

Chemical Analysis Report

CEN-DIST-2023-01-26-01

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

Event Description: **Run 2**
Request ID: **RQ-2023-01-23-27**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

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Certified by: Colin Wright, Program Administrator

Date Certified: 17-FEB-2023 10:38

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light blue rectangular background.

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: Turnbull Bay 1.2 km S of Turnbull Bay Rd

Collection Date/Time: 01/25/2023 11:47

Field ID: G5CE0130

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2383336	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P425058	
	SM 2320 B-2011	Total Alkalinity	155		mg CaCO3/L	P425316	
	SM 2540 D-2015	TSS	19		mg/L	P425337	
	SM 4500-F- C-2011	Fluoride	0.73		mg F/L	P425447	MS, RPD
2383337	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P425728	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.59		mg N/L	P425191	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P425205	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P425178	
	SM 5310 B-2011	Organic Carbon	9.1		mg C/L	P425378	
2383344	EPA 8321B	Aldicarb	0.020	U	ug/L	P424945	
		Aldicarb Sulfone	0.0020	U	ug/L	P424945	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P424945	
		Carbaryl	0.0020	U	ug/L	P424945	
		Carbofuran	0.0020	U	ug/L	P424945	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P424945	
		Methiocarb	0.0020	U	ug/L	P424945	
		Methomyl	0.0020	U	ug/L	P424945	
		Oxamyl	0.0020	U	ug/L	P424945	
		Propoxur	0.0020	U	ug/L	P424945	
2383345		Acesulfame K	0.11	I	ug/L	P424964	
		2,4-D	0.011		ug/L	P425006	MS, RPD
		AMPA	1.0	U	ug/L	P424964	
		2,4,5-T	0.0040	U	ug/L	P425006	
		Acetaminophen	0.0080	U	ug/L	P425006	
		Endothall	0.25	U	ug/L	P424964	
		Acetamiprid	0.0020	U	ug/L	P425006	
		Glufosinate	1.0	U	ug/L	P424964	
		Glyphosate	1.0	U	ug/L	P424964	
		Afidopyropen	0.0020	U	ug/L	P425006	
		Sucralose	1.2		ug/L	P424964	
		Bentazon	8.0E-04	U	ug/L	P425006	
		Benzovindiflupyr	0.0020	U	ug/L	P425006	
		Carbamazepine	0.0026	I	ug/L	P425006	
		Clothianidin	0.0020	U	ug/L	P425006	
		Dinotefuran	0.0027	I	ug/L	P425006	
		Diuron	0.0020	U	ug/L	P425006	
		Fenuron	0.032	U	ug/L	P425006	
		Fluridone	0.0047		ug/L	P425006	
		Imazapyr	0.083		ug/L	P425006	
		Hydrocodone	0.0020	U	ug/L	P425006	
		Ibuprofen	0.080	U	ug/L	P425006	
		Imidacloprid	0.0039	I	ug/L	P425006	
		Linuron	0.0040	U	ug/L	P425006	
		Mandestrobin	0.0020	U	ug/L	P425006	

Field ID: G5CE0130

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2383345	EPA 8321B	MCPP	0.0020	U	ug/L	P425006	
		Naproxen	0.0080	U	ug/L	P425006	
		Primidone	0.012	I	ug/L	P425006	
		Pyraclostrobin	0.0020	U	ug/L	P425006	
		Silvex	0.0040	U	ug/L	P425006	
		Thiamethoxam	0.0020	U	ug/L	P425006	
		Tolfenpyrad	0.0020	U	ug/L	P425006	
		Triclopyr	0.0040	U	ug/L	P425006	
		Aldrin	0.68	U	ng/L	P425082	
2383346	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P425082	
		Alpha-Chlordane	0.21	U	ng/L	P425082	MS
		PCB-1016	2.1	U	ng/L	P425082	
		Beta-BHC	0.10	U	ng/L	P425082	
		PCB-1221	2.1	U	ng/L	P425082	
		Beta-Cyfluthrin	1.3	U	ng/L	P425082	
		PCB-1232	2.1	U	ng/L	P425082	
		Bifenthrin	0.52	U	ng/L	P425082	
		PCB-1242	2.1	U	ng/L	P425082	
		PCB-1248	2.1	U	ng/L	P425082	
		Chlorothalonil	3.8	U	ng/L	P425082	
		PCB-1254	2.1	U	ng/L	P425082	
		Cis-Nonachlor	0.21	U	ng/L	P425082	
		PCB-1260	2.1	U	ng/L	P425082	
		Cypermethrin	1.6	U	ng/L	P425082	
		Dacthal	0.16	U	ng/L	P425082	
		DDD-p,p'	0.26	U	ng/L	P425082	MS
		DDE-p,p'	0.21	U	ng/L	P425082	
		DDT-p,p'	0.26	U	ng/L	P425082	
		Delta-BHC	0.42	U	ng/L	P425082	
		Deltamethrin	1.3	U	ng/L	P425082	
		Dichlobenil	0.26	U	ng/L	P425082	
		Dicofol	1.3	U	ng/L	P425082	
		Dieldrin	0.42	U	ng/L	P425082	
		Endosulfan I	0.42	U	ng/L	P425082	
		Endosulfan II	0.42	U	ng/L	P425082	
		Endosulfan Sulfate	0.31	U	ng/L	P425082	
		Endrin	0.42	U	ng/L	P425082	MS
		Endrin Aldehyde	0.78	U	ng/L	P425082	
		Endrin Ketone	0.42	U	ng/L	P425082	
		Esfenvalerate	0.78	U	ng/L	P425082	
		Ethalfuralin	0.16	U	ng/L	P425082	
		Fenpropathrin	0.26	U	ng/L	P425082	
		Gamma-BHC	0.13	U	ng/L	P425082	
		Gamma-Chlordane	0.21	U	ng/L	P425082	
		Heptachlor	0.21	U	ng/L	P425082	

Field ID: G5CE0130

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2383346	EPA 8270E	Heptachlor Epoxide	0.26	U	ng/L	P425082	MS	
		Hexachlorobenzene**	1.0	U	ng/L	P425082		
		Kepone	5.2	U	ng/L	P425082		
		Lambda-Cyhalothrin	0.78	U	ng/L	P425082		
		Methoprene	0.78	U	ng/L	P425082		
		Methoxychlor	0.31	U	ng/L	P425082		
		MGK-264	0.21	U	ng/L	P425082		
		Mirex	0.37	U	ng/L	P425082		
		Oxychlordane	0.31	U	ng/L	P425082		
		Permethrin	1.7	U	ng/L	P425082		
		Phenothrin	0.94	U	ng/L	P425082		
		Piperonyl Butoxide	0.16	U	ng/L	P425082		
		Prallethrin	2.1	U	ng/L	P425082	MS	
		Tau-Fluvalinate	0.26	U	ng/L	P425082		
		Tetramethrin	0.78	U	ng/L	P425082		
		Trans-Nonachlor	0.21	U	ng/L	P425082		
		Triclosan Methyl	0.16	U	ng/L	P425082		
		Trifluralin	0.21	U	ng/L	P425082		
		EPA 8276	Chlordane	2.1	U	ng/L		P425082
			Toxaphene	16	U	ng/L		P425082
2383347	EPA 8270E	Oxybenzone**	9.5	U	ng/L	P425083		LCS
		Acetochlor	0.24	U	ng/L	P425083		
		Octinoxate**	19	UJ	ng/L	P425083		
		Alachlor	0.24	U	ng/L	P425083		
		Avobenzone**	95	U	ng/L	P425083		
		Ametryn	1.0	I	ng/L	P425083		
		Atrazine	12		ng/L	P425083		
		PBDE-47**	3.8	U	ng/L	P425083		
		Atrazine Desethyl	2.2	I	ng/L	P425083		
		PBDE-99**	4.8	U	ng/L	P425083		
		Azinphos Methyl	1.9	U	ng/L	P425083		
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P425083		
		Azoxystrobin	0.48	U	ng/L	P425083		
		Bromacil	0.48	U	ng/L	P425083		
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	11	U	ng/L	P425083		
		Butylate	0.38	U	ng/L	P425083	RPD	
		Dechlorane Plus**	29	U	ng/L	P425083		
		Caffeine**	8.8	I	ng/L	P425083		
		Carbophenothion	0.19	U	ng/L	P425083		
		Carfentrazone Ethyl	0.095	U	ng/L	P425083		
		Chlorfenapyr	0.17	U	ng/L	P425083		
		Chlorpyrifos Ethyl	0.24	U	ng/L	P425083		
		Chlorpyrifos Methyl	0.048	U	ng/L	P425083		
		Coumaphos	0.48	U	ng/L	P425083		

