

Chemical Analysis Report

SO-DIST-2022-08-16-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **2022 SMP : Myakka Cricks**

Request ID: **RQ-2022-08-15-52**

Customer: **SO-DIST**

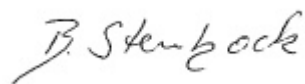
Project ID: **SMP**

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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 08-SEP-2022 14:03



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: Metals, 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: FlopbuckNearPearlSt

Collection Date/Time: 08/15/2022 09:05

Field ID: G3SD0185

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349557	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P418178	
	SM 2320 B-2011	Total Alkalinity	183	A	mg CaCO3/L	P418392	
	SM 2540 D-2011	TSS	3	IA	mg/L	P418608	
	SM 4500-F- C-2011	Fluoride	0.53		mg F/L	P418404	
2349558	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P418489	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.93		mg N/L	P418446	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P418378	
	EPA 365.1 Rev. 2.0	Total-P	0.22		mg P/L	P418605	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P418469	
2349589	EPA 200.7 Rev. 4.4	Calcium	165		mg/L	P418291	
		Iron	250	I	ug/L	P418291	
		Magnesium	227		mg/L	P418291	
		Strontium	2.88E+03		ug/L	P418291	
		Tin	13	I	ug/L	P418291	
		Titanium	4.2	I	ug/L	P418291	
		Vanadium	6.0	U	ug/L	P418291	
		Zinc	15	U	ug/L	P418291	
	EPA 200.8 Rev. 5.4	Aluminum	170	I	ug/L	P418291	
		Antimony	0.28	I	ug/L	P418291	
		Arsenic	3.0		ug/L	P418291	
		Beryllium	0.10	U	ug/L	P418291	
		Cadmium	0.080	U	ug/L	P418291	
		Chromium	1.6	U	ug/L	P418291	
		Cobalt	0.13	I	ug/L	P418291	
		Copper	1.6	U	ug/L	P418291	
		Lead	0.80	U	ug/L	P418291	
		Manganese	25.1		ug/L	P418291	
		Molybdenum	5.0	I	ug/L	P418291	
		Nickel	2.0	U	ug/L	P418291	
		Selenium	2.0	U	ug/L	P418291	
		Silver	0.040	U	ug/L	P418291	
		Thallium	0.40	U	ug/L	P418291	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 4500-F- C-2011: Batch matrix spike recoveries and relative percent difference are unavailable because of analytical difficulties.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium and strontium are unavailable because of high analyte concentration in the QC sample.

Sample Location: LITTLE ALLIGATOR CREEK @ MIDWAY BLVD Collection Date/Time: 08/15/2022 08:35

Field ID: G3SD0071

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349549	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P418178	
	SM 2320 B-2011	Total Alkalinity	135		mg CaCO3/L	P418392	
	SM 2540 D-2011	TSS	3	IA	mg/L	P418611	
	SM 4500-F- C-2011	Fluoride	0.55		mg F/L	P418404	
2349551	EPA 350.1 Rev. 2.0	Ammonia-N	0.14		mg N/L	P418539	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.92		mg N/L	P418440	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.031		mg N/L	P418378	
	EPA 365.1 Rev. 2.0	Total-P	0.23		mg P/L	P418605	
	SM 5310 B-2011	Organic Carbon	9.9		mg C/L	P418503	
2349581	EPA 8270E	Oxybenzone**	9.4	U	ng/L	P418168	
		Acetochlor	0.24	U	ng/L	P418168	
		Octinoxate**	19	U	ng/L	P418168	
		Alachlor	0.24	U	ng/L	P418168	
		Avobenzone**	94	U	ng/L	P418168	
		Ametryn	0.57	U	ng/L	P418168	
		Atrazine	7.2		ng/L	P418168	
		PBDE-47**	3.8	U	ng/L	P418168	
		Atrazine Desethyl	1.4	U	ng/L	P418168	
		PBDE-99**	4.7	U	ng/L	P418168	
		Azinphos Methyl	1.9	U	ng/L	P418168	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P418168	
		Azoxystrobin	0.63	I	ng/L	P418168	
		Bromacil	5.3		ng/L	P418168	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	11	U	ng/L	P418168	
		Butylate	0.38	U	ng/L	P418168	
		Dechlorane Plus**	28	U	ng/L	P418168	
		Caffeine**	10	I	ng/L	P418168	
		Carbophenothion	0.19	U	ng/L	P418168	
		Carfentrazone Ethyl	0.094	U	ng/L	P418168	
		Chlorfenapyr	0.16	U	ng/L	P418168	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P418168	
		Chlorpyrifos Methyl	0.047	U	ng/L	P418168	
		Coumaphos	0.47	U	ng/L	P418168	
		Cyanazine	3.1	U	ng/L	P418168	
		Cyprodinil	0.094	U	ng/L	P418168	
		Demeton	1.4	U	ng/L	P418168	
		Diazinon	0.12	U	ng/L	P418168	
		Difenoconazole	0.57	U	ng/L	P418168	
		Dimethenamid	0.094	U	ng/L	P418168	
		Dimethomorph	0.16	U	ng/L	P418168	
		Disulfoton	0.47	U	ng/L	P418168	
		Dithiopyr	0.94	V	ng/L	P418168	
		EPTC	1.2	U	ng/L	P418168	

Field ID: G3SD0071

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349581	EPA 8270E	Ethion	0.14	U	ng/L	P418168	MS
		Ethoprop	0.094	U	ng/L	P418168	
		Etridiazole	0.14	U	ng/L	P418168	
		Fenamiphos	0.47	U	ng/L	P418168	
		Fenbuconazole	0.20	I	ng/L	P418168	
		Fipronil	0.36	I	ng/L	P418168	
		Fipronil DesulfinyI**	0.28	I	ng/L	P418168	
		Fipronil Sulfide	0.14	U	ng/L	P418168	
		Fipronil Sulfone	0.44	I	ng/L	P418168	
		Fluazifop-P-butyl	0.094	U	ng/L	P418168	
		Fludioxonil	0.12	U	ng/L	P418168	
		Flumioxazin	1.6	U	ng/L	P418168	
		Flutolanil	0.16	I	ng/L	P418168	
		Fluxapyroxad	0.20	I	ng/L	P418168	
		Fonofos	0.19	U	ng/L	P418168	
		Hexazinone	19		ng/L	P418168	
		Imazalil	0.71	U	ng/L	P418168	
		Iprodione	0.57	U	ng/L	P418168	
		Loratadine**	0.094	U	ng/L	P418168	RPD
		Malathion	0.33	U	ng/L	P418168	
		Metalaxyl	6.2		ng/L	P418168	
		Metolachlor	0.97	I	ng/L	P418168	
		Metribuzin	2.4	U	ng/L	P418168	
		Mevinphos	0.99	U	ng/L	P418168	
		Molinate	0.28	U	ng/L	P418168	
		Myclobutanil	0.24	U	ng/L	P418168	
		Naled	1.4	U	ng/L	P418168	
		Napropamide	0.38	U	ng/L	P418168	
		Norflurazon	12		ng/L	P418168	
		Oxadiazon	0.28	I	ng/L	P418168	
		Oxyfluorfen	0.14	U	ng/L	P418168	
		Parathion Ethyl	0.24	U	ng/L	P418168	
		Parathion Methyl	0.52	U	ng/L	P418168	
		Pendimethalin	0.94	U	ng/L	P418168	
		Phenytain**	3.3	U	ng/L	P418168	MS
		Phorate	0.49	U	ng/L	P418168	
		Prodiamine	0.16	U	ng/L	P418168	
		Prometon	0.85	U	ng/L	P418168	
		Prometryn	0.19	U	ng/L	P418168	
		Pronamide	0.14	U	ng/L	P418168	
		Propanil	0.12	U	ng/L	P418168	
		Propargite	1.4	U	ng/L	P418168	
		Propiconazole	1.8	I	ng/L	P418168	
		Pyraflufen Ethyl	0.24	U	ng/L	P418168	
		Pyridaben	0.42	U	ng/L	P418168	

Field ID: G3SD0071

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349581	EPA 8270E	Pyriproxyfen	0.12	U	ng/L	P418168	
		Simazine	0.47	U	ng/L	P418168	
		Stirophos	0.12	U	ng/L	P418168	
		Sulfentrazone	4.0		ng/L	P418168	
		Tebuconazole	1.6	I	ng/L	P418168	
		Terbufos	0.094	U	ng/L	P418168	
		Terbuthylazine	0.40	U	ng/L	P418168	
		Thiobencarb	0.57	U	ng/L	P418168	
		Triadimefon	0.32	I	ng/L	P418168	
2349587	EPA 200.7 Rev. 4.4	Calcium	158		mg/L	P418291	
		Iron	94	I	ug/L	P418291	
		Magnesium	323		mg/L	P418291	
		Strontium	3.37E+03		ug/L	P418291	
		Tin	9.0	U	ug/L	P418291	
		Titanium	2.9	I	ug/L	P418291	
		Vanadium	6.0	U	ug/L	P418291	
		Zinc	15	U	ug/L	P418291	
	EPA 200.8 Rev. 5.4	Aluminum	50	U	ug/L	P418291	
		Antimony	0.30	I	ug/L	P418291	
		Arsenic	2.7		ug/L	P418291	
		Beryllium	0.040	U	ug/L	P418291	
		Cadmium	0.080	U	ug/L	P418291	
		Chromium	1.6	U	ug/L	P418291	
		Cobalt	0.17	I	ug/L	P418291	
		Copper	1.6	U	ug/L	P418291	
		Lead	0.80	U	ug/L	P418291	
		Manganese	17.8		ug/L	P418291	
		Molybdenum	4.2	I	ug/L	P418291	
		Nickel	2.0	U	ug/L	P418291	
		Selenium	2.0	U	ug/L	P418291	
		Silver	0.040	U	ug/L	P418291	
		Thallium	0.40	U	ug/L	P418291	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 4500-F- C-2011: Batch matrix spike recoveries and relative percent difference are unavailable because of analytical difficulties.

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blank and the sample.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium and strontium are unavailable because of high analyte concentration in the QC sample.

Sample Location: FB

Collection Date/Time: 08/15/2022 08:50

Field ID: FB_08152022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349561	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P418178	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P418787	
	SM 2540 D-2011	TSS	2	U	mg/L	P418608	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P418396	
2349562	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P418418	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P418441	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P418306	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P418364	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P418469	
2349590	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P418215	
		Iron	30	U	ug/L	P418215	
		Magnesium	0.040	U	mg/L	P418215	
		Strontium	2.0	U	ug/L	P418215	
		Tin	3.0	U	ug/L	P418215	
		Titanium	0.75	U	ug/L	P418215	
		Vanadium	2.0	U	ug/L	P418215	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P418215	
		Aluminum	5.0	U	ug/L	P418215	
		Antimony	0.050	U	ug/L	P418215	
		Arsenic	0.050	U	ug/L	P418215	
		Beryllium	0.010	U	ug/L	P418215	
		Cadmium	0.020	U	ug/L	P418215	
		Chromium	0.40	U	ug/L	P418215	
		Cobalt	0.020	U	ug/L	P418215	
		Copper	0.40	U	ug/L	P418215	
		Lead	0.20	U	ug/L	P418215	
		Manganese	0.10	U	ug/L	P418215	
		Molybdenum	0.15	U	ug/L	P418215	
		Nickel	0.50	U	ug/L	P418215	
		Selenium	0.20	U	ug/L	P418215	
		Silver	0.010	U	ug/L	P418215	
		Thallium	0.10	U	ug/L	P418215	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Apollo Waterway EBranch

Collection Date/Time: 08/15/2022 09:30

Field ID: G3SD0208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349553	EPA 180.1 Rev. 2.0	Turbidity	4.1		NTU	P418178	
	SM 2320 B-2011	Total Alkalinity	220		mg CaCO3/L	P418787	
	SM 2540 D-2011	TSS	8	I	mg/L	P418607	
	SM 4500-F- C-2011	Fluoride	0.41		mg F/L	P418396	
2349554	EPA 350.1 Rev. 2.0	Ammonia-N	0.033		mg N/L	P418566	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.83		mg N/L	P418447	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.018		mg N/L	P418305	
	EPA 365.1 Rev. 2.0	Total-P	0.20		mg P/L	P418260	
	SM 5310 B-2011	Organic Carbon	9.5		mg C/L	P418469	
2349583	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P418168	
		Acetochlor	0.24	U	ng/L	P418168	
		Octinoxate**	19	U	ng/L	P418168	
		Alachlor	0.24	U	ng/L	P418168	
		Avobenzone**	96	U	ng/L	P418168	
		Ametryn	0.57	U	ng/L	P418168	
		Atrazine	15		ng/L	P418168	
		PBDE-47**	3.8	U	ng/L	P418168	
		Atrazine Desethyl	3.7	I	ng/L	P418168	
		PBDE-99**	4.8	U	ng/L	P418168	
		Azinphos Methyl	1.9	U	ng/L	P418168	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P418168	
		Azoxystrobin	0.48	U	ng/L	P418168	
		Bromacil	0.48	U	ng/L	P418168	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	11	U	ng/L	P418168	
		Butylate	0.38	U	ng/L	P418168	
		Dechlorane Plus**	29	U	ng/L	P418168	
		Caffeine**	7.2	U	ng/L	P418168	
		Carbophenothion	0.19	U	ng/L	P418168	
		Carfentrazone Ethyl	0.096	U	ng/L	P418168	
		Chlorfenapyr	0.17	U	ng/L	P418168	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P418168	
		Chlorpyrifos Methyl	0.048	U	ng/L	P418168	
		Coumaphos	0.48	U	ng/L	P418168	
		Cyanazine	3.1	U	ng/L	P418168	
		Cyprodinil	0.096	U	ng/L	P418168	
		Demeton	1.4	U	ng/L	P418168	
		Diazinon	0.12	U	ng/L	P418168	
		Difenoconazole	0.57	U	ng/L	P418168	
		Dimethenamid	0.096	U	ng/L	P418168	
		Dimethomorph	0.17	U	ng/L	P418168	
		Disulfoton	0.48	U	ng/L	P418168	
		Dithiopyr	0.64	IV	ng/L	P418168	
		EPTC	1.2	U	ng/L	P418168	

