/L	P439022	
		Demeton	3.7	U	ng/L	P439022	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	64	U	ng/L	P439022	
		Diazinon	0.13	U	ng/L	P439022	
		Difenoconazole	0.64	U	ng/L	P439022	
		Dimethenamid	0.11	U	ng/L	P439022	
		Dimethomorph	0.32	U	ng/L	P439022	
		Disulfoton	0.64	U	ng/L	P439022	
		Dithiopyr	1.1	UJ	ng/L	P439022	CCV, LCS
		EPTC	0.53	U	ng/L	P439022	
		Ethion	0.32	U	ng/L	P439022	
		Ethoprop	0.13	U	ng/L	P439022	
		Etridiazole	0.11	U	ng/L	P439022	
		Fenamiphos	0.48	U	ng/L	P439022	
		Fenbuconazole	0.53	U	ng/L	P439022	
		Fipronil	0.21	U	ng/L	P439022	
		Fipronil Desulfinyl**	0.11	U	ng/L	P439022	
		Fipronil Sulfide	0.11	U	ng/L	P439022	
		Fipronil Sulfone	0.11	U	ng/L	P439022	
		Fluazifop-P-butyl	0.11	U	ng/L	P439022	
		Fludioxonil	0.11	U	ng/L	P439022	
		Flumioxazin	3.2	U	ng/L	P439022	
		Flutolanil	0.11	U	ng/L	P439022	
		Fluxapyroxad	0.26	U	ng/L	P439022	
		Fonofos	0.16	U	ng/L	P439022	
		Hexazinone	0.53	U	ng/L	P439022	
		Imazalil	0.69	U	ng/L	P439022	
		Iprodione	0.53	U	ng/L	P439022	
		Loratadine**	0.32	U	ng/L	P439022	

Field ID: G3SW0087 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457308	EPA 8270E	Malathion	0.37	U	ng/L	P439022	
		Metalaxyl	0.53	U	ng/L	P439022	
		Metolachlor	0.98	I J	ng/L	P439022	LCS
		Metribuzin	0.84	I	ng/L	P439022	
		Mevinphos	1.1	U	ng/L	P439022	
		Molinate	0.26	U	ng/L	P439022	
		Myclobutanil	0.37	U	ng/L	P439022	
		Naled	2.6	U	ng/L	P439022	
		Napropamide	0.74	U	ng/L	P439022	
		Norflurazon	68		ng/L	P439022	
		Oxadiazon	0.37	U	ng/L	P439022	
		Oxyfluorfen	0.21	U	ng/L	P439022	
		Parathion Ethyl	0.16	U	ng/L	P439022	
		Parathion Methyl	0.21	U	ng/L	P439022	
		Pendimethalin	1.8	U	ng/L	P439022	
		Phenytoin**	5.6	U	ng/L	P439022	
		Phorate	0.26	U	ng/L	P439022	
		Prodiamine	0.30	I	ng/L	P439022	
		Prometon	3.2	U	ng/L	P439022	
		Prometryn	0.37	U	ng/L	P439022	
		Pronamide	0.11	U	ng/L	P439022	
		Propanil	0.11	U	ng/L	P439022	
		Propargite	0.85	U	ng/L	P439022	
		Propiconazole	0.64	U	ng/L	P439022	
		Pyraflufen Ethyl	0.32	UJ	ng/L	P439022	CCV
		Pyridaben	1.5	UJ	ng/L	P439022	CCV
		Pyriproxyfen	0.26	U	ng/L	P439022	
		Simazine	0.26	U	ng/L	P439022	
		Stirophos	0.42	U	ng/L	P439022	
		Sulfentrazone	1.5	U	ng/L	P439022	
		Tebuconazole	1.5	U	ng/L	P439022	
		Terbufos	0.21	U	ng/L	P439022	
		Terbuthylazine	0.21	UJ	ng/L	P439022	LCS, MS
		Thiobencarb	0.53	U	ng/L	P439022	
		Triadimefon	0.16	UJ	ng/L	P439022	LCS

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for glyphosate could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for norflurazon not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: OWEN CREEK **Collection Date/Time: 12/14/2023 10:50**

Field ID: G3SW0053 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457303	EPA 8321B	Acesulfame K	0.10	U	ug/L	P439028	
		2,4-D	0.0020	U	ug/L	P439060	
		AMPA	0.10	U	ug/L	P439028	
		2,4,5-T	0.0040	U	ug/L	P439060	
		Acetaminophen	0.0080	U	ug/L	P439060	
		Endothall	0.25	U	ug/L	P439028	
		Acetamiprid	0.0020	U	ug/L	P439060	
		Glufosinate	0.10	U	ug/L	P439028	
		Glyphosate	0.10	U	ug/L	P439028	
		Afidopyropen	0.0020	U	ug/L	P439060	
		Sucralose	0.010	U	ug/L	P439028	
		Bentazon	0.0015	I	ug/L	P439060	
		Benzovindiflupyr	0.0020	U	ug/L	P439060	
		Carbamazepine	8.0E-04	U	ug/L	P439060	
		Clothianidin	0.0020	U	ug/L	P439060	
		Dinotefuran	0.015		ug/L	P439060	
		Diuron	0.0020	U	ug/L	P439060	
		Fenuron	0.032	U	ug/L	P439060	
		Fluridone	8.0E-04	U	ug/L	P439060	
		Imazapyr	0.0075	I	ug/L	P439060	
		Hydrocodone	0.0020	U	ug/L	P439060	
		Ibuprofen	0.080	U	ug/L	P439060	
		Imidacloprid	0.0020	U	ug/L	P439060	
		Linuron	0.0040	U	ug/L	P439060	
		Mandestrobin	0.0020	U	ug/L	P439060	
		MCPP	0.0020	U	ug/L	P439060	
		Naproxen	0.0080	U	ug/L	P439060	
		Primidone	0.0040	U	ug/L	P439060	
		Pyraclostrobin	0.0020	U	ug/L	P439060	
		Silvex	0.0040	U	ug/L	P439060	
		Thiamethoxam	0.0020	U	ug/L	P439060	
		Tolfenpyrad	0.0020	U	ug/L	P439060	
		Triclopyr	0.0040	U	ug/L	P439060	

Ref. Method and Comment:
EPA 8321B: MS accuracy for glyphosate could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: GILLEY CREEK DOWNSTREAM **Collection Date/Time: 12/14/2023 11:50**

Field ID: G2SW0039 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457294	DEP SOP: NU-094-1	Color (true)	51	A	PCU	P439071	
	EPA 180.1 Rev. 2.0	Turbidity	2.0	A	NTU	P439075	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P439205	
		Sulfate	28		mg SO4/L	P439409	
	SM 2320 B-2011	Total Alkalinity	35		mg CaCO3/L	P439285	
	SM 2540 C-2015	TDS	110		mg/L	P439432	
	SM 2540 D-2015	TSS	2	U	mg/L	P439347	
	SM 4500-F- C-2011	Fluoride	0.26		mg F/L	P439291	
2457295	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P439220	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.34		mg N/L	P439488	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.96		mg N/L	P439165	
	EPA 365.1 Rev. 2.0	Total-P	0.31		mg P/L	P439253	
	SM 5310 B-2014	Organic Carbon	7.7		mg C/L	P439430	
2457306	EPA 8270E	Oxybenzone**	10	U	ng/L	P439022	
		Acetochlor	0.21	U	ng/L	P439022	
		Octinoxate**	160	U	ng/L	P439022	
		Alachlor	0.42	U	ng/L	P439022	
		Avobenzone**	100	U	ng/L	P439022	
		Ametryn	1.2	U	ng/L	P439022	
		Atrazine	0.61	I	ng/L	P439022	
		PBDE-47**	4.2	U	ng/L	P439022	
		Atrazine Desethyl	1.4	U	ng/L	P439022	
		PBDE-99**	5.2	U	ng/L	P439022	
		Azinphos Methyl	3.1	U	ng/L	P439022	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P439022	
		Azoxystrobin	0.42	U	ng/L	P439022	
		Bromacil	10		ng/L	P439022	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P439022	
		Butylate	0.47	U	ng/L	P439022	
		Dechlorane Plus**	31	U	ng/L	P439022	
		Caffeine**	7.8	U	ng/L	P439022	
		Dechlorane 602**	5.2	U	ng/L	P439022	
		Carbophenothion	0.52	U	ng/L	P439022	
		Dechlorane 603**	4.2	U	ng/L	P439022	
		Carfentrazone Ethyl	0.16	U	ng/L	P439022	
		Hexabromobenzene**	6.3	U	ng/L	P439022	
		Chlorfenapyr	0.31	U	ng/L	P439022	
		PBB-153**	6.3	U	ng/L	P439022	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P439022	
		Pentabromotoluene**	3.1	U	ng/L	P439022	
		Chlorpyrifos Methyl	0.10	UJ	ng/L	P439022	LCS
		Tris(2-chloroethyl) phosphate (TCEP)**	58	U	ng/L	P439022	MS
		Coumaphos	1.1	U	ng/L	P439022	

