

Chemical Analysis Report

SW-DIST-2023-11-16-01

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

Event Description: **Run 3**
Request ID: **RQ-2023-11-20-12**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
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Date Certified: 28-DEC-2023 13:24



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: DOWLING LAKE 2

Collection Date/Time: 11/15/2023 10:15

Field ID: G4SW0084

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2451936	DEP SOP: NU-094-1	Color (true)	30		PCU	P437925	
	EPA 180.1 Rev. 2.0	Turbidity	3.1		NTU	P437928	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P438317	
		Sulfate	4.4		mg SO4/L	P438320	
	SM 2320 B-2011	Total Alkalinity	11		mg CaCO3/L	P438164	
	SM 2540 C-2015	TDS	53		mg/L	P438344	
	SM 2540 D-2015	TSS	3	I	mg/L	P438340	
	SM 4500-F- C-2011	Fluoride	0.13		mg F/L	P438166	
2451937	EPA 350.1 Rev. 2.0	Ammonia-N	0.084		mg N/L	P438432	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P438169	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P438252	
	EPA 365.1 Rev. 2.0	Total-P	0.044		mg P/L	P438207	
	SM 5310 B-2011	Organic Carbon	9.7		mg C/L	P438145	

Ref. Method and Comment:

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

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: MOUNTAIN LAKE AT CENTER

Collection Date/Time: 11/15/2023 11:05

Field ID: G4SW0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2451931	DEP SOP: NU-094-1	Color (true)	42	A	PCU	P437925	
	EPA 180.1 Rev. 2.0	Turbidity	7.4		NTU	P437928	
	EPA 300.0 Rev. 2.1	Chloride	26	A	mg Cl/L	P438317	
		Sulfate	2.1	A	mg SO4/L	P438320	
	SM 2320 B-2011	Total Alkalinity	6.5		mg CaCO3/L	P438164	
	SM 2540 C-2015	TDS	71		mg/L	P438344	
	SM 2540 D-2015	TSS	13	I	mg/L	P438340	
	SM 4500-F- C-2011	Fluoride	0.13		mg F/L	P438166	
2451932	EPA 350.1 Rev. 2.0	Ammonia-N	0.027		mg N/L	P438432	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.0		mg N/L	P438036	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P438252	
	EPA 365.1 Rev. 2.0	Total-P	0.086		mg P/L	P438207	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P438144	
2451933	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P437912	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The PQL was elevated because of sample matrix interference.

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: IRVIN LAKE

Collection Date/Time: 11/15/2023 11:50

Field ID: G4SW0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2451934	DEP SOP: NU-094-1	Color (true)	50		PCU	P437925	
	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P437928	
	EPA 300.0 Rev. 2.1	Chloride	9.3		mg Cl/L	P438317	
		Sulfate	2.0		mg SO4/L	P438320	
	SM 2320 B-2011	Total Alkalinity	43		mg CaCO3/L	P438164	
	SM 2540 C-2015	TDS	74		mg/L	P438344	
	SM 2540 D-2015	TSS	22	I	mg/L	P438340	
	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P438166	
2451935	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P438432	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.1		mg N/L	P438169	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.50		mg N/L	P438252	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P438207	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P438145	
2451941	EPA 8321B	Aldicarb	0.020	U	ug/L	P437881	
		Aldicarb Sulfone	0.0020	U	ug/L	P437881	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P437881	MS
		Carbaryl	0.0020	U	ug/L	P437881	
		Carbofuran	0.0020	U	ug/L	P437881	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P437881	
		Methiocarb	0.0020	U	ug/L	P437881	
		Methomyl	0.0020	U	ug/L	P437881	
		Oxamyl	0.0020	U	ug/L	P437881	
		Propoxur	0.0020	U	ug/L	P437881	
2451942		2,4-D	0.49		ug/L	P437880	
		Acesulfame K	0.10	U	ug/L	P437799	
		2,4,5-T	0.0040	U	ug/L	P437880	
		AMPA	0.10	U	ug/L	P437799	
		Acetaminophen	0.0080	U	ug/L	P437880	
		Acetamiprid	0.0020	U	ug/L	P437880	
		Endothall	0.25	U	ug/L	P437799	
		Glufosinate	0.10	U	ug/L	P437799	
		Glyphosate	0.10	U	ug/L	P437799	
		Afidopyropen	0.0020	U	ug/L	P437880	
		Sucralose	0.063		ug/L	P437799	
		Bentazon	8.0E-04	U	ug/L	P437880	MS
		Benzovindiflupyr	0.0020	U	ug/L	P437880	
		Carbamazepine	8.0E-04	U	ug/L	P437880	
		Clothianidin	0.0020	U	ug/L	P437880	
		Dinotefuran	0.0020	U	ug/L	P437880	
		Diuron	0.0020	U	ug/L	P437880	
		Fenuron	0.032	U	ug/L	P437880	
		Fluridone	9.8E-04	I	ug/L	P437880	
		Imazapyr	0.041		ug/L	P437880	
		Hydrocodone	0.0020	U	ug/L	P437880	

Field ID: G4SW0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2451942	EPA 8321B	Ibuprofen	0.080	U	ug/L	P437880	
		Imidacloprid	0.0020	U	ug/L	P437880	
		Linuron	0.0040	U	ug/L	P437880	
		Mandestrobin	0.0020	U	ug/L	P437880	
		MCP	0.0020	U	ug/L	P437880	
		Naproxen	0.0080	U	ug/L	P437880	
		Primidone	0.0040	U	ug/L	P437880	
		Pyraclostrobin	0.0020	U	ug/L	P437880	
		Silvex	0.0040	U	ug/L	P437880	
		Thiamethoxam	0.0020	U	ug/L	P437880	
		Tolfenpyrad	0.0020	U	ug/L	P437880	
		Triclopyr	0.0040	U	ug/L	P437880	
2451943	EPA 8270E	Aldrin	0.69	UQ	ng/L	P439005	
		Alpha-BHC	0.11	UQ	ng/L	P439005	
		Alpha-Chlordane	0.21	UQ	ng/L	P439005	
		PCB-1016	2.1	U	ng/L	P437943	
		Beta-BHC	0.11	UQ	ng/L	P439005	MS, RPD
		PCB-1221	2.1	U	ng/L	P437943	
		Beta-Cyfluthrin	1.3	UQ	ng/L	P439005	
		PCB-1232	2.1	U	ng/L	P437943	
		Bifenthrin	0.53	UQ	ng/L	P439005	
		PCB-1242	2.1	U	ng/L	P437943	
		Carbophenothion	0.95	UQ	ng/L	P439005	
		PCB-1248	2.1	U	ng/L	P437943	
		Chlorothalonil	3.8	UQ	ng/L	P439005	
		PCB-1254	2.1	U	ng/L	P437943	
		Cis-Nonachlor	0.21	UQ	ng/L	P439005	
		PCB-1260	2.1	U	ng/L	P437943	
		Cypermethrin	1.6	UQ	ng/L	P439005	
		Dacthal	0.16	UQ	ng/L	P439005	
		DDD-p,p'	0.27	IQ	ng/L	P439005	
		DDE-p,p'	0.21	UQ	ng/L	P439005	
		DDT-p,p'	0.85	UQ	ng/L	P439005	
		Delta-BHC	0.42	UQ	ng/L	P439005	
		Deltamethrin	1.3	UQ	ng/L	P439005	
		Dichlobenil	0.26	UQ	ng/L	P439005	
		Dicofol	1.3	UQ	ng/L	P439005	
		Dieldrin	0.42	UQ	ng/L	P439005	RPD
		Endosulfan I	0.42	UQ	ng/L	P439005	
		Endosulfan II	0.95	UQ	ng/L	P439005	
		Endosulfan Sulfate	0.32	UQ	ng/L	P439005	
		Endrin	0.95	UQ	ng/L	P439005	
		Endrin Aldehyde	0.79	UQ	ng/L	P439005	
		Endrin Ketone	0.42	UQ	ng/L	P439005	
		Esfenvalerate	0.79	UQ	ng/L	P439005	

Field ID: G4SW0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2451943	EPA 8270E	Ethalfuralin	0.16	UQ	ng/L	P439005	RPD	
		Fenpropathrin	0.26	UQ	ng/L	P439005		
		Gamma-BHC	0.13	UQ	ng/L	P439005	MS, RPD	
		Gamma-Chlordane	0.21	UQ	ng/L	P439005		
		Heptachlor	0.21	UQ	ng/L	P439005		
		Heptachlor Epoxide	0.26	UQ	ng/L	P439005		
		Hexachlorobenzene**	1.1	UQ	ng/L	P439005		
		Kepone	14	UQ	ng/L	P439005		
		Lambda-Cyhalothrin	0.79	UQ	ng/L	P439005		
		Methoprene	0.79	UQ	ng/L	P439005		
		Methoxychlor	0.32	UQ	ng/L	P439005		
		MGK-264	0.21	UQ	ng/L	P439005		
		Mirex	0.37	UQ	ng/L	P439005	RPD	
		Oxychlordane	0.32	UQ	ng/L	P439005		
		Permethrin	1.7	UQ	ng/L	P439005		
		Phenothrin	0.95	UQ	ng/L	P439005		
		Piperonyl Butoxide	0.28	IQ	ng/L	P439005		
		Prallethrin	2.1	UQ	ng/L	P439005		
		Tau-Fluvalinate	0.26	UQ	ng/L	P439005		
		Tetramethrin	0.79	UQ	ng/L	P439005		
		Trans-Nonachlor	0.21	UQ	ng/L	P439005	MS, RPD	
		Triclosan Methyl	0.16	UQ	ng/L	P439005		
		Trifluralin	0.21	UQ	ng/L	P439005	RPD	
		EPA 8276	Chlordane	2.1	U	ng/L	P437943	
			Toxaphene	16	U	ng/L	P437943	
2451944	EPA 8270E	Oxybenzone**	11	U	ng/L	P437970		
		Acetochlor	0.22	U	ng/L	P437970		
		Octinoxate**	160	U	ng/L	P437970		
		Alachlor	0.43	U	ng/L	P437970		
		Avobenzone**	110	U	ng/L	P437970		
		Ametryn	1.2	U	ng/L	P437970		
		Atrazine	2.2		ng/L	P437970		
		PBDE-47**	4.3	U	ng/L	P437970		
		Atrazine Desethyl	1.4	U	ng/L	P437970		
		PBDE-99**	5.4	U	ng/L	P437970		
		Azinphos Methyl	3.2	UJ	ng/L	P437970	LCS, MS	
		Tri-o-cresyl Phosphate**	6.5	U	ng/L	P437970		
		Azoxystrobin	0.43	U	ng/L	P437970		
		Bromacil	0.65	U	ng/L	P437970		
		2-Ethylhexyl	13	U	ng/L	P437970		
		2,3,4,5-tetrabromobenzoate (EHTBB)**						
		Butylate	0.48	U	ng/L	P437970		
		Dechlorane Plus**	32	U	ng/L	P437970		
		Caffeine**	12	I	ng/L	P437970		
		Dechlorane 602**	5.4	U	ng/L	P437970		