Field ID: G3SD0208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349583	EPA 8270E	Ethion	0.14	U	ng/L	P418168	MS
		Ethoprop	0.096	U	ng/L	P418168	
		Etridiazole	0.14	U	ng/L	P418168	
		Fenamiphos	0.48	U	ng/L	P418168	
		Fenbuconazole	0.12	U	ng/L	P418168	
		Fipronil	0.24	U	ng/L	P418168	
		Fipronil Desulfinyl**	0.32	I	ng/L	P418168	
		Fipronil Sulfide	0.14	U	ng/L	P418168	
		Fipronil Sulfone	0.55	I	ng/L	P418168	
		Fluazifop-P-butyl	0.096	U	ng/L	P418168	
		Fludioxonil	0.12	U	ng/L	P418168	
		Flumioxazin	1.7	U	ng/L	P418168	
		Flutolanil	0.12	I	ng/L	P418168	
		Fluxapyroxad	0.78		ng/L	P418168	
		Fonofos	0.19	U	ng/L	P418168	
		Hexazinone	2.4		ng/L	P418168	
		Imazalil	0.72	U	ng/L	P418168	
		Iprodione	0.57	U	ng/L	P418168	
		Loratadine**	0.096	U	ng/L	P418168	
		Malathion	0.33	U	ng/L	P418168	
		Metalaxyl	0.72	U	ng/L	P418168	
		Metolachlor	1.7		ng/L	P418168	
		Metribuzin	2.4	U	ng/L	P418168	
		Mevinphos	1.0	U	ng/L	P418168	
		Molinate	0.29	U	ng/L	P418168	
		Myclobutanil	0.24	U	ng/L	P418168	
		Naled	1.4	U	ng/L	P418168	RPD
		Napropamide	0.38	U	ng/L	P418168	
		Norflurazon	0.62	I	ng/L	P418168	
		Oxadiazon	0.45	I	ng/L	P418168	
		Oxyfluorfen	0.14	U	ng/L	P418168	
		Parathion Ethyl	0.24	U	ng/L	P418168	
		Parathion Methyl	0.53	U	ng/L	P418168	
		Pendimethalin	0.96	U	ng/L	P418168	
		Phenytion**	3.3	U	ng/L	P418168	
		Phorate	0.50	U	ng/L	P418168	MS
		Prodiamine	0.17	U	ng/L	P418168	
		Prometon	0.86	U	ng/L	P418168	
		Prometryn	0.19	U	ng/L	P418168	
		Pronamide	0.14	U	ng/L	P418168	
		Propanil	0.12	U	ng/L	P418168	
		Propargite	1.4	U	ng/L	P418168	
		Propiconazole	0.94	I	ng/L	P418168	
		Pyraflufen Ethyl	0.24	U	ng/L	P418168	
		Pyridaben	0.43	U	ng/L	P418168	

Field ID: G3SD0208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349583	EPA 8270E	Pyriproxyfen	0.12	U	ng/L	P418168	
		Simazine	4.7		ng/L	P418168	
		Stirophos	0.12	U	ng/L	P418168	
		Sulfentrazone	3.9		ng/L	P418168	
		Tebuconazole	2.1		ng/L	P418168	
		Terbufos	0.096	U	ng/L	P418168	
		Terbuthylazine	0.41	U	ng/L	P418168	
		Thiobencarb	0.57	U	ng/L	P418168	
		Triadimefon	0.24	U	ng/L	P418168	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blank and the sample.

Sample Location: Apollo Waterway WBranch

Collection Date/Time: 08/15/2022 09:55

Field ID: G3SD0195

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349559	EPA 180.1 Rev. 2.0	Turbidity	3.5		NTU	P418178	
	SM 2320 B-2011	Total Alkalinity	155		mg CaCO3/L	P418787	
	SM 2540 D-2011	TSS	4	I	mg/L	P418608	
	SM 4500-F- C-2011	Fluoride	0.35		mg F/L	P418396	
2349560	EPA 350.1 Rev. 2.0	Ammonia-N	0.023		mg N/L	P418566	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.88		mg N/L	P418447	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	I	mg N/L	P418306	
	EPA 365.1 Rev. 2.0	Total-P	0.27		mg P/L	P418670	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P418469	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: ROCK CREEK @ EISENHOWER DR

Collection Date/Time: 08/15/2022 10:15

Field ID: G3SD0070

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349550	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P418178	
	SM 2320 B-2011	Total Alkalinity	106		mg CaCO3/L	P418787	
	SM 2540 D-2011	TSS	4	I	mg/L	P418607	
	SM 4500-F- C-2011	Fluoride	0.32		mg F/L	P418396	
2349552	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P418566	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P418442	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	I	mg N/L	P418305	
	EPA 365.1 Rev. 2.0	Total-P	0.29		mg P/L	P418260	
	SM 5310 B-2011	Organic Carbon	21		mg C/L	P418469	
2349582	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P418168	
		Acetochlor	0.24	U	ng/L	P418168	
		Octinoxate**	19	U	ng/L	P418168	
		Alachlor	0.37	I	ng/L	P418168	
		Avobenzone**	96	U	ng/L	P418168	
		Ametryn	2.1	I	ng/L	P418168	
		Atrazine	81		ng/L	P418168	
		PBDE-47**	3.8	U	ng/L	P418168	
		Atrazine Desethyl	4.8	I	ng/L	P418168	
		PBDE-99**	4.8	U	ng/L	P418168	
		Azinphos Methyl	1.9	U	ng/L	P418168	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P418168	
		Azoxystrobin	0.74	I	ng/L	P418168	
		Bromacil	1.2	I	ng/L	P418168	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	11	U	ng/L	P418168	
		Butylate	0.38	U	ng/L	P418168	
		Dechlorane Plus**	29	U	ng/L	P418168	
		Caffeine**	7.2	U	ng/L	P418168	
		Carbophenothion	0.19	U	ng/L	P418168	
		Carfentrazone Ethyl	0.096	U	ng/L	P418168	
		Chlorfenapyr	0.17	U	ng/L	P418168	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P418168	
		Chlorpyrifos Methyl	0.048	U	ng/L	P418168	
		Coumaphos	0.48	U	ng/L	P418168	
		Cyanazine	3.1	U	ng/L	P418168	
		Cyprodinil	0.096	U	ng/L	P418168	
		Demeton	1.4	U	ng/L	P418168	
		Diazinon	0.12	U	ng/L	P418168	
		Difenoconazole	0.57	U	ng/L	P418168	
		Dimethenamid	0.096	U	ng/L	P418168	
		Dimethomorph	0.17	U	ng/L	P418168	
		Disulfoton	0.48	U	ng/L	P418168	
		Dithiopyr	0.73	V	ng/L	P418168	
		EPTC	1.2	U	ng/L	P418168	

Field ID: G3SD0070

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349582	EPA 8270E	Ethion	0.14	U	ng/L	P418168	MS
		Ethoprop	0.096	U	ng/L	P418168	
		Etridiazole	0.14	U	ng/L	P418168	
		Fenamiphos	0.48	U	ng/L	P418168	
		Fenbuconazole	0.12	U	ng/L	P418168	
		Fipronil	0.27	I	ng/L	P418168	
		Fipronil DesulfinyI**	0.45	I	ng/L	P418168	
		Fipronil Sulfide	0.17	I	ng/L	P418168	
		Fipronil Sulfone	0.59		ng/L	P418168	
		Fluazifop-P-butyl	0.096	U	ng/L	P418168	
		Fludioxonil	0.12	U	ng/L	P418168	
		Flumioxazin	1.7	U	ng/L	P418168	
		Flutolanil	0.44		ng/L	P418168	
		Fluxapyroxad	2.8		ng/L	P418168	
		Fonofos	0.19	U	ng/L	P418168	
		Hexazinone	2.9		ng/L	P418168	
		Imazalil	0.72	U	ng/L	P418168	RPD
		Iprodione	0.57	U	ng/L	P418168	
		Loratadine**	0.096	U	ng/L	P418168	
		Malathion	0.33	U	ng/L	P418168	
		Metalaxyl	0.94	I	ng/L	P418168	
		Metolachlor	5.6		ng/L	P418168	
		Metribuzin	2.4	U	ng/L	P418168	
		Mevinphos	1.0	U	ng/L	P418168	
		Molinate	0.29	U	ng/L	P418168	
		Myclobutanil	0.24	U	ng/L	P418168	
		Naled	1.4	U	ng/L	P418168	
		Napropamide	0.38	U	ng/L	P418168	
		Norflurazon	1.8	I	ng/L	P418168	
		Oxadiazon	1.1	I	ng/L	P418168	
		Oxyfluorfen	0.14	U	ng/L	P418168	
		Parathion Ethyl	0.24	U	ng/L	P418168	
		Parathion Methyl	0.53	U	ng/L	P418168	
		Pendimethalin	0.96	U	ng/L	P418168	
		Phenytain**	3.3	U	ng/L	P418168	MS
		Phorate	0.50	U	ng/L	P418168	
		Prodiamine	0.17	U	ng/L	P418168	
		Prometon	0.86	U	ng/L	P418168	
		Prometryn	0.19	U	ng/L	P418168	
		Pronamide	0.14	U	ng/L	P418168	
		Propanil	0.12	U	ng/L	P418168	
		Propargite	1.4	U	ng/L	P418168	
		Propiconazole	0.48	U	ng/L	P418168	
		Pyraflufen Ethyl	0.24	U	ng/L	P418168	
		Pyridaben	0.43	U	ng/L	P418168	

Field ID: G3SD0070

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349582	EPA 8270E	Pyriproxyfen	0.12	U	ng/L	P418168	
		Simazine	21		ng/L	P418168	
		Stirophos	0.12	U	ng/L	P418168	
		Sulfentrazone	5.1		ng/L	P418168	
		Tebuconazole	0.57	I	ng/L	P418168	
		Terbufos	0.096	U	ng/L	P418168	
		Terbuthylazine	0.41	U	ng/L	P418168	
		Thiobencarb	0.57	U	ng/L	P418168	
		Triadimefon	0.24	U	ng/L	P418168	
2349588	EPA 200.7 Rev. 4.4	Calcium	78.6		mg/L	P418215	
		Iron	350		ug/L	P418215	
		Magnesium	74.8		mg/L	P418215	
		Strontium	2.38E+03		ug/L	P418215	
		Tin	3.0	U	ug/L	P418215	
		Titanium	1.7	I	ug/L	P418215	
		Vanadium	2.0	U	ug/L	P418215	
		Zinc	5.0	U	ug/L	P418215	
	EPA 200.8 Rev. 5.4	Aluminum	69		ug/L	P418215	
		Antimony	0.19	I	ug/L	P418215	
		Arsenic	2.49		ug/L	P418215	
		Beryllium	0.016	I	ug/L	P418215	
		Cadmium	0.020	U	ug/L	P418215	
		Chromium	0.45	I	ug/L	P418215	
		Cobalt	0.098		ug/L	P418215	
		Copper	0.94		ug/L	P418215	
		Lead	0.20	U	ug/L	P418215	
		Manganese	18.3		ug/L	P418215	
		Molybdenum	1.77		ug/L	P418215	
		Nickel	0.51	I	ug/L	P418215	
		Selenium	0.27	I	ug/L	P418215	
		Silver	0.010	U	ug/L	P418215	
		Thallium	0.10	U	ug/L	P418215	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blank and the sample.

Sample Location: MYAKKA RIVER (TIDAL) @ US 41

Collection Date/Time: 08/15/2022 10:50

Field ID: G3SD0068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349555	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P418178	
	SM 2320 B-2011	Total Alkalinity	92		mg CaCO3/L	P418787	
	SM 2540 D-2011	TSS	4	I	mg/L	P418607	
	SM 4500-F- C-2011	Fluoride	0.27		mg F/L	P418396	
2349556	EPA 350.1 Rev. 2.0	Ammonia-N	0.033		mg N/L	P418566	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P418442	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.029		mg N/L	P418306	
	EPA 365.1 Rev. 2.0	Total-P	0.21		mg P/L	P418364	
	SM 5310 B-2011	Organic Carbon	21		mg C/L	P418469	
2349584	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P418168	
		Acetochlor	0.24	U	ng/L	P418168	
		Octinoxate**	19	U	ng/L	P418168	
		Alachlor	0.24	U	ng/L	P418168	
		Avobenzone**	96	U	ng/L	P418168	
		Ametryn	0.70	I	ng/L	P418168	
		Atrazine	38		ng/L	P418168	
		PBDE-47**	3.8	U	ng/L	P418168	
		Atrazine Desethyl	3.5	I	ng/L	P418168	
		PBDE-99**	4.8	U	ng/L	P418168	
		Azinphos Methyl	1.9	U	ng/L	P418168	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P418168	
		Azoxystrobin	0.89	I	ng/L	P418168	
		Bromacil	0.48	U	ng/L	P418168	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	11	U	ng/L	P418168	
		Butylate	0.38	U	ng/L	P418168	
		Dechlorane Plus**	29	U	ng/L	P418168	
		Caffeine**	7.6	I	ng/L	P418168	
		Carbophenothion	0.19	U	ng/L	P418168	
		Carfentrazone Ethyl	0.096	U	ng/L	P418168	
		Chlorfenapyr	0.17	U	ng/L	P418168	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P418168	
		Chlorpyrifos Methyl	0.048	U	ng/L	P418168	
		Coumaphos	0.48	U	ng/L	P418168	
		Cyanazine	3.1	U	ng/L	P418168	
		Cyprodinil	0.096	U	ng/L	P418168	
		Demeton	1.4	U	ng/L	P418168	
		Diazinon	0.12	U	ng/L	P418168	
		Difenoconazole	0.57	U	ng/L	P418168	
		Dimethenamid	0.096	U	ng/L	P418168	
		Dimethomorph	0.17	U	ng/L	P418168	
		Disulfoton	0.48	U	ng/L	P418168	
		Dithiopyr	0.89	V	ng/L	P418168	
		EPTC	1.2	U	ng/L	P418168	

Field ID: G3SD0068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349584	EPA 8270E	Ethion	0.14	U	ng/L	P418168	MS
		Ethoprop	0.096	U	ng/L	P418168	
		Etridiazole	0.14	U	ng/L	P418168	
		Fenamiphos	0.48	U	ng/L	P418168	
		Fenbuconazole	0.12	U	ng/L	P418168	
		Fipronil	0.24	U	ng/L	P418168	
		Fipronil Desulfinyl**	0.43	I	ng/L	P418168	
		Fipronil Sulfide	0.14	U	ng/L	P418168	
		Fipronil Sulfone	0.51	I	ng/L	P418168	
		Fluazifop-P-butyl	0.096	U	ng/L	P418168	
		Fludioxonil	0.12	U	ng/L	P418168	
		Flumioxazin	1.7	U	ng/L	P418168	
		Flutolanil	0.73		ng/L	P418168	
		Fluxapyroxad	3.9		ng/L	P418168	
		Fonofos	0.19	U	ng/L	P418168	
		Hexazinone	1.3	I	ng/L	P418168	RPD
		Imazalil	0.72	U	ng/L	P418168	
		Iprodione	0.57	U	ng/L	P418168	
		Loratadine**	0.096	U	ng/L	P418168	
		Malathion	0.33	U	ng/L	P418168	
		Metalaxyl	0.72	U	ng/L	P418168	
		Metolachlor	2.1		ng/L	P418168	
		Metribuzin	2.4	U	ng/L	P418168	
		Mevinphos	1.0	U	ng/L	P418168	
		Molinate	0.29	U	ng/L	P418168	
		Myclobutanil	0.24	U	ng/L	P418168	
		Naled	1.4	U	ng/L	P418168	
		Napropamide	0.38	U	ng/L	P418168	
		Norflurazon	0.74	I	ng/L	P418168	
		Oxadiazon	2.8		ng/L	P418168	
		Oxyfluorfen	0.14	U	ng/L	P418168	
		Parathion Ethyl	0.24	U	ng/L	P418168	
		Parathion Methyl	0.53	U	ng/L	P418168	
		Pendimethalin	0.96	U	ng/L	P418168	
		Phenytion**	3.3	U	ng/L	P418168	MS
		Phorate	0.50	U	ng/L	P418168	
		Prodiamine	0.17	U	ng/L	P418168	
		Prometon	0.86	U	ng/L	P418168	
		Prometryn	0.19	U	ng/L	P418168	
		Pronamide	0.17	I	ng/L	P418168	
		Propanil	0.12	U	ng/L	P418168	
		Propargite	1.4	U	ng/L	P418168	
		Propiconazole	0.48	U	ng/L	P418168	
		Pyraflufen Ethyl	0.24	U	ng/L	P418168	
		Pyridaben	0.43	U	ng/L	P418168	

Field ID: G3SD0068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349584	EPA 8270E	Pyriproxyfen	0.12	U	ng/L	P418168	
		Simazine	12		ng/L	P418168	
		Stirophos	0.12	U	ng/L	P418168	
		Sulfentrazone	7.1		ng/L	P418168	
		Tebuconazole	0.48	U	ng/L	P418168	
		Terbufos	0.096	U	ng/L	P418168	
		Terbuthylazine	0.41	U	ng/L	P418168	
		Thiobencarb	0.57	U	ng/L	P418168	
		Triadimefon	0.24	U	ng/L	P418168	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blank and the sample.