Field ID: G5CE0130

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2383347	EPA 8270E	Cyanazine	3.1	U	ng/L	P425083	
		Cyprodinil	0.095	U	ng/L	P425083	
		Demeton	1.4	U	ng/L	P425083	
		Diazinon	0.12	U	ng/L	P425083	
		Difenoconazole	0.57	U	ng/L	P425083	
		Dimethenamid	0.095	U	ng/L	P425083	
		Dimethomorph	0.17	U	ng/L	P425083	
		Disulfoton	0.48	U	ng/L	P425083	
		Dithiopyr	0.60	U	ng/L	P425083	
		EPTC	1.2	U	ng/L	P425083	RPD
		Ethion	0.14	U	ng/L	P425083	
		Ethoprop	0.095	U	ng/L	P425083	
		Etridiazole	0.14	U	ng/L	P425083	RPD
		Fenamiphos	0.48	U	ng/L	P425083	
		Fenbuconazole	0.12	U	ng/L	P425083	
		Fipronil	0.24	U	ng/L	P425083	
		Fipronil DesulfinyI**	0.26	I	ng/L	P425083	
		Fipronil Sulfide	0.58		ng/L	P425083	
		Fipronil Sulfone	1.2		ng/L	P425083	
		Fluazifop-P-butyl	0.095	U	ng/L	P425083	
		Fludioxonil	0.12	U	ng/L	P425083	
		Flumioxazin	4.3	U	ng/L	P425083	
		Flutolanil	0.36	I	ng/L	P425083	
		Fluxapyroxad	0.31	I	ng/L	P425083	
		Fonofos	0.19	U	ng/L	P425083	
		Hexazinone	0.48	U	ng/L	P425083	
		Imazalil	0.71	U	ng/L	P425083	
		Iprodione	0.57	U	ng/L	P425083	
		Loratadine**	0.33	U	ng/L	P425083	
		Malathion	0.33	U	ng/L	P425083	MS, RPD
		Metalaxyl	0.71	U	ng/L	P425083	
		Metolachlor	2.1		ng/L	P425083	
		Metribuzin	1.4	U	ng/L	P425083	
		Mevinphos	1.0	U	ng/L	P425083	
		Molinate	0.29	U	ng/L	P425083	
		Myclobutanil	0.24	U	ng/L	P425083	
		Naled	1.4	U	ng/L	P425083	
		Napropamide	0.38	U	ng/L	P425083	
		Norflurazon	0.48	U	ng/L	P425083	
		Oxadiazon	2.0		ng/L	P425083	
		Oxyfluorfen	0.14	U	ng/L	P425083	
		Parathion Ethyl	0.24	U	ng/L	P425083	
		Parathion Methyl	0.52	U	ng/L	P425083	
		Pendimethalin	0.95	U	ng/L	P425083	
		Phenytain**	3.3	U	ng/L	P425083	

Field ID: G5CE0130

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2383347	EPA 8270E	Phorate	0.50	U	ng/L	P425083	
		Prodiamine	0.17	U	ng/L	P425083	
		Prometon	0.86	U	ng/L	P425083	
		Prometryn	0.19	U	ng/L	P425083	
		Pronamide	0.24	I	ng/L	P425083	
		Propanil	0.12	U	ng/L	P425083	
		Propargite	1.4	U	ng/L	P425083	
		Propiconazole	0.68	I	ng/L	P425083	
		Pyraflufen Ethyl	0.24	U	ng/L	P425083	
		Pyridaben	0.43	U	ng/L	P425083	
		Pyriproxyfen	0.12	U	ng/L	P425083	
		Simazine	5.9		ng/L	P425083	
		Stirophos	0.12	U	ng/L	P425083	
		Sulfentrazone	15		ng/L	P425083	
		Tebuconazole	0.61	I	ng/L	P425083	
		Terbufos	0.095	U	ng/L	P425083	MS
		Terbutylazine	0.40	U	ng/L	P425083	
		Thiobencarb	0.57	U	ng/L	P425083	MS, RPD
		Triadimefon	0.24	U	ng/L	P425083	

Ref. Method and Comment:

EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix. MS accuracy for glyphosate could not be assessed due to a high concentration of parameter in the spiked sample.

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

Sample Location: LITTLE HAW CREEK @ 25M DS OF SR40

Collection Date/Time: 01/25/2023 13:14

Field ID: G2CE0128

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2383338	DEP SOP: NU-094-1	Color (true)	270	Q	PCU	P425224	
	EPA 180.1 Rev. 2.0	Turbidity	0.60	IQ	NTU	P425230	
	EPA 300.0 Rev. 2.1	Chloride	19		mg Cl/L	P425654	
		Sulfate	0.24	I	mg SO4/L	P425658	
	SM 2320 B-2011	Total Alkalinity	1.3	I	mg CaCO3/L	P425396	
	SM 2540 C-2015	TDS	102		mg/L	P425427	
	SM 2540 D-2015	TSS	2	U	mg/L	P425333	
	SM 4500-F- C-2011	Fluoride	0.028	I	mg F/L	P425400	MS
2383339	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P425609	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P425190	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P425259	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P425179	
	SM 5310 B-2011	Organic Carbon	26		mg C/L	P425163	

Ref. Method and Comment:

DEP SOP: NU-094-1: The sample was analyzed out of holding time because of analytical difficulties.

EPA 180.1 Rev. 2.0: The sample was analyzed out of holding time because of analytical difficulties.

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

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P425224

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425058

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425230

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425654

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425658

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425609

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425728

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425190

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425191

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425205

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425259

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425178

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425179

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

Reference Method: EPA 8270E
Batch ID: P425082

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425082

Component	Result	Code	Units
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425082

Component	Result	Code	Units
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P425083

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425083

Component	Result	Code	Units
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425083

Component	Result	Code	Units
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	30	I	ng/L
Octinoxate	180		ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425083

Component	Result	Code	Units
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronatone	0.15	U	ng/L
Pronatone	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P425083

Component	Result	Code	Units
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276

Batch ID: P425082

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

Reference Method: EPA 8321B

Batch ID: P424945

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: P424964

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: P425006

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P425006

Component	Result	Code	Units
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
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: P425316

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

Reference Method: SM 2320 B-2011

Batch ID: P425396

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

Reference Method: SM 2540 C-2015

Batch ID: P425427

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P425333

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P425337

Component	Result	Code	Units
TSS	3	U	mg/L

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Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P425400

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P425447

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P425163

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

Reference Method: SM 5310 B-2011
Batch ID: P425378

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: P425224

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425058

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425230

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425654

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425658

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425609

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425728

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	91.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425190

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425191

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.8		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425205

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425259

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	106		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425178

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425179

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

Reference Method: EPA 8270E
Batch ID: P425082

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	45.7		P	10 - 92.0
Alpha-BHC	93.7		P	75 - 107
Alpha-Chlordane	84.8		P	50 - 108
Beta-BHC	120		P	36 - 138
Beta-Cyfluthrin	79.5		P	20 - 161
Bifenthrin	50.9		P	10 - 119
Chlorothalonil	112		P	26 - 186
Cis-Nonachlor	62.5		P	42 - 119
Cypermethrin	71.6		P	22 - 150
Dacthal	95.5		P	72 - 119
DDD-p,p'	89.2		P	45 - 107
DDE-p,p'	83.9		P	48 - 106
DDT-p,p'	68.9		P	48 - 110
Delta-BHC	113		P	54 - 140
Deltamethrin	91.2		P	22 - 189
Dichlobenil	81.6		P	36 - 117
Dicofol	105		P	46 - 155
Dieldrin	89.8		P	54 - 110
Endosulfan I	75.6		P	59 - 105
Endosulfan II	88.0		P	51 - 118
Endosulfan Sulfate	105		P	57 - 121
Endrin	91.8		P	10 - 120
Endrin Aldehyde	73.7		P	34 - 118
Endrin Ketone	97.2		P	69 - 177
Esfenvalerate	84.2		P	23 - 168
Ethalfuralin	71.1		P	49 - 99.0
Fenpropathrin	62.8		P	34 - 117
Gamma-BHC	88.4		P	72 - 117

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P425082

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-Chlordane	60.7		P	43 - 106
Heptachlor	68.9		P	41 - 98.0
Heptachlor Epoxide	84.7		P	57 - 106
Hexachlorobenzene	67.4		P	36 - 99.0
Kepone	205		P	16 - 215
Lambda-Cyhalothrin	60.7		P	21 - 177
Methoprene	60.9		P	10 - 119
Methoxychlor	97.2		P	60 - 112
MGK-264	79.2		P	26 - 122
Mirex	53.5		P	10 - 169
Oxychlordane	75.3		P	43 - 105
PCB-1016	84.4		P	48 - 112
PCB-1260	93.6		P	44 - 118
Permethrin	103		P	24 - 148
Phenothrin	39.5		P	10 - 106
Piperonyl Butoxide	92.5		P	10 - 139
Prallethrin	82.6		P	17 - 109
Tau-Fluvalinate	78.8		P	13 - 131
Tetramethrin	69.2		P	10 - 132
Trans-Nonachlor	71.7		P	44 - 106
Triclosan Methyl	72.8		P	59 - 109
Trifluralin	72.8		P	44 - 101

Reference Method: EPA 8270E

Batch ID: P425083

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	120		P	42 - 162
Acetochlor	99.4		P	69 - 123
Alachlor	92.0		P	65 - 118
Ametryn	98.6		P	58 - 141
Atrazine	111		P	73 - 118
Atrazine Desethyl	85.9		P	32 - 125
Avobenzone	144		P	40 - 203
Azinphos Methyl	107		P	36 - 197
Azoxystrobin	114		P	58 - 226
Bromacil	88.8		P	48 - 120
Butylate	61.1		P	27 - 85.0
Caffeine	86.7		P	40 - 137
Carbophenothion	99.5		P	54 - 132
Carfentrazone Ethyl	107		P	60 - 142
Chlorfenapyr	92.7		P	53 - 117
Chlorpyrifos Ethyl	95.1		P	59 - 116
Chlorpyrifos Methyl	119		P	66 - 119
Coumaphos	92.2		P	11 - 234
Cyanazine	183		P	61 - 248
Cyprodinil	103		P	50 - 147
Dechlorane Plus	120		P	47 - 182
Demeton	111		P	30 - 138
Diazinon	115		P	67 - 126
Difenoconazole	97.8		P	38 - 205
Dimethenamid	77.9		P	57 - 111