Field ID: G4SW0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2451944	EPA 8270E	Carbophenothion	0.54	U	ng/L	P437970	CCV
		Dechlorane 603**	4.3	U	ng/L	P437970	
		Carfentrazone Ethyl	0.16	U	ng/L	P437970	
		Hexabromobenzene**	6.5	U	ng/L	P437970	
		Chlorfenapyr	0.32	UJ	ng/L	P437970	
		PBB-153**	6.5	U	ng/L	P437970	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P437970	
		Pentabromotoluene**	3.2	U	ng/L	P437970	
		Chlorpyrifos Methyl	0.11	U	ng/L	P437970	
		Tris(2-chloroethyl) phosphate (TCEP)**	59	U	ng/L	P437970	
		Coumaphos	1.1	U	ng/L	P437970	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	47	I	ng/L	P437970	
		Cyanazine	5.4	U	ng/L	P437970	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.7	U	ng/L	P437970	
		Cyprodinil	0.22	U	ng/L	P437970	
		Tetradecachloro-m-terphenyl**	8.1	U	ng/L	P437970	
		Demeton	3.8	U	ng/L	P437970	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	65	U	ng/L	P437970	
		Diazinon	0.13	U	ng/L	P437970	MS
		Difenoconazole	0.65	U	ng/L	P437970	
		Dimethenamid	0.11	U	ng/L	P437970	
		Dimethomorph	0.32	U	ng/L	P437970	
		Disulfoton	0.65	U	ng/L	P437970	
		Dithiopyr	1.1	U	ng/L	P437970	
		EPTC	0.54	U	ng/L	P437970	
		Ethion	0.32	U	ng/L	P437970	
		Ethoprop	0.13	U	ng/L	P437970	
		Etridiazole	0.11	U	ng/L	P437970	
		Fenamiphos	0.48	U	ng/L	P437970	
		Fenbuconazole	0.54	U	ng/L	P437970	
		Fipronil	0.22	UJ	ng/L	P437970	CCV
		Fipronil Desulfinyl**	0.11	I	ng/L	P437970	
		Fipronil Sulfide	0.20	I	ng/L	P437970	
		Fipronil Sulfone	0.25	I	ng/L	P437970	
		Fluazifop-P-butyl	0.11	U	ng/L	P437970	
		Fludioxonil	0.11	U	ng/L	P437970	
		Flumioxazin	3.2	U	ng/L	P437970	
		Flutolanil	0.11	U	ng/L	P437970	
		Fluxapyroxad	0.27	U	ng/L	P437970	
		Fonofos	0.16	U	ng/L	P437970	
		Hexazinone	0.54	U	ng/L	P437970	
		Imazalil	0.70	U	ng/L	P437970	
		Iprodione	0.54	U	ng/L	P437970	
		Loratadine**	0.32	U	ng/L	P437970	

Field ID: G4SW0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2451944	EPA 8270E	Malathion	0.38	U	ng/L	P437970	
		Metalaxyl	0.54	U	ng/L	P437970	
		Metolachlor	0.81	U	ng/L	P437970	
		Metribuzin	0.43	U	ng/L	P437970	
		Mevinphos	1.1	U	ng/L	P437970	
		Molinate	0.27	U	ng/L	P437970	
		Myclobutanil	0.38	U	ng/L	P437970	
		Naled	2.7	U	ng/L	P437970	
		Napropamide	0.75	U	ng/L	P437970	
		Norflurazon	1.1	U	ng/L	P437970	
		Oxadiazon	2.0		ng/L	P437970	
		Oxyfluorfen	0.22	U	ng/L	P437970	
		Parathion Ethyl	0.16	U	ng/L	P437970	
		Parathion Methyl	0.22	U	ng/L	P437970	
		Pendimethalin	1.8	U	ng/L	P437970	
		Phenytol**	5.7	U	ng/L	P437970	
		Phorate	0.27	U	ng/L	P437970	
		Prodiamine	0.22	U	ng/L	P437970	RPD
		Prometon	3.2	U	ng/L	P437970	
		Prometryn	0.38	U	ng/L	P437970	
		Pronamide	0.11	U	ng/L	P437970	
		Propanil	0.11	U	ng/L	P437970	
		Propargite	0.86	U	ng/L	P437970	
		Propiconazole	0.65	U	ng/L	P437970	
		Pyraflufen Ethyl	0.32	U	ng/L	P437970	
		Pyridaben	1.5	U	ng/L	P437970	
		Pyriproxyfen	0.27	U	ng/L	P437970	
		Simazine	0.27	U	ng/L	P437970	
		Stirophos	0.43	U	ng/L	P437970	
		Sulfentrazone	1.5	U	ng/L	P437970	
		Tebuconazole	1.5	U	ng/L	P437970	
		Terbufos	0.22	UJ	ng/L	P437970	LCS
		Terbutylazine	0.22	U	ng/L	P437970	
		Thiobencarb	0.54	U	ng/L	P437970	
		Triadimefon	0.16	U	ng/L	P437970	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. The PQL was elevated because of sample matrix interference.

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8321B: The matrix spike and LCS recoveries for afidopyropen could not be evaluated due to laboratory technical difficulties.

EPA 8270E: Sample expired for preparation due to need for re-extraction.

EPA 8270E: MS accuracy for atrazine and hexazinone 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.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P437925

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P437928

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438317

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438320

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438432

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438036

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438169

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438252

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438207

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: P437912

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

Reference Method: EPA 8270E
Batch ID: P437943

Component	Result	Code	Units
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

Reference Method: EPA 8270E
Batch ID: P437970

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P437970

Component	Result	Code	Units
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P437970

Component	Result	Code	Units
Stiropfos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8270E

Batch ID: P439005

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
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P439005

Component	Result	Code	Units
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
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P437943

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

Reference Method: EPA 8321B
Batch ID: P437799

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: P437880

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P437880

Component	Result	Code	Units
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: P437881

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

Reference Method: SM 2320 B-2011

Batch ID: P438164

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

Reference Method: SM 2540 C-2015

Batch ID: P438344

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P438340

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P438166

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P438144

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

Reference Method: SM 5310 B-2011
Batch ID: P438145

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: P437925

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P437928

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438317

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438320

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438432

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438036

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438169

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438207

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P437912

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.6		P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P437943

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PCB-1016	102		P	45 - 107
PCB-1260	101		P	40 - 112

Reference Method: EPA 8270E
 Batch ID: P437970

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	98.8		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.8		P	37 - 154
Acetochlor	78.6		P	64 - 124
Alachlor	76.8		P	61 - 118
Ametryn	108		P	47 - 158
Atrazine	77.3		P	68 - 121
Atrazine Desethyl	87.1		P	30 - 119
Avobenzone	119		P	48 - 193
Azinphos Methyl	19.8		F	30 - 194
Azoxystrobin	87.3		P	58 - 154
Bromacil	102		P	47 - 126
Butylate	46.0		P	31 - 83.0
Caffeine	71.0		P	10 - 180
Carbophenothion	82.7		P	59 - 133
Carfentrazone Ethyl	114		P	59 - 147
Chlorfenapyr	52.7		P	52 - 118
Chlorpyrifos Ethyl	67.4		P	59 - 119
Chlorpyrifos Methyl	70.9		P	65 - 123
Coumaphos	128		P	11 - 223
Cyanazine	94.3		P	63 - 250
Cyprodinil	86.1		P	52 - 143
Dechlorane 602	100		P	23 - 142
Dechlorane 603	100		P	51 - 171
Dechlorane Plus	119		P	46 - 161
Demeton	44.1		P	42 - 119
Diazinon	98.4		P	67 - 132
Difenoconazole	101		P	12 - 204
Dimethenamid	71.5		P	53 - 113
Dimethomorph	139		P	13 - 238
Disulfoton	68.6		P	56 - 126
Dithiopyr	91.0		P	58 - 127
EPTC	48.6		P	31 - 78.0
Ethion	78.3		P	24 - 127
Ethoprop	63.2		P	60 - 118
Etridiazole	60.6		P	32 - 91.0
Fenamiphos	71.8		P	54 - 129
Fenbuconazole	105		P	31 - 162
Fipronil	75.8		P	56 - 131
Fipronil Desulfinyl	80.0		P	58 - 132

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P437970

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fipronil Sulfide	96.2		P	51 - 123
Fipronil Sulfone	71.7		P	50 - 125
Fluazifop-P-butyl	75.1		P	52 - 132
Fludioxonil	75.8		P	52 - 129
Flumioxazin	97.8		P	34 - 250
Flutolanil	81.5		P	45 - 128
Fluxapyroxad	73.7		P	31 - 150
Fonofos	64.1		P	60 - 116
Hexabromobenzene	91.4		P	52 - 165
Hexazinone	85.5		P	59 - 120
Imazalil	73.5		P	39 - 134
Iprodione	92.6		P	39 - 243
Loratadine	122		P	10 - 240
Malathion	78.3		P	53 - 145
Metalaxyl	78.7		P	59 - 120
Metolachlor	82.5		P	64 - 122
Metribuzin	79.3		P	33 - 128
Mevinphos	64.4		P	48 - 119
Molinate	43.2		P	42 - 89.0
Myclobutanil	92.9		P	54 - 129
Naled	43.7		P	10 - 138
Napropamide	90.1		P	40 - 122
Norflurazon	71.1		P	49 - 132
Octinoxate	101		P	29 - 176
Oxadiazon	84.6		P	50 - 115
Oxybenzone	93.9		P	45 - 145
Oxyfluorfen	104		P	62 - 149
Parathion Ethyl	72.6		P	68 - 119
Parathion Methyl	114		P	68 - 147
PBB-153	94.0		P	42 - 179
PBDE-47	98.7		P	44 - 141
PBDE-99	94.3		P	36 - 141
Pendimethalin	107		P	59 - 158
Pentabromotoluene	90.8		P	58 - 148
Phenytol	65.3		P	10 - 151
Phorate	52.2		P	44 - 124
Prodiamine	31.8		P	10 - 136
Prometon	105		P	45 - 131
Prometryn	89.3		P	52 - 140
Pronamide	98.7		P	70 - 129
Propanil	113		P	54 - 144
Propargite	100		P	10 - 191
Propiconazole	69.5		P	49 - 128
Pyraflufen Ethyl	98.1		P	46 - 141
Pyridaben	108		P	29 - 198
Pyriproxyfen	46.7		P	33 - 221
Simazine	79.1		P	62 - 119
Stirophos	102		P	13 - 144
Sulfentrazone	76.1		P	12 - 152
Tebuconazole	97.6		P	10 - 135
Terbufos	64.2		F	67 - 136
Terbutylazine	78.4		P	66 - 113

