Chemical Analysis Report

SO-DIST-2022-12-16-01

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

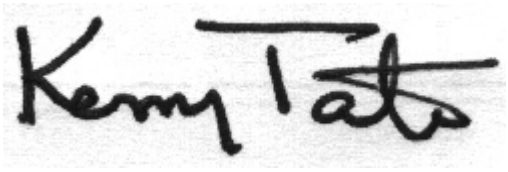
Event Description: **2022 SMP : Myakka Cricks**
Request ID: **RQ-2022-12-05-32**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: William Mullen

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 19-JAN-2023 09:52



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: LITTLE ALLIGATOR CREEK @ MIDWAY BLVD Collection Date/Time: 12/15/2022 08:25

Field ID: G3SD0071 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376045	EPA 180.1 Rev. 2.0	Turbidity	1.0		NTU	P423692	
	SM 2320 B-2011	Total Alkalinity	122	Q	mg CaCO3/L	P424085	
	SM 2540 D-2015	TSS	8	I	mg/L	P423859	
	SM 4500-F- C-2011	Fluoride	0.80		mg F/L	P424213	
2376047	EPA 350.1 Rev. 2.0	Ammonia-N	0.064		mg N/L	P424076	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.61		mg N/L	P423820	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.051		mg N/L	P423769	
	EPA 365.1 Rev. 2.0	Total-P	0.20		mg P/L	P423794	
	SM 5310 B-2011	Organic Carbon	8.4		mg C/L	P424079	
2376102	EPA 8270E	Oxybenzone**	9.5	U	ng/L	P423751	
		Acetochlor	0.24	U	ng/L	P423751	
		Octinoxate**	19	U	ng/L	P423751	
		Alachlor	0.24	U	ng/L	P423751	
		Avobenzone**	95	U	ng/L	P423751	
		Ametryn	0.57	U	ng/L	P423751	
		Atrazine	12		ng/L	P423751	
		PBDE-47**	3.8	U	ng/L	P423751	
		Atrazine Desethyl	1.4	U	ng/L	P423751	
		PBDE-99**	4.8	U	ng/L	P423751	
		Azinphos Methyl	1.9	U	ng/L	P423751	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P423751	
		Azoxystrobin	0.48	U	ng/L	P423751	
		Bromacil	10		ng/L	P423751	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	11	U	ng/L	P423751	
		Butylate	0.38	U	ng/L	P423751	
		Dechlorane Plus**	29	U	ng/L	P423751	
		Caffeine**	7.2	U	ng/L	P423751	
		Carbophenothion	0.19	U	ng/L	P423751	
		Carfentrazone Ethyl	0.095	U	ng/L	P423751	
		Chlorfenapyr	0.17	U	ng/L	P423751	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P423751	
		Chlorpyrifos Methyl	0.048	U	ng/L	P423751	
		Coumaphos	0.48	U	ng/L	P423751	
		Cyanazine	3.1	UJ	ng/L	P423751	LCS, MS
		Cyprodinil	0.095	U	ng/L	P423751	
		Demeton	1.4	U	ng/L	P423751	
		Diazinon	0.12	U	ng/L	P423751	
		Difenoconazole	0.57	U	ng/L	P423751	
		Dimethenamid	0.095	U	ng/L	P423751	
		Dimethomorph	0.17	U	ng/L	P423751	
		Disulfoton	0.48	U	ng/L	P423751	
		Dithiopyr	0.60	U	ng/L	P423751	
		EPTC	1.2	U	ng/L	P423751	

Field ID: G3SD0071 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376102	EPA 8270E	Ethion	0.14	U	ng/L	P423751	
		Ethoprop	0.095	U	ng/L	P423751	
		Etridiazole	0.14	U	ng/L	P423751	
		Fenamiphos	0.48	U	ng/L	P423751	
		Fenbuconazole	0.12	U	ng/L	P423751	
		Fipronil	0.24	U	ng/L	P423751	
		Fipronil Desulfinyl**	0.12	U	ng/L	P423751	
		Fipronil Sulfide	0.14	U	ng/L	P423751	
		Fipronil Sulfone	0.19	I	ng/L	P423751	
		Fluazifop-P-butyl	0.095	U	ng/L	P423751	
		Fludioxonil	0.12	U	ng/L	P423751	
		Flumioxazin	4.3	U	ng/L	P423751	
		Flutolanil	0.14	I	ng/L	P423751	
		Fluxapyroxad	0.22	I	ng/L	P423751	
		Fonofos	0.19	U	ng/L	P423751	
		Hexazinone	5.9		ng/L	P423751	
		Imazalil	0.72	U	ng/L	P423751	
		Iprodione	0.57	U	ng/L	P423751	
		Loratadine**	0.33	U	ng/L	P423751	
		Malathion	0.33	U	ng/L	P423751	
		Metalaxyl	4.7		ng/L	P423751	
		Metolachlor	4.0		ng/L	P423751	
		Metribuzin	1.4	U	ng/L	P423751	
		Mevinphos	1.0	U	ng/L	P423751	
		Molinate	0.29	U	ng/L	P423751	
		Myclobutanil	0.24	U	ng/L	P423751	
		Naled	1.4	U	ng/L	P423751	
		Napropamide	0.38	U	ng/L	P423751	
		Norflurazon	29		ng/L	P423751	
		Oxadiazon	0.29	U	ng/L	P423751	
		Oxyfluorfen	0.14	U	ng/L	P423751	
		Parathion Ethyl	0.24	U	ng/L	P423751	
		Parathion Methyl	0.52	U	ng/L	P423751	
		Pendimethalin	0.95	U	ng/L	P423751	
		Phenytoin**	3.3	U	ng/L	P423751	
		Phorate	0.50	U	ng/L	P423751	
		Prodiamine	0.17	U	ng/L	P423751	
		Prometon	0.86	U	ng/L	P423751	
		Prometryn	0.19	U	ng/L	P423751	
		Pronamide	0.14	U	ng/L	P423751	
		Propanil	0.12	U	ng/L	P423751	
		Propargite	1.4	U	ng/L	P423751	
		Propiconazole	0.48	U	ng/L	P423751	
		Pyraflufen Ethyl	0.24	U	ng/L	P423751	
		Pyridaben	0.43	U	ng/L	P423751	