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P425083

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dimethomorph	180		P	16 - 212
Disulfoton	118		P	46 - 126
Dithiopyr	96.9		P	62 - 115
EPTC	48.6		P	28 - 80.0
Ethion	75.9		P	24 - 122
Ethoprop	101		P	62 - 113
Etridiazole	60.4		P	28 - 92.0
Fenamiphos	82.6		P	57 - 128
Fenbuconazole	89.4		P	52 - 155
Fipronil	77.0		P	63 - 130
Fipronil Desulfinyl	94.1		P	61 - 130
Fipronil Sulfide	61.0		P	56 - 117
Fipronil Sulfone	69.2		P	52 - 118
Fluazifop-P-butyl	98.6		P	61 - 128
Fludioxonil	98.6		P	59 - 129
Flumioxazin	77.8		P	30 - 250
Flutolanil	86.5		P	53 - 127
Fluxapyroxad	87.3		P	42 - 132
Fonofos	102		P	61 - 110
Hexazinone	102		P	46 - 139
Imazalil	84.1		P	40 - 139
Iprodione	79.9		P	40 - 146
Loratadine	159		P	10 - 224
Malathion	96.8		P	61 - 135
Metalaxyl	104		P	58 - 121
Metolachlor	97.6		P	64 - 118
Metribuzin	121		P	45 - 245
Mevinphos	81.8		P	49 - 118
Molinate	70.7		P	42 - 92.0
Myclobutanil	87.1		P	55 - 127
Naled	95.8		P	10 - 114
Napropamide	101		P	39 - 121
Norflurazon	85.1		P	55 - 129
Octinoxate	184		F	26 - 166
Oxadiazon	83.9		P	54 - 115
Oxybenzone	101		P	49 - 135
Oxyfluorfen	135		P	64 - 139
Parathion Ethyl	99.9		P	70 - 111
Parathion Methyl	129		P	76 - 136
PBDE-47	113		P	41 - 148
PBDE-99	107		P	38 - 147
Pendimethalin	118		P	52 - 118
Phenytoin	32.9		P	10 - 162
Phorate	82.5		P	40 - 122
Prodiamine	35.6		P	26 - 141
Prometon	64.8		P	54 - 122
Prometryn	76.5		P	61 - 128
Pronamide	96.3		P	72 - 121
Propanil	105		P	45 - 144
Propargite	85.6		P	10 - 199
Propiconazole	104		P	56 - 127
Pyraflufen Ethyl	104		P	56 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P425083

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyridaben	73.5		P	26 - 211
Pyriproxyfen	76.8		P	33 - 194
Simazine	118		P	67 - 121
Stirophos	83.9		P	20 - 142
Sulfentrazone	51.9		P	21 - 144
Tebuconazole	60.8		P	10 - 122
Terbufos	129		P	60 - 129
Terbutylazine	92.0		P	69 - 113
Thiobencarb	83.5		P	51 - 120
Tri-o-cresyl Phosphate	113		P	49 - 150
Triadimefon	99.0		P	56 - 114

Reference Method: EPA 8276

Batch ID: P425082

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	105		P	61 - 116
Toxaphene	114		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P424945

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	106		P	40 - 150
Aldicarb	77.9		P	30 - 150
Aldicarb Sulfone	83.4		P	40 - 150
Aldicarb Sulfoxide	110		P	40 - 150
Carbaryl	69.1		P	40 - 150
Carbofuran	74.1		P	40 - 150
Methiocarb	65.3		P	40 - 150
Methomyl	95.3		P	40 - 150
Oxamyl	90.9		P	40 - 150
Propoxur	69.4		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P424964

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	84.6		P	40 - 150
AMPA	105		P	40 - 150
Endothall	111		P	40 - 150
Glufosinate	106		P	40 - 150
Glyphosate	104		P	40 - 150
Sucralose	89.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P425006

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	81.1		P	40 - 150
2,4,5-T	64.1		P	40 - 150
Acetaminophen	100		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P425006

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetamiprid	86.5		P	40 - 150
Afidopyropen	64.9		P	30 - 150
Bentazon	79.9		P	30 - 150
Benzovindiflupyr	82.4		P	40 - 150
Carbamazepine	85.7		P	40 - 150
Clothianidin	83.8		P	40 - 150
Dinotefuran	111		P	40 - 150
Diuron	70.9		P	40 - 150
Fenuron	89.5		P	40 - 150
Fluridone	67.5		P	40 - 150
Hydrocodone	97.6		P	40 - 150
Ibuprofen	81.7		P	40 - 150
Imazapyr	94.2		P	40 - 150
Imidacloprid	82.3		P	40 - 150
Linuron	74.2		P	40 - 150
Mandestrobin	95.0		P	40 - 150
MCPP	107		P	40 - 150
Naproxen	75.8		P	40 - 150
Primidone	93.8		P	40 - 150
Pyraclostrobin	75.6		P	40 - 150
Silvex	62.6		P	40 - 150
Thiamethoxam	77.6		P	40 - 150
Tolfenpyrad	34.7		P	30 - 150
Triclopyr	72.7		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P425316

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.0		P	94 - 106

Reference Method: SM 2320 B-2011

Batch ID: P425396

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.3		P	94 - 106

Reference Method: SM 2540 C-2015

Batch ID: P425427

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.4		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P425333

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	101		P	85 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P425337

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	90.6		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P425400

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

Reference Method: SM 4500-F- C-2011
Batch ID: P425447

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.5		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P425163

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

Reference Method: SM 5310 B-2011
Batch ID: P425378

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382908	Chloride	97.1		P	90 - 110
2383026	Chloride	90.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425658

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382908	Sulfate	94.3		P	90 - 110
2383026	Sulfate	90.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425609

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383334	Ammonia-N	96.8	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425728

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383669	Ammonia-N	100	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425190

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383373	Kjeldahl Nitrogen	99.6	96.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425191

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383361	Kjeldahl Nitrogen	95.9	95.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383337	NO2NO3-N	99.4	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425259

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383399	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425178

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382820	Total-P	102	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P425179

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383191	Total-P	105	106	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P425082

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382926	Aldrin	51.2	52.6	P/P	20 - 82.0
2382926	Alpha-BHC	87.8	91.7	P/P	71 - 109
2382926	Alpha-Chlordane	100	109	P/F	42 - 106
2382926	Beta-BHC	118	126	P/P	69 - 180
2382926	Beta-Cyfluthrin	105	104	P/P	18 - 175
2382926	Bifenthrin	51.8	72.9	P/P	21 - 128
2382926	Chlorothalonil	114	114	P/P	10 - 300
2382926	Cis-Nonachlor	66.4	57.5	P/P	34 - 106
2382926	Cypermethrin	77.6	79.2	P/P	22 - 158
2382926	Dacthal	82.7	88.5	P/P	54 - 116
2382926	DDD-p,p'	107	96.9	F/P	34 - 107
2382926	DDE-p,p'	99.3	103	P/P	33 - 110
2382926	DDT-p,p'	63.8	73.8	P/P	50 - 122
2382926	Delta-BHC	122	127	P/P	77 - 193
2382926	Deltamethrin	126	95.4	P/P	10 - 195
2382926	Dichlobenil	49.2	50.5	P/P	25 - 113
2382926	Dicofol	78.1	79.5	P/P	38 - 247
2382926	Dieldrin	95.7	104	P/P	45 - 118
2382926	Endosulfan I	71.8	72.9	P/P	51 - 106
2382926	Endosulfan II	72.2	77.7	P/P	37 - 122
2382926	Endosulfan Sulfate	102	119	P/P	43 - 132
2382926	Endrin	100	108	P/F	29 - 101
2382926	Endrin Aldehyde	54.1	37.5	P/P	19 - 110
2382926	Endrin Ketone	77.9	70.9	P/P	60 - 140
2382926	Esfenvalerate	119	115	P/P	26 - 199
2382926	Ethalfuralin	72.4	80.5	P/P	45 - 99.0
2382926	Fenpropathrin	63.4	55.8	P/P	35 - 120
2382926	Gamma-BHC	75.6	75.6	P/P	63 - 128
2382926	Gamma-Chlordane	60.2	50.0	P/P	40 - 104
2382926	Heptachlor	60.8	67.8	P/P	36 - 97.0
2382926	Heptachlor Epoxide	71.7	82.7	P/P	49 - 184
2382926	Hexachlorobenzene	74.6	85.2	P/P	39 - 96.0
2382926	Kepone	175	182	P/P	10 - 217
2382926	Lambda-Cyhalothrin	90.3	83.8	P/P	21 - 193
2382926	Methoprene	100	95.2	P/P	20 - 106
2382926	Methoxychlor	48.2	53.5	F/P	53 - 118
2382926	MGK-264	82.3	83.8	P/P	40 - 118
2382926	Mirex	52.7	53.1	P/P	26 - 92.0
2382926	Oxychlordane	60.4	73.7	P/P	44 - 99.0
2382926	Permethrin	108	114	P/P	33 - 182
2382926	Phenothrin	94.0	54.1	P/P	10 - 129
2382926	Piperonyl Butoxide	101	79.7	P/P	10 - 211
2382926	Prallethrin	118	111	F/P	24 - 113
2382926	Tau-Fluvalinate	116	112	P/P	14 - 149
2382926	Tetramethrin	54.0	64.0	P/P	17 - 151
2382926	Trans-Nonachlor	64.3	65.5	P/P	42 - 102

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P425082

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382926	Triclosan Methyl	77.9	67.1	P/P	48 - 108
2382926	Trifluralin	68.2	76.6	P/P	47 - 96.0
2383566	PCB-1016	87.8	91.8	P/P	46 - 111
2383566	PCB-1260	92.3	94.2	P/P	45 - 114