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P437970

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Tetradecachloro-m-terphenyl	95.4		P	30 - 235
Thiobencarb	97.3		P	51 - 125
Tri-o-cresyl Phosphate	112		P	50 - 150
Triadimefon	97.7		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	115		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	107		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	120		P	59 - 166

Reference Method: EPA 8270E

Batch ID: P439005

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.1		P	30 - 96.0
Alpha-BHC	94.5		P	70 - 109
Alpha-Chlordane	81.7		P	45 - 107
Beta-BHC	103		P	64 - 138
Beta-Cyfluthrin	103		P	17 - 141
Bifenthrin	88.7		P	10 - 113
Carbophenothion	64.8		P	24 - 91.0
Chlorothalonil	75.3		P	26 - 180
Cis-Nonachlor	77.1		P	37 - 102
Cypermethrin	97.1		P	20 - 133
Dacthal	75.9		P	69 - 114
DDD-p,p'	81.5		P	42 - 105
DDE-p,p'	58.8		P	42 - 106
DDT-p,p'	74.4		P	42 - 107
Delta-BHC	84.4		P	67 - 144
Deltamethrin	149		P	15 - 149
Dichlobenil	72.3		P	46 - 117
Dicofol	72.9		P	34 - 114
Dieldrin	80.1		P	50 - 108
Endosulfan I	102		P	55 - 104
Endosulfan II	80.0		P	51 - 111
Endosulfan Sulfate	84.0		P	56 - 121
Endrin	101		P	10 - 106
Endrin Aldehyde	92.7		P	34 - 114
Endrin Ketone	124		P	63 - 177
Esfenvalerate	126		P	29 - 143
Ethalfuralin	92.2		P	46 - 96.0
Fenpropathrin	79.6		P	28 - 115
Gamma-BHC	88.4		P	65 - 121
Gamma-Chlordane	80.1		P	39 - 103
Heptachlor	69.4		P	39 - 94.0
Heptachlor Epoxide	69.6		P	54 - 104
Hexachlorobenzene	60.4		P	36 - 100
Kepone	124		P	10 - 225
Lambda-Cyhalothrin	123		P	10 - 135
Methoprene	60.5		P	10 - 109
Methoxychlor	99.9		P	52 - 112
MGK-264	89.5		P	44 - 117
Mirex	74.6		P	20 - 90.0
Oxychlordane	50.2		P	44 - 102

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P439005

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Permethrin	111		P	18 - 135
Phenothrin	99.4		P	10 - 102
Piperonyl Butoxide	110		P	28 - 156
Prallethrin	102		P	28 - 113
Tau-Fluvalinate	119		P	10 - 123
Tetramethrin	91.7		P	18 - 158
Trans-Nonachlor	55.0		P	39 - 104
Triclosan Methyl	79.3		P	54 - 108
Trifluralin	62.0		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P437943

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	70.5		P	52 - 117
Toxaphene	78.0		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P437799

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	109		P	40 - 150
AMPA	104		P	40 - 160
Endothall	108		P	40 - 160
Glufosinate	100		P	40 - 160
Glyphosate	101		P	40 - 160
Sucralose	99.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P437880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	105		P	40 - 150
2,4,5-T	91.0		P	40 - 150
Acetaminophen	95.2		P	30 - 150
Acetamiprid	95.8		P	40 - 150
Bentazon	66.4		P	30 - 150
Benzovindiflupyr	92.8		P	40 - 150
Carbamazepine	76.6		P	40 - 150
Clothianidin	97.7		P	40 - 150
Dinotefuran	99.6		P	40 - 150
Diuron	70.8		P	40 - 150
Fenuron	93.2		P	40 - 150
Fluridone	88.6		P	40 - 150
Hydrocodone	112		P	40 - 150
Ibuprofen	65.0		P	40 - 150
Imazapyr	91.6		P	40 - 150
Imidacloprid	94.8		P	40 - 150
Linuron	76.6		P	40 - 150
Mandestrobin	101		P	40 - 150
MCPP	96.4		P	40 - 150
Naproxen	60.7		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P437880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Primidone	92.3		P	40 - 150
Pyraclostrobin	93.9		P	40 - 150
Silvex	87.1		P	40 - 150
Thiamethoxam	93.1		P	40 - 150
Tolfenpyrad	62.6		P	30 - 150
Triclopyr	105		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P437881

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	69.0		P	40 - 150
Aldicarb	43.6		P	30 - 150
Aldicarb Sulfone	79.6		P	40 - 150
Aldicarb Sulfoxide	117		P	40 - 150
Carbaryl	60.8		P	40 - 150
Carbofuran	63.4		P	40 - 150
Methiocarb	56.4		P	40 - 150
Methomyl	68.3		P	40 - 150
Oxamyl	73.8		P	40 - 150
Propoxur	58.4		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P438164

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

Reference Method: SM 2540 C-2015
Batch ID: P438344

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.0		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P438340

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

Reference Method: SM 4500-F- C-2011
Batch ID: P438166

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.7		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P438144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.9		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P438145

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: P438317

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451931	Chloride	102		P	90 - 110
2451950	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438320

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451931	Sulfate	105		P	90 - 110
2451950	Sulfate	105		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438432

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451810	Ammonia-N	98.6	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438036

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451810	Kjeldahl Nitrogen	109	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451951	Kjeldahl Nitrogen	100	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451932	NO2NO3-N	103	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438207

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451937	Total-P	101	95.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P437912

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451854	O-Phosphate-P	100	99.9	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P437943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452054	PCB-1016	63.5	67.0	P/P	45 - 107
2452054	PCB-1260	70.6	83.2	P/P	40 - 112

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P437970

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451648	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	109	108	P/P	50 - 150
2451648	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	110	94.8	P/P	29 - 155
2451648	Acetochlor	88.5	68.0	P/P	60 - 124
2451648	Alachlor	77.5	77.5	P/P	54 - 122
2451648	Ametryn	108	107	P/P	51 - 208
2451648	Atrazine Desethyl	97.0	88.7	P/P	13 - 124
2451648	Avobenzone	147	130	P/P	35 - 187
2451648	Azinphos Methyl	14.5	16.8	F/F	43 - 276
2451648	Azoxystrobin	89.5	94.8	P/P	52 - 300
2451648	Bromacil	109	95.7	P/P	44 - 134
2451648	Butylate	42.0	38.9	P/P	23 - 82.0
2451648	Caffeine	89.7	89.6	P/P	10 - 277
2451648	Carbophenothion	94.3	78.4	P/P	47 - 135
2451648	Carfentrazone Ethyl	98.1	86.8	P/P	46 - 147
2451648	Chlorfenapyr	56.2	63.9	P/P	43 - 114
2451648	Chlorpyrifos Ethyl	75.1	82.0	P/P	47 - 124
2451648	Chlorpyrifos Methyl	100	97.1	P/P	60 - 135
2451648	Coumaphos	134	112	P/P	10 - 222
2451648	Cyanazine	110	98.9	P/P	10 - 257
2451648	Cyprodinil	101	102	P/P	42 - 148
2451648	Dechlorane 602	100	87.2	P/P	14 - 133
2451648	Dechlorane 603	93.3	75.8	P/P	18 - 191
2451648	Dechlorane Plus	86.0	75.9	P/P	23 - 154
2451648	Demeton	62.6	68.6	P/P	41 - 137
2451648	Diazinon	112	94.1	P/P	64 - 139
2451648	Difenoconazole	123	105	P/P	46 - 254
2451648	Dimethenamid	68.5	78.8	P/P	47 - 117
2451648	Dimethomorph	181	165	P/P	14 - 255
2451648	Disulfoton	91.1	81.4	P/P	52 - 130
2451648	Dithiopyr	72.3	69.7	P/P	40 - 121
2451648	EPTC	40.1	37.1	P/P	19 - 78.0
2451648	Ethion	89.5	57.2	P/P	12 - 124
2451648	Ethoprop	70.3	67.9	P/F	68 - 144
2451648	Etridiazole	55.4	43.1	P/P	26 - 96.0
2451648	Fenamiphos	50.9	52.2	P/P	41 - 129
2451648	Fenbuconazole	93.1	70.1	P/P	26 - 169
2451648	Fipronil	79.0	75.8	P/P	46 - 145
2451648	Fipronil Desulfinyl	84.9	68.4	P/P	47 - 136
2451648	Fipronil Sulfide	99.6	87.0	P/P	41 - 127
2451648	Fipronil Sulfone	72.7	71.4	P/P	35 - 133
2451648	Fluazifop-P-butyl	85.5	91.8	P/P	46 - 131
2451648	Fludioxonil	67.0	77.4	P/P	51 - 124
2451648	Flumioxazin	143	140	P/P	10 - 289
2451648	Flutolanil	89.7	91.8	P/P	34 - 130
2451648	Fluxapyroxad	76.3	77.2	P/P	10 - 197
2451648	Fonofos	84.2	85.6	P/P	42 - 131
2451648	Hexabromobenzene	109	74.8	P/P	47 - 178
2451648	Imazalil	117	106	P/P	37 - 252
2451648	Iprodione	102	86.0	P/P	34 - 265
2451648	Loratadine	163	105	P/P	20 - 231
2451648	Malathion	83.9	96.9	P/P	34 - 164
2451648	Metalaxyl	69.5	68.8	P/P	49 - 125