Field ID: G3SD0071 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376102	EPA 8270E	Pyriproxyfen	0.12	U	ng/L	P423751	
		Simazine	2.3		ng/L	P423751	
		Stirophos	0.12	U	ng/L	P423751	
		Sulfentrazone	2.8		ng/L	P423751	
		Tebuconazole	0.86	I	ng/L	P423751	
		Terbufos	0.095	U	ng/L	P423751	
		Terbuthylazine	0.41	U	ng/L	P423751	
		Thiobencarb	0.57	U	ng/L	P423751	
		Triadimefon	0.24	U	ng/L	P423751	
2376108	EPA 200.7 Rev. 4.4	Calcium	230		mg/L	P423815	
		Iron	400		ug/L	P423815	
		Magnesium	629		mg/L	P423815	
		Strontium	4.56E+03		ug/L	P423815	
		Tin	9.0	U	ug/L	P423815	
		Titanium	2.2	U	ug/L	P423815	
		Vanadium	6.0	U	ug/L	P423815	
		Zinc	15	U	ug/L	P423815	
	EPA 200.8 Rev. 5.4	Aluminum	132		ug/L	P423815	
		Antimony	0.20	U	ug/L	P423815	
		Arsenic	2.51		ug/L	P423815	
		Beryllium	0.040	U	ug/L	P423815	
		Cadmium	0.080	U	ug/L	P423815	
		Chromium	1.6	U	ug/L	P423815	
		Cobalt	0.32		ug/L	P423815	
		Copper	1.8	I	ug/L	P423815	
		Lead	0.80	U	ug/L	P423815	
		Manganese	31.3		ug/L	P423815	
		Molybdenum	6.1		ug/L	P423815	
		Nickel	2.0	U	ug/L	P423815	
		Selenium	0.80	U	ug/L	P423815	
		Silver	0.040	U	ug/L	P423815	
		Thallium	0.40	U	ug/L	P423815	

Ref. Method and Comment:
SM 2320 B-2011: The sample was analyzed out of hold time because the HVAC system in the laboratory was down resulting in excessively cold temperatures.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: MS accuracy for bromacil and norflurazon not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium and magnesium are unavailable because of high analyte concentration in the QC sample.

Sample Location: FlopbuckNearPearlSt **Collection Date/Time: 12/15/2022 08:50**

Field ID: G3SD0185 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376053	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P423692	
	SM 2320 B-2011	Total Alkalinity	157	Q	mg CaCO3/L	P424085	
	SM 2540 D-2015	TSS	4	I A	mg/L	P423859	
	SM 4500-F- C-2011	Fluoride	0.58		mg F/L	P424213	
2376054	EPA 350.1 Rev. 2.0	Ammonia-N	0.039		mg N/L	P424076	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.59		mg N/L	P423820	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P423769	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P423794	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P424079	
2376110	EPA 200.7 Rev. 4.4	Calcium	182		mg/L	P423815	
		Iron	130	I	ug/L	P423815	
		Magnesium	383		mg/L	P423815	
		Strontium	3.22E+03		ug/L	P423815	
		Tin	9.0	U	ug/L	P423815	
		Titanium	2.2	U	ug/L	P423815	
		Vanadium	6.0	U	ug/L	P423815	
		Zinc	15	U	ug/L	P423815	
	EPA 200.8 Rev. 5.4	Aluminum	56	I	ug/L	P423815	
		Antimony	0.25	I	ug/L	P423815	
		Arsenic	2.28		ug/L	P423815	
		Beryllium	0.040	U	ug/L	P423815	
		Cadmium	0.080	U	ug/L	P423815	
		Chromium	1.6	U	ug/L	P423815	
		Cobalt	0.33		ug/L	P423815	
		Copper	1.6	U	ug/L	P423815	
		Lead	0.80	U	ug/L	P423815	
		Manganese	23.9		ug/L	P423815	
		Molybdenum	6.3		ug/L	P423815	
		Nickel	2.0	U	ug/L	P423815	
		Selenium	0.80	U	ug/L	P423815	
		Silver	0.040	U	ug/L	P423815	
		Thallium	0.40	U	ug/L	P423815	

Ref. Method and Comment:
SM 2320 B-2011: The sample was analyzed out of hold time because the HVAC system in the laboratory was down resulting in excessively cold temperatures.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium and magnesium are unavailable because of high analyte concentration in the QC sample.