Reference Method: EPA 8270E

Batch ID: P425083

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383482	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	104	119	P/P	26 - 165
2383482	Acetochlor	103	96.5	P/P	67 - 124
2383482	Alachlor	90.1	76.5	P/P	60 - 120
2383482	Ametryn	82.8	68.8	P/P	54 - 216
2383482	Atrazine	101	97.8	P/P	66 - 128
2383482	Atrazine Desethyl	88.1	66.1	P/P	15 - 122
2383482	Avobenzone	118	132	P/P	37 - 178
2383482	Azinphos Methyl	101	105	P/P	40 - 292
2383482	Azoxystrobin	139	112	P/P	35 - 220
2383482	Bromacil	86.6	81.0	P/P	45 - 127
2383482	Butylate	78.7	45.2	P/P	20 - 83.0
2383482	Caffeine	79.2	101	P/P	10 - 194
2383482	Carbophenothion	81.3	75.8	P/P	57 - 127
2383482	Carfentrazone Ethyl	101	89.3	P/P	51 - 141
2383482	Chlorfenapyr	71.8	78.0	P/P	46 - 111
2383482	Chlorpyrifos Ethyl	86.7	76.4	P/P	52 - 120
2383482	Chlorpyrifos Methyl	112	104	P/P	63 - 119
2383482	Coumaphos	85.4	81.4	P/P	10 - 228
2383482	Cyanazine	177	156	P/P	59 - 241
2383482	Cyprodinil	91.5	80.2	P/P	47 - 146
2383482	Dechlorane Plus	99.5	109	P/P	50 - 150
2383482	Demeton	128	112	P/P	40 - 136
2383482	Diazinon	119	109	P/P	69 - 132
2383482	Difenoconazole	92.3	91.1	P/P	57 - 258
2383482	Dimethenamid	80.1	74.2	P/P	54 - 110
2383482	Dimethomorph	175	158	P/P	28 - 210
2383482	Disulfoton	128	133	P/P	43 - 133
2383482	Dithiopyr	88.6	73.2	P/P	39 - 116
2383482	EPTC	64.2	36.2	P/P	20 - 78.0
2383482	Ethion	46.7	60.0	P/P	17 - 119
2383482	Ethoprop	102	83.5	P/P	66 - 120
2383482	Etridiazole	70.1	45.2	P/P	28 - 96.0
2383482	Fenamiphos	88.9	64.2	P/P	41 - 126
2383482	Fenbuconazole	86.9	75.9	P/P	42 - 169
2383482	Fipronil	94.0	78.3	P/P	61 - 132
2383482	Fipronil Desulfinyl	99.6	93.1	P/P	56 - 132
2383482	Fipronil Sulfide	93.1	80.2	P/P	48 - 119
2383482	Fipronil Sulfone	101	83.4	P/P	42 - 131
2383482	Fluazifop-P-butyl	89.9	82.0	P/P	53 - 131
2383482	Fludioxonil	83.5	76.5	P/P	56 - 127
2383482	Flumioxazin	73.4	74.0	P/P	19 - 300
2383482	Flutolanil	68.9	60.7	P/P	41 - 127
2383482	Fluxapyroxad	70.2	70.5	P/P	42 - 172

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P425083

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383482	Fonofos	112	108	P/P	59 - 113
2383482	Hexazinone	106	102	P/P	66 - 122
2383482	Imazalil	71.6	60.3	P/P	21 - 283
2383482	Iprodione	80.3	72.6	P/P	43 - 150
2383482	Loratadine	151	138	P/P	23 - 201
2383482	Malathion	105	41.5	P/F	58 - 136
2383482	Metalaxyl	95.3	96.2	P/P	55 - 120
2383482	Metolachlor	109	89.7	P/P	57 - 121
2383482	Metribuzin	111	103	P/P	58 - 294
2383482	Mevinphos	112	107	P/P	50 - 126
2383482	Molinate	80.4	64.6	P/P	42 - 93.0
2383482	Myclobutanil	83.2	77.9	P/P	55 - 125
2383482	Naled	112	89.9	P/P	18 - 200
2383482	Napropamide	80.9	79.3	P/P	39 - 110
2383482	Norflurazon	72.0	69.6	P/P	48 - 128
2383482	Octinoxate	159	157	P/P	21 - 159
2383482	Oxadiazon	82.1	74.2	P/P	43 - 112
2383482	Oxybenzone	99.4	95.3	P/P	41 - 142
2383482	Oxyfluorfen	116	105	P/P	64 - 153
2383482	Parathion Ethyl	97.9	94.6	P/P	69 - 114
2383482	Parathion Methyl	125	128	P/P	79 - 139
2383482	PBDE-47	98.5	102	P/P	27 - 144
2383482	PBDE-99	92.7	103	P/P	18 - 150
2383482	Pendimethalin	122	113	P/P	50 - 139
2383482	Phenytoin	17.4	22.7	P/P	10 - 146
2383482	Phorate	102	110	P/P	54 - 161
2383482	Prodiamine	34.8	32.5	P/P	30 - 161
2383482	Prometon	118	133	P/P	45 - 134
2383482	Prometryn	73.8	76.1	P/P	45 - 137
2383482	Pronamide	101	103	P/P	65 - 133
2383482	Propanil	97.2	95.3	P/P	49 - 142
2383482	Propargite	56.4	60.6	P/P	10 - 203
2383482	Propiconazole	101	89.7	P/P	38 - 146
2383482	Pyraflufen Ethyl	86.9	81.8	P/P	34 - 153
2383482	Pyridaben	56.1	50.2	P/P	12 - 192
2383482	Pyriproxyfen	61.3	52.4	P/P	33 - 180
2383482	Simazine	112	102	P/P	51 - 157
2383482	Stirophos	55.5	40.9	P/P	10 - 128
2383482	Sulfentrazone	105	97.3	P/P	53 - 186
2383482	Tebuconazole	43.1	44.5	P/P	10 - 133
2383482	Terbufos	144	137	F/P	65 - 139
2383482	Terbuthylazine	102	88.3	P/P	66 - 117
2383482	Thiobencarb	80.3	39.8	P/F	51 - 119
2383482	Tri-o-cresyl Phosphate	101	104	P/P	31 - 144
2383482	Triadimefon	107	92.5	P/P	48 - 119

Reference Method: EPA 8276

Batch ID: P425082

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383566	Chlordane	118	108	P/P	53 - 126
2383566	Toxaphene	127	123	P/P	56 - 211

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P424945

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382025	3-Hydroxycarbofuran	88.7	80.4	P/P	40 - 150
2382025	Aldicarb	74.5	58.4	P/P	30 - 150
2382025	Aldicarb Sulfone	84.6	81.7	P/P	40 - 150
2382025	Aldicarb Sulfoxide	57.6	57.6	P/P	40 - 150
2382025	Carbaryl	57.3	56.2	P/P	40 - 150
2382025	Carbofuran	58.9	52.8	P/P	40 - 150
2382025	Methiocarb	62.2	64.7	P/P	40 - 150
2382025	Methomyl	87.7	80.3	P/P	40 - 150
2382025	Oxamyl	85.2	85.6	P/P	40 - 150
2382025	Propoxur	54.2	53.7	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P424964

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383065	Acesulfame K	80.9	80.5	P/P	40 - 150
2383065	AMPA	58.4	57.5	P/P	40 - 150
2383065	Endothall	134	131	P/P	40 - 150
2383065	Glufosinate	78.7	74.1	P/P	40 - 150
2383065	Sucralose	79.6	79.8	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P425006

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382996	2,4-D	105	151	P/F	40 - 150
2382996	2,4,5-T	90.7	88.9	P/P	40 - 150
2382996	Acetaminophen	83.6	84.6	P/P	30 - 150
2382996	Acetamiprid	102	99.1	P/P	40 - 150
2382996	Afidopyropen	81.4	74.9	P/P	30 - 150
2382996	Bentazon	60.9	69.8	P/P	30 - 150
2382996	Benzovindiflupyr	79.6	90.3	P/P	40 - 150
2382996	Carbamazepine	72.8	53.7	P/P	40 - 150
2382996	Clothianidin	93.4	96.3	P/P	40 - 150
2382996	Dinotefuran	62.3	66.5	P/P	40 - 150
2382996	Diuron	64.3	70.8	P/P	40 - 150
2382996	Fenuron	80.5	75.7	P/P	40 - 150
2382996	Fluridone	63.6	76.3	P/P	40 - 150
2382996	Hydrocodone	81.2	87.5	P/P	40 - 150
2382996	Ibuprofen	105	105	P/P	40 - 150
2382996	Imazapyr	95.4	108	P/P	40 - 150
2382996	Imidacloprid	108	111	P/P	40 - 150
2382996	Linuron	73.8	76.1	P/P	40 - 150
2382996	Mandestrobin	89.4	89.2	P/P	40 - 150
2382996	MCCPP	112	119	P/P	40 - 150
2382996	Naproxen	116	102	P/P	40 - 150
2382996	Primidone	88.7	99.8	P/P	40 - 150
2382996	Pyraclostrobin	73.7	81.7	P/P	40 - 150
2382996	Silvex	86.9	80.9	P/P	40 - 150
2382996	Thiamethoxam	86.5	94.0	P/P	40 - 150
2382996	Tolfenpyrad	47.8	53.2	P/P	30 - 150
2382996	Triclopyr	80.7	83.2	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P425400

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383190	Fluoride	104	102	F/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P425447

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2381168	Fluoride	91.5	88.7	F/F	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P425163

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383373	Organic Carbon	104		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P425378

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383429	Organic Carbon	91.7	92.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P425224

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383883	Color (true)	1.69	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425058

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383317	Turbidity	9.17	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P425230

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383883	Turbidity	16.3	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425654

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382908	Chloride	0.313	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425658

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382908	Sulfate	0.230	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425609

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383334	Ammonia-N	0.887	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425728

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383669	Ammonia-N	0.796	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425190

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383373	Kjeldahl Nitrogen	1.59	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425191

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383361	Kjeldahl Nitrogen	0.143	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383337	NO2NO3-N	1.94	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425259

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383399	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425178

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382820	Total-P	0.714	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425179

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383191	Total-P	1.66	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P425082

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382926	Aldrin	2.81	Spike	P	0 - 41
2382926	Alpha-BHC	4.37	Spike	P	0 - 25
2382926	Alpha-Chlordane	8.26	Spike	P	0 - 33
2382926	Beta-BHC	6.12	Spike	P	0 - 36
2382926	Beta-Cyfluthrin	0.926	Spike	P	0 - 42
2382926	Bifenthrin	33.8	Spike	P	0 - 53
2382926	Chlorothalonil	0.282	Spike	P	0 - 71
2382926	Cis-Nonachlor	14.4	Spike	P	0 - 29
2382926	Cypermethrin	2.09	Spike	P	0 - 40
2382926	Dacthal	6.81	Spike	P	0 - 26
2382926	DDD-p,p'	10.1	Spike	P	0 - 39
2382926	DDE-p,p'	3.72	Spike	P	0 - 33
2382926	DDT-p,p'	14.5	Spike	P	0 - 40
2382926	Delta-BHC	4.21	Spike	P	0 - 37
2382926	Deltamethrin	27.4	Spike	P	0 - 100
2382926	Dichlobenil	2.66	Spike	P	0 - 40