Sample Location: Alligator Creek @ Jacaranda

Collection Date/Time: 08/15/2022 11:20

Field ID: G2SD0026

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349585	EPA 8270E	Aldrin	0.69	U	ng/L	P418424	
		Alpha-BHC	0.11	U	ng/L	P418424	
		Alpha-Chlordane	0.21	U	ng/L	P418424	
		PCB-1016	2.1	U	ng/L	P418424	
		Beta-BHC	0.11	U	ng/L	P418424	
		PCB-1221	2.1	U	ng/L	P418424	
		Beta-Cyfluthrin	1.3	U	ng/L	P418424	
		PCB-1232	2.1	U	ng/L	P418424	
		Bifenthrin	0.53	U	ng/L	P418424	
		PCB-1242	2.1	U	ng/L	P418424	
		Carbophenothion	0.96	U	ng/L	P418424	
		PCB-1248	2.1	U	ng/L	P418424	
		Chlorothalonil	1.3	U	ng/L	P418424	
		PCB-1254	2.1	U	ng/L	P418424	
		Cis-Nonachlor	0.21	U	ng/L	P418424	
		PCB-1260	2.1	U	ng/L	P418424	
		Cypermethrin	1.6	U	ng/L	P418424	
		Dacthal	0.16	U	ng/L	P418424	
		DDD-p,p'	0.27	U	ng/L	P418424	
		DDE-p,p'	0.21	U	ng/L	P418424	
		DDT-p,p'	0.27	U	ng/L	P418424	
		Delta-BHC	0.43	U	ng/L	P418424	
		Deltamethrin	1.3	U	ng/L	P418424	
		Dichlobenil	0.27	U	ng/L	P418424	
		Dicofol	1.3	U	ng/L	P418424	
		Dieldrin	0.43	U	ng/L	P418424	
		Endosulfan I	0.43	U	ng/L	P418424	
		Endosulfan II	0.43	U	ng/L	P418424	
		Endosulfan Sulfate	0.32	U	ng/L	P418424	
		Endrin	0.43	U	ng/L	P418424	
		Endrin Aldehyde	0.80	U	ng/L	P418424	
		Endrin Ketone	0.43	UJ	ng/L	P418424	MS
		Esfenvalerate	0.80	U	ng/L	P418424	
		Ethalfuralin	0.16	U	ng/L	P418424	
		Fenpropathrin	0.27	U	ng/L	P418424	
		Gamma-BHC	0.13	U	ng/L	P418424	
		Gamma-Chlordane	0.21	U	ng/L	P418424	
		Heptachlor	0.21	U	ng/L	P418424	
		Heptachlor Epoxide	0.27	U	ng/L	P418424	
		Hexachlorobenzene**	1.1	U	ng/L	P418424	
		Kepone	5.3	UJ	ng/L	P418424	CCV
		Lambda-Cyhalothrin	0.80	U	ng/L	P418424	
		Methoprene	0.80	U	ng/L	P418424	
		Methoxychlor	0.32	UJ	ng/L	P418424	CCV

Field ID: G2SD0026

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349585	EPA 8270E	MGK-264	0.21	U	ng/L	P418424	
		Mirex	0.37	U	ng/L	P418424	
		Oxychlordane	0.32	U	ng/L	P418424	
		Permethrin	1.7	U	ng/L	P418424	
		Phenothrin	0.96	U	ng/L	P418424	
		Piperonyl Butoxide	0.18	I	ng/L	P418424	
		Prallethrin	2.1	U	ng/L	P418424	
		Tau-Fluvalinate	0.27	U	ng/L	P418424	
		Tetramethrin	0.80	UJ	ng/L	P418424	CCV
		Trans-Nonachlor	0.21	U	ng/L	P418424	
		Triclosan Methyl	0.16	U	ng/L	P418424	
		Trifluralin	0.21	U	ng/L	P418424	
		Chlordane	2.7	U	ng/L	P418424	MS
		Toxaphene	16	U	ng/L	P418424	MS
2349586	EPA 8321B	2,4-D	0.14		ug/L	P418169	
		Acesulfame K	0.10	U	ug/L	P418000	
		2,4,5-T	0.0040	U	ug/L	P418169	
		AMPA	0.41		ug/L	P418000	
		Acetaminophen	0.0080	U	ug/L	P418169	
		Acetamiprid	0.0020	U	ug/L	P418169	
		Endothall	0.25	U	ug/L	P418000	
		Glufosinate	0.10	U	ug/L	P418000	
		Glyphosate	0.65		ug/L	P418000	
		Afidopyropen	0.0020	U	ug/L	P418169	MS
		Bentazon	0.032		ug/L	P418169	
		Sucralose	0.37		ug/L	P418000	
		Benzovindiflupyr	0.0020	U	ug/L	P418169	
		Carbamazepine	0.0018	I	ug/L	P418169	
		Clothianidin	0.0087		ug/L	P418169	
		Dinotefuran	0.0020	U	ug/L	P418169	
		Diuron	0.0026	I	ug/L	P418169	
		Fenuron	0.032	U	ug/L	P418169	
		Fluridone	0.015		ug/L	P418169	
		Imazapyr	0.52		ug/L	P418169	
		Hydrocodone	0.0020	U	ug/L	P418169	MS
		Ibuprofen	0.080	U	ug/L	P418169	
		Imidacloprid	0.058		ug/L	P418169	
		Linuron	0.0040	U	ug/L	P418169	
		Mandestrobin	0.0020	U	ug/L	P418169	
		MCP	0.0040	U	ug/L	P418169	
		Naproxen	0.0080	U	ug/L	P418169	
		Primidone	0.0040	U	ug/L	P418169	
		Pyraclostrobin	0.0020	U	ug/L	P418169	
		Silvex	0.0040	U	ug/L	P418169	
		Thiamethoxam	0.0023	I	ug/L	P418169	

Field ID: G2SD0026

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2349586	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P418169	
		Triclopyr	0.0040	U	ug/L	P418169	

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418178

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418215

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418291

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418215

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Beryllium	0.010	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418291

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418291

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Beryllium	0.010	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418418

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418489

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418539

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418566

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418440

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418441

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418442

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418446

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418447

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418305

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418306

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418378

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418260

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418364

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418605

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

Batch ID: P418670

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

Reference Method: EPA 8270E

Batch ID: P418168

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418168

Component	Result	Code	Units
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	0.61	I	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	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	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418168

Component	Result	Code	Units
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
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
Prodiamine	0.18	U	ng/L
Prodiamine	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
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418168

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

Reference Method: EPA 8270E

Batch ID: P418424

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
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
 Batch ID: P418424

Component	Result	Code	Units
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418424

Component	Result	Code	Units
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P418424

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P418000

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: P418169

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
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	0.0040	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: P418392

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

Reference Method: SM 2320 B-2011

Batch ID: P418787

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P418607

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P418608

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P418611

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P418396

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P418404

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P418469

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

Reference Method: SM 5310 B-2011
Batch ID: P418503

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418178

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	94.9		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418215

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	93.0		P	80 - 120
Iron	96.7		P	80 - 120
Magnesium	95.9		P	80 - 120
Strontium	98.3		P	80 - 120
Tin	96.0		P	80 - 120
Titanium	97.5		P	80 - 120
Vanadium	96.8		P	80 - 120
Zinc	96.5		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418291

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	98.5		P	85 - 115
Iron	106		P	85 - 115
Magnesium	101		P	85 - 115
Strontium	105		P	85 - 115
Tin	103		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418215

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	106		P	85 - 115
Arsenic	103		P	85 - 115
Beryllium	97.0		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	103		P	85 - 115
Cobalt	101		P	85 - 115
Copper	99.4		P	85 - 115
Lead	97.1		P	85 - 115
Manganese	104		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	101		P	85 - 115
Selenium	103		P	85 - 115
Silver	102		P	85 - 115
Thallium	98.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418291

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418291

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	96.5		P	85 - 115
Antimony	98.7		P	85 - 115
Arsenic	97.7		P	85 - 115
Beryllium	88.6		P	85 - 115
Cadmium	94.3		P	85 - 115
Chromium	93.7		P	85 - 115
Cobalt	96.4		P	85 - 115
Copper	93.5		P	85 - 115
Lead	92.1		P	85 - 115
Manganese	96.8		P	85 - 115
Molybdenum	94.7		P	85 - 115
Nickel	96.5		P	85 - 115
Selenium	96.6		P	85 - 115
Silver	95.1		P	85 - 115
Thallium	95.8		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418418

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418489

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418539

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418566

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418440

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418441

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418442

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418446

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.7		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418447

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418305

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	96.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418306

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	96.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418378

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418260

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: P418364

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418605

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P418670

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

Reference Method: EPA 8270E

Batch ID: P418168

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.1		P	50 - 150
Acetochlor	90.4		P	70 - 121
Alachlor	82.5		P	68 - 119
Ametryn	93.7		P	64 - 139
Atrazine	90.5		P	76 - 120
Atrazine Desethyl	63.5		P	44 - 126
Avobenzone	88.9		P	76 - 212
Azinphos Methyl	98.1		P	43 - 192
Azoxystrobin	97.1		P	36 - 224
Bromacil	79.4		P	52 - 121
Butylate	37.2		P	28 - 91.0
Caffeine	83.4		P	50 - 134
Carbophenothion	81.2		P	56 - 129
Carfentrazone Ethyl	89.9		P	60 - 141
Chlorfenapyr	85.8		P	56 - 115
Chlorpyrifos Ethyl	88.8		P	60 - 118
Chlorpyrifos Methyl	92.7		P	68 - 119
Coumaphos	87.5		P	18 - 250
Cyanazine	82.6		P	61 - 250
Cyprodinil	85.1		P	55 - 145
Dechlorane Plus	112		P	50 - 150
Demeton	69.5		P	30 - 159
Diazinon	84.5		P	70 - 123
Difenoconazole	102		P	49 - 204
Dimethenamid	70.5		P	64 - 115
Dimethomorph	83.7		P	12 - 219
Disulfoton	81.9		P	44 - 125
Dithiopyr	92.5		P	64 - 115
EPTC	33.9		P	28 - 86.0
Ethion	91.8		P	33 - 125
Ethoprop	72.6		P	64 - 116
Etridiazole	38.7		P	34 - 91.0
Fenamiphos	86.6		P	12 - 127
Fenbuconazole	89.1		P	59 - 151
Fipronil	86.5		P	67 - 129
Fipronil Desulfinyl	94.5		P	65 - 127
Fipronil Sulfide	81.5		P	61 - 116
Fipronil Sulfone	76.8		P	55 - 117
Fluazifop-P-butyl	90.9		P	62 - 127
Fludioxonil	81.1		P	62 - 128
Flumioxazin	106		P	33 - 250
Flutolanil	86.7		P	56 - 127
Fluxapyroxad	80.1		P	45 - 128
Fonofos	79.1		P	62 - 111
Hexazinone	84.4		P	46 - 139
Imazalil	77.3		P	38 - 142

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418168

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iprodione	85.2		P	47 - 135
Loratadine	80.4		P	10 - 244
Malathion	98.1		P	61 - 139
Metalaxyl	83.8		P	10 - 119
Metolachlor	81.4		P	65 - 118
Metribuzin	96.3		P	51 - 250
Mevinphos	64.0		P	53 - 121
Molinate	48.9		P	42 - 96.0
Myclobutanil	87.2		P	55 - 128
Naled	75.7		P	10 - 98.0
Napropamide	76.7		P	49 - 121
Norflurazon	77.8		P	61 - 126
Octinoxate	91.3		P	30 - 159
Oxadiazon	71.7		P	59 - 116
Oxybenzone	82.7		P	61 - 139
Oxyfluorfen	98.7		P	64 - 137
Parathion Ethyl	90.6		P	70 - 112
Parathion Methyl	98.7		P	76 - 133
PBDE-47	91.9		P	50 - 150
PBDE-99	95.6		P	50 - 150
Pendimethalin	94.0		P	52 - 117
Phenytoin	49.2		P	10 - 199
Phorate	68.0		P	48 - 121
Prodiamine	42.3		P	26 - 142
Prometon	75.0		P	43 - 123
Prometryn	81.6		P	66 - 127
Pronamide	93.2		P	75 - 121
Propanil	83.7		P	45 - 150
Propargite	76.4		P	42 - 208
Propiconazole	77.6		P	60 - 125
Pyraflufen Ethyl	77.9		P	70 - 138
Pyridaben	91.4		P	35 - 245
Pyriproxyfen	81.9		P	30 - 149
Simazine	84.2		P	72 - 125
Stirophos	80.2		P	29 - 164
Sulfentrazone	70.8		P	21 - 139
Tebuconazole	65.7		P	10 - 115
Terbufos	93.7		P	60 - 123
Terbuthylazine	85.6		P	72 - 115
Thiobencarb	80.6		P	31 - 139
Tri-o-cresyl Phosphate	91.8		P	50 - 150
Triadimefon	85.3		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P418424

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	58.9		P	10 - 92.0
Alpha-BHC	96.0		P	75 - 107
Alpha-Chlordane	76.0		P	50 - 108
Beta-BHC	95.3		P	36 - 138
Beta-Cyfluthrin	68.0		P	20 - 161