Sample Location: Apollo Waterway EBranch **Collection Date/Time: 12/15/2022 09:30**

Field ID: G3SD0208 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376049	EPA 180.1 Rev. 2.0	Turbidity	3.6		NTU	P423692	
	SM 2320 B-2011	Total Alkalinity	179	Q	mg CaCO3/L	P424085	
	SM 2540 D-2015	TSS	6	I	mg/L	P423856	
	SM 4500-F- C-2011	Fluoride	0.45		mg F/L	P424213	
2376050	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P424076	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.84		mg N/L	P423820	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P423768	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P423794	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P423876	
2376104	EPA 8270E	Oxybenzone**	10	U	ng/L	P423751	
		Acetochlor	0.25	U	ng/L	P423751	
		Octinoxate**	20	U	ng/L	P423751	
		Alachlor	0.25	U	ng/L	P423751	
		Avobenzone**	100	U	ng/L	P423751	
		Ametryn	0.60	U	ng/L	P423751	
		Atrazine	16		ng/L	P423751	
		PBDE-47**	4.0	U	ng/L	P423751	
		Atrazine Desethyl	1.5	U	ng/L	P423751	
		PBDE-99**	5.0	U	ng/L	P423751	
		Azinphos Methyl	2.0	U	ng/L	P423751	
		Tri-o-cresyl Phosphate**	6.0	U	ng/L	P423751	
		Azoxystrobin	0.50	U	ng/L	P423751	
		Bromacil	3.7		ng/L	P423751	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P423751	
		Butylate	0.40	U	ng/L	P423751	
		Dechlorane Plus**	30	U	ng/L	P423751	
		Caffeine**	8.7	I	ng/L	P423751	
		Carbophenothion	0.20	U	ng/L	P423751	
		Carfentrazone Ethyl	0.10	U	ng/L	P423751	
		Chlorfenapyr	0.17	U	ng/L	P423751	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P423751	
		Chlorpyrifos Methyl	0.050	U	ng/L	P423751	
		Coumaphos	0.50	U	ng/L	P423751	
		Cyanazine	3.2	UJ	ng/L	P423751	LCS, MS
		Cyprodinil	0.10	U	ng/L	P423751	
		Demeton	1.5	U	ng/L	P423751	
		Diazinon	0.12	U	ng/L	P423751	
		Difenoconazole	0.60	U	ng/L	P423751	
		Dimethenamid	0.10	U	ng/L	P423751	
		Dimethomorph	0.17	U	ng/L	P423751	
		Disulfoton	0.50	U	ng/L	P423751	
		Dithiopyr	0.62	U	ng/L	P423751	
		EPTC	1.2	U	ng/L	P423751	

Field ID: G3SD0208 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376104	EPA 8270E	Ethion	0.15	U	ng/L	P423751	
		Ethoprop	0.10	U	ng/L	P423751	
		Etridiazole	0.15	U	ng/L	P423751	
		Fenamiphos	0.50	U	ng/L	P423751	
		Fenbuconazole	0.12	U	ng/L	P423751	
		Fipronil	0.25	U	ng/L	P423751	
		Fipronil Desulfinyl**	0.12	U	ng/L	P423751	
		Fipronil Sulfide	0.15	U	ng/L	P423751	
		Fipronil Sulfone	0.55	I	ng/L	P423751	
		Fluazifop-P-butyl	0.10	U	ng/L	P423751	
		Fludioxonil	0.12	U	ng/L	P423751	
		Flumioxazin	4.5	U	ng/L	P423751	
		Flutolanil	0.54		ng/L	P423751	
		Fluxapyroxad	0.59		ng/L	P423751	
		Fonofos	0.20	U	ng/L	P423751	
		Hexazinone	6.0		ng/L	P423751	
		Imazalil	0.75	U	ng/L	P423751	
		Iprodione	0.60	U	ng/L	P423751	
		Loratadine**	0.35	U	ng/L	P423751	
		Malathion	0.35	U	ng/L	P423751	
		Metalaxyl	2.1	I	ng/L	P423751	
		Metolachlor	12		ng/L	P423751	
		Metribuzin	1.5	U	ng/L	P423751	
		Mevinphos	1.0	U	ng/L	P423751	
		Molinate	0.30	U	ng/L	P423751	
		Myclobutanil	0.25	U	ng/L	P423751	
		Naled	1.5	U	ng/L	P423751	
		Napropamide	0.40	U	ng/L	P423751	
		Norflurazon	9.6		ng/L	P423751	
		Oxadiazon	0.37	I	ng/L	P423751	
		Oxyfluorfen	0.15	U	ng/L	P423751	
		Parathion Ethyl	0.25	U	ng/L	P423751	
		Parathion Methyl	0.55	U	ng/L	P423751	
		Pendimethalin	1.0	U	ng/L	P423751	
		Phenytoin**	3.5	U	ng/L	P423751	
		Phorate	0.52	U	ng/L	P423751	
		Prodiamine	0.17	U	ng/L	P423751	
		Prometon	0.90	U	ng/L	P423751	
		Prometryn	0.20	U	ng/L	P423751	
		Pronamide	0.15	U	ng/L	P423751	
		Propanil	0.12	U	ng/L	P423751	
		Propargite	1.5	U	ng/L	P423751	
		Propiconazole	0.86	I	ng/L	P423751	
		Pyraflufen Ethyl	0.25	U	ng/L	P423751	
		Pyridaben	0.45	U	ng/L	P423751	