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P425082

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382926	Dicofol	1.72	Spike	P	0 - 31
2382926	Dieldrin	7.97	Spike	P	0 - 27
2382926	Endosulfan I	1.44	Spike	P	0 - 23
2382926	Endosulfan II	7.33	Spike	P	0 - 28
2382926	Endosulfan Sulfate	16.0	Spike	P	0 - 38
2382926	Endrin	7.84	Spike	P	0 - 63
2382926	Endrin Aldehyde	36.2	Spike	P	0 - 60
2382926	Endrin Ketone	9.45	Spike	P	0 - 37
2382926	Esfenvalerate	3.11	Spike	P	0 - 52
2382926	Ethalfuralin	10.6	Spike	P	0 - 23
2382926	Fenpropathrin	12.8	Spike	P	0 - 32
2382926	Gamma-BHC	0.0517	Spike	P	0 - 17
2382926	Gamma-Chlordane	16.4	Spike	P	0 - 40
2382926	Heptachlor	10.9	Spike	P	0 - 29
2382926	Heptachlor Epoxide	14.2	Spike	P	0 - 25
2382926	Hexachlorobenzene	13.2	Spike	P	0 - 36
2382926	Kepone	3.71	Spike	P	0 - 93
2382926	Lambda-Cyhalothrin	7.42	Spike	P	0 - 55
2382926	Methoprene	4.88	Spike	P	0 - 53
2382926	Methoxychlor	10.3	Spike	P	0 - 29
2382926	MGK-264	1.75	Spike	P	0 - 35
2382926	Mirex	0.776	Spike	P	0 - 46
2382926	Oxychlordane	19.9	Spike	P	0 - 29
2382926	Permethrin	5.77	Spike	P	0 - 44
2382926	Phenothrin	53.9	Spike	P	0 - 56
2382926	Piperonyl Butoxide	23.2	Spike	P	0 - 100
2382926	Prallethrin	5.97	Spike	P	0 - 42
2382926	Tau-Fluvalinate	3.31	Spike	P	0 - 54
2382926	Tetramethrin	16.8	Spike	P	0 - 51
2382926	Trans-Nonachlor	1.92	Spike	P	0 - 37
2382926	Triclosan Methyl	14.9	Spike	P	0 - 31
2382926	Trifluralin	11.5	Spike	P	0 - 30
2383566	PCB-1016	4.39	Spike	P	0 - 32
2383566	PCB-1260	2.03	Spike	P	0 - 31

Reference Method: EPA 8270E

Batch ID: P425083

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383482	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	13.5	Spike	P	0 - 37
2383482	Acetochlor	6.10	Spike	P	0 - 28
2383482	Alachlor	16.2	Spike	P	0 - 30
2383482	Ametryn	18.5	Spike	P	0 - 32
2383482	Atrazine	2.01	Spike	P	0 - 41
2383482	Atrazine Desethyl	28.6	Spike	P	0 - 36
2383482	Avobenzone	11.0	Spike	P	0 - 36
2383482	Azinphos Methyl	3.65	Spike	P	0 - 75
2383482	Azoxystrobin	20.7	Spike	P	0 - 39
2383482	Bromacil	6.59	Spike	P	0 - 33
2383482	Butylate	54.0	Spike	F	0 - 44

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P425083

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383482	Caffeine	23.8	Spike	P	0 - 74
2383482	Carbophenothion	6.89	Spike	P	0 - 25
2383482	Carfentrazone Ethyl	12.7	Spike	P	0 - 27
2383482	Chlorfenapyr	8.25	Spike	P	0 - 24
2383482	Chlorpyrifos Ethyl	12.7	Spike	P	0 - 26
2383482	Chlorpyrifos Methyl	7.63	Spike	P	0 - 26
2383482	Coumaphos	4.79	Spike	P	0 - 28
2383482	Cyanazine	12.9	Spike	P	0 - 48
2383482	Cyprodinil	13.1	Spike	P	0 - 29
2383482	Dechlorane Plus	9.57	Spike	P	0 - 30
2383482	Demeton	13.5	Spike	P	0 - 33
2383482	Diazinon	8.65	Spike	P	0 - 29
2383482	Difenoconazole	1.32	Spike	P	0 - 34
2383482	Dimethenamid	7.63	Spike	P	0 - 39
2383482	Dimethomorph	10.6	Spike	P	0 - 51
2383482	Disulfoton	3.53	Spike	P	0 - 30
2383482	Dithiopyr	19.0	Spike	P	0 - 26
2383482	EPTC	55.9	Spike	F	0 - 43
2383482	Ethion	25.0	Spike	P	0 - 79
2383482	Ethoprop	20.0	Spike	P	0 - 29
2383482	Etridiazole	43.1	Spike	F	0 - 33
2383482	Fenamiphos	32.2	Spike	P	0 - 40
2383482	Fenbuconazole	13.5	Spike	P	0 - 74
2383482	Fipronil	18.3	Spike	P	0 - 29
2383482	Fipronil Desulfanyl	6.76	Spike	P	0 - 32
2383482	Fipronil Sulfide	14.9	Spike	P	0 - 30
2383482	Fipronil Sulfone	19.1	Spike	P	0 - 33
2383482	Fluazifop-P-butyl	9.21	Spike	P	0 - 38
2383482	Fludioxonil	8.75	Spike	P	0 - 29
2383482	Flumioxazin	0.733	Spike	P	0 - 51
2383482	Flutolanil	12.6	Spike	P	0 - 25
2383482	Fluxapyroxad	0.360	Spike	P	0 - 45
2383482	Fonofos	3.79	Spike	P	0 - 27
2383482	Hexazinone	3.65	Spike	P	0 - 30
2383482	Imazalil	17.1	Spike	P	0 - 100
2383482	Iprodione	10.1	Spike	P	0 - 33
2383482	Loratadine	8.64	Spike	P	0 - 56
2383482	Malathion	87.1	Spike	F	0 - 37
2383482	Metalaxyl	0.918	Spike	P	0 - 40
2383482	Metolachlor	19.3	Spike	P	0 - 29
2383482	Metribuzin	6.89	Spike	P	0 - 45
2383482	Mevinphos	4.21	Spike	P	0 - 29
2383482	Molinate	21.8	Spike	P	0 - 33
2383482	Myclobutanil	6.54	Spike	P	0 - 26
2383482	Naled	21.6	Spike	P	0 - 37
2383482	Napropamide	2.02	Spike	P	0 - 44
2383482	Norflurazon	3.32	Spike	P	0 - 30
2383482	Octinoxate	0.844	Spike	P	0 - 45
2383482	Oxadiazon	10.0	Spike	P	0 - 28
2383482	Oxybenzone	4.20	Spike	P	0 - 46
2383482	Oxyfluorfen	9.93	Spike	P	0 - 28

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P425083

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383482	Parathion Ethyl	3.41	Spike	P	0 - 31
2383482	Parathion Methyl	2.47	Spike	P	0 - 29
2383482	PBDE-47	3.79	Spike	P	0 - 36
2383482	PBDE-99	10.0	Spike	P	0 - 40
2383482	Pendimethalin	8.20	Spike	P	0 - 33
2383482	Phenytoin	26.1	Spike	P	0 - 100
2383482	Phorate	7.98	Spike	P	0 - 36
2383482	Prodiamine	6.88	Spike	P	0 - 71
2383482	Prometon	12.7	Spike	P	0 - 36
2383482	Prometryn	3.02	Spike	P	0 - 28
2383482	Pronamide	1.83	Spike	P	0 - 24
2383482	Propanil	1.93	Spike	P	0 - 28
2383482	Propargite	7.17	Spike	P	0 - 43
2383482	Propiconazole	12.1	Spike	P	0 - 33
2383482	Pyraflufen Ethyl	6.02	Spike	P	0 - 29
2383482	Pyridaben	11.1	Spike	P	0 - 30
2383482	Pyriproxyfen	15.7	Spike	P	0 - 79
2383482	Simazine	9.80	Spike	P	0 - 29
2383482	Stirophos	30.2	Spike	P	0 - 61
2383482	Sulfentrazone	7.96	Spike	P	0 - 33
2383482	Tebuconazole	3.36	Spike	P	0 - 69
2383482	Terbufos	4.59	Spike	P	0 - 29
2383482	Terbuthylazine	14.6	Spike	P	0 - 32
2383482	Thiobencarb	67.5	Spike	F	0 - 26
2383482	Tri-o-cresyl Phosphate	3.33	Spike	P	0 - 33
2383482	Triadimefon	14.3	Spike	P	0 - 28

Reference Method: EPA 8276

Batch ID: P425082

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383566	Chlordane	8.25	Spike	P	0 - 25
2383566	Toxaphene	2.93	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P424945

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382025	3-Hydroxycarbofuran	9.80	Spike	P	0 - 30
2382025	Aldicarb	24.3	Spike	P	0 - 30
2382025	Aldicarb Sulfone	3.48	Spike	P	0 - 30
2382025	Aldicarb Sulfoxide	0.148	Spike	P	0 - 30
2382025	Carbaryl	1.92	Spike	P	0 - 30
2382025	Carbofuran	11.0	Spike	P	0 - 30
2382025	Methiocarb	3.88	Spike	P	0 - 30
2382025	Methomyl	8.87	Spike	P	0 - 30
2382025	Oxamyl	0.543	Spike	P	0 - 30
2382025	Propoxur	0.864	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P424964