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P437970

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451648	Metolachlor	91.3	91.9	P/P	54 - 125
2451648	Metribuzin	86.5	84.0	P/P	51 - 139
2451648	Mevinphos	77.3	75.5	P/P	46 - 130
2451648	Molinate	45.4	47.5	P/P	39 - 93.0
2451648	Myclobutanil	76.2	66.9	P/P	50 - 130
2451648	Naled	34.9	26.2	P/P	10 - 150
2451648	Napropamide	83.0	78.5	P/P	10 - 109
2451648	Norflurazon	81.4	70.1	P/P	36 - 134
2451648	Octinoxate	109	111	P/P	18 - 170
2451648	Oxadiazon	77.6	65.8	P/P	43 - 112
2451648	Oxybenzone	107	98.5	P/P	33 - 154
2451648	Oxyfluorfen	109	96.6	P/P	62 - 154
2451648	Parathion Ethyl	88.7	78.3	P/P	65 - 120
2451648	Parathion Methyl	135	120	P/P	77 - 185
2451648	PBB-153	104	80.7	P/P	23 - 193
2451648	PBDE-47	110	103	P/P	31 - 139
2451648	PBDE-99	103	82.6	P/P	24 - 138
2451648	Pendimethalin	138	125	P/P	50 - 146
2451648	Pentabromotoluene	103	98.1	P/P	54 - 152
2451648	Phenytoin	67.5	52.1	P/P	10 - 157
2451648	Phorate	65.9	84.8	P/P	54 - 161
2451648	Prodiamine	44.4	129	P/P	29 - 160
2451648	Prometon	111	98.4	P/P	38 - 145
2451648	Prometryn	99.8	103	P/P	32 - 151
2451648	Pronamide	108	94.9	P/P	61 - 140
2451648	Propanil	135	132	P/P	50 - 147
2451648	Propargite	105	75.2	P/P	10 - 190
2451648	Propiconazole	76.3	78.7	P/P	30 - 146
2451648	Pyraflufen Ethyl	84.0	76.6	P/P	30 - 147
2451648	Pyridaben	91.5	63.8	P/P	15 - 195
2451648	Pyriproxyfen	40.4	35.9	P/P	31 - 218
2451648	Simazine	76.7	85.5	P/P	45 - 139
2451648	Stiropfos	50.4	88.6	P/P	10 - 134
2451648	Sulfentrazone	84.6	64.0	P/P	53 - 186
2451648	Tebuconazole	115	72.8	P/P	10 - 133
2451648	Terbufos	77.7	91.6	P/P	65 - 151
2451648	Terbuthylazine	84.5	83.1	P/P	62 - 117
2451648	Tetradecachloro-m-terphenyl	90.3	97.1	P/P	10 - 260
2451648	Thiobencarb	84.4	81.3	P/P	48 - 122
2451648	Tri-o-cresyl Phosphate	119	112	P/P	32 - 151
2451648	Triadimefon	106	75.2	P/P	46 - 124
2451648	Tris(1-chloro-2-propyl) phosphate (TCPP)	135	129	P/P	51 - 154
2451648	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111	104	P/P	59 - 147
2451648	Tris(2-chloroethyl) phosphate (TCEP)	131	116	P/P	65 - 156

Reference Method: EPA 8270E

Batch ID: P439005

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456282	Aldrin	60.1	47.3	P/P	24 - 81.0
2456282	Alpha-BHC	83.0	71.5	P/P	65 - 110
2456282	Alpha-Chlordane	53.1	68.5	P/P	43 - 119

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P439005

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2456282	Beta-BHC	51.6	92.8	F/P	54 - 165
2456282	Beta-Cyfluthrin	95.1	86.4	P/P	27 - 165
2456282	Bifenthrin	82.0	73.3	P/P	17 - 117
2456282	Carbophenothion	56.6	57.8	P/P	21 - 108
2456282	Chlorothalonil	54.8	76.5	P/P	10 - 255
2456282	Cis-Nonachlor	94.3	82.1	P/P	34 - 98.0
2456282	Cypermethrin	67.9	82.1	P/P	25 - 143
2456282	Dacthal	79.6	83.5	P/P	55 - 139
2456282	DDD-p,p'	92.1	72.4	P/P	30 - 109
2456282	DDE-p,p'	46.2	52.3	P/P	35 - 106
2456282	DDT-p,p'	62.4	64.7	P/P	41 - 101
2456282	Delta-BHC	83.7	94.0	P/P	58 - 165
2456282	Deltamethrin	76.0	120	P/P	10 - 194
2456282	Dichlobenil	48.9	69.1	P/P	22 - 114
2456282	Dicofol	66.8	74.2	P/P	17 - 133
2456282	Dieldrin	123	61.1	P/P	45 - 129
2456282	Endosulfan I	77.5	70.9	P/P	49 - 104
2456282	Endosulfan II	66.3	67.8	P/P	37 - 117
2456282	Endosulfan Sulfate	91.9	82.8	P/P	38 - 128
2456282	Endrin	82.7	78.2	P/P	35 - 116
2456282	Endrin Aldehyde	105	95.6	P/P	19 - 108
2456282	Endrin Ketone	115	93.8	P/P	44 - 134
2456282	Esfenvalerate	87.9	99.7	P/P	27 - 176
2456282	Ethalfuralin	71.3	53.8	P/P	49 - 100
2456282	Fenpropathrin	74.5	70.5	P/P	34 - 117
2456282	Gamma-BHC	44.6	76.5	F/P	59 - 129
2456282	Gamma-Chlordane	66.7	67.3	P/P	33 - 107
2456282	Heptachlor	59.1	46.4	P/P	37 - 94.0
2456282	Heptachlor Epoxide	89.5	81.2	P/P	38 - 118
2456282	Hexachlorobenzene	37.6	41.2	P/P	35 - 97.0
2456282	Kepone	104	137	P/P	10 - 221
2456282	Lambda-Cyhalothrin	88.5	85.0	P/P	23 - 190
2456282	Methoprene	39.4	42.1	P/P	21 - 109
2456282	Methoxychlor	109	87.3	P/P	46 - 118
2456282	MGK-264	75.5	80.7	P/P	39 - 122
2456282	Mirex	34.0	65.3	P/P	25 - 90.0
2456282	Oxychlordane	44.0	53.5	P/P	42 - 100
2456282	Permethrin	101	71.9	P/P	33 - 181
2456282	Phenothrin	53.5	70.5	P/P	12 - 125
2456282	Piperonyl Butoxide	56.0	86.0	P/P	10 - 178
2456282	Prallethrin	103	89.8	P/P	24 - 122
2456282	Tau-Fluvalinate	88.3	122	P/P	13 - 151
2456282	Tetramethrin	68.8	81.9	P/P	16 - 172
2456282	Trans-Nonachlor	30.9	81.7	F/P	39 - 100
2456282	Triclosan Methyl	49.4	66.7	P/P	43 - 110
2456282	Trifluralin	58.8	77.7	P/P	45 - 94.0

Reference Method: EPA 8276

Batch ID: P437943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452054	Chlordane	51.8	61.3	P/P	43 - 123

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P437943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452054	Toxaphene	55.0	66.2	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P437799

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451421	Acesulfame K	121	124	P/P	40 - 150
2451421	AMPA	97.9	97.4	P/P	40 - 160
2451421	Endothall	108	102	P/P	40 - 160
2451421	Glufosinate	98.7	99.3	P/P	40 - 160
2451421	Glyphosate	101	93.1	P/P	40 - 160
2451421	Sucralose	94.0	95.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P437880

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451421	2,4-D	89.5	103	P/P	40 - 150
2451421	2,4,5-T	84.6	89.0	P/P	40 - 150
2451421	Acetaminophen	108	106	P/P	30 - 150
2451421	Acetamiprid	44.1	41.6	P/P	40 - 150
2451421	Bentazon	23.3	24.0	F/F	30 - 150
2451421	Benzovindiflupyr	79.4	84.4	P/P	40 - 150
2451421	Carbamazepine	56.7	58.3	P/P	40 - 150
2451421	Clothianidin	76.0	81.0	P/P	40 - 150
2451421	Dinotefuran	67.7	70.7	P/P	40 - 150
2451421	Diuron	54.3	56.2	P/P	40 - 150
2451421	Fenuron	50.7	52.3	P/P	40 - 150
2451421	Fluridone	65.6	70.7	P/P	40 - 150
2451421	Hydrocodone	73.0	78.8	P/P	40 - 150
2451421	Ibuprofen	53.8	54.7	P/P	40 - 150
2451421	Imazapyr	87.4	90.6	P/P	40 - 150
2451421	Imidacloprid	101	106	P/P	40 - 150
2451421	Linuron	63.1	62.4	P/P	40 - 150
2451421	Mandestrobin	83.0	84.7	P/P	40 - 150
2451421	MCPP	83.5	90.4	P/P	40 - 150
2451421	Naproxen	79.7	70.7	P/P	40 - 150
2451421	Primidone	76.2	73.7	P/P	40 - 150
2451421	Pyraclostrobin	84.6	90.3	P/P	40 - 150
2451421	Silvex	88.6	90.1	P/P	40 - 150
2451421	Thiamethoxam	77.0	82.2	P/P	40 - 150
2451421	Tolfenpyrad	52.9	54.2	P/P	30 - 150
2451421	Triclopyr	82.5	87.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P437881

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2450834	3-Hydroxycarbofuran	91.5	95.4	P/P	40 - 150
2450834	Aldicarb	84.6	83.1	P/P	30 - 150
2450834	Aldicarb Sulfone	85.3	82.2	P/P	40 - 150
2450834	Aldicarb Sulfoxide	36.8	35.3	F/F	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P437881

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2450834	Carbaryl	55.6	50.4	P/P	40 - 150
2450834	Carbofuran	49.6	48.6	P/P	40 - 150
2450834	Methiocarb	61.2	53.9	P/P	40 - 150
2450834	Methomyl	69.7	70.2	P/P	40 - 150
2450834	Oxamyl	75.1	74.9	P/P	40 - 150
2450834	Propoxur	49.0	47.4	P/P	40 - 150

Reference Method: SM 5310 B-2011
Batch ID: P438144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2450488	Organic Carbon	92.3	93.0	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P438145

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451619	Organic Carbon	95.3	95.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P437925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451931	Color (true)	2.48	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P437928

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451948	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451931	Chloride	3.61	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438320

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451931	Sulfate	2.56	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451810	Ammonia-N	1.06	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438036

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451810	Kjeldahl Nitrogen	5.38	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451951	Kjeldahl Nitrogen	0.884	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451932	NO2NO3-N	2.39	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P438207

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451937	Total-P	5.27	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P437912

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451854	O-Phosphate-P	0.599	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P437943

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452054	PCB-1016	5.25	Spike	P	0 - 25
2452054	PCB-1260	16.4	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P437970