Field ID: G3SD0208 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376104	EPA 8270E	Pyriproxyfen	0.12	U	ng/L	P423751	
		Simazine	2.5		ng/L	P423751	
		Stirophos	0.12	U	ng/L	P423751	
		Sulfentrazone	5.5		ng/L	P423751	
		Tebuconazole	1.4	I	ng/L	P423751	
		Terbufos	0.10	U	ng/L	P423751	
		Terbuthylazine	0.42	U	ng/L	P423751	
		Thiobencarb	0.60	U	ng/L	P423751	
		Triadimefon	0.25	U	ng/L	P423751	

Ref. Method and Comment:
SM 2320 B-2011: The sample was analyzed out of hold time because the HVAC system in the laboratory was down resulting in excessively cold temperatures.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: MS accuracy for bromacil and norflurazon not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Apollo Waterway WBranch **Collection Date/Time: 12/15/2022 09:45**

Field ID: G3SD0195 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376055	EPA 180.1 Rev. 2.0	Turbidity	6.4		NTU	P423692	
	SM 2320 B-2011	Total Alkalinity	119	Q	mg CaCO3/L	P424085	
	SM 2540 D-2015	TSS	18		mg/L	P423856	
	SM 4500-F- C-2011	Fluoride	0.49		mg F/L	P424213	
2376056	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P424223	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P423820	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P423768	
	EPA 365.1 Rev. 2.0	Total-P	0.31		mg P/L	P423794	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P423876	

Ref. Method and Comment:
SM 2320 B-2011: The sample was analyzed out of hold time because the HVAC system in the laboratory was down resulting in excessively cold temperatures.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 350.1 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: 12/15/2022 09:55**

Field ID: G3SD0070 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376046	EPA 180.1 Rev. 2.0	Turbidity	8.5		NTU	P423692	
	SM 2320 B-2011	Total Alkalinity	88	Q	mg CaCO3/L	P424085	
	SM 2540 D-2015	TSS	17		mg/L	P423856	
	SM 4500-F- C-2011	Fluoride	0.44		mg F/L	P424213	
2376048	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P424076	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P423820	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P423768	
	EPA 365.1 Rev. 2.0	Total-P	0.34		mg P/L	P423794	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P423876	
2376103	EPA 8270E	Oxybenzone**	10	U	ng/L	P423751	
		Acetochlor	0.25	U	ng/L	P423751	
		Octinoxate**	20	U	ng/L	P423751	
		Alachlor	0.25	U	ng/L	P423751	
		Avobenzone**	100	U	ng/L	P423751	
		Ametryn	0.92	I	ng/L	P423751	
		Atrazine	17		ng/L	P423751	
		PBDE-47**	4.1	U	ng/L	P423751	
		Atrazine Desethyl	1.5	U	ng/L	P423751	
		PBDE-99**	5.1	U	ng/L	P423751	
		Azinphos Methyl	2.0	U	ng/L	P423751	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P423751	
		Azoxystrobin	0.83	I	ng/L	P423751	
		Bromacil	6.8		ng/L	P423751	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P423751	
		Butylate	0.41	U	ng/L	P423751	
		Dechlorane Plus**	30	U	ng/L	P423751	
		Caffeine**	52		ng/L	P423751	
		Carbophenothion	0.20	U	ng/L	P423751	
		Carfentrazone Ethyl	0.10	U	ng/L	P423751	
		Chlorfenapyr	0.18	U	ng/L	P423751	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P423751	
		Chlorpyrifos Methyl	0.051	U	ng/L	P423751	
		Coumaphos	0.51	U	ng/L	P423751	
		Cyanazine	3.3	UJ	ng/L	P423751	LCS, MS
		Cyprodinil	0.10	U	ng/L	P423751	
		Demeton	1.5	U	ng/L	P423751	
		Diazinon	0.13	U	ng/L	P423751	
		Difenoconazole	0.61	U	ng/L	P423751	
		Dimethenamid	0.10	U	ng/L	P423751	
		Dimethomorph	0.18	U	ng/L	P423751	
		Disulfoton	0.51	U	ng/L	P423751	
		Dithiopyr	0.64	U	ng/L	P423751	
		EPTC	1.3	U	ng/L	P423751	