Field ID: G2SW0039 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457306	EPA 8270E	Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P439022	
		Cyanazine	5.2	UJ	ng/L	P439022	CCV
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	3.2	I	ng/L	P439022	
		Cyprodinil	0.21	U	ng/L	P439022	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P439022	
		Demeton	3.7	U	ng/L	P439022	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	63	U	ng/L	P439022	
		Diazinon	0.13	U	ng/L	P439022	
		Difenoconazole	0.63	U	ng/L	P439022	
		Dimethenamid	0.10	U	ng/L	P439022	
		Dimethomorph	0.31	U	ng/L	P439022	
		Disulfoton	0.63	U	ng/L	P439022	
		Dithiopyr	1.0	UJ	ng/L	P439022	CCV, LCS
		EPTC	0.52	U	ng/L	P439022	
		Ethion	0.31	U	ng/L	P439022	
		Ethoprop	0.13	U	ng/L	P439022	
		Etridiazole	0.10	U	ng/L	P439022	
		Fenamiphos	0.47	U	ng/L	P439022	
		Fenbuconazole	0.52	U	ng/L	P439022	
		Fipronil	0.21	U	ng/L	P439022	
		Fipronil Desulfinyl**	0.10	U	ng/L	P439022	
		Fipronil Sulfide	0.10	U	ng/L	P439022	
		Fipronil Sulfone	0.10	U	ng/L	P439022	
		Fluazifop-P-butyl	0.10	U	ng/L	P439022	
		Fludioxonil	0.10	U	ng/L	P439022	
		Flumioxazin	3.1	U	ng/L	P439022	
		Flutolanil	0.10	U	ng/L	P439022	
		Fluxapyroxad	1.9		ng/L	P439022	
		Fonofos	0.16	U	ng/L	P439022	
		Hexazinone	0.52	U	ng/L	P439022	
		Imazalil	0.68	U	ng/L	P439022	
		Iprodione	0.52	U	ng/L	P439022	
		Loratadine**	0.31	U	ng/L	P439022	
		Malathion	0.37	U	ng/L	P439022	
		Metalaxyl	0.52	U	ng/L	P439022	
		Metolachlor	0.78	UJ	ng/L	P439022	LCS
		Metribuzin	0.42	U	ng/L	P439022	
		Mevinphos	1.0	U	ng/L	P439022	
		Molinate	0.26	U	ng/L	P439022	
		Myclobutanil	0.37	U	ng/L	P439022	
		Naled	2.6	U	ng/L	P439022	
		Napropamide	0.73	U	ng/L	P439022	
		Norflurazon	170		ng/L	P439022	
		Oxadiazon	0.37	U	ng/L	P439022	

Field ID: G2SW0039 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2457306	EPA 8270E	Oxyfluorfen	0.21	U	ng/L	P439022	
		Parathion Ethyl	0.16	U	ng/L	P439022	
		Parathion Methyl	0.21	U	ng/L	P439022	
		Pendimethalin	1.8	U	ng/L	P439022	
		Phenytoin**	5.5	U	ng/L	P439022	
		Phorate	0.26	U	ng/L	P439022	
		Prodiamine	0.21	U	ng/L	P439022	
		Prometon	3.1	U	ng/L	P439022	
		Prometryn	0.37	U	ng/L	P439022	
		Pronamide	0.10	U	ng/L	P439022	
		Propanil	0.10	U	ng/L	P439022	
		Propargite	0.84	U	ng/L	P439022	
		Propiconazole	0.63	U	ng/L	P439022	
		Pyraflufen Ethyl	0.31	UJ	ng/L	P439022	CCV
		Pyridaben	1.5	UJ	ng/L	P439022	CCV
		Pyriproxyfen	0.26	U	ng/L	P439022	
		Simazine	0.26	U	ng/L	P439022	
		Stirophos	0.42	U	ng/L	P439022	
		Sulfentrazone	1.5	U	ng/L	P439022	
		Tebuconazole	1.5	U	ng/L	P439022	
		Terbufos	0.21	U	ng/L	P439022	
		Terbuthylazine	0.21	UJ	ng/L	P439022	LCS, MS
		Thiobencarb	0.52	U	ng/L	P439022	
		Triadimefon	0.16	UJ	ng/L	P439022	LCS

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: MS accuracy for norflurazon not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P439071

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P439075

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439205

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439206

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439337

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439409

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439220

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439488

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439165

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439253

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

Reference Method: EPA 8270E
Batch ID: P439022

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P439022

Component	Result	Code	Units
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
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	12	I	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P439309

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
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	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
Ethalfluralin	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P439309

Component	Result	Code	Units
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

Reference Method: EPA 8276
Batch ID: P439309

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

Reference Method: EPA 8321B
Batch ID: P438952

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: P439028

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: P439060

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P439060

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: SM 2320 B-2011
Batch ID: P439285

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

Reference Method: SM 2540 C-2015
Batch ID: P439432

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P439347

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P439291

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P439430

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: P439071

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.5		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P439075

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439205

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439206

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	107		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439337

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439409

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439220

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439488

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439165

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.5		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439253

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

Reference Method: EPA 8270E
Batch ID: P439022

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	89.4		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.9		P	37 - 154
Acetochlor	68.2		P	64 - 124
Alachlor	66.9		P	61 - 118
Ametryn	93.7		P	47 - 158
Atrazine	109		P	68 - 121
Atrazine Desethyl	73.6		P	30 - 119
Avobenzone	112		P	48 - 193
Azinphos Methyl	119		P	30 - 194
Azoxystrobin	102		P	58 - 154
Bromacil	65.0		P	47 - 126
Butylate	61.2		P	31 - 83.0
Caffeine	108		P	10 - 180
Carbophenothion	64.2		P	59 - 133
Carfentrazone Ethyl	128		P	59 - 147
Chlorfenapyr	63.7		P	52 - 118
Chlorpyrifos Ethyl	61.9		P	59 - 119
Chlorpyrifos Methyl	63.4		F	65 - 123
Coumaphos	137		P	11 - 223
Cyanazine	165		P	63 - 250
Cyprodinil	87.1		P	52 - 143
Dechlorane 602	57.2		P	23 - 142
Dechlorane 603	95.2		P	51 - 171
Dechlorane Plus	99.9		P	46 - 161
Demeton	114		P	42 - 119
Diazinon	70.1		P	67 - 132
Difenoconazole	101		P	12 - 204
Dimethenamid	71.6		P	53 - 113
Dimethomorph	158		P	13 - 238
Disulfoton	73.0		P	56 - 126
Dithiopyr	56.4		F	58 - 127
EPTC	59.2		P	31 - 78.0
Ethion	81.4		P	24 - 127
Ethoprop	95.5		P	60 - 118
Etridiazole	66.3		P	32 - 91.0
Fenamiphos	85.7		P	54 - 129
Fenbuconazole	130		P	31 - 162
Fipronil	66.2		P	56 - 131
Fipronil Desulfinyl	98.6		P	58 - 132
Fipronil Sulfide	64.3		P	51 - 123
Fipronil Sulfone	77.4		P	50 - 125
Fluazifop-P-butyl	82.9		P	52 - 132
Fludioxonil	65.4		P	52 - 129
Flumioxazin	124		P	34 - 250
Flutolanil	70.2		P	45 - 128
Fluxapyroxad	107		P	31 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P439022

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fonofos	75.3		P	60 - 116
Hexabromobenzene	75.2		P	52 - 165
Hexazinone	90.2		P	59 - 120
Imazalil	78.0		P	39 - 134
Iprodione	81.5		P	39 - 243
Loratadine	144		P	10 - 240
Malathion	112		P	53 - 145
Metalaxyl	94.0		P	59 - 120
Metolachlor	60.5		F	64 - 122
Metribuzin	105		P	33 - 128
Mevinphos	73.1		P	48 - 119
Molinate	69.2		P	42 - 89.0
Myclobutanil	87.6		P	54 - 129
Naled	64.7		P	10 - 138
Napropamide	48.2		P	40 - 122
Norflurazon	67.1		P	49 - 132
Octinoxate	90.0		P	29 - 176
Oxadiazon	60.5		P	50 - 115
Oxybenzone	104		P	45 - 145
Oxyfluorfen	85.7		P	62 - 149
Parathion Ethyl	105		P	68 - 119
Parathion Methyl	118		P	68 - 147
PBB-153	95.3		P	42 - 179
PBDE-47	76.9		P	44 - 141
PBDE-99	79.8		P	36 - 141
Pendimethalin	115		P	59 - 158
Pentabromotoluene	83.3		P	58 - 148
Phenytoin	15.3		P	10 - 151
Phorate	70.0		P	44 - 124
Prodiamine	62.2		P	10 - 136
Prometon	91.2		P	45 - 131
Prometryn	96.5		P	52 - 140
Pronamide	77.0		P	70 - 129
Propanil	115		P	54 - 144
Propargite	53.3		P	10 - 191
Propiconazole	83.9		P	49 - 128
Pyraflufen Ethyl	114		P	46 - 141
Pyridaben	131		P	29 - 198
Pyriproxyfen	133		P	33 - 221
Simazine	109		P	62 - 119
Stirophos	48.8		P	13 - 144
Sulfentrazone	99.9		P	12 - 152
Tebuconazole	57.7		P	10 - 135
Terbufos	83.2		P	67 - 136
Terbuthylazine	59.0		F	66 - 113
Tetradecachloro-m-terphenyl	150		P	30 - 235
Thiobencarb	66.8		P	51 - 125
Tri-o-cresyl Phosphate	97.8		P	50 - 150
Triadimefon	52.4		F	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	134		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	113		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	141		P	59 - 166

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P439309

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	56.3		P	30 - 96.0
Alpha-BHC	87.8		P	70 - 109
Alpha-Chlordane	69.3		P	45 - 107
Beta-BHC	88.2		P	64 - 138
Beta-Cyfluthrin	83.0		P	17 - 141
Bifenthrin	63.9		P	10 - 113
Carbophenothion	66.2		P	24 - 91.0
Chlorothalonil	81.3		P	26 - 180
Cis-Nonachlor	68.6		P	37 - 102
Cypermethrin	107		P	20 - 133
Dacthal	80.3		P	69 - 114
DDD-p,p'	66.7		P	42 - 105
DDE-p,p'	70.3		P	42 - 106
DDT-p,p'	87.8		P	42 - 107
Delta-BHC	107		P	67 - 144
Deltamethrin	89.6		P	15 - 149
Dichlobenil	61.8		P	46 - 117
Dicofol	72.0		P	34 - 114
Dieldrin	73.2		P	50 - 108
Endosulfan I	103		P	55 - 104
Endosulfan II	82.2		P	51 - 111
Endosulfan Sulfate	101		P	56 - 121
Endrin	77.2		P	10 - 106
Endrin Aldehyde	74.2		P	34 - 114
Endrin Ketone	80.6		P	63 - 177
Esfenvalerate	73.2		P	29 - 143
Ethalfluralin	86.1		P	46 - 96.0
Fenpropathrin	80.5		P	28 - 115
Gamma-BHC	101		P	65 - 121
Gamma-Chlordane	64.0		P	39 - 103
Heptachlor	58.2		P	39 - 94.0
Heptachlor Epoxide	71.0		P	54 - 104
Hexachlorobenzene	77.9		P	36 - 100
Kepone	96.5		P	10 - 225
Lambda-Cyhalothrin	76.8		P	10 - 135
Methoprene	69.1		P	10 - 109
Methoxychlor	84.4		P	52 - 112
MGK-264	59.6		P	44 - 117
Mirex	67.7		P	20 - 90.0
Oxychlordane	83.9		P	44 - 102
PCB-1016	68.1		P	45 - 107
PCB-1260	76.9		P	40 - 118
Permethrin	75.8		P	18 - 135
Phenothrin	65.9		P	10 - 102
Piperonyl Butoxide	116		P	28 - 156
Prallethrin	75.1		P	28 - 113
Tau-Fluvalinate	66.9		P	10 - 123
Tetramethrin	72.3		P	18 - 158
Trans-Nonachlor	89.8		P	39 - 104
Triclosan Methyl	73.2		P	54 - 108
Trifluralin	74.5		P	46 - 97.0