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383065	Acesulfame K	0.521	Spike	P	0 - 30
2383065	AMPA	1.43	Spike	P	0 - 30
2383065	Endothall	1.95	Spike	P	0 - 30
2383065	Glufosinate	6.05	Spike	P	0 - 30
2383065	Glyphosate	19.9	Spike	P	0 - 30
2383065	Sucralose	0.343	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P425006

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382996	2,4-D	35.6	Spike	F	0 - 30
2382996	2,4,5-T	2.05	Spike	P	0 - 30
2382996	Acetaminophen	1.28	Spike	P	0 - 30
2382996	Acetamiprid	3.12	Spike	P	0 - 30
2382996	Afidopyropen	8.31	Spike	P	0 - 30
2382996	Bentazon	13.5	Spike	P	0 - 30
2382996	Benzovindiflupyr	12.7	Spike	P	0 - 30
2382996	Carbamazepine	28.0	Spike	P	0 - 30
2382996	Clothianidin	3.03	Spike	P	0 - 30
2382996	Dinotefuran	4.89	Spike	P	0 - 30
2382996	Diuron	9.64	Spike	P	0 - 30
2382996	Fenuron	6.15	Spike	P	0 - 30
2382996	Fluridone	18.1	Spike	P	0 - 30
2382996	Hydrocodone	7.46	Spike	P	0 - 30
2382996	Ibuprofen	0.329	Spike	P	0 - 30
2382996	Imazapyr	12.4	Spike	P	0 - 30
2382996	Imidacloprid	2.72	Spike	P	0 - 30
2382996	Linuron	3.09	Spike	P	0 - 30
2382996	Mandestrobin	0.275	Spike	P	0 - 30
2382996	MCPP	6.24	Spike	P	0 - 30
2382996	Naproxen	12.1	Spike	P	0 - 30
2382996	Primidone	11.7	Spike	P	0 - 30
2382996	Pyraclostrobin	10.3	Spike	P	0 - 30
2382996	Silvex	7.13	Spike	P	0 - 30
2382996	Thiamethoxam	8.28	Spike	P	0 - 30
2382996	Tolfenpyrad	10.6	Spike	P	0 - 30
2382996	Triclopyr	3.05	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P425316

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382372	Total Alkalinity	0.384	Sample	P	0 - 3.8

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P425396

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383190	Total Alkalinity	0.142	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P425427

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382577	TDS	5.08	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P425337

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383425	TSS	8.22	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P425400

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383190	Fluoride	1.47	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P425447

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2381168	Fluoride	1.97	Spike	F	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P425163

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383373	Organic Carbon	1.25	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P425378

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383429	Organic Carbon	1.14	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2383344
Field Sample ID: G5CE0130

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	43.0	P	30 - 160

Lab Sample ID: 2383345
Field Sample ID: G5CE0130

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	110	P	30 - 160
EPA 8321B	Carbamazepine-d10	79.9	P	30 - 160
EPA 8321B	Diuron-d6	70.5	P	30 - 160
EPA 8321B	Endothall-d6	84.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	47.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	80.5	P	30 - 160
EPA 8321B	Primidone-d5	110	P	30 - 160
EPA 8321B	Sucralose-d6	80.9	P	30 - 160

Lab Sample ID: 2383346
Field Sample ID: G5CE0130

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	83.3	P	29 - 130
EPA 8270E	Decachlorobiphenyl	44.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	58.3	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	61.5	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	53.2	P	30 - 101
EPA 8276	PCNB	92.4	P	48 - 121

Lab Sample ID: 2383347
Field Sample ID: G5CE0130

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	85.2	P	20 - 200
EPA 8270E	Simazine-d10	121	P	62 - 142
EPA 8270E	Terbufos-d10	122	P	58 - 132
EPA 8270E	Terphenyl-d14	118	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A117080
Included Lab Sample IDs: 2383345

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	79.4	70.1	P/P	60 - 160
Sucralose	85.2	87.7	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A117084
Included Lab Sample IDs: 2383345

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.7	98.5	P/P	60 - 160
Endothall	115	105	P/P	60 - 160
Glufosinate	98.2	100	P/P	60 - 160
Glyphosate	111	101	P/P	60 - 160

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A117125
Included Lab Sample IDs: 2383336

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	101	P/P	95 - 105

Reference Method: EPA 8321B
Run ID: A117129
Included Lab Sample IDs: 2383344

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	118	138	P/P	60 - 150
Aldicarb	106	102	P/P	60 - 150
Aldicarb Sulfone	112	109	P/P	50 - 150
Aldicarb Sulfoxide	104	106	P/P	50 - 150
Carbaryl	130	117	P/P	60 - 150
Carbofuran	111	113	P/P	50 - 150
Methiocarb	108	110	P/P	50 - 150
Methomyl	108	111	P/P	50 - 150
Oxamyl	106	111	P/P	50 - 150
Propoxur	120	112	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A117160
Included Lab Sample IDs: 2383345

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	99.9	111	P/P	50 - 150
2,4,5-T	106	112	P/P	50 - 150
Acetaminophen	122	125	P/P	60 - 160
Acetamiprid	114	113	P/P	50 - 150
Afidopyropen	84.4	98.4	P/P	50 - 150
Bentazon	99.6	107	P/P	50 - 160
Benzovindiflupyr	104	121	P/P	50 - 150
Carbamazepine	120	114	P/P	60 - 150
Clothianidin	99.3	97.1	P/P	60 - 150
Dinotefuran	138	143	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A117160
Included Lab Sample IDs: 2383345

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	121	129	P/P	60 - 160
Fenuron	98.1	97.3	P/P	60 - 150
Fluridone	97.0	112	P/P	60 - 160
Hydrocodone	128	131	P/P	60 - 150
Ibuprofen	78.8	73.3	P/P	50 - 160
Imazapyr	121	119	P/P	50 - 150
Imidacloprid	91.2	92.6	P/P	60 - 150
Linuron	100	98.9	P/P	60 - 150
Mandestrobin	113	121	P/P	50 - 150
MCPP	88.5	107	P/P	50 - 150
Naproxen	142	92.1	P/P	50 - 160
Primidone	114	122	P/P	60 - 150
Pyraclostrobin	112	121	P/P	60 - 150
Silvex	96.1	119	P/P	50 - 150
Thiamethoxam	92.6	90.1	P/P	50 - 150
Tolfenpyrad	108	109	P/P	60 - 150
Triclopyr	95.1	107	P/P	50 - 150

Reference Method: SM 5310 B-2011
Run ID: A117165
Included Lab Sample IDs: 2383339

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.7	99.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A117179
Included Lab Sample IDs: 2383337

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A117181
Included Lab Sample IDs: 2383337, 2383339

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.8	96.3	P/P	90 - 110
Kjeldahl Nitrogen	98.5	97.8	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A117186
Included Lab Sample IDs: 2383338

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117193

Included Lab Sample IDs: 2383338

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

Reference Method: EPA 8270E

Run ID: A117198

Included Lab Sample IDs: 2383346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.5		P	80 - 120
PCB-1260	102		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117200

Included Lab Sample IDs: 2383337

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117205

Included Lab Sample IDs: 2383339

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117206

Included Lab Sample IDs: 2383339

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

Reference Method: EPA 8270E

Run ID: A117220

Included Lab Sample IDs: 2383346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.1		P	80 - 120
Alpha-BHC	96.7		P	80 - 120
Alpha-Chlordane	87.9		P	80 - 120
Beta-BHC	107		P	80 - 120
Beta-Cyfluthrin	98.6		P	80 - 120
Bifenthrin	98.8		P	80 - 120
Chlorothalonil	103		P	80 - 120
Cis-Nonachlor	105		P	80 - 120
Cypermethrin	115		P	80 - 120
Dacthal	111		P	80 - 120
DDD-p,p'	96.2		P	80 - 120
DDE-p,p'	96.0		P	80 - 120
DDT-p,p'	97.0		P	80 - 120
Delta-BHC	90.8		P	80 - 120
Deltamethrin	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117220
Included Lab Sample IDs: 2383346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dichlobenil	92.5		P	80 - 120
Dicofol	98.8		P	80 - 120
Dieldrin	95.4		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	110		P	80 - 120
Endosulfan Sulfate	96.1		P	80 - 120
Endrin	93.9		P	80 - 120
Endrin Aldehyde	114		P	80 - 120
Endrin Ketone	113		P	80 - 120
Esfenvalerate	98.9		P	80 - 120
Ethalfuralin	102		P	80 - 120
Fenpropathrin	81.3		P	80 - 120
Gamma-BHC	112		P	80 - 120
Gamma-Chlordane	105		P	80 - 120
Heptachlor	109		P	80 - 120
Heptachlor Epoxide	108		P	80 - 120
Hexachlorobenzene	106		P	80 - 120
Kepone	83.8		P	80 - 120
Lambda-Cyhalothrin	113		P	80 - 120
Methoprene	92.1		P	80 - 120
Methoxychlor	87.2		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	107		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	94.1		P	80 - 120
Phenothrin	95.0		P	80 - 120
Piperonyl Butoxide	89.8		P	80 - 120
Prallethrin	87.2		P	80 - 120
Tau-Fluvalinate	98.7		P	80 - 120
Tetramethrin	80.2		P	80 - 120
Trans-Nonachlor	109		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	103		P	80 - 120

Reference Method: EPA 8276
Run ID: A117231
Included Lab Sample IDs: 2383346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.2		P	80 - 120
Toxaphene	92.8		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A117235
Included Lab Sample IDs: 2383336

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.0	97.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A117264

Included Lab Sample IDs: 2383337

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	96.6	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A117270

Included Lab Sample IDs: 2383338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.5	96.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A117270

Included Lab Sample IDs: 2383338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	105	106	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A117285

Included Lab Sample IDs: 2383336

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	97.6	98.6	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A117309