Field ID: G3SD0070 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376103	EPA 8270E	Ethion	0.15	U	ng/L	P423751	
		Ethoprop	0.10	U	ng/L	P423751	
		Etridiazole	0.15	U	ng/L	P423751	
		Fenamiphos	0.51	U	ng/L	P423751	
		Fenbuconazole	0.13	U	ng/L	P423751	
		Fipronil	0.25	U	ng/L	P423751	
		Fipronil Desulfinyl**	0.13	U	ng/L	P423751	
		Fipronil Sulfide	0.15	U	ng/L	P423751	
		Fipronil Sulfone	0.40	I	ng/L	P423751	
		Fluazifop-P-butyl	0.10	U	ng/L	P423751	
		Fludioxonil	0.13	U	ng/L	P423751	
		Flumioxazin	4.6	U	ng/L	P423751	
		Flutolanil	0.79		ng/L	P423751	
		Fluxapyroxad	0.10	U	ng/L	P423751	
		Fonofos	0.20	U	ng/L	P423751	
		Hexazinone	9.1		ng/L	P423751	
		Imazalil	0.76	U	ng/L	P423751	
		Iprodione	0.61	U	ng/L	P423751	
		Loratadine**	0.36	U	ng/L	P423751	
		Malathion	0.36	U	ng/L	P423751	
		Metalaxyl	2.5	I	ng/L	P423751	
		Metolachlor	29		ng/L	P423751	
		Metribuzin	1.5	U	ng/L	P423751	
		Mevinphos	1.1	U	ng/L	P423751	
		Molinate	0.30	U	ng/L	P423751	
		Myclobutanil	0.25	U	ng/L	P423751	
		Naled	1.5	U	ng/L	P423751	
		Napropamide	0.41	U	ng/L	P423751	
		Norflurazon	11		ng/L	P423751	
		Oxadiazon	0.31	I	ng/L	P423751	
		Oxyfluorfen	0.15	U	ng/L	P423751	
		Parathion Ethyl	0.25	U	ng/L	P423751	
		Parathion Methyl	0.56	U	ng/L	P423751	
		Pendimethalin	1.0	U	ng/L	P423751	
		Phenytoin**	3.6	U	ng/L	P423751	
		Phorate	0.53	U	ng/L	P423751	
		Prodiamine	0.18	U	ng/L	P423751	
		Prometon	0.91	U	ng/L	P423751	
		Prometryn	0.20	U	ng/L	P423751	
		Pronamide	0.15	U	ng/L	P423751	
		Propanil	0.13	U	ng/L	P423751	
		Propargite	1.5	U	ng/L	P423751	
		Propiconazole	0.51	U	ng/L	P423751	
		Pyraflufen Ethyl	0.25	U	ng/L	P423751	
		Pyridaben	0.46	U	ng/L	P423751	

Field ID: G3SD0070 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376103	EPA 8270E	Pyriproxyfen	0.13	U	ng/L	P423751	
		Simazine	2.5		ng/L	P423751	
		Stirophos	0.13	U	ng/L	P423751	
		Sulfentrazone	8.7		ng/L	P423751	
		Tebuconazole	1.3	I	ng/L	P423751	
		Terbufos	0.10	U	ng/L	P423751	
		Terbuthylazine	0.43	U	ng/L	P423751	
		Thiobencarb	0.61	U	ng/L	P423751	
		Triadimefon	0.25	U	ng/L	P423751	
2376109	EPA 200.7 Rev. 4.4	Calcium	122		mg/L	P423815	
		Iron	210	I	ug/L	P423815	
		Magnesium	259		mg/L	P423815	
		Strontium	3.01E+03		ug/L	P423815	
		Tin	9.0	U	ug/L	P423815	
		Titanium	2.2	U	ug/L	P423815	
		Vanadium	6.0	U	ug/L	P423815	
		Zinc	15	U	ug/L	P423815	
	EPA 200.8 Rev. 5.4	Aluminum	99		ug/L	P423815	
		Antimony	0.20	U	ug/L	P423815	
		Arsenic	2.14		ug/L	P423815	
		Beryllium	0.040	U	ug/L	P423815	
		Cadmium	0.080	U	ug/L	P423815	
		Chromium	1.6	U	ug/L	P423815	
		Cobalt	0.21	I	ug/L	P423815	
		Copper	1.6	U	ug/L	P423815	
		Lead	0.80	U	ug/L	P423815	
		Manganese	11.1		ug/L	P423815	
		Molybdenum	3.0		ug/L	P423815	
		Nickel	2.0	U	ug/L	P423815	
		Selenium	0.80	U	ug/L	P423815	
		Silver	0.040	U	ug/L	P423815	
		Thallium	0.40	U	ug/L	P423815	

Ref. Method and Comment:
SM 2320 B-2011: The sample was analyzed out of hold time because the HVAC system in the laboratory was down resulting in excessively cold temperatures.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: MS accuracy for bromacil and norflurazon not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium and magnesium are unavailable because of high analyte concentration in the QC sample.