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451648	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	1.31	Spike	P	0 - 30
2451648	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	14.4	Spike	P	0 - 35
2451648	Acetochlor	26.2	Spike	P	0 - 28
2451648	Alachlor	0.00605	Spike	P	0 - 30
2451648	Ametryn	0.732	Spike	P	0 - 32
2451648	Atrazine	2.00	Spike	P	0 - 33
2451648	Atrazine Desethyl	7.45	Spike	P	0 - 36
2451648	Avobenzone	12.4	Spike	P	0 - 35
2451648	Azinphos Methyl	14.5	Spike	P	0 - 62
2451648	Azoxystrobin	5.75	Spike	P	0 - 39
2451648	Bromacil	13.0	Spike	P	0 - 33
2451648	Butylate	7.59	Spike	P	0 - 51
2451648	Caffeine	0.0798	Spike	P	0 - 100
2451648	Carbophenothion	18.5	Spike	P	0 - 34
2451648	Carfentrazone Ethyl	12.3	Spike	P	0 - 33
2451648	Chlorfenapyr	12.8	Spike	P	0 - 28
2451648	Chlorpyrifos Ethyl	8.86	Spike	P	0 - 31
2451648	Chlorpyrifos Methyl	3.24	Spike	P	0 - 27
2451648	Coumaphos	17.6	Spike	P	0 - 62
2451648	Cyanazine	10.8	Spike	P	0 - 48
2451648	Cyprodinil	1.50	Spike	P	0 - 29
2451648	Dechlorane 602	13.7	Spike	P	0 - 60
2451648	Dechlorane 603	20.7	Spike	P	0 - 40
2451648	Dechlorane Plus	12.6	Spike	P	0 - 38
2451648	Demeton	9.22	Spike	P	0 - 33
2451648	Diazinon	17.1	Spike	P	0 - 32
2451648	Difenoconazole	15.8	Spike	P	0 - 71
2451648	Dimethenamid	13.9	Spike	P	0 - 60
2451648	Dimethomorph	9.08	Spike	P	0 - 61

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P437970

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451648	Disulfoton	11.3	Spike	P	0 - 30
2451648	Dithiopyr	3.74	Spike	P	0 - 28
2451648	EPTC	7.72	Spike	P	0 - 56
2451648	Ethion	44.1	Spike	P	0 - 79
2451648	Ethoprop	3.43	Spike	P	0 - 31
2451648	Etridiazole	25.0	Spike	P	0 - 43
2451648	Fenamiphos	2.43	Spike	P	0 - 43
2451648	Fenbuconazole	28.3	Spike	P	0 - 79
2451648	Fipronil	4.05	Spike	P	0 - 46
2451648	Fipronil Desulfinyl	19.4	Spike	P	0 - 36
2451648	Fipronil Sulfide	12.2	Spike	P	0 - 34
2451648	Fipronil Sulfone	1.47	Spike	P	0 - 47
2451648	Fluazifop-P-butyl	7.12	Spike	P	0 - 38
2451648	Fludioxonil	14.4	Spike	P	0 - 29
2451648	Flumioxazin	1.57	Spike	P	0 - 63
2451648	Flutolanil	2.29	Spike	P	0 - 36
2451648	Fluxapyroxad	1.17	Spike	P	0 - 65
2451648	Fonofos	1.68	Spike	P	0 - 35
2451648	Hexabromobenzene	37.1	Spike	P	0 - 41
2451648	Hexazinone	8.67	Spike	P	0 - 31
2451648	Imazalil	10.7	Spike	P	0 - 52
2451648	Iprodione	16.8	Spike	P	0 - 49
2451648	Loratadine	43.3	Spike	P	0 - 59
2451648	Malathion	14.4	Spike	P	0 - 77
2451648	Metalaxyl	1.11	Spike	P	0 - 76
2451648	Metolachlor	0.418	Spike	P	0 - 29
2451648	Metribuzin	2.95	Spike	P	0 - 51
2451648	Mevinphos	2.28	Spike	P	0 - 31
2451648	Molinate	4.59	Spike	P	0 - 39
2451648	Myclobutanil	11.2	Spike	P	0 - 34
2451648	Naled	28.5	Spike	P	0 - 37
2451648	Napropamide	5.63	Spike	P	0 - 100
2451648	Norflurazon	14.9	Spike	P	0 - 54
2451648	Octinoxate	2.30	Spike	P	0 - 35
2451648	Oxadiazon	14.2	Spike	P	0 - 34
2451648	Oxybenzone	8.66	Spike	P	0 - 35
2451648	Oxyfluorfen	12.5	Spike	P	0 - 28
2451648	Parathion Ethyl	12.5	Spike	P	0 - 31
2451648	Parathion Methyl	11.4	Spike	P	0 - 29
2451648	PBB-153	25.4	Spike	P	0 - 49
2451648	PBDE-47	5.75	Spike	P	0 - 36
2451648	PBDE-99	21.8	Spike	P	0 - 46
2451648	Pendimethalin	10.1	Spike	P	0 - 31
2451648	Pentabromotoluene	5.07	Spike	P	0 - 16
2451648	Phenytoin	25.7	Spike	P	0 - 100
2451648	Phorate	25.1	Spike	P	0 - 36
2451648	Prodiamine	97.5	Spike	F	0 - 68
2451648	Prometon	11.6	Spike	P	0 - 35
2451648	Prometryn	3.03	Spike	P	0 - 33
2451648	Pronamide	13.2	Spike	P	0 - 24
2451648	Propanil	1.67	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P437970

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451648	Propargite	32.9	Spike	P	0 - 53
2451648	Propiconazole	3.07	Spike	P	0 - 44
2451648	Pyraflufen Ethyl	9.26	Spike	P	0 - 61
2451648	Pyridaben	22.8	Spike	P	0 - 43
2451648	Pyriproxyfen	12.0	Spike	P	0 - 82
2451648	Simazine	10.9	Spike	P	0 - 29
2451648	Stirophos	55.0	Spike	P	0 - 100
2451648	Sulfentrazone	18.2	Spike	P	0 - 64
2451648	Tebuconazole	32.7	Spike	P	0 - 76
2451648	Terbufos	16.4	Spike	P	0 - 29
2451648	Terbuthylazine	1.57	Spike	P	0 - 28
2451648	Tetradecachloro-m-terphenyl	7.24	Spike	P	0 - 42
2451648	Thiobencarb	3.73	Spike	P	0 - 26
2451648	Tri-o-cresyl Phosphate	6.12	Spike	P	0 - 24
2451648	Triadimefon	34.2	Spike	P	0 - 40
2451648	Tris(1-chloro-2-propyl) phosphate (TCPP)	3.59	Spike	P	0 - 30
2451648	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	6.06	Spike	P	0 - 22
2451648	Tris(2-chloroethyl) phosphate (TCEP)	12.0	Spike	P	0 - 15

Reference Method: EPA 8270E

Batch ID: P439005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456282	Aldrin	23.7	Spike	P	0 - 41
2456282	Alpha-BHC	14.9	Spike	P	0 - 25
2456282	Alpha-Chlordane	9.92	Spike	P	0 - 32
2456282	Beta-BHC	57.0	Spike	F	0 - 33
2456282	Beta-Cyfluthrin	9.65	Spike	P	0 - 43
2456282	Bifenthrin	11.2	Spike	P	0 - 52
2456282	Carbophenothion	2.10	Spike	P	0 - 49
2456282	Chlorothalonil	33.1	Spike	P	0 - 82
2456282	Cis-Nonachlor	11.8	Spike	P	0 - 33
2456282	Cypermethrin	18.9	Spike	P	0 - 51
2456282	Dacthal	4.83	Spike	P	0 - 27
2456282	DDD-p,p'	23.9	Spike	P	0 - 39
2456282	DDE-p,p'	12.4	Spike	P	0 - 31
2456282	DDT-p,p'	3.64	Spike	P	0 - 29
2456282	Delta-BHC	11.5	Spike	P	0 - 35
2456282	Deltamethrin	44.7	Spike	P	0 - 100
2456282	Dichlobenil	34.3	Spike	P	0 - 40
2456282	Dicofol	10.5	Spike	P	0 - 37
2456282	Dieldrin	27.9	Spike	F	0 - 27
2456282	Endosulfan I	8.78	Spike	P	0 - 23
2456282	Endosulfan II	2.29	Spike	P	0 - 34
2456282	Endosulfan Sulfate	10.4	Spike	P	0 - 36
2456282	Endrin	5.55	Spike	P	0 - 45
2456282	Endrin Aldehyde	9.44	Spike	P	0 - 76
2456282	Endrin Ketone	20.7	Spike	P	0 - 43
2456282	Esfenvalerate	12.5	Spike	P	0 - 51
2456282	Ethalfuralin	28.0	Spike	F	0 - 22

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P439005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2456282	Fenpropathrin	5.50	Spike	P	0 - 49
2456282	Gamma-BHC	52.7	Spike	F	0 - 28
2456282	Gamma-Chlordane	0.494	Spike	P	0 - 40
2456282	Heptachlor	24.2	Spike	P	0 - 29
2456282	Heptachlor Epoxide	6.18	Spike	P	0 - 33
2456282	Hexachlorobenzene	9.20	Spike	P	0 - 36
2456282	Kepone	27.6	Spike	P	0 - 85
2456282	Lambda-Cyhalothrin	4.01	Spike	P	0 - 55
2456282	Methoprene	6.62	Spike	P	0 - 53
2456282	Methoxychlor	21.7	Spike	P	0 - 50
2456282	MGK-264	6.68	Spike	P	0 - 43
2456282	Mirex	63.0	Spike	F	0 - 40
2456282	Oxychlordane	19.7	Spike	P	0 - 31
2456282	Permethrin	34.1	Spike	P	0 - 50
2456282	Phenothrin	27.4	Spike	P	0 - 58
2456282	Piperonyl Butoxide	42.2	Spike	P	0 - 100
2456282	Prallethrin	13.9	Spike	P	0 - 39
2456282	Tau-Fluvalinate	32.0	Spike	P	0 - 54
2456282	Tetramethrin	17.5	Spike	P	0 - 51
2456282	Trans-Nonachlor	50.2	Spike	F	0 - 39
2456282	Triclosan Methyl	29.9	Spike	P	0 - 31
2456282	Trifluralin	27.7	Spike	F	0 - 22

Reference Method: EPA 8276
Batch ID: P437943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452054	Chlordane	16.7	Spike	P	0 - 28
2452054	Toxaphene	18.4	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P437799