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P439309

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	90.6		P	52 - 117
Toxaphene	110		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P438952

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	62.1		P	40 - 150
Aldicarb	60.9		P	30 - 150
Aldicarb Sulfone	88.5		P	40 - 150
Aldicarb Sulfoxide	103		P	40 - 150
Carbaryl	62.5		P	40 - 150
Carbofuran	65.7		P	40 - 150
Methiocarb	51.5		P	40 - 150
Methomyl	78.9		P	40 - 150
Oxamyl	81.3		P	40 - 150
Propoxur	63.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P439028

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	133		P	40 - 150
AMPA	58.3		P	40 - 160
Endothall	45.4		P	40 - 160
Glufosinate	59.2		P	40 - 160
Glyphosate	47.4		P	40 - 160
Sucralose	83.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P439060

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	109		P	40 - 150
2,4,5-T	105		P	40 - 150
Acetaminophen	76.3		P	30 - 150
Acetamiprid	82.4		P	40 - 150
Afidopyropen	68.6		P	30 - 150
Bentazon	56.0		P	30 - 150
Benzovindiflupyr	78.4		P	40 - 150
Carbamazepine	70.7		P	40 - 150
Clothianidin	89.6		P	40 - 150
Dinotefuran	92.9		P	40 - 150
Diuron	66.7		P	40 - 150
Fenuron	140		P	40 - 150
Fluridone	82.1		P	40 - 150
Hydrocodone	89.3		P	40 - 150
Ibuprofen	68.4		P	40 - 150
Imazapyr	90.1		P	40 - 150
Imidacloprid	86.9		P	40 - 150
Linuron	66.5		P	40 - 150
Mandestrobin	84.5		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P439060

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
MCPP	96.3		P	40 - 150
Naproxen	66.0		P	40 - 150
Primidone	85.0		P	40 - 150
Pyraclostrobin	71.9		P	40 - 150
Silvex	84.7		P	40 - 150
Thiamethoxam	86.7		P	40 - 150
Tolfenpyrad	43.5		P	30 - 150
Triclopyr	121		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P439285

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P439432

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

Reference Method: SM 2540 D-2015
Batch ID: P439347

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.2		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P439291

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

Reference Method: SM 5310 B-2014
Batch ID: P439430

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	105		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457093	Chloride	100		P	90 - 110
2457262	Chloride	106		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439206

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457349	Chloride	100		P	90 - 110
2457703	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439337

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456443	Sulfate	98.6		P	90 - 110
2456503	Sulfate	98.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439409

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457040	Sulfate	100		P	90 - 110
2457220	Sulfate	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439220

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457266	Ammonia-N	96.6	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439488

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457268	Kjeldahl Nitrogen	103	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439165

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457227	NO2NO3-N	96.1	96.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439253

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457268	Total-P	108	109	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P439022

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P439022

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457308	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	93.3	87.2	P/P	50 - 150
2457308	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.0	91.8	P/P	29 - 155
2457308	Acetochlor	73.4	83.9	P/P	60 - 124
2457308	Alachlor	63.4	73.9	P/P	54 - 122
2457308	Ametryn	121	120	P/P	51 - 208
2457308	Atrazine	112	109	P/P	57 - 131
2457308	Atrazine Desethyl	56.7	69.8	P/P	13 - 124
2457308	Avobenzone	112	110	P/P	35 - 187
2457308	Azinphos Methyl	130	122	P/P	43 - 276
2457308	Azoxystrobin	106	119	P/P	52 - 300
2457308	Bromacil	59.3	88.6	P/P	44 - 134
2457308	Butylate	64.4	76.7	P/P	23 - 82.0
2457308	Caffeine	120	117	P/P	10 - 277
2457308	Carbophenothion	69.6	79.9	P/P	47 - 135
2457308	Carfentrazone Ethyl	141	129	P/P	46 - 147
2457308	Chlorfenapyr	62.0	75.3	P/P	43 - 114
2457308	Chlorpyrifos Ethyl	75.1	77.9	P/P	47 - 124
2457308	Chlorpyrifos Methyl	80.5	93.1	P/P	60 - 135
2457308	Coumaphos	147	173	P/P	10 - 222
2457308	Cyanazine	169	196	P/P	10 - 257
2457308	Cyprodinil	122	142	P/P	42 - 148
2457308	Dechlorane 602	58.9	51.0	P/P	14 - 133
2457308	Dechlorane 603	89.4	82.5	P/P	18 - 191
2457308	Dechlorane Plus	92.3	85.1	P/P	23 - 154
2457308	Demeton	134	117	P/P	41 - 137
2457308	Diazinon	74.9	93.6	P/P	64 - 139
2457308	Difenoconazole	111	120	P/P	46 - 254
2457308	Dimethenamid	82.6	93.8	P/P	47 - 117
2457308	Dimethomorph	168	169	P/P	14 - 255
2457308	Disulfoton	80.4	93.2	P/P	52 - 130
2457308	Dithiopyr	64.8	82.8	P/P	40 - 121
2457308	EPTC	62.6	64.9	P/P	19 - 78.0
2457308	Ethion	106	86.7	P/P	12 - 124
2457308	Ethoprop	99.9	99.1	P/P	68 - 144
2457308	Etridiazole	67.3	71.6	P/P	26 - 96.0
2457308	Fenamiphos	72.9	76.9	P/P	41 - 129
2457308	Fenbuconazole	118	146	P/P	26 - 169
2457308	Fipronil	75.1	91.7	P/P	46 - 145
2457308	Fipronil Desulfinyl	122	121	P/P	47 - 136
2457308	Fipronil Sulfide	77.4	86.4	P/P	41 - 127
2457308	Fipronil Sulfone	78.3	92.8	P/P	35 - 133
2457308	Fluazifop-P-butyl	77.2	88.8	P/P	46 - 131
2457308	Fludioxonil	91.7	90.1	P/P	51 - 124
2457308	Flumioxazin	126	147	P/P	10 - 289
2457308	Flutolanil	72.0	83.4	P/P	34 - 130
2457308	Fluxapyroxad	151	158	P/P	10 - 197
2457308	Fonofos	77.5	90.6	P/P	42 - 131
2457308	Hexabromobenzene	79.4	76.0	P/P	47 - 178
2457308	Hexazinone	95.8	98.3	P/P	64 - 125
2457308	Imazalil	72.8	89.5	P/P	37 - 252
2457308	Iprodione	109	113	P/P	34 - 265
2457308	Loratadine	177	173	P/P	20 - 231

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P439022

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457308	Malathion	133	136	P/P	34 - 164
2457308	Metalaxyl	106	110	P/P	49 - 125
2457308	Metolachlor	56.3	76.7	P/P	54 - 125
2457308	Metribuzin	105	110	P/P	51 - 139
2457308	Mevinphos	83.2	90.1	P/P	46 - 130
2457308	Molinate	78.1	83.3	P/P	39 - 93.0
2457308	Myclobutanil	98.2	93.6	P/P	50 - 130
2457308	Naled	63.8	68.6	P/P	10 - 150
2457308	Napropamide	57.7	62.3	P/P	10 - 109
2457308	Octinoxate	92.7	92.7	P/P	18 - 170
2457308	Oxadiazon	61.5	64.4	P/P	43 - 112
2457308	Oxybenzone	102	102	P/P	33 - 154
2457308	Oxyfluorfen	84.0	100	P/P	62 - 154
2457308	Parathion Ethyl	107	96.8	P/P	65 - 120
2457308	Parathion Methyl	154	166	P/P	77 - 185
2457308	PBB-153	87.9	89.1	P/P	23 - 193
2457308	PBDE-47	81.4	74.5	P/P	31 - 139
2457308	PBDE-99	80.5	77.6	P/P	24 - 138
2457308	Pendimethalin	131	97.3	P/P	50 - 146
2457308	Pentabromotoluene	87.6	87.2	P/P	54 - 152
2457308	Phenytoin	22.8	17.8	P/P	10 - 157
2457308	Phorate	89.1	106	P/P	54 - 161
2457308	Prodiamine	64.4	98.6	P/P	29 - 160
2457308	Prometon	68.3	74.3	P/P	38 - 145
2457308	Prometryn	89.9	105	P/P	32 - 151
2457308	Pronamide	79.7	80.0	P/P	61 - 140
2457308	Propanil	134	122	P/P	50 - 147
2457308	Propargite	55.1	47.8	P/P	10 - 190
2457308	Propiconazole	84.0	95.2	P/P	30 - 146
2457308	Pyraflufen Ethyl	87.7	91.0	P/P	30 - 147
2457308	Pyridaben	158	166	P/P	15 - 195
2457308	Pyriproxyfen	195	114	P/P	31 - 218
2457308	Simazine	112	106	P/P	45 - 139
2457308	Stirophos	39.3	63.4	P/P	10 - 134
2457308	Sulfentrazone	117	132	P/P	53 - 186
2457308	Tebuconazole	76.6	62.4	P/P	10 - 133
2457308	Terbufos	89.6	100	P/P	65 - 151
2457308	Terbuthylazine	60.4	68.9	F/P	62 - 117
2457308	Tetradecachloro-m-terphenyl	167	149	P/P	10 - 260
2457308	Thiobencarb	60.8	76.2	P/P	48 - 122
2457308	Tri-o-cresyl Phosphate	103	98.5	P/P	32 - 151
2457308	Triadimefon	71.6	77.7	P/P	46 - 124
2457308	Tris(1-chloro-2-propyl) phosphate (TCPP)	134	120	P/P	51 - 154
2457308	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	118	109	P/P	59 - 147
2457308	Tris(2-chloroethyl) phosphate (TCEP)	157	137	F/P	65 - 156