Sample Location: MYAKKA RIVER (TIDAL) @ US 41 **Collection Date/Time: 12/15/2022 10:15**

Field ID: G3SD0068 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376051	EPA 180.1 Rev. 2.0	Turbidity	6.4		NTU	P423692	
	SM 2320 B-2011	Total Alkalinity	87		mg CaCO3/L	P423946	
	SM 2540 D-2015	TSS	11		mg/L	P423856	
	SM 4500-F- C-2011	Fluoride	0.39		mg F/L	P423951	
2376052	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P424284	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P423820	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P423771	
	EPA 365.1 Rev. 2.0	Total-P	0.30		mg P/L	P423794	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P423876	
2376105	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P423751	
		Acetochlor	0.24	U	ng/L	P423751	
		Octinoxate**	19	U	ng/L	P423751	
		Alachlor	0.24	U	ng/L	P423751	
		Avobenzone**	96	U	ng/L	P423751	
		Ametryn	0.86	I	ng/L	P423751	
		Atrazine	17		ng/L	P423751	
		PBDE-47**	3.8	U	ng/L	P423751	
		Atrazine Desethyl	1.7	I	ng/L	P423751	
		PBDE-99**	4.8	U	ng/L	P423751	
		Azinphos Methyl	1.9	U	ng/L	P423751	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P423751	
		Azoxystrobin	0.48	U	ng/L	P423751	
		Bromacil	4.9		ng/L	P423751	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	11	U	ng/L	P423751	
		Butylate	0.38	U	ng/L	P423751	
		Dechlorane Plus**	29	U	ng/L	P423751	
		Caffeine**	12	I	ng/L	P423751	
		Carbophenothion	0.19	U	ng/L	P423751	
		Carfentrazone Ethyl	0.096	U	ng/L	P423751	
		Chlorfenapyr	0.17	U	ng/L	P423751	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P423751	
		Chlorpyrifos Methyl	0.048	U	ng/L	P423751	
		Coumaphos	0.48	U	ng/L	P423751	
		Cyanazine	3.1	UJ	ng/L	P423751	LCS, MS
		Cyprodinil	0.096	U	ng/L	P423751	
		Demeton	1.4	U	ng/L	P423751	
		Diazinon	0.12	U	ng/L	P423751	
		Difenoconazole	0.57	U	ng/L	P423751	
		Dimethenamid	0.096	U	ng/L	P423751	
		Dimethomorph	0.17	U	ng/L	P423751	
		Disulfoton	0.48	U	ng/L	P423751	
		Dithiopyr	0.60	U	ng/L	P423751	
		EPTC	1.2	U	ng/L	P423751	

Field ID: G3SD0068 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376105	EPA 8270E	Ethion	0.14	U	ng/L	P423751	
		Ethoprop	0.096	U	ng/L	P423751	
		Etridiazole	0.14	U	ng/L	P423751	
		Fenamiphos	0.48	U	ng/L	P423751	
		Fenbuconazole	0.12	U	ng/L	P423751	
		Fipronil	0.24	U	ng/L	P423751	
		Fipronil Desulfinyl**	0.12	U	ng/L	P423751	
		Fipronil Sulfide	0.14	U	ng/L	P423751	
		Fipronil Sulfone	0.44	I	ng/L	P423751	
		Fluazifop-P-butyl	0.096	U	ng/L	P423751	
		Fludioxonil	0.12	U	ng/L	P423751	
		Flumioxazin	4.3	U	ng/L	P423751	
		Flutolanil	1.8		ng/L	P423751	
		Fluxapyroxad	2.1		ng/L	P423751	
		Fonofos	0.19	U	ng/L	P423751	
		Hexazinone	9.4		ng/L	P423751	
		Imazalil	0.72	U	ng/L	P423751	
		Iprodione	0.57	U	ng/L	P423751	
		Loratadine**	0.33	U	ng/L	P423751	
		Malathion	0.33	U	ng/L	P423751	
		Metalaxyl	1.5	I	ng/L	P423751	
		Metolachlor	28		ng/L	P423751	
		Metribuzin	1.4	U	ng/L	P423751	
		Mevinphos	1.0	U	ng/L	P423751	
		Molinate	0.29	U	ng/L	P423751	
		Myclobutanil	0.24	U	ng/L	P423751	
		Naled	1.4	U	ng/L	P423751	
		Napropamide	0.38	U	ng/L	P423751	
		Norflurazon	8.1		ng/L	P423751	
		Oxadiazon	0.47	I	ng/L	P423751	
		Oxyfluorfen	0.14	U	ng/L	P423751	
		Parathion Ethyl	0.24	U	ng/L	P423751	
		Parathion Methyl	0.53	U	ng/L	P423751	
		Pendimethalin	0.96	U	ng/L	P423751	
		Phenytoin**	3.3	U	ng/L	P423751	
		Phorate	0.50	U	ng/L	P423751	
		Prodiamine	0.17	U	ng/L	P423751	
		Prometon	0.86	U	ng/L	P423751	
		Prometryn	0.19	U	ng/L	P423751	
		Pronamide	0.14	U	ng/L	P423751	
		Propanil	0.12	U	ng/L	P423751	
		Propargite	1.4	U	ng/L	P423751	
		Propiconazole	0.48	U	ng/L	P423751	
		Pyraflufen Ethyl	0.24	U	ng/L	P423751	
		Pyridaben	0.43	U	ng/L	P423751	