Included Lab Sample IDs: 2383347

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	100		P	80 - 120
Avobenzone	97.5		P	80 - 120
Dechlorane Plus	89.2		P	80 - 120
Octinoxate	108		P	80 - 120
Oxybenzone	109		P	80 - 120
PBDE-47	105		P	80 - 120
PBDE-99	102		P	80 - 120
Tri-o-cresyl Phosphate	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A117317

Included Lab Sample IDs: 2383338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.1	98.1	P/P	90 - 110
Sulfate	96.9	97.1	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A117344

Included Lab Sample IDs: 2383347

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117344
Included Lab Sample IDs: 2383347

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alachlor	103		P	80 - 120
Ametryn	96.0		P	80 - 120
Atrazine Desethyl	105		P	80 - 120
Azinphos Methyl	85.9		P	80 - 120
Azoxystrobin	97.6		P	80 - 120
Bromacil	96.3		P	80 - 120
Butylate	100		P	80 - 120
Caffeine	81.2		P	80 - 120
Carbophenothion	89.5		P	80 - 120
Carfentrazone Ethyl	97.4		P	80 - 120
Chlorfenapyr	99.6		P	80 - 120
Chlorpyrifos Ethyl	97.9		P	80 - 120
Chlorpyrifos Methyl	95.5		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	103		P	80 - 120
Cyprodinil	89.8		P	80 - 120
Demeton	104		P	80 - 120
Diazinon	98.2		P	80 - 120
Difenoconazole	89.2		P	80 - 120
Dimethenamid	99.5		P	80 - 120
Dimethomorph	86.8		P	80 - 120
Disulfoton	94.0		P	80 - 120
Dithiopyr	100		P	80 - 120
EPTC	98.3		P	80 - 120
Ethion	99.8		P	80 - 120
Ethoprop	100		P	80 - 120
Etridiazole	91.5		P	80 - 120
Fenamiphos	104		P	80 - 120
Fenbuconazole	93.8		P	80 - 120
Fipronil	104		P	80 - 120
Fipronil Desulfinyl	99.5		P	80 - 120
Fipronil Sulfide	107		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	104		P	80 - 120
Fludioxonil	93.8		P	80 - 120
Flumioxazin	88.9		P	80 - 120
Flutolanil	96.1		P	80 - 120
Fluxapyroxad	102		P	80 - 120
Fonofos	100		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	96.8		P	80 - 120
Iprodione	92.0		P	80 - 120
Loratadine	86.1		P	80 - 120
Malathion	94.3		P	80 - 120
Metalaxyl	99.5		P	80 - 120
Metolachlor	105		P	80 - 120
Metribuzin	108		P	80 - 120
Mevinphos	95.1		P	80 - 120
Molinate	102		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117344
Included Lab Sample IDs: 2383347

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Napropamide	102		P	80 - 120
Norflurazon	96.5		P	80 - 120
Oxadiazon	104		P	80 - 120
Oxyfluorfen	105		P	80 - 120
Parathion Ethyl	97.7		P	80 - 120
Parathion Methyl	100		P	80 - 120
Pendimethalin	109		P	80 - 120
Phenytoin	97.7		P	80 - 120
Phorate	98.4		P	80 - 120
Prodiamine	96.0		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	105		P	80 - 120
Pronamide	107		P	80 - 120
Propanil	85.1		P	80 - 120
Propargite	89.8		P	80 - 120
Propiconazole	99.5		P	80 - 120
Pyraflufen Ethyl	101		P	80 - 120
Pyridaben	87.9		P	80 - 120
Pyriproxyfen	94.7		P	80 - 120
Simazine	112		P	80 - 120
Stirophos	92.8		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	99.7		P	80 - 120
Terbufos	102		P	80 - 120
Terbuthylazine	103		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	120		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A117354
Included Lab Sample IDs: 2383339

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	97.3	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A117398
Included Lab Sample IDs: 2383347

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	95.8		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A117409
Included Lab Sample IDs: 2383337

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	98.7	P/P	90 - 110

Quality Assurance Report

Calibration Verification

* 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	MS
DEP SOP: NU-094-1	Color (true)	99.7			1.69	
EPA 180.1 Rev. 2.0	Turbidity	100			9.17	
	Turbidity	101			16.3	
EPA 300.0 Rev. 2.1	Chloride	98.2	97.1	90.3	0.313	
	Sulfate	96.6	94.3	90.2	0.230	
EPA 350.1 Rev. 2.0	Ammonia-N	97.2	96.8	97.8		0.887
	Ammonia-N	91.0	100	101		0.796
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	92.0	99.6	96.8		1.59
	Kjeldahl Nitrogen	97.8	95.9	95.8		0.143
EPA 353.2 Rev. 2.0	NO2NO3-N	102	99.4	101		1.94
	NO2NO3-N	106	106	106		0.0
EPA 365.1 Rev. 2.0	Total-P	101	102	101		0.714
	Total-P	105	105	106		1.66
EPA 8270E	2-Ethylhexyl	120	104	119		13.5
	2,3,4,5-tetrabromobenzoate (EHTBB)					
	Acetochlor	99.4	103	96.5		6.10
	Alachlor	92.0	90.1	76.5		16.2
	Aldrin	45.7	51.2	52.6		2.81
	Alpha-BHC	93.7	87.8	91.7		4.37
	Alpha-Chlordane	84.8	100	109		8.26
	Ametryn	98.6	82.8	68.8		18.5
	Atrazine	111	101	97.8		2.01
	Atrazine Desethyl	85.9	88.1	66.1		28.6
	Avobenzone	144	118	132		11.0
	Azinphos Methyl	107	101	105		3.65
	Azoxystrobin	114	139	112		20.7
	Beta-BHC	120	118	126		6.12
	Beta-Cyfluthrin	79.5	105	104		0.926
	Bifenthrin	50.9	51.8	72.9		33.8
	Bromacil	88.8	86.6	81.0		6.59
	Butylate	61.1	78.7	45.2		54.0
	Caffeine	86.7	79.2	101		23.8
	Carbophenothion	99.5	81.3	75.8		6.89
	Carfentrazone Ethyl	107	101	89.3		12.7
	Chlorfenapyr	92.7	71.8	78.0		8.25
	Chlorothalonil	112	114	114		0.282
	Chlorpyrifos Ethyl	95.1	86.7	76.4		12.7
	Chlorpyrifos Methyl	119	112	104		7.63
	Cis-Nonachlor	62.5	66.4	57.5		14.4
	Coumaphos	92.2	85.4	81.4		4.79
	Cyanazine	183	177	156		12.9
	Cypermethrin	71.6	77.6	79.2		2.09
	Cyprodinil	103	91.5	80.2		13.1
	Dacthal	95.5	82.7	88.5		6.81
	DDD-p,p'	89.2	107	96.9		10.1
	DDE-p,p'	83.9	99.3	103		3.72
	DDT-p,p'	68.9	63.8	73.8		14.5
	Dechlorane Plus	120	99.5	109		9.57
	Delta-BHC	113	122	127		4.21
	Deltamethrin	91.2	126	95.4		27.4
	Demeton	111	128	112		13.5
	Diazinon	115	119	109		8.65
	Dichlobenil	81.6	49.2	50.5		2.66

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Dicofol	105	78.1	79.5		1.72
	Dieldrin	89.8	95.7	104		7.97
	Difenoconazole	97.8	92.3	91.1		1.32
	Dimethenamid	77.9	80.1	74.2		7.63
	Dimethomorph	180	175	158		10.6
	Disulfoton	118	128	133		3.53
	Dithiopyr	96.9	88.6	73.2		19.0
	Endosulfan I	75.6	71.8	72.9		1.44
	Endosulfan II	88.0	72.2	77.7		7.33
	Endosulfan Sulfate	105	102	119		16.0
	Endrin	91.8	100	108		7.84
	Endrin Aldehyde	73.7	54.1	37.5		36.2
	Endrin Ketone	97.2	77.9	70.9		9.45
	EPTC	48.6	64.2	36.2		55.9
	Esfenvalerate	84.2	119	115		3.11
	Ethalfuralin	71.1	72.4	80.5		10.6
	Ethion	75.9	46.7	60.0		25.0
	Ethoprop	101	102	83.5		20.0
	Etridiazole	60.4	70.1	45.2		43.1
	Fenamiphos	82.6	88.9	64.2		32.2
	Fenbuconazole	89.4	86.9	75.9		13.5
	Fenpropathrin	62.8	63.4	55.8		12.8
	Fipronil	77.0	94.0	78.3		18.3
	Fipronil Desulfinyl	94.1	99.6	93.1		6.76
	Fipronil Sulfide	61.0	93.1	80.2		14.9
	Fipronil Sulfone	69.2	101	83.4		19.1
	Fluazifop-P-butyl	98.6	89.9	82.0		9.21
	Fludioxonil	98.6	83.5	76.5		8.75
	Flumioxazin	77.8	73.4	74.0		0.733
	Flutolanil	86.5	68.9	60.7		12.6
	Fluxapyroxad	87.3	70.2	70.5		0.360
	Fonofos	102	112	108		3.79
	Gamma-BHC	88.4	75.6	75.6		0.0517
	Gamma-Chlordane	60.7	60.2	50.0		16.4
	Heptachlor	68.9	60.8	67.8		10.9
	Heptachlor Epoxide	84.7	71.7	82.7		14.2
	Hexachlorobenzene	67.4	74.6	85.2		13.2
	Hexazinone	102	106	102		3.65
	Imazalil	84.1	71.6	60.3		17.1
	Iprodione	79.9	80.3	72.6		10.1
	Kepone	205	175	182		3.71
	Lambda-Cyhalothrin	60.7	90.3	83.8		7.42
	Loratadine	159	151	138		8.64
	Malathion	96.8	105	41.5		87.1
	Metalaxyl	104	95.3	96.2		0.918
	Methoprene	60.9	100	95.2		4.88
	Methoxychlor	97.2	48.2	53.5		10.3
	Metolachlor	97.6	109	89.7		19.3
	Metribuzin	121	111	103		6.89
	Mevinphos	81.8	112	107		4.21
	MGK-264	79.2	82.3	83.8		1.75
	Mirex	53.5	52.7	53.1		0.776
	Molinate	70.7	80.4	64.6		21.8
	Myclobutanil	87.1	83.2	77.9		6.54