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451421	Acesulfame K	1.98	Spike	P	0 - 30
2451421	AMPA	0.489	Spike	P	0 - 30
2451421	Endothall	5.95	Spike	P	0 - 30
2451421	Glufosinate	0.549	Spike	P	0 - 30
2451421	Glyphosate	7.98	Spike	P	0 - 30
2451421	Sucralose	1.26	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P437880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451421	2,4-D	13.8	Spike	P	0 - 30
2451421	2,4,5-T	5.15	Spike	P	0 - 30
2451421	Acetaminophen	2.31	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P437880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451421	Acetamiprid	5.73	Spike	P	0 - 30
2451421	Bentazon	2.98	Spike	P	0 - 30
2451421	Benzovindiflupyr	6.13	Spike	P	0 - 30
2451421	Carbamazepine	2.70	Spike	P	0 - 30
2451421	Clothianidin	6.39	Spike	P	0 - 30
2451421	Dinotefuran	4.43	Spike	P	0 - 30
2451421	Diuron	3.43	Spike	P	0 - 30
2451421	Fenuron	3.13	Spike	P	0 - 30
2451421	Fluridone	7.45	Spike	P	0 - 30
2451421	Hydrocodone	7.64	Spike	P	0 - 30
2451421	Ibuprofen	1.77	Spike	P	0 - 30
2451421	Imazapyr	3.10	Spike	P	0 - 30
2451421	Imidacloprid	4.86	Spike	P	0 - 30
2451421	Linuron	1.04	Spike	P	0 - 30
2451421	Mandestrobin	2.10	Spike	P	0 - 30
2451421	MCCP	7.95	Spike	P	0 - 30
2451421	Naproxen	11.9	Spike	P	0 - 30
2451421	Primidone	3.35	Spike	P	0 - 30
2451421	Pyraclostrobin	6.58	Spike	P	0 - 30
2451421	Silvex	1.73	Spike	P	0 - 30
2451421	Thiamethoxam	6.55	Spike	P	0 - 30
2451421	Tolfenpyrad	2.43	Spike	P	0 - 30
2451421	Triclopyr	5.52	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P437881

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2450834	3-Hydroxycarbofuran	4.14	Spike	P	0 - 30
2450834	Aldicarb	1.86	Spike	P	0 - 30
2450834	Aldicarb Sulfone	3.68	Spike	P	0 - 30
2450834	Aldicarb Sulfoxide	4.38	Spike	P	0 - 30
2450834	Carbaryl	9.87	Spike	P	0 - 30
2450834	Carbofuran	2.11	Spike	P	0 - 30
2450834	Methiocarb	12.8	Spike	P	0 - 30
2450834	Methomyl	0.718	Spike	P	0 - 30
2450834	Oxamyl	0.206	Spike	P	0 - 30
2450834	Propoxur	3.47	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P438164

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451859	Total Alkalinity	1.17	Sample	P	0 - 3.9

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P438344

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451565	TDS	2.12	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P438166

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451859	Fluoride	0.473	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P438144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2450488	Organic Carbon	0.689	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P438145

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451619	Organic Carbon	0.262	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2451941
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	43.5	P	30 - 160

Lab Sample ID: 2451942
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	68.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	48.2	P	30 - 160
EPA 8321B	Diuron-d6	46.4	P	30 - 160
EPA 8321B	Endothall-d6	96.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	98.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.6	P	30 - 160
EPA 8321B	Primidone-d5	54.1	P	30 - 160
EPA 8321B	Sucralose-d6	113	P	30 - 160

Lab Sample ID: 2451943
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	51.6	P	37 - 129
EPA 8270E	Decachlorobiphenyl	108	P	26 - 115
EPA 8270E	Decachlorobiphenyl	28.1	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	30.5	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	48.9	P	29 - 95.0
EPA 8270E	Tetrachloro-m-xylene	21.6	F	29 - 95.0
EPA 8276	Decachlorobiphenyl	45.2	P	28 - 102
EPA 8276	PCNB	71.2	P	49 - 115

Lab Sample ID: 2451944
Field Sample ID: G4SW0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	85.9	P	20 - 200
EPA 8270E	Simazine-d10	90.8	P	58 - 137
EPA 8270E	Terbufos-d10	73.9	P	50 - 134
EPA 8270E	Terphenyl-d14	58.2	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A122775

Included Lab Sample IDs: 2451933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	99.4	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A122778

Included Lab Sample IDs: 2451931, 2451934, 2451936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.7	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122779

Included Lab Sample IDs: 2451931, 2451934, 2451936

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

Reference Method: EPA 8321B

Run ID: A122799

Included Lab Sample IDs: 2451942

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	97.8	102	P/P	60 - 160
Endothall	110	102	P/P	60 - 160
Glufosinate	101	87.1	P/P	60 - 160
Glyphosate	98.4	101	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A122812

Included Lab Sample IDs: 2451942

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	111	132	P/P	60 - 160
Sucralose	117	125	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A122873

Included Lab Sample IDs: 2451932, 2451935, 2451937

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.4	95.6	P/P	90 - 110
Organic Carbon	95.8	95.0	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A122884

Included Lab Sample IDs: 2451931, 2451934, 2451936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.3	99.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A122884

Included Lab Sample IDs: 2451931, 2451934, 2451936

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

Reference Method: EPA 8321B

Run ID: A122897

Included Lab Sample IDs: 2451941

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	115	108	P/P	60 - 150
Aldicarb	104	102	P/P	60 - 150
Aldicarb Sulfone	109	110	P/P	50 - 150
Aldicarb Sulfoxide	108	111	P/P	50 - 150
Carbaryl	111	105	P/P	60 - 150
Carbofuran	112	107	P/P	50 - 150
Methiocarb	105	98.4	P/P	50 - 150
Methomyl	103	108	P/P	50 - 150
Oxamyl	106	110	P/P	50 - 150
Propoxur	109	113	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122899

Included Lab Sample IDs: 2451932

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122916

Included Lab Sample IDs: 2451932, 2451935

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.8	99.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122920

Included Lab Sample IDs: 2451932, 2451935, 2451937

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122927

Included Lab Sample IDs: 2451937

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122934

Included Lab Sample IDs: 2451942

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

Reference Method: EPA 8321B
Run ID: A122934
Included Lab Sample IDs: 2451942

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	97.9	97.0	P/P	50 - 150
2,4,5-T	109	101	P/P	50 - 150
Acetaminophen	111	110	P/P	60 - 160
Acetamiprid	109	107	P/P	50 - 150
Afidopyropen	96.9	96.8	P/P	50 - 150
Bentazon	97.8	88.4	P/P	50 - 160
Benzovindiflupyr	105	107	P/P	50 - 150
Carbamazepine	110	106	P/P	60 - 150
Clothianidin	104	108	P/P	60 - 150
Dinotefuran	108	110	P/P	50 - 150
Diuron	117	110	P/P	60 - 160
Fenuron	105	105	P/P	60 - 150
Fluridone	108	107	P/P	60 - 160
Hydrocodone	112	113	P/P	60 - 150
Ibuprofen	84.5	92.2	P/P	50 - 160
Imazapyr	88.0	95.3	P/P	50 - 150
Imidacloprid	96.5	96.8	P/P	60 - 150
Linuron	101	92.1	P/P	60 - 150
Mandestrobin	106	110	P/P	50 - 150
MCPP	107	100	P/P	50 - 150
Naproxen	85.2	71.1	P/P	50 - 160
Primidone	97.3	102	P/P	60 - 150
Pyraclostrobin	117	116	P/P	60 - 150
Silvex	102	89.8	P/P	50 - 150
Thiamethoxam	108	108	P/P	50 - 150
Tolfenpyrad	101	99.0	P/P	60 - 150
Triclopyr	104	98.2	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A122935
Included Lab Sample IDs: 2451935, 2451937

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.2	95.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A122949
Included Lab Sample IDs: 2451931, 2451934, 2451936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	104	105	P/P	90 - 110
Sulfate	104	104	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A122957
Included Lab Sample IDs: 2451943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.2		P	80 - 120
PCB-1260	95.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122988

Included Lab Sample IDs: 2451932, 2451935, 2451937

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.7	98.6	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A123000

Included Lab Sample IDs: 2451944

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	97.2		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.7		P	80 - 120
Avobenzone	99.6		P	80 - 120
Dechlorane 602	101		P	80 - 120
Dechlorane 603	93.6		P	80 - 120
Dechlorane Plus	95.7		P	80 - 120
Hexabromobenzene	95.2		P	80 - 120
Octinoxate	98.4		P	80 - 120
Oxybenzone	103		P	80 - 120
PBB-153	89.7		P	80 - 120
PBDE-47	97.2		P	80 - 120
PBDE-99	96.8		P	80 - 120
Pentabromotoluene	103		P	80 - 120
Tetradecachloro-m-terphenyl	90.5		P	80 - 120
Tri-o-cresyl Phosphate	103		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	104		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	104		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	108		P	80 - 120

Reference Method: EPA 8270E

Run ID: A123076

Included Lab Sample IDs: 2451944

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	85.8		P	80 - 120
Alachlor	92.2		P	80 - 120
Ametryn	97.0		P	80 - 120
Atrazine	91.7		P	80 - 120
Atrazine Desethyl	106		P	80 - 120
Azinphos Methyl	107		P	80 - 120
Azoxystrobin	107		P	80 - 120
Bromacil	103		P	80 - 120
Butylate	94.6		P	80 - 120
Caffeine	84.8		P	80 - 120
Carbophenothion	93.1		P	80 - 120
Carfentrazone Ethyl	92.5		P	80 - 120
Chlorfenapyr	77.8*		F	80 - 120
Chlorpyrifos Ethyl	87.7		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	102		P	80 - 120
Cyanazine	99.9		P	80 - 120
Cyprodinil	103		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123076
Included Lab Sample IDs: 2451944

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Difenoconazole	95.4		P	80 - 120
Dimethenamid	93.8		P	80 - 120
Dimethomorph	97.6		P	80 - 120
Disulfoton	98.9		P	80 - 120
Dithiopyr	106		P	80 - 120
EPTC	99.4		P	80 - 120
Ethion	88.2		P	80 - 120
Ethoprop	97.6		P	80 - 120
Etridiazole	98.4		P	80 - 120
Fenamiphos	88.3		P	80 - 120
Fenbuconazole	96.4		P	80 - 120
Fipronil	77.9*		F	80 - 120
Fipronil Desulfinyl	88.8		P	80 - 120
Fipronil Sulfide	95.3		P	80 - 120
Fipronil Sulfone	96.3		P	80 - 120
Fluazifop-P-butyl	87.3		P	80 - 120
Fludioxonil	100		P	80 - 120
Flumioxazin	95.3		P	80 - 120
Flutolanil	99.2		P	80 - 120
Fluxapyroxad	93.0		P	80 - 120
Fonofos	97.4		P	80 - 120
Hexazinone	99.6		P	80 - 120
Imazalil	101		P	80 - 120
Iprodione	86.8		P	80 - 120
Loratadine	93.2		P	80 - 120
Malathion	88.0		P	80 - 120
Metalaxyl	90.9		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	99.3		P	80 - 120
Mevinphos	94.3		P	80 - 120
Molinate	88.8		P	80 - 120
Myclobutanil	89.7		P	80 - 120
Naled	100		P	80 - 120
Napropamide	94.0		P	80 - 120
Norflurazon	100		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	101		P	80 - 120
Parathion Ethyl	95.8		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	105		P	80 - 120
Phenytoin	96.7		P	80 - 120
Phorate	105		P	80 - 120
Prodiamine	102		P	80 - 120
Prometon	95.0		P	80 - 120
Prometryn	99.4		P	80 - 120
Pronamide	100		P	80 - 120
Propanil	111		P	80 - 120
Propargite	99.7		P	80 - 120
Propiconazole	84.5		P	80 - 120
Pyraflufen Ethyl	96.9		P	80 - 120
Pyridaben	98.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123076
Included Lab Sample IDs: 2451944