Reference Method: EPA 8270E
Batch ID: P439309

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457307	Aldrin	66.6	60.6	P/P	24 - 81.0
2457307	Alpha-BHC	83.3	89.0	P/P	65 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P439309

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457307	Alpha-Chlordane	67.8	59.2	P/P	43 - 119
2457307	Beta-BHC	87.3	85.8	P/P	54 - 165
2457307	Beta-Cyfluthrin	102	105	P/P	27 - 165
2457307	Bifenthrin	97.2	80.0	P/P	17 - 117
2457307	Carbophenothion	66.9	69.4	P/P	21 - 108
2457307	Chlorothalonil	113	129	P/P	10 - 255
2457307	Cis-Nonachlor	61.1	52.4	P/P	34 - 98.0
2457307	Cypermethrin	104	114	P/P	25 - 143
2457307	Dacthal	80.9	75.6	P/P	55 - 139
2457307	DDD-p,p'	57.6	52.0	P/P	30 - 109
2457307	DDE-p,p'	59.2	57.8	P/P	35 - 106
2457307	DDT-p,p'	86.8	72.0	P/P	41 - 101
2457307	Delta-BHC	99.9	118	P/P	58 - 165
2457307	Deltamethrin	109	113	P/P	10 - 194
2457307	Dichlobenil	46.4	36.8	P/P	22 - 114
2457307	Dicofol	68.4	68.3	P/P	17 - 133
2457307	Dieldrin	62.7	62.3	P/P	45 - 129
2457307	Endosulfan I	91.0	93.4	P/P	49 - 104
2457307	Endosulfan II	72.3	64.9	P/P	37 - 117
2457307	Endosulfan Sulfate	78.7	89.0	P/P	38 - 128
2457307	Endrin	74.5	63.7	P/P	35 - 116
2457307	Endrin Aldehyde	38.8	64.1	P/P	19 - 108
2457307	Endrin Ketone	71.7	66.4	P/P	44 - 134
2457307	Esfenvalerate	105	98.5	P/P	27 - 176
2457307	Ethalfluralin	98.4	89.8	P/P	49 - 100
2457307	Fenpropathrin	87.9	76.9	P/P	34 - 117
2457307	Gamma-BHC	97.6	96.9	P/P	59 - 129
2457307	Gamma-Chlordane	73.0	55.2	P/P	33 - 107
2457307	Heptachlor	57.8	55.3	P/P	37 - 94.0
2457307	Heptachlor Epoxide	67.3	59.6	P/P	38 - 118
2457307	Hexachlorobenzene	68.8	66.7	P/P	35 - 97.0
2457307	Kepone	99.3	100	P/P	10 - 221
2457307	Lambda-Cyhalothrin	114	107	P/P	23 - 190
2457307	Methoprene	94.8	84.6	P/P	21 - 109
2457307	Methoxychlor	83.3	78.6	P/P	46 - 118
2457307	MGK-264	70.3	65.8	P/P	39 - 122
2457307	Mirex	64.0	67.9	P/P	25 - 90.0
2457307	Oxychlordane	74.5	74.2	P/P	42 - 100
2457307	Permethrin	53.8	49.6	P/P	33 - 181
2457307	Phenothrin	101	114	P/P	12 - 125
2457307	Piperonyl Butoxide	75.4	83.5	P/P	10 - 178
2457307	Prallethrin	87.0	87.1	P/P	24 - 122
2457307	Tau-Fluvalinate	94.0	88.6	P/P	13 - 151
2457307	Tetramethrin	116	105	P/P	16 - 172
2457307	Trans-Nonachlor	81.7	82.4	P/P	39 - 100
2457307	Triclosan Methyl	70.6	63.8	P/P	43 - 110
2457307	Trifluralin	66.9	64.7	P/P	45 - 94.0
2457938	PCB-1016	68.5	67.9	P/P	45 - 107
2457938	PCB-1260	71.4	79.6	P/P	40 - 112

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P439309

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457938	Chlordane	106	101	P/P	43 - 123
2457938	Toxaphene	127	125	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P438952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456407	3-Hydroxycarbofuran	84.2	71.9	P/P	40 - 150
2456407	Aldicarb	57.4	63.4	P/P	30 - 150
2456407	Aldicarb Sulfone	83.8	90.8	P/P	40 - 150
2456407	Aldicarb Sulfoxide	40.7	43.9	P/P	40 - 150
2456407	Carbaryl	59.1	62.5	P/P	40 - 150
2456407	Carbofuran	62.0	63.0	P/P	40 - 150
2456407	Methiocarb	61.8	61.3	P/P	40 - 150
2456407	Methomyl	75.2	75.4	P/P	40 - 150
2456407	Oxamyl	70.9	73.6	P/P	40 - 150
2456407	Propoxur	58.4	62.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P439028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456963	Acesulfame K	123	126	P/P	40 - 150
2456963	AMPA	72.3	45.4	P/P	40 - 160
2456963	Endothall	65.0	50.4	P/P	40 - 160
2456963	Glufosinate	74.6	64.9	P/P	40 - 160
2456963	Sucralose	64.6	65.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P439060

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456963	2,4-D	93.2	94.3	P/P	40 - 150
2456963	2,4,5-T	72.0	76.3	P/P	40 - 150
2456963	Acetaminophen	84.1	95.8	P/P	30 - 150
2456963	Acetamiprid	63.5	69.2	P/P	40 - 150
2456963	Afidopyropen	66.6	73.5	P/P	30 - 150
2456963	Benzovindiflupyr	75.8	82.6	P/P	40 - 150
2456963	Carbamazepine	57.1	62.9	P/P	40 - 150
2456963	Clothianidin	88.7	98.1	P/P	40 - 150
2456963	Dinotefuran	77.8	81.7	P/P	40 - 150
2456963	Diuron	54.6	58.6	P/P	40 - 150
2456963	Fenuron	91.4	94.1	P/P	40 - 150
2456963	Fluridone	55.0	78.2	P/P	40 - 150
2456963	Hydrocodone	72.3	75.5	P/P	40 - 150
2456963	Ibuprofen	59.9	62.3	P/P	40 - 150
2456963	Imidacloprid	104	115	P/P	40 - 150
2456963	Linuron	59.4	63.3	P/P	40 - 150
2456963	Mandestrobin	77.4	85.4	P/P	40 - 150
2456963	MCPP	84.5	88.6	P/P	40 - 150
2456963	Naproxen	59.4	78.2	P/P	40 - 150
2456963	Primidone	88.8	100	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P439060

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456963	Pyraclostrobin	72.3	80.0	P/P	40 - 150
2456963	Silvex	83.0	87.7	P/P	40 - 150
2456963	Thiamethoxam	74.8	82.3	P/P	40 - 150
2456963	Tolfenpyrad	46.6	54.5	P/P	30 - 150
2456963	Triclopyr	76.2	79.6	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P439291

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457220	Fluoride	101	102	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P439430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2457268	Organic Carbon	103	103	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P439071

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457294	Color (true)	2.47	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P439075

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457294	Turbidity	2.00	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457093	Chloride	0.908	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439206

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457349	Chloride	0.696	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439337

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456443	Sulfate	1.56	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439409

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457040	Sulfate	1.17	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P439220

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457266	Ammonia-N	3.67	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P439488

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457268	Kjeldahl Nitrogen	1.06	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P439165

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457227	NO2NO3-N	0.426	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P439253

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457268	Total-P	0.748	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P439022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457308	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	6.81	Spike	P	0 - 30
2457308	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	1.34	Spike	P	0 - 35
2457308	Acetochlor	13.3	Spike	P	0 - 28
2457308	Alachlor	15.3	Spike	P	0 - 30
2457308	Ametryn	0.470	Spike	P	0 - 32
2457308	Atrazine	2.45	Spike	P	0 - 33
2457308	Atrazine Desethyl	20.8	Spike	P	0 - 36
2457308	Avobenzone	1.76	Spike	P	0 - 35
2457308	Azinphos Methyl	6.05	Spike	P	0 - 62
2457308	Azoxystrobin	12.1	Spike	P	0 - 39
2457308	Bromacil	29.0	Spike	P	0 - 33
2457308	Butylate	17.5	Spike	P	0 - 51
2457308	Caffeine	2.77	Spike	P	0 - 100
2457308	Carbophenothion	13.7	Spike	P	0 - 34
2457308	Carfentrazone Ethyl	9.20	Spike	P	0 - 33
2457308	Chlorfenapyr	19.4	Spike	P	0 - 28
2457308	Chlorpyrifos Ethyl	3.65	Spike	P	0 - 31
2457308	Chlorpyrifos Methyl	14.6	Spike	P	0 - 27
2457308	Coumaphos	16.3	Spike	P	0 - 62
2457308	Cyanazine	14.7	Spike	P	0 - 48
2457308	Cyprodinil	15.2	Spike	P	0 - 29
2457308	Dechlorane 602	14.5	Spike	P	0 - 60
2457308	Dechlorane 603	8.02	Spike	P	0 - 40
2457308	Dechlorane Plus	8.17	Spike	P	0 - 38
2457308	Demeton	13.7	Spike	P	0 - 33
2457308	Diazinon	22.3	Spike	P	0 - 32
2457308	Difenoconazole	7.81	Spike	P	0 - 71
2457308	Dimethenamid	12.7	Spike	P	0 - 60
2457308	Dimethomorph	0.187	Spike	P	0 - 61
2457308	Disulfoton	14.6	Spike	P	0 - 30
2457308	Dithiopyr	24.4	Spike	P	0 - 28
2457308	EPTC	3.62	Spike	P	0 - 56
2457308	Ethion	19.7	Spike	P	0 - 79
2457308	Ethoprop	0.834	Spike	P	0 - 31
2457308	Etridiazole	6.26	Spike	P	0 - 43
2457308	Fenamiphos	5.43	Spike	P	0 - 43
2457308	Fenbuconazole	21.5	Spike	P	0 - 79