Field ID: G3SD0068 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376105	EPA 8270E	Pyriproxyfen	0.12	U	ng/L	P423751	
		Simazine	2.3		ng/L	P423751	
		Stirophos	0.12	U	ng/L	P423751	
		Sulfentrazone	5.5		ng/L	P423751	
		Tebuconazole	0.79	I	ng/L	P423751	
		Terbufos	0.096	U	ng/L	P423751	
		Terbuthylazine	0.41	U	ng/L	P423751	
		Thiobencarb	0.57	U	ng/L	P423751	
		Triadimefon	0.24	U	ng/L	P423751	

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

Sample Location: ALLIGATOR @JACARANDA **Collection Date/Time: 12/15/2022 10:35**

Field ID: G2SD0026 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376106	EPA 8270E	Aldrin	0.67	U	ng/L	P423595	
		Alpha-BHC	0.10	U	ng/L	P423595	
		Alpha-Chlordane	0.21	U	ng/L	P423595	
		PCB-1016	2.1	U	ng/L	P423595	
		Beta-BHC	0.10	U	ng/L	P423595	
		PCB-1221	2.1	U	ng/L	P423595	
		Beta-Cyfluthrin	1.3	U	ng/L	P423595	
		PCB-1232	2.1	U	ng/L	P423595	
		Bifenthrin	0.52	U	ng/L	P423595	
		PCB-1242	2.1	U	ng/L	P423595	
		Carbophenothion	0.93	U	ng/L	P423595	
		PCB-1248	2.1	U	ng/L	P423595	
		Chlorothalonil	1.3	U	ng/L	P423595	MS
		PCB-1254	2.1	U	ng/L	P423595	
		Cis-Nonachlor	0.21	U	ng/L	P423595	
		PCB-1260	2.1	U	ng/L	P423595	
		Cypermethrin	1.6	U	ng/L	P423595	
		Dacthal	0.16	U	ng/L	P423595	
		DDD-p,p'	0.26	U	ng/L	P423595	
		DDE-p,p'	0.21	U	ng/L	P423595	
		DDT-p,p'	0.26	U	ng/L	P423595	
		Delta-BHC	0.41	U	ng/L	P423595	
		Deltamethrin	1.3	U	ng/L	P423595	
		Dichlobenil	0.26	U	ng/L	P423595	
		Dicofol	1.3	U	ng/L	P423595	
		Dieldrin	0.41	U	ng/L	P423595	
		Endosulfan I	0.41	U	ng/L	P423595	
		Endosulfan II	0.41	U	ng/L	P423595	MS
		Endosulfan Sulfate	0.31	U	ng/L	P423595	
		Endrin	0.41	U	ng/L	P423595	
		Endrin Aldehyde	0.78	U	ng/L	P423595	RPD
		Endrin Ketone	0.41	U	ng/L	P423595	
		Esfenvalerate	0.78	U	ng/L	P423595	
		Ethalfluralin	0.16	U	ng/L	P423595	
		Fenpropathrin	0.26	U	ng/L	P423595	
		Gamma-BHC	0.13	U	ng/L	P423595	
		Gamma-Chlordane	0.21	U	ng/L	P423595	
		Heptachlor	0.21	U	ng/L	P423595	
		Heptachlor Epoxide	0.26	U	ng/L	P423595	
		Hexachlorobenzene**	1.0	U	ng/L	P423595	
		Kepone	5.2	U	ng/L	P423595	
		Lambda-Cyhalothrin	0.78	U	ng/L	P423595	
		Methoprene	0.78	U	ng/L	P423595	
		Methoxychlor	0.31	U	ng/L	P423595	