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyriproxyfen	112		P	80 - 120
Simazine	85.7		P	80 - 120
Stirophos	99.9		P	80 - 120
Sulfentrazone	86.1		P	80 - 120
Tebuconazole	96.6		P	80 - 120
Terbufos	103		P	80 - 120
Terbuthylazine	97.2		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	99.2		P	80 - 120

Reference Method: EPA 8276
Run ID: A123260
Included Lab Sample IDs: 2451943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.9		P	80 - 120
Toxaphene	104		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123425
Included Lab Sample IDs: 2451943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	85.4		P	80 - 120
Beta-BHC	107		P	80 - 120
Beta-Cyfluthrin	99.0		P	80 - 120
Bifenthrin	112		P	80 - 120
Carbophenothion	98.4		P	80 - 120
Chlorothalonil	97.0		P	80 - 120
Cis-Nonachlor	87.7		P	80 - 120
Cypermethrin	99.2		P	80 - 120
Dacthal	89.0		P	80 - 120
DDD-p,p'	91.1		P	80 - 120
DDE-p,p'	89.2		P	80 - 120
DDT-p,p'	104		P	80 - 120
Delta-BHC	99.9		P	80 - 120
Deltamethrin	96.3		P	80 - 120
Dichlobenil	103		P	80 - 120
Dicofol	98.9		P	80 - 120
Dieldrin	99.0		P	80 - 120
Endosulfan I	99.4		P	80 - 120
Endosulfan II	98.8		P	80 - 120
Endosulfan Sulfate	94.9		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	97.1		P	80 - 120
Endrin Ketone	113		P	80 - 120
Esfenvalerate	97.8		P	80 - 120
Ethalfuralin	87.7		P	80 - 120
Fenpropathrin	95.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123425
Included Lab Sample IDs: 2451943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-BHC	97.3		P	80 - 120
Gamma-Chlordane	88.1		P	80 - 120
Heptachlor	90.9		P	80 - 120
Heptachlor Epoxide	104		P	80 - 120
Hexachlorobenzene	95.0		P	80 - 120
Kepone	90.4		P	80 - 120
Lambda-Cyhalothrin	103		P	80 - 120
Methoprene	97.9		P	80 - 120
Methoxychlor	94.2		P	80 - 120
MGK-264	87.8		P	80 - 120
Mirex	103		P	80 - 120
Oxychlordane	87.1		P	80 - 120
Permethrin	96.4		P	80 - 120
Phenothrin	99.6		P	80 - 120
Piperonyl Butoxide	85.3		P	80 - 120
Prallethrin	100		P	80 - 120
Tau-Fluvalinate	104		P	80 - 120
Tetramethrin	98.3		P	80 - 120
Trans-Nonachlor	91.3		P	80 - 120
Triclosan Methyl	86.1		P	80 - 120
Trifluralin	103		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	99.9				2.48	
EPA 180.1 Rev. 2.0	Turbidity	104				0.0	
EPA 300.0 Rev. 2.1	Chloride	104	102	103		3.61	
	Sulfate	105	105	105		2.56	
EPA 350.1 Rev. 2.0	Ammonia-N	96.0	98.6	100			1.06
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	109	103			5.38
	Kjeldahl Nitrogen	107	100	98.8			0.884
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.0	103	100			2.39
EPA 365.1 Rev. 2.0	Total-P	97.7	101	95.2			5.27
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.6	100	99.9			0.599
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	98.8	108	109			1.31
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.8	110	94.8			14.4
	Acetochlor	78.6	88.5	68.0			26.2
	Alachlor	76.8	77.5	77.5			0.0060
	Aldrin	57.1	60.1	47.3			23.7
	Alpha-BHC	94.5	83.0	71.5			14.9
	Alpha-Chlordane	81.7	53.1	68.5			9.92
	Ametryn	108	108	107			0.732
	Atrazine	77.3					2.00
	Atrazine Desethyl	87.1	97.0	88.7			7.45
	Avobenzone	119	147	130			12.4
	Azinphos Methyl	19.8	14.5	16.8			14.5
	Azoxystrobin	87.3	89.5	94.8			5.75
	Beta-BHC	103	51.6	92.8			57.0
	Beta-Cyfluthrin	103	95.1	86.4			9.65
	Bifenthrin	88.7	82.0	73.3			11.2
	Bromacil	102	109	95.7			13.0
	Butylate	46.0	42.0	38.9			7.59
	Caffeine	71.0	89.7	89.6			0.0798
	Carbophenothion	82.7	94.3	78.4			18.5
	Carbophenothion	64.8	56.6	57.8			2.10
	Carfentrazone Ethyl	114	98.1	86.8			12.3
	Chlorfenapyr	52.7	56.2	63.9			12.8
	Chlorothalonil	75.3	54.8	76.5			33.1
	Chlorpyrifos Ethyl	67.4	75.1	82.0			8.86
	Chlorpyrifos Methyl	70.9	100	97.1			3.24
	Cis-Nonachlor	77.1	94.3	82.1			11.8
	Coumaphos	128	134	112			17.6
	Cyanazine	94.3	110	98.9			10.8
	Cypermethrin	97.1	67.9	82.1			18.9
	Cyprodinil	86.1	101	102			1.50
	Dacthal	75.9	79.6	83.5			4.83
	DDD-p,p'	81.5	92.1	72.4			23.9
	DDE-p,p'	58.8	46.2	52.3			12.4
	DDT-p,p'	74.4	62.4	64.7			3.64
	Dechlorane 602	100	100	87.2			13.7
	Dechlorane 603	100	93.3	75.8			20.7
	Dechlorane Plus	119	86.0	75.9			12.6
	Delta-BHC	84.4	83.7	94.0			11.5
	Deltamethrin	149	76.0	120			44.7
	Demeton	44.1	62.6	68.6			9.22

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Diazinon	98.4	112	94.1		17.1
	Dichlobenil	72.3	48.9	69.1		34.3
	Dicofol	72.9	66.8	74.2		10.5
	Dieldrin	80.1	123	61.1		27.9
	Difenoconazole	101	123	105		15.8
	Dimethenamid	71.5	68.5	78.8		13.9
	Dimethomorph	139	181	165		9.08
	Disulfoton	68.6	91.1	81.4		11.3
	Dithiopyr	91.0	72.3	69.7		3.74
	Endosulfan I	102	77.5	70.9		8.78
	Endosulfan II	80.0	66.3	67.8		2.29
	Endosulfan Sulfate	84.0	91.9	82.8		10.4
	Endrin	101	82.7	78.2		5.55
	Endrin Aldehyde	92.7	105	95.6		9.44
	Endrin Ketone	124	115	93.8		20.7
	EPTC	48.6	40.1	37.1		7.72
	Esfenvalerate	126	87.9	99.7		12.5
	Ethalfuralin	92.2	71.3	53.8		28.0
	Ethion	78.3	89.5	57.2		44.1
	Ethoprop	63.2	70.3	67.9		3.43
	Etridiazole	60.6	55.4	43.1		25.0
	Fenamiphos	71.8	50.9	52.2		2.43
	Fenbuconazole	105	93.1	70.1		28.3
	Fenpropathrin	79.6	74.5	70.5		5.50
	Fipronil	75.8	79.0	75.8		4.05
	Fipronil Desulfinyl	80.0	84.9	68.4		19.4
	Fipronil Sulfide	96.2	99.6	87.0		12.2
	Fipronil Sulfone	71.7	72.7	71.4		1.47
	Fluazifop-P-butyl	75.1	85.5	91.8		7.12
	Fludioxonil	75.8	67.0	77.4		14.4
	Flumioxazin	97.8	143	140		1.57
	Flutolanil	81.5	89.7	91.8		2.29
	Fluxapyroxad	73.7	76.3	77.2		1.17
	Fonofos	64.1	84.2	85.6		1.68
	Gamma-BHC	88.4	44.6	76.5		52.7
	Gamma-Chlordane	80.1	66.7	67.3		0.494
	Heptachlor	69.4	59.1	46.4		24.2
	Heptachlor Epoxide	69.6	89.5	81.2		6.18
	Hexabromobenzene	91.4	109	74.8		37.1
	Hexachlorobenzene	60.4	37.6	41.2		9.20
	Hexazinone	85.5				8.67
	Imazalil	73.5	117	106		10.7
	Iprodione	92.6	102	86.0		16.8
	Kepone	124	104	137		27.6
	Lambda-Cyhalothrin	123	88.5	85.0		4.01
	Loratadine	122	163	105		43.3
	Malathion	78.3	83.9	96.9		14.4
	Metalaxyl	78.7	69.5	68.8		1.11
	Methoprene	60.5	39.4	42.1		6.62
	Methoxychlor	99.9	109	87.3		21.7
	Metolachlor	82.5	91.3	91.9		0.418
	Metribuzin	79.3	86.5	84.0		2.95
	Mevinphos	64.4	77.3	75.5		2.28
	MGK-264	89.5	75.5	80.7		6.68