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P439022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457308	Fipronil	19.9	Spike	P	0 - 46
2457308	Fipronil Desulfinyl	0.553	Spike	P	0 - 36
2457308	Fipronil Sulfide	11.0	Spike	P	0 - 34
2457308	Fipronil Sulfone	16.8	Spike	P	0 - 47
2457308	Fluazifop-P-butyl	13.9	Spike	P	0 - 38
2457308	Fludioxonil	1.79	Spike	P	0 - 29
2457308	Flumioxazin	15.6	Spike	P	0 - 63
2457308	Flutolanil	14.8	Spike	P	0 - 36
2457308	Fluxapyroxad	4.52	Spike	P	0 - 65
2457308	Fonofos	15.6	Spike	P	0 - 35
2457308	Hexabromobenzene	4.39	Spike	P	0 - 41
2457308	Hexazinone	2.61	Spike	P	0 - 31
2457308	Imazalil	20.5	Spike	P	0 - 52
2457308	Iprodione	3.78	Spike	P	0 - 49
2457308	Loratadine	2.50	Spike	P	0 - 59
2457308	Malathion	2.04	Spike	P	0 - 77
2457308	Metalaxyl	3.19	Spike	P	0 - 76
2457308	Metolachlor	27.7	Spike	P	0 - 29
2457308	Metribuzin	4.73	Spike	P	0 - 51
2457308	Mevinphos	7.98	Spike	P	0 - 31
2457308	Molinate	6.41	Spike	P	0 - 39
2457308	Myclobutanil	4.79	Spike	P	0 - 34
2457308	Naled	7.21	Spike	P	0 - 37
2457308	Napropamide	7.60	Spike	P	0 - 100
2457308	Norflurazon	14.1	Spike	P	0 - 54
2457308	Octinoxate	0.0438	Spike	P	0 - 35
2457308	Oxadiazon	4.58	Spike	P	0 - 34
2457308	Oxybenzone	0.147	Spike	P	0 - 35
2457308	Oxyfluorfen	17.6	Spike	P	0 - 28
2457308	Parathion Ethyl	10.2	Spike	P	0 - 31
2457308	Parathion Methyl	7.55	Spike	P	0 - 29
2457308	PBB-153	1.29	Spike	P	0 - 49
2457308	PBDE-47	8.90	Spike	P	0 - 36
2457308	PBDE-99	3.70	Spike	P	0 - 46
2457308	Pendimethalin	29.7	Spike	P	0 - 31
2457308	Pentabromotoluene	0.496	Spike	P	0 - 16
2457308	Phenytoin	24.9	Spike	P	0 - 100
2457308	Phorate	17.4	Spike	P	0 - 36
2457308	Prodiamine	37.8	Spike	P	0 - 68
2457308	Prometon	8.34	Spike	P	0 - 35
2457308	Prometryn	15.7	Spike	P	0 - 33
2457308	Pronamide	0.374	Spike	P	0 - 24
2457308	Propanil	9.46	Spike	P	0 - 28
2457308	Propargite	14.2	Spike	P	0 - 53
2457308	Propiconazole	12.5	Spike	P	0 - 44
2457308	Pyraflufen Ethyl	2.17	Spike	P	0 - 61
2457308	Pyridaben	5.10	Spike	P	0 - 43
2457308	Pyriproxyfen	45.1	Spike	P	0 - 82
2457308	Simazine	5.23	Spike	P	0 - 29
2457308	Stirophos	47.0	Spike	P	0 - 100
2457308	Sulfentrazone	12.1	Spike	P	0 - 64

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P439022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457308	Tebuconazole	20.5	Spike	P	0 - 76
2457308	Terbufos	11.0	Spike	P	0 - 29
2457308	Terbuthylazine	13.2	Spike	P	0 - 28
2457308	Tetradecachloro-m-terphenyl	11.5	Spike	P	0 - 42
2457308	Thiobencarb	22.5	Spike	P	0 - 26
2457308	Tri-o-cresyl Phosphate	4.12	Spike	P	0 - 24
2457308	Triadimefon	8.15	Spike	P	0 - 40
2457308	Tris(1-chloro-2-propyl) phosphate (TCPP)	10.9	Spike	P	0 - 30
2457308	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	7.96	Spike	P	0 - 22
2457308	Tris(2-chloroethyl) phosphate (TCEP)	13.1	Spike	P	0 - 15

Reference Method: EPA 8270E
Batch ID: P439309

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457307	Aldrin	9.42	Spike	P	0 - 41
2457307	Alpha-BHC	6.32	Spike	P	0 - 25
2457307	Alpha-Chlordane	13.6	Spike	P	0 - 32
2457307	Beta-BHC	1.73	Spike	P	0 - 33
2457307	Beta-Cyfluthrin	3.02	Spike	P	0 - 43
2457307	Bifenthrin	19.5	Spike	P	0 - 52
2457307	Carbophenothion	3.62	Spike	P	0 - 30
2457307	Chlorothalonil	13.3	Spike	P	0 - 82
2457307	Cis-Nonachlor	15.3	Spike	P	0 - 33
2457307	Cypermethrin	9.80	Spike	P	0 - 51
2457307	Dacthal	6.73	Spike	P	0 - 27
2457307	DDD-p,p'	10.2	Spike	P	0 - 39
2457307	DDE-p,p'	2.28	Spike	P	0 - 31
2457307	DDT-p,p'	18.6	Spike	P	0 - 29
2457307	Delta-BHC	16.7	Spike	P	0 - 35
2457307	Deltamethrin	3.82	Spike	P	0 - 100
2457307	Dichlobenil	23.0	Spike	P	0 - 40
2457307	Dicofol	0.220	Spike	P	0 - 37
2457307	Dieldrin	0.630	Spike	P	0 - 27
2457307	Endosulfan I	2.58	Spike	P	0 - 23
2457307	Endosulfan II	10.7	Spike	P	0 - 34
2457307	Endosulfan Sulfate	12.3	Spike	P	0 - 36
2457307	Endrin	15.6	Spike	P	0 - 45
2457307	Endrin Aldehyde	49.3	Spike	P	0 - 76
2457307	Endrin Ketone	7.69	Spike	P	0 - 43
2457307	Esfenvalerate	6.61	Spike	P	0 - 51
2457307	Ethalfluralin	9.08	Spike	P	0 - 22
2457307	Fenpropathrin	13.4	Spike	P	0 - 49
2457307	Gamma-BHC	0.717	Spike	P	0 - 28
2457307	Gamma-Chlordane	27.7	Spike	P	0 - 40
2457307	Heptachlor	4.30	Spike	P	0 - 29
2457307	Heptachlor Epoxide	12.2	Spike	P	0 - 33
2457307	Hexachlorobenzene	3.11	Spike	P	0 - 36
2457307	Kepone	1.07	Spike	P	0 - 85
2457307	Lambda-Cyhalothrin	7.07	Spike	P	0 - 55

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P439309

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457307	Methoprene	11.3	Spike	P	0 - 53
2457307	Methoxychlor	5.83	Spike	P	0 - 50
2457307	MGK-264	6.52	Spike	P	0 - 43
2457307	Mirex	5.99	Spike	P	0 - 40
2457307	Oxychlordane	0.446	Spike	P	0 - 31
2457307	Permethrin	8.09	Spike	P	0 - 50
2457307	Phenothrin	12.7	Spike	P	0 - 58
2457307	Piperonyl Butoxide	8.39	Spike	P	0 - 100
2457307	Prallethrin	0.177	Spike	P	0 - 39
2457307	Tau-Fluvalinate	5.91	Spike	P	0 - 54
2457307	Tetramethrin	9.80	Spike	P	0 - 51
2457307	Trans-Nonachlor	0.912	Spike	P	0 - 39
2457307	Triclosan Methyl	10.1	Spike	P	0 - 31
2457307	Trifluralin	3.42	Spike	P	0 - 22
2457938	PCB-1016	0.935	Spike	P	0 - 25
2457938	PCB-1260	10.9	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P439309

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457938	Chlordane	5.64	Spike	P	0 - 28
2457938	Toxaphene	1.73	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P438952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456407	3-Hydroxycarbofuran	15.8	Spike	P	0 - 30
2456407	Aldicarb	9.98	Spike	P	0 - 30
2456407	Aldicarb Sulfone	7.92	Spike	P	0 - 30
2456407	Aldicarb Sulfoxide	7.62	Spike	P	0 - 30
2456407	Carbaryl	5.56	Spike	P	0 - 30
2456407	Carbofuran	1.70	Spike	P	0 - 30
2456407	Methiocarb	0.819	Spike	P	0 - 30
2456407	Methomyl	0.285	Spike	P	0 - 30
2456407	Oxamyl	3.81	Spike	P	0 - 30
2456407	Propoxur	6.70	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P439028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456963	Acesulfame K	2.29	Spike	P	0 - 30
2456963	AMPA	24.3	Spike	P	0 - 30
2456963	Endothall	25.2	Spike	P	0 - 30
2456963	Glufosinate	13.9	Spike	P	0 - 30
2456963	Glyphosate	17.3	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P439028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456963	Sucralose	1.15	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P439060