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P418424

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bifenthrin	71.6		P	10 - 119
Carbophenothion	53.9		P	19 - 94.0
Chlorothalonil	51.1		P	26 - 186
Cis-Nonachlor	74.2		P	42 - 119
Cypermethrin	70.1		P	22 - 150
Dacthal	86.3		P	72 - 119
DDD-p,p'	73.0		P	45 - 107
DDE-p,p'	72.8		P	48 - 106
DDT-p,p'	81.9		P	48 - 110
Delta-BHC	103		P	54 - 140
Deltamethrin	79.3		P	22 - 189
Dichlobenil	91.8		P	36 - 117
Dicofol	86.7		P	46 - 155
Dieldrin	76.9		P	54 - 110
Endosulfan I	78.2		P	59 - 105
Endosulfan II	70.7		P	51 - 118
Endosulfan Sulfate	79.6		P	57 - 121
Endrin	76.0		P	10 - 120
Endrin Aldehyde	69.2		P	34 - 118
Endrin Ketone	80.4		P	69 - 177
Esfenvalerate	67.0		P	23 - 168
Ethalfuralin	81.4		P	49 - 99.0
Fenpropathrin	73.6		P	34 - 117
Gamma-BHC	102		P	72 - 117
Gamma-Chlordane	73.4		P	43 - 106
Heptachlor	71.6		P	41 - 98.0
Heptachlor Epoxide	78.7		P	57 - 106
Hexachlorobenzene	81.1		P	36 - 99.0
Kepone	109		P	16 - 215
Lambda-Cyhalothrin	58.2		P	21 - 177
Methoprene	56.2		P	10 - 119
Methoxychlor	102		P	60 - 112
MGK-264	76.6		P	26 - 122
Mirex	59.8		P	10 - 169
Oxychlordane	80.0		P	43 - 105
PCB-1016	74.0		P	46 - 111
PCB-1260	78.6		P	45 - 114
Permethrin	68.8		P	24 - 148
Phenothrin	52.8		P	10 - 106
Piperonyl Butoxide	90.5		P	10 - 139
Prallethrin	74.1		P	17 - 109
Tau-Fluvalinate	56.9		P	13 - 131
Tetramethrin	130		P	10 - 132
Trans-Nonachlor	78.9		P	44 - 106
Triclosan Methyl	78.5		P	59 - 109
Trifluralin	80.2		P	44 - 101

Reference Method: EPA 8276

Batch ID: P418424

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	69.4		P	61 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P418424

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Toxaphene	80.5		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P418000

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	104		P	40 - 150
AMPA	108		P	40 - 150
Endothall	112		P	40 - 150
Glufosinate	125		P	40 - 150
Glyphosate	111		P	40 - 150
Sucralose	109		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P418169

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	112		P	40 - 150
2,4,5-T	94.3		P	40 - 150
Acetaminophen	93.8		P	30 - 150
Acetamiprid	105		P	40 - 150
Afidopyropen	89.4		P	30 - 150
Bentazon	106		P	30 - 150
Benzovindiflupyr	96.9		P	40 - 150
Carbamazepine	82.2		P	40 - 150
Clothianidin	101		P	40 - 150
Dinotefuran	104		P	40 - 150
Diuron	98.3		P	40 - 150
Fenuron	115		P	40 - 150
Fluridone	104		P	40 - 150
Hydrocodone	120		P	40 - 150
Ibuprofen	96.9		P	40 - 150
Imazapyr	112		P	40 - 150
Imidacloprid	91.4		P	40 - 150
Linuron	105		P	40 - 150
Mandestrobin	113		P	40 - 150
MCPP	119		P	40 - 150
Naproxen	144		P	40 - 150
Primidone	83.6		P	40 - 150
Pyraclostrobin	97.8		P	40 - 150
Silvex	107		P	40 - 150
Thiamethoxam	114		P	40 - 150
Tolfenpyrad	85.3		P	30 - 150
Triclopyr	81.1		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P418392

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.9		P	94 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P418787

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

Reference Method: SM 4500-F- C-2011
Batch ID: P418396

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.2		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P418404

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

Reference Method: SM 5310 B-2011
Batch ID: P418469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.8		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P418503

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P418215

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349420	Calcium	98.8		P	80 - 120
2349420	Iron	104	104	P/P	80 - 120
2349420	Magnesium	104	103	P/P	80 - 120
2349420	Strontium	103	106	P/P	80 - 120
2349420	Tin	100	103	P/P	80 - 120
2349420	Titanium	101	105	P/P	80 - 120
2349420	Vanadium	102	104	P/P	80 - 120
2349420	Zinc	101	102	P/P	80 - 120
2349422	Calcium	97.7		P	80 - 120
2349422	Iron	101		P	80 - 120
2349422	Magnesium	97.8		P	80 - 120
2349422	Strontium	102		P	80 - 120
2349422	Tin	98.9		P	80 - 120
2349422	Titanium	100		P	80 - 120
2349422	Vanadium	102		P	80 - 120
2349422	Zinc	98.5		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P418291

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349589	Iron	112	112	P/P	70 - 130
2349589	Tin	104	98.7	P/P	70 - 130
2349589	Titanium	103	118	P/P	70 - 130
2349589	Vanadium	112	111	P/P	70 - 130
2349589	Zinc	109	105	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418215

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349420	Aluminum	111	113	P/P	80 - 120
2349420	Antimony	107	105	P/P	80 - 120
2349420	Arsenic	103	102	P/P	80 - 120
2349420	Beryllium	98.6	96.8	P/P	80 - 120
2349420	Cadmium	102	99.7	P/P	80 - 120
2349420	Chromium	106	104	P/P	80 - 120
2349420	Cobalt	100	98.6	P/P	80 - 120
2349420	Copper	98.7	97.0	P/P	80 - 120
2349420	Lead	98.9	97.7	P/P	80 - 120
2349420	Manganese	117	109	P/P	80 - 120
2349420	Molybdenum	102	102	P/P	80 - 120
2349420	Nickel	101	98.9	P/P	80 - 120
2349420	Selenium	99.3	96.4	P/P	80 - 120
2349420	Silver	102	99.8	P/P	80 - 120
2349420	Thallium	102	102	P/P	80 - 120
2349422	Aluminum	104		P	80 - 120
2349422	Antimony	106		P	80 - 120
2349422	Arsenic	102		P	80 - 120
2349422	Beryllium	95.3		P	80 - 120
2349422	Cadmium	103		P	80 - 120
2349422	Chromium	104		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418215

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349422	Cobalt	99.5		P	80 - 120
2349422	Copper	94.6		P	80 - 120
2349422	Lead	96.9		P	80 - 120
2349422	Manganese	102		P	80 - 120
2349422	Molybdenum	102		P	80 - 120
2349422	Nickel	99.2		P	80 - 120
2349422	Selenium	99.6		P	80 - 120
2349422	Silver	102		P	80 - 120
2349422	Thallium	99.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418291

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349589	Aluminum	115	116	P/P	70 - 130
2349589	Antimony	109	103	P/P	70 - 130
2349589	Arsenic	112	109	P/P	70 - 130
2349589	Beryllium	114	112	P/P	70 - 130
2349589	Cadmium	100	96.9	P/P	70 - 130
2349589	Chromium	105	106	P/P	70 - 130
2349589	Cobalt	114	108	P/P	70 - 130
2349589	Copper	121	112	P/P	70 - 130
2349589	Lead	101	95.8	P/P	70 - 130
2349589	Manganese	98.8	91.0	P/P	70 - 130
2349589	Molybdenum	110	104	P/P	70 - 130
2349589	Nickel	129	107	P/P	70 - 130
2349589	Selenium	107	108	P/P	70 - 130
2349589	Silver	93.2	88.7	P/P	70 - 130
2349589	Thallium	104	102	P/P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P418418

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349601	Ammonia-N	105	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P418489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349786	Ammonia-N	106	107	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P418539

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2350387	Ammonia-N	98.4	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P418566

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418566

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349405	Ammonia-N	98.8	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418440

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348218	Kjeldahl Nitrogen	102	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418441

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348737	Kjeldahl Nitrogen	100	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418442

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349546	Kjeldahl Nitrogen	105	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418446

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348028	Kjeldahl Nitrogen	103	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418305

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349448	NO2NO3-N	97.4	94.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418306

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349560	NO2NO3-N	93.8	93.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418378

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348766	NO2NO3-N	95.5	95.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418260

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349405	Total-P	102	104	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P418364

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346347	Total-P	108	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P418605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349551	Total-P	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P418670

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2350245	Total-P	104	104	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P418168

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348187	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	121	126	P/P	50 - 150
2348187	Acetochlor	82.3	101	P/P	65 - 124
2348187	Alachlor	70.4	89.7	P/P	61 - 121
2348187	Ametryn	67.9	66.2	P/P	52 - 216
2348187	Atrazine Desethyl	53.6	57.8	P/P	15 - 160
2348187	Avobenzone	95.6	99.9	P/P	59 - 206
2348187	Azinphos Methyl	87.3	96.3	P/P	40 - 292
2348187	Azoxystrobin	93.8	116	P/P	12 - 242
2348187	Bromacil	80.8	86.6	P/P	54 - 167
2348187	Butylate	29.6	30.2	P/P	14 - 94.0
2348187	Caffeine	98.5	98.3	P/P	10 - 226
2348187	Carbophenothion	71.5	76.5	P/P	49 - 122
2348187	Carfentrazone Ethyl	77.3	82.9	P/P	53 - 138
2348187	Chlorfenapyr	67.8	74.3	P/P	50 - 150
2348187	Chlorpyrifos Ethyl	98.0	99.4	P/P	52 - 122
2348187	Chlorpyrifos Methyl	84.0	96.0	P/P	66 - 117
2348187	Coumaphos	75.2	84.6	P/P	50 - 220
2348187	Cyanazine	78.4	82.3	P/P	43 - 245
2348187	Cyprodinil	76.2	85.9	P/P	50 - 150
2348187	Dechlorane Plus	139	133	P/P	50 - 150
2348187	Demeton	72.9	83.4	P/P	43 - 188
2348187	Diazinon	77.4	92.3	P/P	69 - 131
2348187	Difenoconazole	97.8	115	P/P	34 - 231
2348187	Dimethenamid	68.9	81.6	P/P	55 - 118
2348187	Dimethomorph	96.2	106	P/P	50 - 150
2348187	Disulfoton	78.6	91.3	P/P	38 - 141
2348187	Dithiopyr	61.3	73.6	P/P	42 - 116
2348187	EPTC	28.7	24.8	P/P	18 - 85.0
2348187	Ethion	73.6	70.4	P/P	10 - 131
2348187	Ethoprop	79.1	91.2	P/P	65 - 129
2348187	Etridiazole	37.5	37.5	F/F	50 - 150
2348187	Fenamiphos	70.7	72.2	P/P	31 - 137
2348187	Fenbuconazole	74.7	83.0	P/P	57 - 160
2348187	Fipronil	74.9	92.7	P/P	62 - 132

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P418168

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348187	Fipronil Desulfinyl	94.7	105	P/P	57 - 131
2348187	Fipronil Sulfide	76.5	94.1	P/P	15 - 138
2348187	Fluazifop-P-butyl	78.0	86.9	P/P	54 - 133
2348187	Fludioxonil	72.2	89.5	P/P	58 - 127
2348187	Flumioxazin	98.0	125	P/P	33 - 300
2348187	Flutolanil	51.2	63.1	P/P	42 - 130
2348187	Fluxapyroxad	72.0	83.5	P/P	23 - 141
2348187	Fonofos	81.9	85.8	P/P	58 - 119
2348187	Hexazinone	90.0	100	P/P	68 - 172
2348187	Imazalil	80.4	77.0	P/P	48 - 283
2348187	Iprodione	70.8	80.1	P/P	38 - 140
2348187	Loratadine	91.6	102	P/P	50 - 150
2348187	Malathion	91.5	103	P/P	40 - 137
2348187	Metalaxyl	74.4	82.4	P/P	21 - 129
2348187	Metolachlor	76.3	92.7	P/P	55 - 122
2348187	Metribuzin	93.8	117	P/P	38 - 187
2348187	Mevinphos	67.7	74.7	P/P	54 - 134
2348187	Molinate	49.0	52.1	P/P	41 - 97.0
2348187	Myclobutanil	92.4	114	P/P	56 - 125
2348187	Naled	73.9	105	P/P	10 - 108
2348187	Napropamide	63.3	73.8	P/P	50 - 150
2348187	Norflurazon	65.1	78.1	P/P	32 - 122
2348187	Octinoxate	103	110	P/P	25 - 150
2348187	Oxybenzone	107	106	P/P	59 - 147
2348187	Oxyfluorfen	90.1	106	P/P	61 - 153
2348187	Parathion Ethyl	87.9	101	P/P	59 - 130
2348187	Parathion Methyl	96.2	115	P/P	65 - 155
2348187	PBDE-47	108	114	P/P	50 - 150
2348187	PBDE-99	106	111	P/P	50 - 150
2348187	Pendimethalin	100	114	P/P	49 - 138
2348187	Phenytoin	36.8	45.7	F/F	50 - 200
2348187	Phorate	68.4	78.3	P/P	54 - 161
2348187	Prodiamine	48.8	53.2	P/P	33 - 161
2348187	Prometon	74.7	72.5	P/P	48 - 140
2348187	Prometryn	73.1	77.4	P/P	55 - 134
2348187	Pronamide	77.9	91.8	P/P	66 - 137
2348187	Propanil	68.8	86.9	P/P	50 - 150
2348187	Propargite	52.5	59.7	P/P	50 - 200
2348187	Propiconazole	74.6	95.0	P/P	36 - 150
2348187	Pyraflufen Ethyl	64.9	72.8	P/P	50 - 150
2348187	Pyridaben	101	96.8	P/P	50 - 200
2348187	Pyriproxyfen	61.4	76.5	P/P	10 - 165
2348187	Stirophos	61.7	64.9	P/P	50 - 150
2348187	Sulfentrazone	84.1	113	P/P	34 - 140
2348187	Tebuconazole	49.6	54.6	P/P	10 - 127
2348187	Terbufos	98.3	113	P/P	59 - 138
2348187	Terbutylazine	82.6	95.1	P/P	68 - 119
2348187	Thiobencarb	67.9	79.3	P/P	50 - 150
2348187	Tri-o-cresyl Phosphate	96.2	101	P/P	50 - 150
2348187	Triadimefon	67.3	77.9	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418424