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Naled	95.8	112	89.9		21.6
	Napropamide	101	80.9	79.3		2.02
	Norflurazon	85.1	72.0	69.6		3.32
	Octinoxate	184	159	157		0.844
	Oxadiazon	83.9	82.1	74.2		10.0
	Oxybenzone	101	99.4	95.3		4.20
	Oxychlordane	75.3	60.4	73.7		19.9
	Oxyfluorfen	135	116	105		9.93
	Parathion Ethyl	99.9	97.9	94.6		3.41
	Parathion Methyl	129	125	128		2.47
	PBDE-47	113	98.5	102		3.79
	PBDE-99	107	92.7	103		10.0
	PCB-1016	84.4	87.8	91.8		4.39
	PCB-1260	93.6	92.3	94.2		2.03
	Pendimethalin	118	122	113		8.20
	Permethrin	103	108	114		5.77
	Phenothrin	39.5	94.0	54.1		53.9
	Phenytoin	32.9	17.4	22.7		26.1
	Phorate	82.5	102	110		7.98
	Piperonyl Butoxide	92.5	101	79.7		23.2
	Prallethrin	82.6	118	111		5.97
	Prodiamine	35.6	34.8	32.5		6.88
	Prometon	64.8	118	133		12.7
	Prometryn	76.5	73.8	76.1		3.02
	Pronamide	96.3	101	103		1.83
	Propanil	105	97.2	95.3		1.93
	Propargite	85.6	56.4	60.6		7.17
	Propiconazole	104	101	89.7		12.1
	Pyraflufen Ethyl	104	86.9	81.8		6.02
	Pyridaben	73.5	56.1	50.2		11.1
	Pyriproxyfen	76.8	61.3	52.4		15.7
	Simazine	118	112	102		9.80
	Stirophos	83.9	55.5	40.9		30.2
	Sulfentrazone	51.9	105	97.3		7.96
	Tau-Fluvalinate	78.8	116	112		3.31
	Tebuconazole	60.8	43.1	44.5		3.36
	Terbufos	129	144	137		4.59
	Terbutylazine	92.0	102	88.3		14.6
	Tetramethrin	69.2	54.0	64.0		16.8
	Thiobencarb	83.5	80.3	39.8		67.5
	Trans-Nonachlor	71.7	64.3	65.5		1.92
	Tri-o-cresyl Phosphate	113	101	104		3.33
	Triadimefon	99.0	107	92.5		14.3
	Triclosan Methyl	72.8	77.9	67.1		14.9
	Trifluralin	72.8	68.2	76.6		11.5
EPA 8276	Chlordane	105	118	108		8.25
	Toxaphene	114	127	123		2.93
EPA 8321B	2,4-D	81.1	105	151		35.6
	2,4,5-T	64.1	90.7	88.9		2.05
	3-Hydroxycarbofuran	106	88.7	80.4		9.80
	Acesulfame K	84.6	80.9	80.5		0.521
	Acetaminophen	100	83.6	84.6		1.28
	Acetamiprid	86.5	102	99.1		3.12
	Afidopyropen	64.9	81.4	74.9		8.31

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Aldicarb	77.9	74.5	58.4		
	Aldicarb Sulfone	83.4	84.6	81.7		
	Aldicarb Sulfoxide	110	57.6	57.6		
	AMPA	105	58.4	57.5		
	Bentazon	79.9	60.9	69.8		
	Benzovindiflupyr	82.4	79.6	90.3		
	Carbamazepine	85.7	72.8	53.7		
	Carbaryl	69.1	56.2	57.3		
	Carbofuran	74.1	52.8	58.9		
	Clothianidin	83.8	93.4	96.3		
	Dinotefuran	111	62.3	66.5		
	Diuron	70.9	64.3	70.8		
	Endothall	111	134	131		
	Fenuron	89.5	80.5	75.7		
	Fluridone	67.5	63.6	76.3		
	Glufosinate	106	78.7	74.1		
	Glyphosate	104				
	Hydrocodone	97.6	81.2	87.5		
	Ibuprofen	81.7	105	105		
	Imazapyr	94.2	95.4	108		
	Imidacloprid	82.3	108	111		
	Linuron	74.2	73.8	76.1		
	Mandestrobin	95.0	89.4	89.2		
	MCPP	107	112	119		
	Methiocarb	65.3	64.7	62.2		
	Methomyl	95.3	87.7	80.3		
	Naproxen	75.8	116	102		
	Oxamyl	90.9	85.2	85.6		
	Primidone	93.8	88.7	99.8		
	Propoxur	69.4	54.2	53.7		
	Pyraclostrobin	75.6	73.7	81.7		
	Silvex	62.6	86.9	80.9		
	Sucralose	89.6	79.6	79.8		
	Thiamethoxam	77.6	86.5	94.0		
	Tolfenpyrad	34.7	47.8	53.2		
	Triclopyr	72.7	80.7	83.2		
SM 2320 B-2011	Total Alkalinity	95.0				0.384
	Total Alkalinity	97.3				0.142
SM 2540 C-2015	TDS	97.4				5.08
SM 2540 D-2015	TSS	101				
	TSS	90.6				8.22
SM 4500-F- C-2011	Fluoride	104	104	102		
	Fluoride	96.5	91.5	88.7		
SM 5310 B-2011	Organic Carbon	99.8	104			
	Organic Carbon	98.2	91.7	92.9		

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2383338
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2383336, 2383338
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2383338
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2383338

Reference Method Descriptions

Method	Description	Associated Samples
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2383337, 2383339
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2383337, 2383339
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2383337, 2383339
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2383337, 2383339
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2383347
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2383346
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2383347
EPA 8270E	PCBs in water matrices by GC/MS/MS	2383346
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2383346
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2383344
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2383345
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2383336, 2383338
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2383338
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2383336, 2383338
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2383336, 2383338
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2383337, 2383339

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	01/26/2023			01/31/2023 14:31	Alexis Price	2383338
EPA 180.1 Rev. 2.0	01/26/2023			01/26/2023 13:09	Chandler E Cox	2383336
	01/26/2023			01/31/2023 13:35	Khloe J Berg	2383338
EPA 300.0 Rev. 2.1	01/26/2023			02/08/2023 16:41	Anna M. Plaviak	2383338
EPA 350.1 Rev. 2.0	01/26/2023			02/09/2023 11:49	Ping Hua	2383339
	01/26/2023			02/13/2023 11:11	Ping Hua	2383337
EPA 351.2 Rev. 2.0	01/26/2023	01/30/2023 13:20	Simonne.V. Calhoun	01/31/2023 13:00	Samantha L Bates	2383339
	01/26/2023	01/30/2023 13:20	Simonne.V. Calhoun	01/31/2023 13:19	Samantha L Bates	2383337
EPA 353.2 Rev. 2.0	01/26/2023			01/31/2023 11:14	Beverly Y. Sanders	2383337
	01/26/2023			02/01/2023 11:09	Beverly Y. Sanders	2383339
EPA 365.1 Rev. 2.0	01/26/2023	01/31/2023 13:47	Adam P Silver	02/01/2023 09:25	James L Waggeberby	2383337
	01/26/2023	01/31/2023 13:47	Adam P Silver	02/01/2023 12:55	James L Waggeberby	2383339
EPA 8270E	01/26/2023	01/30/2023 08:00	Fe-Val Siddell	01/31/2023 21:14	Vandana T. Nagar	2383346
	01/26/2023	01/30/2023 08:00	Fe-Val Siddell	02/01/2023 18:19	Julie Wi	2383346
	01/26/2023	02/01/2023 08:00	Rasheda Ghaffari	02/07/2023 19:21	Michael Poppell	2383347
	01/26/2023	02/01/2023 08:00	Rasheda Ghaffari	02/07/2023 20:09	Arthur Maknenko	2383347
	01/26/2023	02/01/2023 08:00	Rasheda Ghaffari	02/09/2023 19:13	Michael Poppell	2383347
EPA 8276	01/26/2023	01/30/2023 08:00	Fe-Val Siddell	02/02/2023 05:25	Lipi Saha	2383346
EPA 8321B	01/26/2023	01/26/2023 10:32	Hoor Shaik	01/26/2023 17:22	Juyoung Kim	2383344
	01/26/2023	01/26/2023 15:00	Manjita Shrestha	01/26/2023 16:13	Manjita Shrestha	2383345
	01/26/2023	01/26/2023 15:00	Manjita Shrestha	01/26/2023 22:35	Manjita Shrestha	2383345
	01/26/2023	01/26/2023 15:00	Manjita Shrestha	01/27/2023 00:20	Manjita Shrestha	2383345
	01/26/2023	01/27/2023 09:30	June Rhew	01/28/2023 02:36	Juyoung Kim	2383345
SM 2320 B-2011	01/26/2023			02/01/2023 18:38	Dale L. Simmons	2383336
	01/26/2023			02/03/2023 07:16	Dale L. Simmons	2383338
SM 2540 C-2015	01/26/2023			01/27/2023 16:11	Yijie Li	2383338
SM 2540 D-2015	01/26/2023			01/27/2023 16:11	Yijie Li	2383336, 2383338
SM 4500-F- C-2011	01/26/2023			02/03/2023 07:16	Dale L. Simmons	2383338
	01/26/2023			02/07/2023 02:34	Adam P Silver	2383336
SM 5310 B-2011	01/26/2023			01/31/2023 00:54	Khloe J Berg	2383339
	01/26/2023			02/04/2023 07:39	Elise M. Gillis	2383337