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456963	2,4-D	0.986	Spike	P	0 - 30
2456963	2,4,5-T	5.69	Spike	P	0 - 30
2456963	Acetaminophen	13.1	Spike	P	0 - 30
2456963	Acetamiprid	8.64	Spike	P	0 - 30
2456963	Afidopyropen	9.82	Spike	P	0 - 30
2456963	Bentazon	3.83	Spike	P	0 - 30
2456963	Benzovindiflupyr	8.56	Spike	P	0 - 30
2456963	Carbamazepine	7.99	Spike	P	0 - 30
2456963	Clothianidin	10.0	Spike	P	0 - 30
2456963	Dinotefuran	4.53	Spike	P	0 - 30
2456963	Diuron	6.14	Spike	P	0 - 30
2456963	Fenuron	2.92	Spike	P	0 - 30
2456963	Fluridone	6.02	Spike	P	0 - 30
2456963	Hydrocodone	4.46	Spike	P	0 - 30
2456963	Ibuprofen	3.91	Spike	P	0 - 30
2456963	Imazapyr	1.95	Spike	P	0 - 30
2456963	Imidacloprid	7.89	Spike	P	0 - 30
2456963	Linuron	6.42	Spike	P	0 - 30
2456963	Mandestrobin	9.82	Spike	P	0 - 30
2456963	MCPP	4.68	Spike	P	0 - 30
2456963	Naproxen	27.4	Spike	P	0 - 30
2456963	Primidone	12.2	Spike	P	0 - 30
2456963	Pyraclostrobin	10.1	Spike	P	0 - 30
2456963	Silvex	5.61	Spike	P	0 - 30
2456963	Thiamethoxam	9.43	Spike	P	0 - 30
2456963	Tolfenpyrad	15.7	Spike	P	0 - 30
2456963	Triclopyr	4.33	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P439285

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457220	Total Alkalinity	3.36	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P439432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456919	TDS	0.766	Sample	P	0 - 10

Quality Assurance Report
Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P439291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457220	Fluoride	0.500	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P439430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2457268	Organic Carbon	0.143	Spike	P	0 - 15

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2457303
Field Sample ID: G3SW0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	87.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	78.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	59.3	P	30 - 160
EPA 8321B	Diuron-d6	57.5	P	30 - 160
EPA 8321B	Endothall-d6	83.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	80.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	55.8	P	30 - 160
EPA 8321B	Primidone-d5	87.3	P	30 - 160
EPA 8321B	Sucralose-d6	89.7	P	30 - 160

Lab Sample ID: 2457304
Field Sample ID: G3SW0087

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	52.5	P	30 - 160

Lab Sample ID: 2457305
Field Sample ID: G3SW0087

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	94.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	32.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	55.4	P	30 - 160
EPA 8321B	Diuron-d6	52.2	P	30 - 160
EPA 8321B	Endothall-d6	93.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.6	P	30 - 160
EPA 8321B	Primidone-d5	63.7	P	30 - 160
EPA 8321B	Sucralose-d6	30.8	P	30 - 160

Lab Sample ID: 2457306
Field Sample ID: G2SW0039

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	82.7	P	20 - 200
EPA 8270E	Simazine-d10	91.6	P	58 - 137
EPA 8270E	Terbufos-d10	64.0	P	50 - 134
EPA 8270E	Terphenyl-d14	97.1	P	44 - 134

Lab Sample ID: 2457307
Field Sample ID: G3SW0087

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	75.4	P	37 - 129
EPA 8270E	Decachlorobiphenyl	78.8	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	55.3	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	59.3	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	81.7	P	28 - 102
EPA 8276	PCNB	108	P	49 - 115

Quality Assurance Report
Surrogates

Lab Sample ID: 2457308
Field Sample ID: G3SW0087

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	93.9	P	20 - 200
EPA 8270E	Simazine-d10	108	P	58 - 137
EPA 8270E	Terbufos-d10	79.2	P	50 - 134
EPA 8270E	Terphenyl-d14	105	P	44 - 134

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A123266
Included Lab Sample IDs: 2457294, 2457296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.4	99.5	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A123267
Included Lab Sample IDs: 2457294, 2457296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.0	P/P	95 - 105

Reference Method: EPA 8321B
Run ID: A123270
Included Lab Sample IDs: 2457303, 2457305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	128	133	P/P	60 - 160
Acesulfame K	132	128	P/P	60 - 160
Sucralose	84.8	96.5	P/P	60 - 160
Sucralose	87.9	84.8	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A123301
Included Lab Sample IDs: 2457303, 2457305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	135	127	P/P	60 - 160
Endothall	109	115	P/P	60 - 160
Glufosinate	144	126	P/P	60 - 160
Glyphosate	150	134	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A123302
Included Lab Sample IDs: 2457295, 2457297

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.5	95.5	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A123310
Included Lab Sample IDs: 2457303, 2457305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	108	87.9	P/P	50 - 150
2,4,5-T	101	96.7	P/P	50 - 150
Acetaminophen	114	106	P/P	60 - 160
Acetamiprid	112	110	P/P	50 - 150
Afidopyropen	99.7	94.9	P/P	50 - 150
Bentazon	93.1	89.0	P/P	50 - 160
Benzovindiflupyr	112	108	P/P	50 - 150
Carbamazepine	108	111	P/P	60 - 150
Clothianidin	110	108	P/P	60 - 150
Dinotefuran	112	111	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A123310
Included Lab Sample IDs: 2457303, 2457305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	113	116	P/P	60 - 160
Fenuron	109	106	P/P	60 - 150
Fluridone	112	109	P/P	60 - 160
Hydrocodone	114	114	P/P	60 - 150
Ibuprofen	104	104	P/P	50 - 160
Imazapyr	86.4	86.5	P/P	50 - 150
Imidacloprid	104	101	P/P	60 - 150
Linuron	113	97.3	P/P	60 - 150
Mandestrobin	112	112	P/P	50 - 150
MCPP	97.9	96.3	P/P	50 - 150
Naproxen	98.8	75.5	P/P	50 - 160
Primidone	102	99.3	P/P	60 - 150
Pyraclostrobin	112	109	P/P	60 - 150
Silvex	105	94.3	P/P	50 - 150
Thiamethoxam	120	118	P/P	50 - 150
Tolfenpyrad	100	105	P/P	60 - 150
Triclopyr	105	98.7	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A123321
Included Lab Sample IDs: 2457294, 2457296

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A123325
Included Lab Sample IDs: 2457295, 2457297

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.7	99.6	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A123338
Included Lab Sample IDs: 2457294, 2457296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	100	104	P/P	90 - 110
Sulfate	103	102	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A123353
Included Lab Sample IDs: 2457294, 2457296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.8	102	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: SM 4500-F- C-2011
Run ID: A123353
Included Lab Sample IDs: 2457294, 2457296

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A123365
Included Lab Sample IDs: 2457295, 2457297

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.9	P/P	90 - 110
Total-P	99.9	102	P/P	90 - 110

Reference Method: SM 5310 B-2014
Run ID: A123406
Included Lab Sample IDs: 2457295, 2457297

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	125	99.4	P/P	70 - 130

Reference Method: EPA 8321B
Run ID: A123422
Included Lab Sample IDs: 2457304

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	107	108	P/P	60 - 150
Aldicarb	93.2	105	P/P	60 - 150
Aldicarb Sulfone	112	110	P/P	50 - 150
Aldicarb Sulfoxide	116	113	P/P	50 - 150
Carbaryl	114	110	P/P	60 - 150
Carbofuran	109	114	P/P	50 - 150
Methiocarb	103	98.1	P/P	50 - 150
Methomyl	111	108	P/P	50 - 150
Oxamyl	107	104	P/P	50 - 150
Propoxur	115	114	P/P	50 - 150

Reference Method: EPA 8276
Run ID: A123448
Included Lab Sample IDs: 2457307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.9		P	80 - 120
Toxaphene	104		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A123480
Included Lab Sample IDs: 2457295, 2457297

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	102	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A123506
Included Lab Sample IDs: 2457307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.8		P	80 - 120
Alpha-BHC	96.7		P	80 - 120
Alpha-Chlordane	103		P	80 - 120
Beta-BHC	89.0		P	80 - 120
Beta-Cyfluthrin	96.8		P	80 - 120
Bifenthrin	104		P	80 - 120
Carbophenothion	101		P	80 - 120
Chlorothalonil	98.2		P	80 - 120
Cis-Nonachlor	90.7		P	80 - 120
Cypermethrin	98.1		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	92.5		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	98.8		P	80 - 120
Delta-BHC	102		P	80 - 120
Deltamethrin	101		P	80 - 120
Dichlobenil	92.3		P	80 - 120
Dicofol	98.1		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	99.5		P	80 - 120
Endosulfan II	101		P	80 - 120
Endosulfan Sulfate	94.1		P	80 - 120
Endrin	100		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	100		P	80 - 120
Esfenvalerate	98.4		P	80 - 120
Ethalfluralin	97.8		P	80 - 120
Fenpropathrin	92.9		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	95.7		P	80 - 120
Heptachlor	99.5		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Kepone	103		P	80 - 120
Lambda-Cyhalothrin	97.4		P	80 - 120
Methoprene	101		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	105		P	80 - 120
Mirex	94.4		P	80 - 120
Oxychlordane	93.1		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	98.8		P	80 - 120
Piperonyl Butoxide	103		P	80 - 120
Prallethrin	103		P	80 - 120
Tau-Fluvalinate	97.7		P	80 - 120
Tetramethrin	101		P	80 - 120
Trans-Nonachlor	111		P	80 - 120
Triclosan Methyl	97.7		P	80 - 120
Trifluralin	93.9		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A123515
Included Lab Sample IDs: 2457307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	92.1		P	80 - 120
PCB-1260	99.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123579
Included Lab Sample IDs: 2457306, 2457308

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	97.6		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.3		P	80 - 120
Avobenzone	100		P	80 - 120
Dechlorane 602	96.7		P	80 - 120
Dechlorane 603	94.2		P	80 - 120
Dechlorane Plus	97.1		P	80 - 120
Hexabromobenzene	81.7		P	80 - 120
Octinoxate	95.7		P	80 - 120
Oxybenzone	97.7		P	80 - 120
PBB-153	94.4		P	80 - 120
PBDE-47	95.5		P	80 - 120
PBDE-99	97.1		P	80 - 120
Pentabromotoluene	93.6		P	80 - 120
Tetradecachloro-m-terphenyl	106		P	80 - 120
Tri-o-cresyl Phosphate	99.3		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	102		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.5		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	105		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123584
Included Lab Sample IDs: 2457306, 2457308