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349585	Aldrin	52.2	56.1	P/P	20 - 82.0
2349585	Alpha-BHC	91.3	93.7	P/P	71 - 109
2349585	Alpha-Chlordane	53.0	54.3	P/P	42 - 106
2349585	Beta-BHC	82.7	87.5	P/P	69 - 180
2349585	Beta-Cyfluthrin	59.1	57.1	P/P	18 - 175
2349585	Bifenthrin	93.5	92.6	P/P	21 - 128
2349585	Carbophenothion	51.1	49.5	P/P	10 - 126
2349585	Chlorothalonil	47.6	50.7	P/P	10 - 300
2349585	Cis-Nonachlor	50.0	49.7	P/P	34 - 106
2349585	Cypermethrin	60.8	56.8	P/P	22 - 158
2349585	Dacthal	65.2	65.7	P/P	54 - 116
2349585	DDD-p,p'	48.7	49.1	P/P	34 - 107
2349585	DDE-p,p'	50.8	49.1	P/P	33 - 110
2349585	DDT-p,p'	67.5	66.4	P/P	50 - 122
2349585	Delta-BHC	93.0	98.3	P/P	77 - 193
2349585	Deltamethrin	75.4	71.3	P/P	10 - 195
2349585	Dichlobenil	72.8	66.6	P/P	25 - 113
2349585	Dicofol	103	83.6	P/P	38 - 247
2349585	Dieldrin	59.8	59.0	P/P	45 - 118
2349585	Endosulfan I	61.9	62.0	P/P	51 - 106
2349585	Endosulfan II	49.3	49.8	P/P	37 - 122
2349585	Endosulfan Sulfate	53.5	53.0	P/P	43 - 132
2349585	Endrin	54.5	55.7	P/P	29 - 101
2349585	Endrin Aldehyde	41.0	45.4	P/P	19 - 110
2349585	Endrin Ketone	57.3	57.2	F/F	60 - 140
2349585	Esfenvalerate	68.6	65.2	P/P	26 - 199
2349585	Ethalfuralin	72.6	70.9	P/P	45 - 99.0
2349585	Fenpropathrin	59.2	59.1	P/P	35 - 120
2349585	Gamma-BHC	66.5	78.5	P/P	63 - 128
2349585	Gamma-Chlordane	57.7	57.1	P/P	40 - 104
2349585	Heptachlor	66.4	63.0	P/P	36 - 97.0
2349585	Heptachlor Epoxide	65.1	64.3	P/P	49 - 184
2349585	Hexachlorobenzene	64.4	70.1	P/P	39 - 96.0
2349585	Kepone	81.2	71.9	P/P	10 - 217
2349585	Lambda-Cyhalothrin	66.8	72.7	P/P	21 - 193
2349585	Methoprene	54.7	57.3	P/P	20 - 106
2349585	Methoxychlor	75.7	74.7	P/P	53 - 118
2349585	MGK-264	65.4	63.1	P/P	40 - 118
2349585	Mirex	44.9	45.2	P/P	26 - 92.0
2349585	Oxychlordane	69.3	70.7	P/P	44 - 99.0
2349585	Permethrin	63.2	61.7	P/P	33 - 182
2349585	Phenothrin	55.0	53.3	P/P	10 - 129
2349585	Piperonyl Butoxide	70.3	69.3	P/P	10 - 211
2349585	Prallethrin	64.5	66.3	P/P	24 - 113
2349585	Tau-Fluvalinate	64.0	61.7	P/P	14 - 149
2349585	Tetramethrin	134	132	P/P	17 - 151
2349585	Trans-Nonachlor	60.9	56.2	P/P	42 - 102
2349585	Triclosan Methyl	56.5	55.5	P/P	48 - 108
2349585	Trifluralin	67.6	67.5	P/P	47 - 96.0
2349648	PCB-1016	56.6	64.0	P/P	46 - 111
2349648	PCB-1260	53.3	58.8	P/P	45 - 114

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276

Batch ID: P418424

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349648	Chlordane	50.3	49.0	F/F	53 - 126
2349648	Toxaphene	55.8	60.2	F/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P418000

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348451	Acesulfame K	91.9	91.1	P/P	40 - 150
2348451	AMPA	105	104	P/P	40 - 150
2348451	Endothall	107	106	P/P	40 - 150
2348451	Glufosinate	106	111	P/P	40 - 150
2348451	Glyphosate	101	99.6	P/P	40 - 150
2348451	Sucralose	99.1	103	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P418169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2348670	2,4-D	103	76.1	P/P	40 - 150
2348670	2,4,5-T	101	77.8	P/P	40 - 150
2348670	Acetaminophen	110	99.8	P/P	30 - 150
2348670	Acetamiprid	77.5	77.8	P/P	40 - 150
2348670	Afidopyropen	24.4	28.2	F/F	30 - 150
2348670	Bentazon	108	91.8	P/P	30 - 150
2348670	Benzovindiflupyr	102	103	P/P	40 - 150
2348670	Carbamazepine	81.8	101	P/P	40 - 150
2348670	Clothianidin	92.0	83.0	P/P	40 - 150
2348670	Dinotefuran	130	116	P/P	40 - 150
2348670	Diuron	108	101	P/P	40 - 150
2348670	Fenuron	119	108	P/P	40 - 150
2348670	Fluridone	90.4	77.2	P/P	40 - 150
2348670	Hydrocodone	39.9	38.7	F/F	40 - 150
2348670	Ibuprofen	64.9	73.0	P/P	40 - 150
2348670	Imazapyr	136	109	P/P	40 - 150
2348670	Imidacloprid	81.2	75.9	P/P	40 - 150
2348670	Linuron	99.9	98.2	P/P	40 - 150
2348670	Mandestrobin	117	94.7	P/P	40 - 150
2348670	MCPP	86.5	81.8	P/P	40 - 150
2348670	Naproxen	68.7	83.2	P/P	40 - 150
2348670	Primidone	64.3	57.7	P/P	40 - 150
2348670	Pyraclostrobin	110	99.6	P/P	40 - 150
2348670	Silvex	85.8	76.0	P/P	40 - 150
2348670	Thiamethoxam	128	97.6	P/P	40 - 150
2348670	Tolfenpyrad	67.8	69.1	P/P	30 - 150
2348670	Triclopyr	89.6	72.3	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P418396

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349447	Fluoride	100	100	P/P	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P418469

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349405	Organic Carbon	98.6	95.5	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P418503

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349551	Organic Carbon	94.2	94.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P418178

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349399	Turbidity	7.38	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P418215

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349420	Calcium	0.204	Spike	P	0 - 20
2349420	Iron	0.176	Spike	P	0 - 20
2349420	Magnesium	0.811	Spike	P	0 - 20
2349420	Strontium	2.13	Spike	P	0 - 20
2349420	Tin	2.26	Spike	P	0 - 20
2349420	Titanium	3.42	Spike	P	0 - 20
2349420	Vanadium	1.95	Spike	P	0 - 20
2349420	Zinc	1.36	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P418291

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349589	Calcium	0.494	Spike	P	0 - 20
2349589	Iron	0.0897	Spike	P	0 - 20
2349589	Magnesium	0.445	Spike	P	0 - 20
2349589	Strontium	0.381	Spike	P	0 - 20
2349589	Tin	4.50	Spike	P	0 - 20
2349589	Titanium	12.1	Spike	P	0 - 20
2349589	Vanadium	0.755	Spike	P	0 - 20
2349589	Zinc	4.26	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418215

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349420	Aluminum	1.57	Spike	P	0 - 20
2349420	Antimony	2.43	Spike	P	0 - 20
2349420	Arsenic	1.29	Spike	P	0 - 20
2349420	Beryllium	1.80	Spike	P	0 - 20
2349420	Cadmium	2.14	Spike	P	0 - 20
2349420	Chromium	2.48	Spike	P	0 - 20
2349420	Cobalt	1.82	Spike	P	0 - 20
2349420	Copper	1.67	Spike	P	0 - 20
2349420	Lead	1.26	Spike	P	0 - 20
2349420	Manganese	2.43	Spike	P	0 - 20
2349420	Molybdenum	0.552	Spike	P	0 - 20
2349420	Nickel	2.20	Spike	P	0 - 20
2349420	Selenium	2.98	Spike	P	0 - 20
2349420	Silver	1.84	Spike	P	0 - 20
2349420	Thallium	0.0532	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349589	Aluminum	0.225	Spike	P	0 - 20
2349589	Antimony	6.06	Spike	P	0 - 20
2349589	Arsenic	2.83	Spike	P	0 - 20
2349589	Beryllium	1.33	Spike	P	0 - 20
2349589	Cadmium	3.38	Spike	P	0 - 20
2349589	Chromium	1.05	Spike	P	0 - 20
2349589	Cobalt	5.51	Spike	P	0 - 20
2349589	Copper	7.76	Spike	P	0 - 20
2349589	Lead	5.66	Spike	P	0 - 20
2349589	Manganese	6.19	Spike	P	0 - 20
2349589	Molybdenum	4.25	Spike	P	0 - 20
2349589	Nickel	19.1	Spike	P	0 - 20
2349589	Selenium	1.02	Spike	P	0 - 20
2349589	Silver	4.89	Spike	P	0 - 20
2349589	Thallium	2.63	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P418418

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349601	Ammonia-N	1.15	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P418489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349786	Ammonia-N	0.235	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P418539

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350387	Ammonia-N	3.12	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P418566

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349405	Ammonia-N	1.35	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P418440

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348218	Kjeldahl Nitrogen	0.740	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418441

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348737	Kjeldahl Nitrogen	1.82	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418442

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349546	Kjeldahl Nitrogen	3.28	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418446

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348028	Kjeldahl Nitrogen	2.70	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418447

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349674	Kjeldahl Nitrogen	2.03	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418305

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349448	NO2NO3-N	2.39	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349560	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418378

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348766	NO2NO3-N	0.501	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418260

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349405	Total-P	2.07	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P418364

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346347	Total-P	1.03	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P418605

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349551	Total-P	0.610	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P418670

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350245	Total-P	0.557	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P418168

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348187	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	4.62	Spike	P	0 - 30
2348187	Acetochlor	20.4	Spike	P	0 - 27
2348187	Alachlor	24.1	Spike	P	0 - 27
2348187	Ametryn	1.12	Spike	P	0 - 34
2348187	Atrazine	3.06	Spike	P	0 - 41
2348187	Atrazine Desethyl	3.60	Spike	P	0 - 38
2348187	Avobenzone	4.40	Spike	P	0 - 30
2348187	Azinphos Methyl	9.80	Spike	P	0 - 62
2348187	Azoxystrobin	14.7	Spike	P	0 - 32
2348187	Bromacil	6.94	Spike	P	0 - 30
2348187	Butylate	2.07	Spike	P	0 - 59
2348187	Caffeine	0.242	Spike	P	0 - 60
2348187	Carbophenothion	6.85	Spike	P	0 - 25
2348187	Carfentrazone Ethyl	6.96	Spike	P	0 - 26
2348187	Chlorfenapyr	9.15	Spike	P	0 - 30
2348187	Chlorpyrifos Ethyl	1.42	Spike	P	0 - 27
2348187	Chlorpyrifos Methyl	13.4	Spike	P	0 - 26
2348187	Coumaphos	11.8	Spike	P	0 - 30
2348187	Cyanazine	4.83	Spike	P	0 - 58
2348187	Cyprodinil	12.0	Spike	P	0 - 30
2348187	Dechlorane Plus	4.39	Spike	P	0 - 30
2348187	Demeton	13.5	Spike	P	0 - 25
2348187	Diazinon	17.5	Spike	P	0 - 29
2348187	Difenoconazole	16.3	Spike	P	0 - 25
2348187	Dimethenamid	16.9	Spike	P	0 - 30
2348187	Dimethomorph	9.90	Spike	P	0 - 30
2348187	Disulfoton	14.9	Spike	P	0 - 33
2348187	Dithiopyr	13.7	Spike	P	0 - 22
2348187	EPTC	14.4	Spike	P	0 - 38
2348187	Ethion	4.40	Spike	P	0 - 79

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P418168

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348187	Ethoprop	14.2	Spike	P	0 - 23
2348187	Etridiazole	0.0601	Spike	P	0 - 30
2348187	Fenamiphos	2.10	Spike	P	0 - 58
2348187	Fenbuconazole	10.5	Spike	P	0 - 37
2348187	Fipronil	19.3	Spike	P	0 - 33
2348187	Fipronil Desulfinyl	6.80	Spike	P	0 - 26
2348187	Fipronil Sulfide	13.4	Spike	P	0 - 37
2348187	Fipronil Sulfone	11.4	Spike	P	0 - 50
2348187	Fluazifop-P-butyl	10.8	Spike	P	0 - 24
2348187	Fludioxonil	21.4	Spike	P	0 - 26
2348187	Flumioxazin	24.4	Spike	P	0 - 37
2348187	Flutolanil	16.3	Spike	P	0 - 26
2348187	Fluxapyroxad	10.6	Spike	P	0 - 34
2348187	Fonofos	4.66	Spike	P	0 - 27
2348187	Hexazinone	10.9	Spike	P	0 - 36
2348187	Imazalil	4.33	Spike	P	0 - 65
2348187	Iprodione	12.3	Spike	P	0 - 33
2348187	Loratadine	10.4	Spike	P	0 - 30
2348187	Malathion	12.1	Spike	P	0 - 44
2348187	Metalaxyl	10.2	Spike	P	0 - 38
2348187	Metolachlor	12.9	Spike	P	0 - 36
2348187	Metribuzin	22.0	Spike	P	0 - 63
2348187	Mevinphos	9.87	Spike	P	0 - 26
2348187	Molinate	6.03	Spike	P	0 - 40
2348187	Myclobutanil	11.1	Spike	P	0 - 21
2348187	Naled	34.4	Spike	F	0 - 26
2348187	Napropamide	15.3	Spike	P	0 - 30
2348187	Norflurazon	18.1	Spike	P	0 - 24
2348187	Octinoxate	6.95	Spike	P	0 - 30
2348187	Oxadiazon	6.63	Spike	P	0 - 27
2348187	Oxybenzone	1.29	Spike	P	0 - 30
2348187	Oxyfluorfen	16.5	Spike	P	0 - 24
2348187	Parathion Ethyl	13.9	Spike	P	0 - 28
2348187	Parathion Methyl	17.8	Spike	P	0 - 27
2348187	PBDE-47	5.50	Spike	P	0 - 30
2348187	PBDE-99	5.21	Spike	P	0 - 30
2348187	Pendimethalin	13.0	Spike	P	0 - 31
2348187	Phenytoin	21.5	Spike	P	0 - 30
2348187	Phorate	13.5	Spike	P	0 - 27
2348187	Prodiamine	8.63	Spike	P	0 - 52
2348187	Prometon	3.00	Spike	P	0 - 31
2348187	Prometryn	5.77	Spike	P	0 - 28
2348187	Pronamide	16.3	Spike	P	0 - 26
2348187	Propanil	23.2	Spike	P	0 - 30
2348187	Propargite	12.9	Spike	P	0 - 30
2348187	Propiconazole	15.2	Spike	P	0 - 31
2348187	Pyraflufen Ethyl	11.5	Spike	P	0 - 30
2348187	Pyridaben	4.00	Spike	P	0 - 30
2348187	Pyriproxyfen	21.8	Spike	P	0 - 50
2348187	Simazine	0.368	Spike	P	0 - 29
2348187	Stirophos	5.16	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P418168

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348187	Sulfentrazone	15.6	Spike	P	0 - 33
2348187	Tebuconazole	8.02	Spike	P	0 - 44
2348187	Terbufos	14.1	Spike	P	0 - 29
2348187	Terbutylazine	14.0	Spike	P	0 - 27
2348187	Thiobencarb	15.5	Spike	P	0 - 30
2348187	Tri-o-cresyl Phosphate	4.42	Spike	P	0 - 30
2348187	Triadimefon	14.6	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P418424