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Mirex	74.6	34.0	65.3		63.0
	Molinate	43.2	45.4	47.5		4.59
	Myclobutanil	92.9	76.2	66.9		11.2
	Naled	43.7	34.9	26.2		28.5
	Napropamide	90.1	83.0	78.5		5.63
	Norflurazon	71.1	81.4	70.1		14.9
	Octinoxate	101	109	111		2.30
	Oxadiazon	84.6	77.6	65.8		14.2
	Oxybenzone	93.9	107	98.5		8.66
	Oxychlordane	50.2	44.0	53.5		19.7
	Oxyfluorfen	104	96.6	109		12.5
	Parathion Ethyl	72.6	78.3	88.7		12.5
	Parathion Methyl	114	120	135		11.4
	PBB-153	94.0	104	80.7		25.4
	PBDE-47	98.7	110	103		5.75
	PBDE-99	94.3	103	82.6		21.8
	PCB-1016	102	63.5	67.0		5.25
	PCB-1260	101	70.6	83.2		16.4
	Pendimethalin	107	125	138		10.1
	Pentabromotoluene	90.8	103	98.1		5.07
	Permethrin	111	101	71.9		34.1
	Phenothrin	99.4	53.5	70.5		27.4
	Phenytol	65.3	52.1	67.5		25.7
	Phorate	52.2	84.8	65.9		25.1
	Piperonyl Butoxide	110	56.0	86.0		42.2
	Prallethrin	102	103	89.8		13.9
	Prodiamine	31.8	129	44.4		97.5
	Prometon	105	98.4	111		11.6
	Prometryn	89.3	103	99.8		3.03
	Pronamide	98.7	94.9	108		13.2
	Propanil	113	132	135		1.67
	Propargite	100	75.2	105		32.9
	Propiconazole	69.5	78.7	76.3		3.07
	Pyraflufen Ethyl	98.1	76.6	84.0		9.26
	Pyridaben	108	63.8	91.5		22.8
	Pyriproxyfen	46.7	35.9	40.4		12.0
	Simazine	79.1	85.5	76.7		10.9
	Stirophos	102	88.6	50.4		55.0
	Sulfentrazone	76.1	64.0	84.6		18.2
	Tau-Fluvalinate	119	88.3	122		32.0
	Tebuconazole	97.6	72.8	115		32.7
	Terbufos	64.2	91.6	77.7		16.4
	Terbutylazine	78.4	83.1	84.5		1.57
	Tetradecachloro-m-terphenyl	95.4	90.3	97.1		7.24
	Tetramethrin	91.7	68.8	81.9		17.5
	Thiobencarb	97.3	81.3	84.4		3.73
	Trans-Nonachlor	55.0	30.9	81.7		50.2
	Tri-o-cresyl Phosphate	112	119	112		6.12
	Triadimefon	97.7	75.2	106		34.2
	Triclosan Methyl	79.3	49.4	66.7		29.9
	Trifluralin	62.0	58.8	77.7		27.7
	Tris(1-chloro-2-propyl) phosphate (TCPP)	115	135	129		3.59

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	107	111	104			6.06
	Tris(2-chloroethyl) phosphate (TCEP)	120	131	116			12.0
EPA 8276	Chlordane	70.5	51.8	61.3			16.7
	Toxaphene	78.0	55.0	66.2			18.4
EPA 8321B	2,4-D	105	89.5	103			13.8
	2,4,5-T	91.0	84.6	89.0			5.15
	3-Hydroxycarbofuran	69.0	91.5	95.4			4.14
	Acesulfame K	109	121	124			1.98
	Acetaminophen	95.2	106	108			2.31
	Acetamiprid	95.8	44.1	41.6			5.73
	Aldicarb	43.6	84.6	83.1			1.86
	Aldicarb Sulfone	79.6	85.3	82.2			3.68
	Aldicarb Sulfoxide	117	36.8	35.3			4.38
	AMPA	104	97.9	97.4			0.489
	Bentazon	66.4	23.3	24.0			2.98
	Benzovindiflupyr	92.8	79.4	84.4			6.13
	Carbamazepine	76.6	56.7	58.3			2.70
	Carbaryl	60.8	55.6	50.4			9.87
	Carbofuran	63.4	49.6	48.6			2.11
	Clothianidin	97.7	76.0	81.0			6.39
	Dinotefuran	99.6	67.7	70.7			4.43
	Diuron	70.8	54.3	56.2			3.43
	Endothall	108	108	102			5.95
	Fenuron	93.2	50.7	52.3			3.13
	Fluridone	88.6	65.6	70.7			7.45
	Glufosinate	100	98.7	99.3			0.549
	Glyphosate	101	101	93.1			7.98
	Hydrocodone	112	73.0	78.8			7.64
	Ibuprofen	65.0	53.8	54.7			1.77
	Imazapyr	91.6	87.4	90.6			3.10
	Imidacloprid	94.8	101	106			4.86
	Linuron	76.6	63.1	62.4			1.04
	Mandestrobin	101	83.0	84.7			2.10
	MCPP	96.4	83.5	90.4			7.95
	Methiocarb	56.4	61.2	53.9			12.8
	Methomyl	68.3	69.7	70.2			0.718
	Naproxen	60.7	79.7	70.7			11.9
	Oxamyl	73.8	75.1	74.9			0.206
	Primidone	92.3	76.2	73.7			3.35
	Propoxur	58.4	49.0	47.4			3.47
	Pyraclostrobin	93.9	84.6	90.3			6.58
	Silvex	87.1	88.6	90.1			1.73
	Sucralose	99.0	94.0	95.6			1.26
	Thiamethoxam	93.1	77.0	82.2			6.55
	Tolfenpyrad	62.6	52.9	54.2			2.43
	Triclopyr	105	82.5	87.2			5.52
SM 2320 B-2011	Total Alkalinity	100				1.17	
SM 2540 C-2015	TDS	94.0				2.12	
SM 2540 D-2015	TSS	107					
SM 4500-F- C-2011	Fluoride	98.7					0.473
SM 5310 B-2011	Organic Carbon	94.9	92.3	93.0			0.689
	Organic Carbon	94.1	95.3	95.6			0.262

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2451931, 2451934, 2451936
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2451931, 2451934, 2451936
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2451931, 2451934, 2451936
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2451931, 2451934, 2451936
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2451932, 2451935, 2451937
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2451932, 2451935, 2451937
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2451932, 2451935, 2451937
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2451932, 2451935, 2451937
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2451933
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2451944
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2451943
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2451944
EPA 8270E	PCBs in water matrices by GC/MS/MS	2451943
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2451943
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2451941
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2451942
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2451931, 2451934, 2451936
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2451931, 2451934, 2451936
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2451931, 2451934, 2451936
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2451931, 2451934, 2451936
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2451932, 2451935, 2451937

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	11/16/2023			11/16/2023 15:20	Anna M. Plaviak	2451931
	11/16/2023			11/16/2023 15:21	Anna M. Plaviak	2451934
	11/16/2023			11/16/2023 15:22	Anna M. Plaviak	2451936
EPA 180.1 Rev. 2.0	11/16/2023			11/16/2023 13:44	Khloe J Berg	2451931
	11/16/2023			11/16/2023 13:46	Khloe J Berg	2451934
	11/16/2023			11/16/2023 13:47	Khloe J Berg	2451936
EPA 300.0 Rev. 2.1	11/16/2023			11/28/2023 04:16	James L Waggeberby	2451931
	11/16/2023			11/28/2023 05:46	James L Waggeberby	2451934
	11/16/2023			11/28/2023 06:01	James L Waggeberby	2451936
EPA 350.1 Rev. 2.0	11/16/2023			12/01/2023 14:03	Khloe J Berg	2451932
	11/16/2023			12/01/2023 14:05	Khloe J Berg	2451935
	11/16/2023			12/01/2023 14:06	Khloe J Berg	2451937
EPA 351.2 Rev. 2.0	11/16/2023	11/20/2023 21:15	Simonne.V. Calhoun	11/27/2023 18:16	Ping Hua	2451932
	11/16/2023	11/27/2023 13:33	Simonne.V. Calhoun	11/29/2023 11:36	Ping Hua	2451935
	11/16/2023	11/27/2023 13:33	Simonne.V. Calhoun	11/29/2023 11:37	Ping Hua	2451937
EPA 353.2 Rev. 2.0	11/16/2023			11/28/2023 12:31	Fadila Guebre	2451932
	11/16/2023			11/28/2023 12:32	Fadila Guebre	2451935
	11/16/2023			11/28/2023 12:34	Fadila Guebre	2451937
EPA 365.1 Rev. 2.0	11/16/2023	11/28/2023 10:59	Adam P Silver	11/28/2023 14:13	James L Waggeberby	2451932
	11/16/2023	11/28/2023 10:59	Adam P Silver	11/28/2023 14:14	James L Waggeberby	2451935
	11/16/2023	11/28/2023 10:59	Adam P Silver	11/29/2023 10:20	James L Waggeberby	2451937
EPA 365.1 Rev. 2.0 dissolved	11/16/2023			11/16/2023 14:11	Elise M. Gillis	2451933
EPA 8270E	11/16/2023	11/19/2023 08:00	Fe-Val Siddell	11/30/2023 02:48	Lipi Saha	2451943
	11/16/2023	11/21/2023 08:30	Rasheda Ghaffari	11/30/2023 21:41	Vandana T. Nagar	2451944
	11/16/2023	11/21/2023 08:30	Rasheda Ghaffari	12/03/2023 19:45	Arthur Maknenko	2451944
	11/16/2023	12/18/2023 08:00	Fe-Val Siddell	12/23/2023 04:15	Julie Wi	2451943
EPA 8276	11/16/2023	11/19/2023 08:00	Fe-Val Siddell	12/14/2023 07:50	Kenedi Mills	2451943
EPA 8321B	11/16/2023	11/16/2023 12:00	Tae K Lee	11/16/2023 17:06	Hana Lee	2451942
	11/16/2023	11/16/2023 12:00	Tae K Lee	11/17/2023 10:39	Hana Lee	2451942
	11/16/2023	11/18/2023 13:00	Hoor Shaik	11/27/2023 23:53	Juyoung Kim	2451941
	11/16/2023	11/20/2023 09:00	Hoor Shaik	11/28/2023 19:09	Juyoung Kim	2451942
SM 2320 B-2011	11/16/2023			11/21/2023 19:53	Chandler E Cox	2451931
	11/16/2023			11/21/2023 20:05	Chandler E Cox	2451934
	11/16/2023			11/21/2023 20:17	Chandler E Cox	2451936
SM 2540 C-2015	11/16/2023			11/20/2023 15:30	Yijie Li	2451931, 2451934, 2451936
SM 2540 D-2015	11/16/2023			11/20/2023 15:30	Yijie Li	2451931, 2451934, 2451936
SM 4500-F- C-2011	11/16/2023			11/21/2023 19:53	Chandler E Cox	2451931
	11/16/2023			11/21/2023 20:05	Chandler E Cox	2451934
	11/16/2023			11/21/2023 20:17	Chandler E Cox	2451936
SM 5310 B-2011	11/16/2023			11/21/2023 19:04	Kenneth H Lee	2451932

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-2011	11/16/2023			11/22/2023 02:25	Kenneth H Lee	2451935
	11/16/2023			11/22/2023 02:38	Kenneth H Lee	2451937