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	105		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	111		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	112		P	80 - 120
Azinphos Methyl	110		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	90.2		P	80 - 120
Caffeine	104		P	80 - 120
Carbophenothion	92.6		P	80 - 120
Carfentrazone Ethyl	82.4		P	80 - 120
Chlorfenapyr	104		P	80 - 120
Chlorpyrifos Ethyl	112		P	80 - 120
Chlorpyrifos Methyl	98.3		P	80 - 120
Coumaphos	102		P	80 - 120
Cyanazine	121*		F	80 - 120
Cyprodinil	97.9		P	80 - 120
Demeton	94.0		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A123584
Included Lab Sample IDs: 2457306, 2457308

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diazinon	87.8		P	80 - 120
Difenoconazole	98.1		P	80 - 120
Dimethenamid	108		P	80 - 120
Dimethomorph	97.8		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	120*		F	80 - 120
EPTC	105		P	80 - 120
Ethion	81.4		P	80 - 120
Ethoprop	99.4		P	80 - 120
Etridiazole	95.7		P	80 - 120
Fenamiphos	101		P	80 - 120
Fenbuconazole	118		P	80 - 120
Fipronil	108		P	80 - 120
Fipronil Desulfinyl	98.2		P	80 - 120
Fipronil Sulfide	117		P	80 - 120
Fipronil Sulfone	111		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	93.0		P	80 - 120
Flutolanil	106		P	80 - 120
Fluxapyroxad	94.5		P	80 - 120
Fonofos	87.9		P	80 - 120
Hexazinone	97.8		P	80 - 120
Imazalil	113		P	80 - 120
Iprodione	101		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	93.6		P	80 - 120
Metalaxyl	107		P	80 - 120
Metolachlor	105		P	80 - 120
Metribuzin	106		P	80 - 120
Mevinphos	98.3		P	80 - 120
Molinate	94.4		P	80 - 120
Myclobutanil	108		P	80 - 120
Naled	113		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	92.9		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	110		P	80 - 120
Parathion Ethyl	108		P	80 - 120
Parathion Methyl	99.3		P	80 - 120
Pendimethalin	84.0		P	80 - 120
Phenytoin	88.9		P	80 - 120
Phorate	106		P	80 - 120
Prodiamine	107		P	80 - 120
Prometon	118		P	80 - 120
Prometryn	112		P	80 - 120
Pronamide	99.5		P	80 - 120
Propanil	88.9		P	80 - 120
Propargite	96.8		P	80 - 120
Propiconazole	89.3		P	80 - 120
Pyraflufen Ethyl	75.2*		F	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A123584
Included Lab Sample IDs: 2457306, 2457308

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyridaben	127*		F	80 - 120
Pyriproxyfen	91.6		P	80 - 120
Simazine	90.4		P	80 - 120
Stirophos	91.8		P	80 - 120
Sulfentrazone	103		P	80 - 120
Tebuconazole	91.1		P	80 - 120
Terbufos	96.5		P	80 - 120
Terbuthylazine	93.8		P	80 - 120
Thiobencarb	109		P	80 - 120
Triadimefon	118		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		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	98.5				2.47	
EPA 180.1 Rev. 2.0	Turbidity	104				2.00	
EPA 300.0 Rev. 2.1	Chloride	105	100	106		0.908	
	Chloride	107	100	104		0.696	
	Sulfate	102	98.6	98.8		1.56	
	Sulfate	104	100	99.7		1.17	
EPA 350.1 Rev. 2.0	Ammonia-N	93.0	96.6	101			3.67
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	103	104			1.06
EPA 353.2 Rev. 2.0	NO2NO3-N	97.5	96.1	96.6			0.426
EPA 365.1 Rev. 2.0	Total-P	104	108	109			0.748
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	89.4	93.3	87.2			6.81
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.9	93.0	91.8			1.34
	Acetochlor	68.2	73.4	83.9			13.3
	Alachlor	66.9	63.4	73.9			15.3
	Aldrin	56.3	66.6	60.6			9.42
	Alpha-BHC	87.8	83.3	89.0			6.32
	Alpha-Chlordane	69.3	67.8	59.2			13.6
	Ametryn	93.7	121	120			0.470
	Atrazine	109	112	109			2.45
	Atrazine Desethyl	73.6	69.8	56.7			20.8
	Avobenzone	112	112	110			1.76
	Azinphos Methyl	119	122	130			6.05
	Azoxystrobin	102	119	106			12.1
	Beta-BHC	88.2	87.3	85.8			1.73
	Beta-Cyfluthrin	83.0	102	105			3.02
	Bifenthrin	63.9	97.2	80.0			19.5
	Bromacil	65.0	88.6	59.3			29.0
	Butylate	61.2	76.7	64.4			17.5
	Caffeine	108	117	120			2.77
	Carbophenothion	64.2	79.9	69.6			13.7
	Carbophenothion	66.2	66.9	69.4			3.62
	Carfentrazone Ethyl	128	129	141			9.20
	Chlorfenapyr	63.7	75.3	62.0			19.4
	Chlorothalonil	81.3	113	129			13.3
	Chlorpyrifos Ethyl	61.9	77.9	75.1			3.65
	Chlorpyrifos Methyl	63.4	93.1	80.5			14.6
	Cis-Nonachlor	68.6	61.1	52.4			15.3
	Coumaphos	137	173	147			16.3
	Cyanazine	165	196	169			14.7
	Cypermethrin	107	104	114			9.80
	Cyprodinil	87.1	142	122			15.2
	Dacthal	80.3	80.9	75.6			6.73
	DDD-p,p'	66.7	57.6	52.0			10.2
	DDE-p,p'	70.3	59.2	57.8			2.28
	DDT-p,p'	87.8	86.8	72.0			18.6
	Dechlorane 602	57.2	58.9	51.0			14.5
	Dechlorane 603	95.2	89.4	82.5			8.02
	Dechlorane Plus	99.9	92.3	85.1			8.17
	Delta-BHC	107	99.9	118			16.7
	Deltamethrin	89.6	109	113			3.82
	Demeton	114	117	134			13.7

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Diazinon	70.1	93.6	74.9			22.3
	Dichlobenil	61.8	46.4	36.8			23.0
	Dicofol	72.0	68.4	68.3			0.220
	Dieldrin	73.2	62.7	62.3			0.630
	Difenoconazole	101	120	111			7.81
	Dimethenamid	71.6	93.8	82.6			12.7
	Dimethomorph	158	169	168			0.187
	Disulfoton	73.0	93.2	80.4			14.6
	Dithiopyr	56.4	82.8	64.8			24.4
	Endosulfan I	103	91.0	93.4			2.58
	Endosulfan II	82.2	72.3	64.9			10.7
	Endosulfan Sulfate	101	78.7	89.0			12.3
	Endrin	77.2	74.5	63.7			15.6
	Endrin Aldehyde	74.2	38.8	64.1			49.3
	Endrin Ketone	80.6	71.7	66.4			7.69
	EPTC	59.2	62.6	64.9			3.62
	Esfenvalerate	73.2	105	98.5			6.61
	Ethalfluralin	86.1	98.4	89.8			9.08
	Ethion	81.4	106	86.7			19.7
	Ethoprop	95.5	99.9	99.1			0.834
	Etridiazole	66.3	67.3	71.6			6.26
	Fenamiphos	85.7	72.9	76.9			5.43
	Fenbuconazole	130	118	146			21.5
	Fenpropathrin	80.5	87.9	76.9			13.4
	Fipronil	66.2	75.1	91.7			19.9
	Fipronil Desulfinyl	98.6	122	121			0.553
	Fipronil Sulfide	64.3	77.4	86.4			11.0
	Fipronil Sulfone	77.4	78.3	92.8			16.8
	Fluazifop-P-butyl	82.9	77.2	88.8			13.9
	Fludioxonil	65.4	91.7	90.1			1.79
	Flumioxazin	124	126	147			15.6
	Flutolanil	70.2	72.0	83.4			14.8
	Fluxapyroxad	107	151	158			4.52
	Fonofos	75.3	77.5	90.6			15.6
	Gamma-BHC	101	97.6	96.9			0.717
	Gamma-Chlordane	64.0	73.0	55.2			27.7
	Heptachlor	58.2	57.8	55.3			4.30
	Heptachlor Epoxide	71.0	67.3	59.6			12.2
	Hexabromobenzene	75.2	79.4	76.0			4.39
	Hexachlorobenzene	77.9	68.8	66.7			3.11
	Hexazinone	90.2	95.8	98.3			2.61
	Imazalil	78.0	72.8	89.5			20.5
	Iprodione	81.5	109	113			3.78
	Kepone	96.5	99.3	100			1.07
	Lambda-Cyhalothrin	76.8	114	107			7.07
	Loratadine	144	177	173			2.50
	Malathion	112	133	136			2.04
	Metalaxyl	94.0	106	110			3.19
	Methoprene	69.1	94.8	84.6			11.3
	Methoxychlor	84.4	83.3	78.6			5.83
	Metolachlor	60.5	56.3	76.7			27.7
	Metribuzin	105	105	110			4.73
	Mevinphos	73.1	83.2	90.1			7.98
	MGK-264	59.6	70.3	65.8			6.52