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349585	Aldrin	7.23	Spike	P	0 - 41
2349585	Alpha-BHC	2.62	Spike	P	0 - 25
2349585	Alpha-Chlordane	2.38	Spike	P	0 - 33
2349585	Beta-BHC	5.60	Spike	P	0 - 36
2349585	Beta-Cyfluthrin	3.56	Spike	P	0 - 42
2349585	Bifenthrin	1.01	Spike	P	0 - 53
2349585	Carbophenothion	3.16	Spike	P	0 - 49
2349585	Chlorothalonil	6.38	Spike	P	0 - 71
2349585	Cis-Nonachlor	0.486	Spike	P	0 - 29
2349585	Cypermethrin	6.72	Spike	P	0 - 40
2349585	Dacthal	0.771	Spike	P	0 - 26
2349585	DDD-p,p'	0.777	Spike	P	0 - 39
2349585	DDE-p,p'	3.41	Spike	P	0 - 33
2349585	DDT-p,p'	1.64	Spike	P	0 - 40
2349585	Delta-BHC	5.55	Spike	P	0 - 37
2349585	Deltamethrin	5.56	Spike	P	0 - 100
2349585	Dichlobenil	8.84	Spike	P	0 - 40
2349585	Dicofol	20.9	Spike	P	0 - 31
2349585	Dieldrin	1.41	Spike	P	0 - 27
2349585	Endosulfan I	0.220	Spike	P	0 - 23
2349585	Endosulfan II	1.07	Spike	P	0 - 28
2349585	Endosulfan Sulfate	1.12	Spike	P	0 - 38
2349585	Endrin	2.19	Spike	P	0 - 63
2349585	Endrin Aldehyde	10.1	Spike	P	0 - 60
2349585	Endrin Ketone	0.277	Spike	P	0 - 37
2349585	Esfenvalerate	5.21	Spike	P	0 - 52
2349585	Ethalfuralin	2.34	Spike	P	0 - 23
2349585	Fenpropathrin	0.129	Spike	P	0 - 32
2349585	Gamma-BHC	16.6	Spike	P	0 - 17
2349585	Gamma-Chlordane	1.02	Spike	P	0 - 40
2349585	Heptachlor	5.30	Spike	P	0 - 29
2349585	Heptachlor Epoxide	1.27	Spike	P	0 - 25
2349585	Hexachlorobenzene	8.49	Spike	P	0 - 36
2349585	Kepone	12.3	Spike	P	0 - 93
2349585	Lambda-Cyhalothrin	8.57	Spike	P	0 - 55
2349585	Methoprene	4.52	Spike	P	0 - 53
2349585	Methoxychlor	1.31	Spike	P	0 - 29
2349585	MGK-264	3.59	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P418424

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349585	Mirex	0.692	Spike	P	0 - 46
2349585	Oxychlordane	2.07	Spike	P	0 - 29
2349585	Permethrin	2.31	Spike	P	0 - 44
2349585	Phenothrin	3.19	Spike	P	0 - 56
2349585	Piperonyl Butoxide	1.35	Spike	P	0 - 100
2349585	Prallethrin	2.73	Spike	P	0 - 42
2349585	Tau-Fluvalinate	3.63	Spike	P	0 - 54
2349585	Tetramethrin	1.08	Spike	P	0 - 51
2349585	Trans-Nonachlor	7.94	Spike	P	0 - 37
2349585	Triclosan Methyl	1.83	Spike	P	0 - 31
2349585	Trifluralin	0.116	Spike	P	0 - 30
2349648	PCB-1016	12.2	Spike	P	0 - 32
2349648	PCB-1260	9.93	Spike	P	0 - 31

Reference Method: EPA 8276
Batch ID: P418424

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349648	Chlordane	2.67	Spike	P	0 - 25
2349648	Toxaphene	7.66	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P418000

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348451	Acesulfame K	0.887	Spike	P	0 - 30
2348451	AMPA	1.08	Spike	P	0 - 30
2348451	Endothall	1.04	Spike	P	0 - 30
2348451	Glufosinate	3.93	Spike	P	0 - 30
2348451	Glyphosate	1.19	Spike	P	0 - 30
2348451	Sucralose	4.24	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P418169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348670	2,4-D	29.2	Spike	P	0 - 30
2348670	2,4,5-T	26.2	Spike	P	0 - 30
2348670	Acetaminophen	10.2	Spike	P	0 - 30
2348670	Acetamiprid	0.394	Spike	P	0 - 30
2348670	Afidopyropen	14.5	Spike	P	0 - 30
2348670	Bentazon	16.6	Spike	P	0 - 30
2348670	Benzovindiflupyr	1.22	Spike	P	0 - 30
2348670	Carbamazepine	21.4	Spike	P	0 - 30
2348670	Clothianidin	10.3	Spike	P	0 - 30
2348670	Dinotefuran	11.0	Spike	P	0 - 30
2348670	Diuron	6.71	Spike	P	0 - 30
2348670	Fenuron	9.60	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P418169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2348670	Fluridone	15.7	Spike	P	0 - 30
2348670	Hydrocodone	3.17	Spike	P	0 - 30
2348670	Ibuprofen	11.7	Spike	P	0 - 30
2348670	Imazapyr	14.5	Spike	P	0 - 30
2348670	Imidacloprid	6.73	Spike	P	0 - 30
2348670	Linuron	1.69	Spike	P	0 - 30
2348670	Mandestrobin	20.8	Spike	P	0 - 30
2348670	MCCP	5.57	Spike	P	0 - 30
2348670	Naproxen	19.0	Spike	P	0 - 30
2348670	Primidone	10.8	Spike	P	0 - 30
2348670	Pyraclostrobin	9.59	Spike	P	0 - 30
2348670	Silvex	12.2	Spike	P	0 - 30
2348670	Thiamethoxam	27.1	Spike	P	0 - 30
2348670	Tolfenpyrad	1.91	Spike	P	0 - 30
2348670	Triclopyr	21.3	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P418392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349557	Total Alkalinity	0.0308	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011

Batch ID: P418787

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349468	Total Alkalinity	0.0351	Sample	P	0 - 3.8

Reference Method: SM 4500-F- C-2011

Batch ID: P418396

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349447	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011

Batch ID: P418469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349405	Organic Carbon	2.56	Spike	P	0 - 20

Reference Method: SM 5310 B-2011

Batch ID: P418503

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349551	Organic Carbon	0.0840	Spike	P	0 - 20

Quality Assurance Report Precision

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

Quality Assurance Report Surrogates

Lab Sample ID: 2349581
Field Sample ID: G3SD0071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	65.3	P	20 - 200
EPA 8270E	Simazine-d10	91.9	P	71 - 140
EPA 8270E	Terbufos-d10	86.9	P	62 - 131
EPA 8270E	Terphenyl-d14	61.7	P	52 - 141

Lab Sample ID: 2349582
Field Sample ID: G3SD0070

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	58.8	P	20 - 200
EPA 8270E	Simazine-d10	93.7	P	71 - 140
EPA 8270E	Terbufos-d10	77.4	P	62 - 131
EPA 8270E	Terphenyl-d14	64.1	P	52 - 141

Lab Sample ID: 2349583
Field Sample ID: G3SD0208

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	65.1	P	20 - 200
EPA 8270E	Simazine-d10	106	P	71 - 140
EPA 8270E	Terbufos-d10	90.0	P	62 - 131
EPA 8270E	Terphenyl-d14	83.0	P	52 - 141

Lab Sample ID: 2349584
Field Sample ID: G3SD0068

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	58.8	P	20 - 200
EPA 8270E	Simazine-d10	96.6	P	71 - 140
EPA 8270E	Terbufos-d10	83.4	P	62 - 131
EPA 8270E	Terphenyl-d14	75.9	P	52 - 141

Lab Sample ID: 2349585
Field Sample ID: G2SD0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	45.8	P	29 - 130
EPA 8270E	Decachlorobiphenyl	30.0	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	38.6	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	37.7	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	42.3	P	30 - 101
EPA 8276	PCNB	58.2	P	48 - 121

Lab Sample ID: 2349586
Field Sample ID: G2SD0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	87.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	93.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	113	P	30 - 160
EPA 8321B	Diuron-d6	108	P	30 - 160
EPA 8321B	Endothall-d6	148	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2349586
Field Sample ID: G2SD0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	54.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.8	P	30 - 160
EPA 8321B	Primidone-d5	44.1	P	30 - 160
EPA 8321B	Sucralose-d6	50.0	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114130

Included Lab Sample IDs: 2349549, 2349550, 2349553, 2349555, 2349557, 2349559, 2349561

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

Reference Method: EPA 8321B

Run ID: A114141

Included Lab Sample IDs: 2349586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	89.9	87.8	P/P	60 - 160
Sucralose	98.2	99.2	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A114174

Included Lab Sample IDs: 2349586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	117	121	P/P	60 - 160
Endothall	123	123	P/P	60 - 160
Glufosinate	129	129	P/P	60 - 160
Glyphosate	118	119	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114184

Included Lab Sample IDs: 2349552, 2349554, 2349556, 2349560, 2349562

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.5	95.5	P/P	90 - 110
NO2NO3-N	97.5	96.5	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114199

Included Lab Sample IDs: 2349587, 2349589

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114200

Included Lab Sample IDs: 2349587, 2349589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	96.6	101	P/P	90 - 110
Antimony	100	99.4	P/P	90 - 110
Arsenic	103	105	P/P	90 - 110
Beryllium	94.6	96.5	P/P	90 - 110
Beryllium	96.5	95.9	P/P	90 - 110
Cadmium	102	101	P/P	90 - 110
Cobalt	104	107	P/P	90 - 110
Copper	103	107	P/P	90 - 110
Lead	94.3	94.6	P/P	90 - 110
Manganese	104	104	P/P	90 - 110
Molybdenum	96.3	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114200

Included Lab Sample IDs: 2349587, 2349589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Nickel	105	107	P/P	90 - 110
Selenium	101	102	P/P	90 - 110
Silver	99.3	98.9	P/P	90 - 110
Thallium	104	104	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114202

Included Lab Sample IDs: 2349587, 2349589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	104	P/P	90 - 110
Iron	102	102	P/P	90 - 110
Magnesium	100	102	P/P	90 - 110
Strontium	101	102	P/P	90 - 110
Tin	103	104	P/P	90 - 110
Vanadium	102	102	P/P	90 - 110
Zinc	104	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114209

Included Lab Sample IDs: 2349551, 2349558

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	98.5	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A114212

Included Lab Sample IDs: 2349549, 2349557

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	97.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A114212

Included Lab Sample IDs: 2349549, 2349550, 2349553, 2349555, 2349557, 2349559, 2349561

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114221

Included Lab Sample IDs: 2349562

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	107	106	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114222

Included Lab Sample IDs: 2349552, 2349554

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.4	98.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114224

Included Lab Sample IDs: 2349587, 2349589

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	94.7	96.5	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114229

Included Lab Sample IDs: 2349588, 2349590

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.0	101	P/P	90 - 110
Aluminum	97.8	97.0	P/P	90 - 110
Antimony	100	101	P/P	90 - 110
Antimony	99.7	100	P/P	90 - 110
Arsenic	101	102	P/P	90 - 110
Arsenic	104	101	P/P	90 - 110
Beryllium	95.9	96.2	P/P	90 - 110
Beryllium	96.2	95.8	P/P	90 - 110
Cadmium	102	103	P/P	90 - 110
Cadmium	103	103	P/P	90 - 110
Chromium	101	102	P/P	90 - 110
Chromium	101	101	P/P	90 - 110
Cobalt	101	98.4	P/P	90 - 110
Cobalt	98.4	99.0	P/P	90 - 110
Copper	95.6	98.4	P/P	90 - 110
Copper	99.6	95.6	P/P	90 - 110
Lead	93.8	93.9	P/P	90 - 110
Lead	93.9	93.7	P/P	90 - 110
Manganese	101	102	P/P	90 - 110
Manganese	102	103	P/P	90 - 110
Molybdenum	97.5	98.3	P/P	90 - 110
Molybdenum	98.4	97.5	P/P	90 - 110
Nickel	98.0	98.0	P/P	90 - 110
Nickel	99.9	98.0	P/P	90 - 110
Selenium	103	102	P/P	90 - 110
Selenium	104	103	P/P	90 - 110
Silver	98.4	98.8	P/P	90 - 110
Silver	98.8	98.4	P/P	90 - 110
Thallium	101	102	P/P	90 - 110
Thallium	102	102	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A114244

Included Lab Sample IDs: 2349552, 2349554, 2349556, 2349558, 2349560, 2349562

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114252

Included Lab Sample IDs: 2349558

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.0	97.2	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A114255

Included Lab Sample IDs: 2349551

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	95.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114269

Included Lab Sample IDs: 2349588, 2349590

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	96.9	96.0	P/P	90 - 110
Calcium	97.1	95.6	P/P	90 - 110
Iron	98.1	96.0	P/P	90 - 110
Iron	99.2	95.3	P/P	90 - 110
Magnesium	97.4	95.5	P/P	90 - 110
Magnesium	98.3	95.1	P/P	90 - 110
Strontium	97.6	98.3	P/P	90 - 110
Strontium	97.7	98.9	P/P	90 - 110
Tin	95.5	95.9	P/P	90 - 110
Tin	97.9	96.0	P/P	90 - 110
Titanium	95.6	95.6	P/P	90 - 110
Titanium	97.5	95.3	P/P	90 - 110
Vanadium	96.9	97.2	P/P	90 - 110
Vanadium	97.3	97.1	P/P	90 - 110
Zinc	97.0	96.1	P/P	90 - 110
Zinc	97.8	95.1	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114271

Included Lab Sample IDs: 2349581, 2349582, 2349583, 2349584

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.4		P	80 - 120
Avobenzene	100		P	80 - 120
Dechlorane Plus	99.8		P	80 - 120
Octinoxate	96.0		P	80 - 120
Oxybenzone	100		P	80 - 120
PBDE-47	97.4		P	80 - 120
PBDE-99	96.8		P	80 - 120
Tri-o-cresyl Phosphate	98.0		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114274

Included Lab Sample IDs: 2349551

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114279

Included Lab Sample IDs: 2349551, 2349562

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.4	99.0	P/P	90 - 110
Kjeldahl Nitrogen	99.0	93.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114286

Included Lab Sample IDs: 2349552, 2349554, 2349556, 2349560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	99.7	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114289

Included Lab Sample IDs: 2349581, 2349582, 2349583, 2349584

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	97.8		P	80 - 120
Ametryn	109		P	80 - 120
Atrazine	98.1		P	80 - 120
Atrazine Desethyl	95.1		P	80 - 120
Azinphos Methyl	107		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	98.8		P	80 - 120
Butylate	98.2		P	80 - 120
Caffeine	108		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	108		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Coumaphos	103		P	80 - 120
Cyanazine	89.3		P	80 - 120
Cyprodinil	102		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	99.8		P	80 - 120
Difenoconazole	102		P	80 - 120
Dimethenamid	104		P	80 - 120
Dimethomorph	100		P	80 - 120
Disulfoton	97.2		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	98.3		P	80 - 120
Ethion	105		P	80 - 120
Ethoprop	103		P	80 - 120
Etridiazole	98.4		P	80 - 120
Fenamiphos	105		P	80 - 120
Fenbuconazole	104		P	80 - 120
Fipronil	98.6		P	80 - 120
Fipronil Desulfanyl	105		P	80 - 120
Fipronil Sulfide	106		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A114289

Included Lab Sample IDs: 2349581, 2349582, 2349583, 2349584

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fludioxonil	98.2		P	80 - 120
Flumioxazin	101		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	103		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	96.0		P	80 - 120
Imazalil	103		P	80 - 120
Iprodione	99.2		P	80 - 120
Loratadine	95.4		P	80 - 120
Malathion	97.8		P	80 - 120
Metalaxyl	99.3		P	80 - 120
Metolachlor	99.0		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	98.0		P	80 - 120
Molinate	101		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	103		P	80 - 120
Napropamide	105		P	80 - 120
Norflurazon	98.2		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	99.9		P	80 - 120
Parathion Ethyl	98.9		P	80 - 120
Parathion Methyl	97.4		P	80 - 120
Pendimethalin	95.3		P	80 - 120
Phenytoin	102		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	105		P	80 - 120
Prometon	99.1		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	94.7		P	80 - 120
Propanil	92.8		P	80 - 120
Propargite	98.8		P	80 - 120
Propiconazole	100		P	80 - 120
Pyraflufen Ethyl	98.7		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	97.8		P	80 - 120
Simazine	101		P	80 - 120
Stirophos	107		P	80 - 120
Sulfentrazone	99.4		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	101		P	80 - 120
Terbutylazine	101		P	80 - 120
Thiobencarb	99.2		P	80 - 120
Triadimefon	102		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114298

Included Lab Sample IDs: 2349554, 2349558, 2349560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.5	90.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114298

Included Lab Sample IDs: 2349554, 2349558, 2349560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.9	96.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114302

Included Lab Sample IDs: 2349556

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114304

Included Lab Sample IDs: 2349562

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

Reference Method: EPA 8276

Run ID: A114313

Included Lab Sample IDs: 2349585

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	88.8		P	80 - 120
Toxaphene	86.2		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114314

Included Lab Sample IDs: 2349552, 2349556

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	92.3	96.1	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114327

Included Lab Sample IDs: 2349585

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.2		P	80 - 120
PCB-1260	95.1		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114342

Included Lab Sample IDs: 2349551, 2349558

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

Reference Method: EPA 8270E

Run ID: A114358

Included Lab Sample IDs: 2349585

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

Reference Method: EPA 8270E
Run ID: A114358
Included Lab Sample IDs: 2349585

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.5		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	104		P	80 - 120
Beta-BHC	89.7		P	80 - 120
Beta-Cyfluthrin	93.1		P	80 - 120
Bifenthrin	110		P	80 - 120
Carbophenothion	104		P	80 - 120
Chlorothalonil	87.2		P	80 - 120
Cis-Nonachlor	104		P	80 - 120
Cypermethrin	94.9		P	80 - 120
Dacthal	99.0		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	97.1		P	80 - 120
DDT-p,p'	99.4		P	80 - 120
Delta-BHC	92.2		P	80 - 120
Deltamethrin	89.0		P	80 - 120
Dichlobenil	93.4		P	80 - 120
Dicofol	100		P	80 - 120
Dieldrin	99.9		P	80 - 120
Endosulfan I	99.8		P	80 - 120
Endosulfan II	97.8		P	80 - 120
Endosulfan Sulfate	91.5		P	80 - 120
Endrin	100		P	80 - 120
Endrin Aldehyde	95.1		P	80 - 120
Endrin Ketone	104		P	80 - 120
Esfenvalerate	91.0		P	80 - 120
Ethalfuralin	97.3		P	80 - 120
Fenpropathrin	108		P	80 - 120
Gamma-BHC	96.6		P	80 - 120
Gamma-Chlordane	98.5		P	80 - 120
Heptachlor	97.3		P	80 - 120
Heptachlor Epoxide	104		P	80 - 120
Hexachlorobenzene	95.8		P	80 - 120
Kepone	76.4*		F	80 - 120
Lambda-Cyhalothrin	94.5		P	80 - 120
Methoprene	94.9		P	80 - 120
Methoxychlor	122*		F	80 - 120
MGK-264	96.0		P	80 - 120
Mirex	97.8		P	80 - 120
Oxychlordane	95.9		P	80 - 120
Permethrin	92.5		P	80 - 120
Phenothrin	91.8		P	80 - 120
Piperonyl Butoxide	98.5		P	80 - 120
Prallethrin	97.3		P	80 - 120
Tau-Fluvalinate	93.4		P	80 - 120
Tetramethrin	121*		F	80 - 120
Trans-Nonachlor	106		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	98.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A114375
Included Lab Sample IDs: 2349586

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	116	106	P/P	50 - 150
2,4,5-T	102	93.3	P/P	50 - 150
Acetaminophen	114	100	P/P	60 - 160
Acetamiprid	140	108	P/P	50 - 150
Afidopyropen	96.9	102	P/P	50 - 150
Bentazon	110	86.4	P/P	50 - 160
Benzovindiflupyr	117	114	P/P	50 - 150
Carbamazepine	118	102	P/P	60 - 150
Clothianidin	111	109	P/P	60 - 150
Dinotefuran	121	108	P/P	50 - 150
Diuron	113	116	P/P	60 - 160
Fenuron	120	110	P/P	60 - 150
Fluridone	114	121	P/P	60 - 160
Hydrocodone	118	102	P/P	60 - 150
Ibuprofen	79.5	110	P/P	50 - 160
Imazapyr	108	93.5	P/P	50 - 150
Imidacloprid	134	101	P/P	60 - 150
Linuron	106	111	P/P	60 - 150
Mandestrobin	126	99.5	P/P	50 - 150
MCPP	91.7	101	P/P	50 - 150
Naproxen	61.7	81.3	P/P	50 - 160
Primidone	97.0	94.6	P/P	60 - 150
Pyraclostrobin	114	111	P/P	60 - 150
Silvex	97.1	117	P/P	50 - 150
Thiamethoxam	121	106	P/P	50 - 150
Tolfenpyrad	120	104	P/P	60 - 150
Triclopyr	97.2	82.9	P/P	50 - 150

Reference Method: SM 2320 B-2011
Run ID: A114396
Included Lab Sample IDs: 2349550, 2349553, 2349555, 2349559, 2349561

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	97.6	P/P	90 - 110
Total Alkalinity	97.6	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114401
Included Lab Sample IDs: 2349560

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

Reference Method: EPA 8270E
Run ID: A114409
Included Lab Sample IDs: 2349582

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	97.1		P	80 - 120

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			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity	94.9					7.38	
EPA 200.7 Rev. 4.4	Calcium	93.0	98.8	97.7				0.204
	Calcium	98.5						0.494
	Iron	96.7	104	104	101			0.176
	Iron	106	112	112				0.0897
	Magnesium	95.9	104	103	97.8			0.811
	Magnesium	101						0.445
	Strontium	98.3	103	106	102			2.13
	Strontium	105						0.381
	Tin	96.0	100	103	98.9			2.26
	Tin	103	104	98.7				4.50
	Titanium	97.5	101	105	100			3.42
	Titanium	101	103	118				12.1
	Vanadium	96.8	102	104	102			1.95
	Vanadium	103	112	111				0.755
	Zinc	96.5	101	102	98.5			1.36
	Zinc	103	109	105				4.26
EPA 200.8 Rev. 5.4	Aluminum	102	104	111	113			1.57
	Aluminum	96.5	115	116				0.225
	Antimony	106	106	107	105			2.43
	Antimony	98.7	109	103				6.06
	Arsenic	103	102	103	102			1.29
	Arsenic	97.7	112	109				2.83
	Beryllium	97.0	95.3	98.6	96.8			1.80
	Beryllium	88.6	114	112				1.33
	Cadmium	103	103	102	99.7			2.14
	Cadmium	94.3	100	96.9				3.38
	Chromium	103	104	106	104			2.48
	Chromium	93.7	105	106				1.05
	Cobalt	101	99.5	100	98.6			1.82
	Cobalt	96.4	114	108				5.51
	Copper	99.4	94.6	98.7	97.0			1.67
	Copper	93.5	121	112				7.76
	Lead	97.1	96.9	98.9	97.7			1.26
	Lead	92.1	101	95.8				5.66
	Manganese	104	102	117	109			2.43
	Manganese	96.8	98.8	91.0				6.19
	Molybdenum	101	102	102	102			0.552
	Molybdenum	94.7	110	104				4.25
	Nickel	101	99.2	101	98.9			2.20
	Nickel	96.5	129	107				19.1
	Selenium	103	99.6	99.3	96.4			2.98
	Selenium	96.6	107	108				1.02
	Silver	102	102	102	99.8			1.84
	Silver	95.1	93.2	88.7				4.89
	Thallium	98.5	99.9	102	102			0.0532
	Thallium	95.8	104	102				2.63
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	105	104				1.15
	Ammonia-N	98.4	106	107				0.235
	Ammonia-N	101	98.4	104				3.12
	Ammonia-N	96.2	98.8	97.4				1.35
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	102	101				0.740
	Kjeldahl Nitrogen	102	100	103				1.82
	Kjeldahl Nitrogen	101	105	100				3.28

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.7	103	106			2.70
	Kjeldahl Nitrogen	101					2.03
EPA 353.2 Rev. 2.0	NO2NO3-N	96.0	97.4	94.9			2.39
	NO2NO3-N	96.0	93.8	93.8			0.0
	NO2NO3-N	100	95.5	95.0			0.501
EPA 365.1 Rev. 2.0	Total-P	101	104	102			2.07
	Total-P	107	108	107			1.03
	Total-P	102	102	102			0.610
	Total-P	106	104	104			0.557
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.1	121	126			4.62
	Acetochlor	90.4	82.3	101			20.4
	Alachlor	82.5	70.4	89.7			24.1
	Aldrin	58.9	52.2	56.1			7.23
	Alpha-BHC	96.0	91.3	93.7			2.62
	Alpha-Chlordane	76.0	53.0	54.3			2.38
	Ametryn	93.7	67.9	66.2			1.12
	Atrazine	90.5					3.06
	Atrazine Desethyl	63.5	53.6	57.8			3.60
	Avobenzone	88.9	95.6	99.9			4.40
	Azinphos Methyl	98.1	87.3	96.3			9.80
	Azoxystrobin	97.1	93.8	116			14.7
	Beta-BHC	95.3	82.7	87.5			5.60
	Beta-Cyfluthrin	68.0	59.1	57.1			3.56
	Bifenthrin	71.6	93.5	92.6			1.01
	Bromacil	79.4	80.8	86.6			6.94
	Butylate	37.2	29.6	30.2			2.07
	Caffeine	83.4	98.5	98.3			0.242
	Carbophenothion	81.2	71.5	76.5			6.85
	Carbophenothion	53.9	51.1	49.5			3.16
	Carfentrazone Ethyl	89.9	77.3	82.9			6.96
	Chlorfenapyr	85.8	67.8	74.3			9.15
	Chlorothalonil	51.1	47.6	50.7			6.38
	Chlorpyrifos Ethyl	88.8	98.0	99.4			1.42
	Chlorpyrifos Methyl	92.7	84.0	96.0			13.4
	Cis-Nonachlor	74.2	50.0	49.7			0.486
	Coumaphos	87.5	75.2	84.6			11.8
	Cyanazine	82.6	78.4	82.3			4.83
	Cypermethrin	70.1	60.8	56.8			6.72
	Cyprodinil	85.1	76.2	85.9			12.0
	Dacthal	86.3	65.2	65.7			0.771
	DDD-p,p'	73.0	48.7	49.1			0.777
	DDE-p,p'	72.8	50.8	49.1			3.41
	DDT-p,p'	81.9	67.5	66.4			1.64
	Dechlorane Plus	112	139	133			4.39
	Delta-BHC	103	93.0	98.3			5.55
	Deltamethrin	79.3	75.4	71.3			5.56
	Demeton	69.5	72.9	83.4			13.5
	Diazinon	84.5	77.4	92.3			17.5
	Dichlobenil	91.8	72.8	66.6			8.84
	Dicofol	86.7	103	83.6			20.9
	Dieldrin	76.9	59.8	59.0			1.41
	Difenoconazole	102	97.8	115			16.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Dimethenamid	70.5	68.9	81.6			16.9
	Dimethomorph	83.7	96.2	106			9.90
	Disulfoton	81.9	78.6	91.3			14.9
	Dithiopyr	92.5	61.3	73.6			13.7
	Endosulfan I	78.2	61.9	62.0			0.220
	Endosulfan II	70.7	49.3	49.8			1.07
	Endosulfan Sulfate	79.6	53.5	53.0			1.12
	Endrin	76.0	54.5	55.7			2.19
	Endrin Aldehyde	69.2	41.0	45.4			10.1
	Endrin Ketone	80.4	57.3	57.2			0.277
	EPTC	33.9	28.7	24.8			14.4
	Esfenvalerate	67.0	68.6	65.2			5.21
	Ethalfuralin	81.4	72.6	70.9			2.34
	Ethion	91.8	73.6	70.4			4.40
	Ethoprop	72.6	79.1	91.2			14.2
	Etridiazole	38.7	37.5	37.5			0.0601
	Fenamiphos	86.6	70.7	72.2			2.10
	Fenbuconazole	89.1	74.7	83.0			10.5
	Fenpropathrin	73.6	59.2	59.1			0.129
	Fipronil	86.5	74.9	92.7			19.3
	Fipronil Desulfinyl	94.5	94.7	105			6.80
	Fipronil Sulfide	81.5	76.5	94.1			13.4
	Fipronil Sulfone	76.8					11.4
	Fluazifop-P-butyl	90.9	78.0	86.9			10.8
	Fludioxonil	81.1	72.2	89.5			21.4
	Flumioxazin	106	98.0	125			24.4
	Flutolanil	86.7	51.2	63.1			16.3
	Fluxapyroxad	80.1	72.0	83.5			10.6
	Fonofos	79.1	81.9	85.8			4.66
	Gamma-BHC	102	66.5	78.5			16.6
	Gamma-Chlordane	73.4	57.7	57.1			1.02
	Heptachlor	71.6	66.4	63.0			5.30
	Heptachlor Epoxide	78.7	65.1	64.3			1.27
	Hexachlorobenzene	81.1	64.4	70.1			8.49
	Hexazinone	84.4	90.0	100			10.9
	Imazalil	77.3	80.4	77.0			4.33
	Iprodione	85.2	70.8	80.1			12.3
	Kepone	109	81.2	71.9			12.3
	Lambda-Cyhalothrin	58.2	66.8	72.7			8.57
	Loratadine	80.4	91.6	102			10.4
	Malathion	98.1	91.5	103			12.1
	Metalaxyl	83.8	74.4	82.4			10.2
	Methoprene	56.2	54.7	57.3			4.52
	Methoxychlor	102	75.7	74.7			1.31
	Metolachlor	81.4	76.3	92.7			12.9
	Metribuzin	96.3	93.8	117			22.0
	Mevinphos	64.0	67.7	74.7			9.87
	MGK-264	76.6	65.4	63.1			3.59
	Mirex	59.8	44.9	45.2			0.692
	Molinate	48.9	49.0	52.1			6.03
	Myclobutanil	87.2	92.4	114			11.1
	Naled	75.7	73.9	105			34.4
	Napropamide	76.7	63.3	73.8			15.3
	Norflurazon	77.8	65.1	78.1			18.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
EPA 8270E	Octinoxate	91.3	103 110			6.95
	Oxadiazon	71.7				6.63
	Oxybenzone	82.7	107 106			1.29
	Oxychlordane	80.0	69.3 70.7			2.07
	Oxyfluorfen	98.7	90.1 106			16.5
	Parathion Ethyl	90.6	87.9 101			13.9
	Parathion Methyl	98.7	96.2 115			17.8
	PBDE-47	91.9	108 114			5.50
	PBDE-99	95.6	106 111			5.21
	PCB-1016	74.0	56.6 64.0			12.2
	PCB-1260	78.6	53.3 58.8			9.93
	Pendimethalin	94.0	100 114			13.0
	Permethrin	68.8	63.2 61.7			2.31
	Phenothrin	52.8	55.0 53.3			3.19
	Phenytoin	49.2	36.8 45.7			21.5
	Phorate	68.0	68.4 78.3			13.5
	Piperonyl Butoxide	90.5	70.3 69.3			1.35
	Prallethrin	74.1	64.5 66.3			2.73
	Prodiamine	42.3	48.8 53.2			8.63
	Prometon	75.0	74.7 72.5			3.00
	Prometryn	81.6	73.1 77.4			5.77
	Pronamide	93.2	77.9 91.8			16.3
	Propanil	83.7	68.8 86.9			23.2
	Propargite	76.4	52.5 59.7			12.9
	Propiconazole	77.6	74.6 95.0			15.2
	Pyraflufen Ethyl	77.9	64.9 72.8			11.5
	Pyridaben	91.4	101 96.8			4.00
	Pyriproxyfen	81.9	61.4 76.5			21.8
	Simazine	84.2				0.368
	Stirophos	80.2	61.7 64.9			5.16
	Sulfentrazone	70.8	84.1 113			15.6
	Tau-Fluvalinate	56.9	64.0 61.7			3.63
	Tebuconazole	65.7	49.6 54.6			8.02
	Terbufos	93.7	98.3 113			14.1
	Terbutylazine	85.6	82.6 95.1			14.0
	Tetramethrin	130	134 132			1.08
	Thiobencarb	80.6	67.9 79.3			15.5
	Trans-Nonachlor	78.9	60.9 56.2			7.94
	Tri-o-cresyl Phosphate	91.8	96.2 101			4.42
	Triadimefon	85.3	67.3 77.9			14.6
	Triclosan Methyl	78.5	56.5 55.5			1.83
	Trifluralin	80.2	67.6 67.5			0.116
EPA 8276	Chlordane	69.4	50.3 49.0			2.67
	Toxaphene	80.5	55.8 60.2			7.66
EPA 8321B	2,4-D	112	103 76.1			29.2
	2,4,5-T	94.3	77.8 101			26.2
	Acesulfame K	104	91.9 91.1			0.887
	Acetaminophen	93.8	110 99.8			10.2
	Acetamiprid	105	77.5 77.8			0.394
	Afidopyropen	89.4	24.4 28.2			14.5
	AMPA	108	105 104			1.08
	Bentazon	106	108 91.8			16.6
	Benzovindiflupyr	96.9	102 103			1.22
	Carbamazepine	82.2	81.8 101			21.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
			LCS	SMP	MS	
EPA 8321B	Clothianidin	101	92.0	83.0		10.3
	Dinotefuran	104	130	116		11.0
	Diuron	98.3	108	101		6.71
	Endothall	112	107	106		1.04
	Fenuron	115	119	108		9.60
	Fluridone	104	90.4	77.2		15.7
	Glufosinate	125	106	111		3.93
	Glyphosate	111	101	99.6		1.19
	Hydrocodone	120	39.9	38.7		3.17
	Ibuprofen	96.9	73.0	64.9		11.7
	Imazapyr	112	136	109		14.5
	Imidacloprid	91.4	81.2	75.9		6.73
	Linuron	105	99.9	98.2		1.69
	Mandestrobin	113	117	94.7		20.8
	MCPP	119	81.8	86.5		5.57
	Naproxen	144	68.7	83.2		19.0
	Primidone	83.6	64.3	57.7		10.8
	Pyraclostrobin	97.8	110	99.6		9.59
	Silvex	107	76.0	85.8		12.2
	Sucralose	109	99.1	103		4.24
	Thiamethoxam	114	128	97.6		27.1
	Tolfenpyrad	85.3	67.8	69.1		1.91
	Triclopyr	81.1	89.6	72.3		21.3
SM 2320 B-2011	Total Alkalinity	99.9			0.0308	
	Total Alkalinity	102			0.0351	
SM 4500-F- C-2011	Fluoride	99.2	100	100		0.0
	Fluoride	100				
SM 5310 B-2011	Organic Carbon	97.8	98.6	95.5		2.56
	Organic Carbon	96.2	94.2	94.3		0.0840