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Mirex	67.7	64.0	67.9			5.99
	Molinate	69.2	78.1	83.3			6.41
	Myclobutanil	87.6	98.2	93.6			4.79
	Naled	64.7	63.8	68.6			7.21
	Napropamide	48.2	57.7	62.3			7.60
	Norflurazon	67.1					14.1
	Octinoxate	90.0	92.7	92.7			0.0438
	Oxadiazon	60.5	61.5	64.4			4.58
	Oxybenzone	104	102	102			0.147
	Oxychlordane	83.9	74.5	74.2			0.446
	Oxyfluorfen	85.7	84.0	100			17.6
	Parathion Ethyl	105	107	96.8			10.2
	Parathion Methyl	118	154	166			7.55
	PBB-153	95.3	87.9	89.1			1.29
	PBDE-47	76.9	81.4	74.5			8.90
	PBDE-99	79.8	80.5	77.6			3.70
	PCB-1016	68.1	68.5	67.9			0.935
	PCB-1260	76.9	71.4	79.6			10.9
	Pendimethalin	115	131	97.3			29.7
	Pentabromotoluene	83.3	87.6	87.2			0.496
	Permethrin	75.8	53.8	49.6			8.09
	Phenothrin	65.9	101	114			12.7
	Phenytoin	15.3	22.8	17.8			24.9
	Phorate	70.0	89.1	106			17.4
	Piperonyl Butoxide	116	75.4	83.5			8.39
	Prallethrin	75.1	87.0	87.1			0.177
	Prodiamine	62.2	64.4	98.6			37.8
	Prometon	91.2	68.3	74.3			8.34
	Prometryn	96.5	89.9	105			15.7
	Pronamide	77.0	79.7	80.0			0.374
	Propanil	115	134	122			9.46
	Propargite	53.3	55.1	47.8			14.2
	Propiconazole	83.9	84.0	95.2			12.5
	Pyraflufen Ethyl	114	87.7	91.0			2.17
	Pyridaben	131	158	166			5.10
	Pyriproxyfen	133	195	114			45.1
	Simazine	109	112	106			5.23
	Stirophos	48.8	39.3	63.4			47.0
	Sulfentrazone	99.9	117	132			12.1
	Tau-Fluvalinate	66.9	94.0	88.6			5.91
	Tebuconazole	57.7	76.6	62.4			20.5
	Terbufos	83.2	89.6	100			11.0
	Terbuthylazine	59.0	60.4	68.9			13.2
	Tetradecachloro-m-terphenyl	150	167	149			11.5
	Tetramethrin	72.3	116	105			9.80
	Thiobencarb	66.8	60.8	76.2			22.5
	Trans-Nonachlor	89.8	81.7	82.4			0.912
	Tri-o-cresyl Phosphate	97.8	103	98.5			4.12
	Triadimefon	52.4	71.6	77.7			8.15
	Triclosan Methyl	73.2	70.6	63.8			10.1
	Trifluralin	74.5	66.9	64.7			3.42
	Tris(1-chloro-2-propyl) phosphate (TCPP)	134	134	120			10.9

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	113	118	109			7.96
	Tris(2-chloroethyl) phosphate (TCEP)	141	157	137			13.1
EPA 8276	Chlordane	90.6	106	101			5.64
	Toxaphene	110	127	125			1.73
EPA 8321B	2,4-D	109	93.2	94.3			0.986
	2,4,5-T	105	72.0	76.3			5.69
	3-Hydroxycarbofuran	62.1	84.2	71.9			15.8
	Acesulfame K	133	123	126			2.29
	Acetaminophen	76.3	84.1	95.8			13.1
	Acetamiprid	82.4	63.5	69.2			8.64
	Afidopyropen	68.6	66.6	73.5			9.82
	Aldicarb	60.9	57.4	63.4			9.98
	Aldicarb Sulfone	88.5	83.8	90.8			7.92
	Aldicarb Sulfoxide	103	40.7	43.9			7.62
	AMPA	58.3	72.3	45.4			24.3
	Bentazon	56.0					3.83
	Benzovindiflupyr	78.4	75.8	82.6			8.56
	Carbamazepine	70.7	57.1	62.9			7.99
	Carbaryl	62.5	59.1	62.5			5.56
	Carbofuran	65.7	62.0	63.0			1.70
	Clothianidin	89.6	88.7	98.1			10.0
	Dinotefuran	92.9	77.8	81.7			4.53
	Diuron	66.7	54.6	58.6			6.14
	Endothall	45.4	65.0	50.4			25.2
	Fenuron	140	91.4	94.1			2.92
	Fluridone	82.1	55.0	78.2			6.02
	Glufosinate	59.2	74.6	64.9			13.9
	Glyphosate	47.4					17.3
	Hydrocodone	89.3	72.3	75.5			4.46
	Ibuprofen	68.4	59.9	62.3			3.91
	Imazapyr	90.1					1.95
	Imidacloprid	86.9	104	115			7.89
	Linuron	66.5	59.4	63.3			6.42
	Mandestrobin	84.5	77.4	85.4			9.82
	MCPP	96.3	84.5	88.6			4.68
	Methiocarb	51.5	61.8	61.3			0.819
	Methomyl	78.9	75.2	75.4			0.285
	Naproxen	66.0	59.4	78.2			27.4
	Oxamyl	81.3	70.9	73.6			3.81
	Primidone	85.0	88.8	100			12.2
	Propoxur	63.8	58.4	62.5			6.70
	Pyraclostrobin	71.9	72.3	80.0			10.1
	Silvex	84.7	83.0	87.7			5.61
	Sucralose	83.5	64.6	65.5			1.15
	Thiamethoxam	86.7	74.8	82.3			9.43
	Tolfenpyrad	43.5	46.6	54.5			15.7
	Triclopyr	121	76.2	79.6			4.33
SM 2320 B-2011	Total Alkalinity	100				3.36	
SM 2540 C-2015	TDS	96.4				0.766	
SM 2540 D-2015	TSS	95.2					
SM 4500-F- C-2011	Fluoride	102	101	102			0.500
SM 5310 B-2014	Organic Carbon	105	103	103			0.143

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2457294, 2457296
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2457294, 2457296
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2457294, 2457296
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2457294, 2457296
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2457295, 2457297
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2457295, 2457297
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2457295, 2457297
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2457295, 2457297
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2457306, 2457308
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2457307
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2457306, 2457308
EPA 8270E	PCBs in water matrices by GC/MS/MS	2457307
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2457307
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2457304
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2457303, 2457305
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2457294, 2457296
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2457294, 2457296
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2457294, 2457296
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2457294, 2457296
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2457295, 2457297

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	12/15/2023			12/15/2023 14:06	Anna M. Plaviak	2457294
	12/15/2023			12/15/2023 14:07	Anna M. Plaviak	2457296
EPA 180.1 Rev. 2.0	12/15/2023			12/15/2023 13:47	Khloe J Berg	2457294
	12/15/2023			12/15/2023 13:50	Khloe J Berg	2457296
EPA 300.0 Rev. 2.1	12/15/2023			12/19/2023 06:24	James L Waggerby	2457294
	12/15/2023			12/19/2023 09:10	James L Waggerby	2457296
	12/15/2023			12/21/2023 08:50	James L Waggerby	2457296
	12/15/2023			12/22/2023 00:40	James L Waggerby	2457294
EPA 350.1 Rev. 2.0	12/15/2023			12/19/2023 14:31	Khloe J Berg	2457295
	12/15/2023			12/19/2023 14:33	Khloe J Berg	2457297
EPA 351.2 Rev. 2.0	12/15/2023	12/28/2023 12:25	Simonne.V. Calhoun	01/03/2024 15:52	Samantha L Bates	2457295
	12/15/2023	12/28/2023 12:25	Simonne.V. Calhoun	01/03/2024 15:53	Samantha L Bates	2457297
EPA 353.2 Rev. 2.0	12/15/2023			12/18/2023 13:45	Anna M. Plaviak	2457295
	12/15/2023			12/18/2023 13:46	Anna M. Plaviak	2457297
EPA 365.1 Rev. 2.0	12/15/2023	12/20/2023 12:07	Adam P Silver	12/21/2023 09:53	Chandler E Cox	2457295
	12/15/2023	12/20/2023 12:07	Adam P Silver	12/21/2023 09:56	Chandler E Cox	2457297
EPA 8270E	12/15/2023	12/19/2023 08:00	Fe-Val Siddell	01/10/2024 17:13	Arthur Maknenko	2457308
	12/15/2023	12/19/2023 08:00	Fe-Val Siddell	01/10/2024 18:30	Arthur Maknenko	2457306
	12/15/2023	12/19/2023 08:00	Fe-Val Siddell	12/22/2023 21:13	Vandana T. Nagar	2457308
	12/15/2023	12/19/2023 08:00	Fe-Val Siddell	12/23/2023 02:07	Vandana T. Nagar	2457306
	12/15/2023	12/21/2023 08:15	Rasheda Ghaffari	01/03/2024 20:43	Julie Wi	2457307
	12/15/2023	12/21/2023 08:15	Rasheda Ghaffari	01/04/2024 19:43	Lipi Saha	2457307
EPA 8276	12/15/2023	12/21/2023 08:15	Rasheda Ghaffari	12/28/2023 08:27	Kenedi Mills	2457307
EPA 8321B	12/15/2023	12/15/2023 12:00	Hana Lee	12/15/2023 17:34	Hana Lee	2457303
	12/15/2023	12/15/2023 12:00	Hana Lee	12/15/2023 18:59	Hana Lee	2457305
	12/15/2023	12/15/2023 12:00	Hana Lee	12/16/2023 09:42	Tae K Lee	2457303
	12/15/2023	12/15/2023 12:00	Hana Lee	12/16/2023 09:56	Tae K Lee	2457305
	12/15/2023	12/18/2023 09:00	Hoor Shaik	12/18/2023 21:00	Juyoung Kim	2457303
	12/15/2023	12/18/2023 09:00	Hoor Shaik	12/18/2023 21:17	Juyoung Kim	2457305
	12/15/2023	12/19/2023 08:30	Hoor Shaik	12/19/2023 21:52	Juyoung Kim	2457304
SM 2320 B-2011	12/15/2023			12/19/2023 22:27	Dale L. Simmons	2457294
	12/15/2023			12/19/2023 22:40	Dale L. Simmons	2457296
SM 2540 C-2015	12/15/2023			12/19/2023 15:26	Yijie Li	2457294, 2457296
SM 2540 D-2015	12/15/2023			12/19/2023 15:26	Yijie Li	2457294, 2457296
SM 4500-F- C-2011	12/15/2023			12/19/2023 22:27	Dale L. Simmons	2457294
	12/15/2023			12/19/2023 22:40	Dale L. Simmons	2457296
SM 5310 B-2014	12/15/2023			12/22/2023 10:37	Kenneth H Lee	2457295
	12/15/2023			12/22/2023 10:50	Kenneth H Lee	2457297