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2349549, 2349550, 2349553, 2349555, 2349557, 2349559, 2349561
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2349587, 2349588, 2349589, 2349590
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2349587, 2349588, 2349589, 2349590
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2349551, 2349552, 2349554, 2349556, 2349558, 2349560, 2349562
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2349551, 2349552, 2349554, 2349556, 2349558, 2349560, 2349562
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2349551, 2349552, 2349554, 2349556, 2349558, 2349560, 2349562
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2349551, 2349552, 2349554, 2349556, 2349558, 2349560, 2349562
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2349581, 2349582, 2349583, 2349584
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2349585
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2349581, 2349582, 2349583, 2349584
EPA 8270E	PCBs in water matrices by GC/MS/MS	2349585
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2349585
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2349586

Reference Method Descriptions

Method	Description	Associated Samples
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2349549, 2349550, 2349553, 2349555, 2349557, 2349559, 2349561
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2349549, 2349550, 2349553, 2349555, 2349557, 2349559, 2349561
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2349549, 2349550, 2349553, 2349555, 2349557, 2349559, 2349561
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2349551, 2349552, 2349554, 2349556, 2349558, 2349560, 2349562

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	08/16/2022			08/16/2022 14:35	Khloe J Berg	2349549
	08/16/2022			08/16/2022 14:37	Khloe J Berg	2349550
	08/16/2022			08/16/2022 14:39	Khloe J Berg	2349553
	08/16/2022			08/16/2022 14:41	Khloe J Berg	2349555
	08/16/2022			08/16/2022 14:43	Khloe J Berg	2349557
	08/16/2022			08/16/2022 14:44	Khloe J Berg	2349559
	08/16/2022			08/16/2022 14:48	Khloe J Berg	2349561
	08/16/2022	08/17/2022 11:10	Megan Whitefoot	08/22/2022 19:06	Alexander Thompson	2349590
EPA 200.7 Rev. 4.4	08/16/2022	08/17/2022 11:10	Megan Whitefoot	08/22/2022 22:19	Alexander Thompson	2349588
	08/16/2022	08/18/2022 10:30	Megan Whitefoot	08/18/2022 17:58	McKinley C Carter	2349587
	08/16/2022	08/18/2022 10:30	Megan Whitefoot	08/18/2022 18:17	McKinley C Carter	2349589
	08/16/2022	08/18/2022 10:30	Megan Whitefoot	08/19/2022 03:32	McKinley C Carter	2349587
	08/16/2022	08/18/2022 10:30	Megan Whitefoot	08/19/2022 03:39	McKinley C Carter	2349587
	08/16/2022	08/18/2022 10:30	Megan Whitefoot	08/19/2022 03:47	McKinley C Carter	2349589
	08/16/2022	08/17/2022 11:10	Megan Whitefoot	08/19/2022 13:39	Emily M Philpot	2349590
	08/16/2022	08/17/2022 11:10	Megan Whitefoot	08/19/2022 15:54	Emily M Philpot	2349588
EPA 200.8 Rev. 5.4	08/16/2022	08/18/2022 10:30	Megan Whitefoot	08/18/2022 23:12	Emily M Philpot	2349587
	08/16/2022	08/18/2022 10:30	Megan Whitefoot	08/18/2022 23:30	Emily M Philpot	2349589
	08/16/2022	08/18/2022 10:30	Megan Whitefoot	08/19/2022 01:09	Emily M Philpot	2349587
	08/16/2022	08/18/2022 10:30	Megan Whitefoot	08/19/2022 01:27	Emily M Philpot	2349589
	08/16/2022	08/18/2022 10:30	Megan Whitefoot	08/21/2022 17:57	Emily M Philpot	2349587
	08/16/2022	08/18/2022 10:30	Megan Whitefoot	08/21/2022 18:08	Emily M Philpot	2349589
	08/16/2022			08/19/2022 13:29	Judith K. Clark	2349562
	08/16/2022			08/22/2022 15:16	Judith K. Clark	2349558
EPA 350.1 Rev. 2.0	08/16/2022			08/23/2022 13:04	Ping Hua	2349552
	08/16/2022			08/23/2022 13:06	Ping Hua	2349554
	08/16/2022			08/23/2022 13:07	Ping Hua	2349556
	08/16/2022			08/23/2022 13:08	Ping Hua	2349560
	08/16/2022			08/23/2022 14:31	Judith K. Clark	2349551
	08/16/2022	08/22/2022 16:54	Samantha L Bates	08/23/2022 14:35	Alexandra J Mattheus	2349551
	08/16/2022	08/22/2022 16:54	Samantha L Bates	08/23/2022 15:01	Alexandra J Mattheus	2349562
	08/16/2022	08/22/2022 16:54	Samantha L Bates	08/24/2022 15:54	Samantha L Bates	2349552
EPA 351.2 Rev. 2.0	08/16/2022	08/22/2022 16:54	Samantha L Bates	08/24/2022 15:55	Samantha L Bates	2349556
	08/16/2022	08/23/2022 16:31	Samantha L Bates	08/24/2022 11:07	Samantha L Bates	2349558
	08/16/2022	08/23/2022 16:31	Samantha L Bates	08/24/2022 12:25	Samantha L Bates	2349554
	08/16/2022	08/23/2022 16:31	Samantha L Bates	08/24/2022 12:27	Samantha L Bates	2349560
	08/16/2022			08/18/2022 09:53	Beverly Y. Sanders	2349552
	08/16/2022			08/18/2022 09:54	Beverly Y. Sanders	2349554
	08/16/2022			08/18/2022 10:01	Beverly Y. Sanders	2349560
	08/16/2022			08/18/2022 10:07	Beverly Y. Sanders	2349556

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 353.2 Rev. 2.0	08/16/2022			08/18/2022 10:08	Beverly Y. Sanders	2349562
	08/16/2022			08/19/2022 11:08	Beverly Y. Sanders	2349551
	08/16/2022			08/19/2022 11:10	Beverly Y. Sanders	2349558
EPA 365.1 Rev. 2.0	08/16/2022	08/17/2022 15:03	Adam P Silver	08/19/2022 13:26	James L Waggeberby	2349552
	08/16/2022	08/17/2022 15:03	Adam P Silver	08/19/2022 13:28	James L Waggeberby	2349554
	08/16/2022	08/23/2022 18:30	Simonne.V. Calhoun	08/24/2022 10:23	James L Waggeberby	2349556
	08/16/2022	08/23/2022 18:30	Simonne.V. Calhoun	08/24/2022 15:20	James L Waggeberby	2349562
	08/16/2022	08/24/2022 15:20	Simonne.V. Calhoun	08/25/2022 09:57	James L Waggeberby	2349551
	08/16/2022	08/24/2022 15:20	Simonne.V. Calhoun	08/25/2022 10:01	James L Waggeberby	2349558
	08/16/2022	08/25/2022 15:50	Simonne.V. Calhoun	08/29/2022 09:34	James L Waggeberby	2349560
	08/16/2022	08/17/2022 08:30	Rasheda Ghaffari	08/22/2022 21:33	Lipi Saha	2349581
EPA 8270E	08/16/2022	08/17/2022 08:30	Rasheda Ghaffari	08/22/2022 21:52	Lipi Saha	2349582
	08/16/2022	08/17/2022 08:30	Rasheda Ghaffari	08/22/2022 22:12	Lipi Saha	2349583
	08/16/2022	08/17/2022 08:30	Rasheda Ghaffari	08/22/2022 22:31	Lipi Saha	2349584
	08/16/2022	08/17/2022 08:30	Rasheda Ghaffari	08/23/2022 21:05	Michael Poppell	2349581
	08/16/2022	08/17/2022 08:30	Rasheda Ghaffari	08/23/2022 21:31	Michael Poppell	2349582
	08/16/2022	08/17/2022 08:30	Rasheda Ghaffari	08/23/2022 21:57	Michael Poppell	2349583
	08/16/2022	08/17/2022 08:30	Rasheda Ghaffari	08/23/2022 22:24	Michael Poppell	2349584
	08/16/2022	08/17/2022 08:30	Rasheda Ghaffari	08/29/2022 00:57	Michael Poppell	2349582
	08/16/2022	08/19/2022 10:00	Rasheda Ghaffari	08/23/2022 19:47	Vandana T. Nagar	2349585
	08/16/2022	08/19/2022 10:00	Rasheda Ghaffari	08/24/2022 00:09	Julie Wi	2349585
EPA 8276	08/16/2022	08/19/2022 10:00	Rasheda Ghaffari	08/24/2022 13:48	Arthur Maknenko	2349585
EPA 8321B	08/16/2022	08/16/2022 13:00	Umesh Chiluwal	08/16/2022 21:13	Umesh Chiluwal	2349586
	08/16/2022	08/16/2022 13:00	Umesh Chiluwal	08/17/2022 11:00	Umesh Chiluwal	2349586
	08/16/2022	08/17/2022 09:00	Hoor Shaik	08/18/2022 03:49	Juyoung Kim	2349586
SM 2320 B-2011	08/16/2022			08/19/2022 10:06	Adam P Silver	2349557
	08/16/2022			08/19/2022 10:43	Adam P Silver	2349549
	08/16/2022			08/27/2022 06:07	Adam P Silver	2349561
	08/16/2022			08/27/2022 07:43	Adam P Silver	2349555
	08/16/2022			08/27/2022 07:55	Adam P Silver	2349553
	08/16/2022			08/27/2022 08:06	Adam P Silver	2349559
	08/16/2022			08/27/2022 08:18	Adam P Silver	2349550
	08/16/2022			08/19/2022 15:07	Yijie Li	2349549, 2349550, 2349553, 2349555, 2349557, 2349559, 2349561
SM 4500-F- C-2011	08/16/2022			08/18/2022 23:24	Adam P Silver	2349559
	08/16/2022			08/18/2022 23:34	Adam P Silver	2349561
	08/16/2022			08/19/2022 00:45	Adam P Silver	2349555
	08/16/2022			08/19/2022 00:59	Adam P Silver	2349553
	08/16/2022			08/19/2022 01:14	Adam P Silver	2349550
	08/16/2022			08/19/2022 07:35	Adam P Silver	2349557

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500-F- C-2011	08/16/2022			08/19/2022 07:59	Adam P Silver	2349549
SM 5310 B-2011	08/16/2022			08/19/2022 15:26	Judith K. Clark	2349552
	08/16/2022			08/19/2022 15:41	Judith K. Clark	2349554
	08/16/2022			08/19/2022 15:55	Judith K. Clark	2349556
	08/16/2022			08/19/2022 16:10	Judith K. Clark	2349558
	08/16/2022			08/19/2022 16:26	Judith K. Clark	2349560
	08/16/2022			08/19/2022 16:40	Judith K. Clark	2349562
	08/16/2022			08/23/2022 01:19	Khloe J Berg	2349551