Field ID: G2SD0026 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376106	EPA 8270E	MGK-264	0.21	U	ng/L	P423595	
		Mirex	0.36	U	ng/L	P423595	
		Oxychlordane	0.31	U	ng/L	P423595	
		Permethrin	1.7	U	ng/L	P423595	
		Phenothrin	0.93	U	ng/L	P423595	
		Piperonyl Butoxide	0.16	U	ng/L	P423595	
		Prallethrin	2.1	U	ng/L	P423595	
		Tau-Fluvalinate	0.26	U	ng/L	P423595	
		Tetramethrin	0.78	U	ng/L	P423595	
		Trans-Nonachlor	0.21	U	ng/L	P423595	
		Triclosan Methyl	0.16	U	ng/L	P423595	
		Trifluralin	0.21	U	ng/L	P423595	
	EPA 8276	Chlordane	2.1	U	ng/L	P423595	
		Toxaphene	16	U	ng/L	P423595	
2376107	EPA 8321B	2,4-D	0.0063	I	ug/L	P423628	
		Acesulfame K	0.10	U	ug/L	P423561	
		2,4,5-T	0.0040	U	ug/L	P423628	
		AMPA	0.31	I	ug/L	P423561	
		Acetaminophen	0.0080	U	ug/L	P423628	
		Acetamiprid	0.0020	U	ug/L	P423628	
		Endothall	0.25	U	ug/L	P423561	
		Glufosinate	0.10	U	ug/L	P423561	
		Glyphosate	1.2		ug/L	P423561	
		Afidopyropen	0.0020	U	ug/L	P423628	
		Bentazon	0.011		ug/L	P423628	
		Sucralose	1.3		ug/L	P423561	
		Benzovindiflupyr	0.0020	U	ug/L	P423628	
		Carbamazepine	0.0024	I	ug/L	P423628	
		Clothianidin	0.0020	U	ug/L	P423628	
		Dinotefuran	0.0020	U	ug/L	P423628	
		Diuron	0.0020	U	ug/L	P423628	
		Fenuron	0.032	U	ug/L	P423628	
		Fluridone	0.0080		ug/L	P423628	
		Imazapyr	0.37		ug/L	P423628	
		Hydrocodone	0.0020	U	ug/L	P423628	
		Ibuprofen	0.20	U	ug/L	P423628	
		Imidacloprid	0.018		ug/L	P423628	
		Linuron	0.0040	U	ug/L	P423628	
		Mandestrobin	0.0020	U	ug/L	P423628	
		MCPP	0.016	I	ug/L	P423628	
		Naproxen	0.0080	U	ug/L	P423628	
		Primidone	0.0088	I	ug/L	P423628	
		Pyraclostrobin	0.0020	U	ug/L	P423628	
		Silvex	0.0040	U	ug/L	P423628	
		Thiamethoxam	0.0020	U	ug/L	P423628	

Field ID: G2SD0026 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2376107	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P423628	
		Triclopyr	0.0040	U	ug/L	P423628	

Ref. Method and Comment:
EPA 8270E: Matrix spikes precision for chlorothalonil not assessed due to very low recoveries.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423692

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423815

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: P423815

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	0.29	I	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: P424076

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424223

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424284

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423820

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423768

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423769

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423771

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423794

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

Reference Method: EPA 8270E
Batch ID: P423595

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
Dacthal	0.15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423595

Component	Result	Code	Units
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423595

Component	Result	Code	Units
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 8270E
Batch ID: P423751

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423751

Component	Result	Code	Units
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
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423751

Component	Result	Code	Units
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423751

Component	Result	Code	Units
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
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423751

Component	Result	Code	Units
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
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 8276
Batch ID: P423595

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

Reference Method: EPA 8321B
Batch ID: P423561

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: P423628

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	0.20	U	ug/L
Imazapyr	0.0040	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P423628

Component	Result	Code	Units
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: P423946

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

Reference Method: SM 2320 B-2011
Batch ID: P424085

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

Reference Method: SM 2540 D-2015
Batch ID: P423856

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P423859

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P423951

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P424213

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P423876

Component	Result	Code	Units

Quality Assurance Report
Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P423876

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

Reference Method: SM 5310 B-2011
Batch ID: P424079

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: P423692

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423815

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	98.5		P	85 - 115
Iron	99.4		P	85 - 115
Magnesium	98.6		P	85 - 115
Strontium	99.2		P	85 - 115
Tin	96.0		P	85 - 115
Titanium	99.6		P	85 - 115
Vanadium	98.5		P	85 - 115
Zinc	97.4		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423815

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.8		P	85 - 115
Antimony	99.4		P	85 - 115
Arsenic	102		P	85 - 115
Beryllium	92.3		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	95.4		P	85 - 115
Cobalt	94.8		P	85 - 115
Copper	97.5		P	85 - 115
Lead	93.8		P	85 - 115
Manganese	97.0		P	85 - 115
Molybdenum	98.0		P	85 - 115
Nickel	100		P	85 - 115
Selenium	104		P	85 - 115
Silver	97.4		P	85 - 115
Thallium	97.9		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424076

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424223

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424284

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423820

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423768

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423769

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423771

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423794

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

Reference Method: EPA 8270E
Batch ID: P423595

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	38.7		P	10 - 92.0
Alpha-BHC	87.5		P	75 - 107
Alpha-Chlordane	72.8		P	50 - 108
Beta-BHC	80.6		P	36 - 138
Beta-Cyfluthrin	66.3		P	20 - 161
Bifenthrin	48.2		P	10 - 119
Carbophenothion	39.2		P	19 - 94.0
Chlorothalonil	94.8		P	26 - 186
Cis-Nonachlor	64.4		P	42 - 119
Cypermethrin	66.3		P	22 - 150
Dacthal	85.3		P	72 - 119
DDD-p,p'	65.8		P	45 - 107
DDE-p,p'	65.4		P	48 - 106
DDT-p,p'	61.8		P	48 - 110
Delta-BHC	86.2		P	54 - 140
Deltamethrin	77.9		P	22 - 189
Dichlobenil	70.3		P	36 - 117
Dicofol	69.1		P	46 - 155
Dieldrin	74.7		P	54 - 110
Endosulfan I	74.2		P	59 - 105
Endosulfan II	85.6		P	51 - 118
Endosulfan Sulfate	76.1		P	57 - 121

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P423595

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	74.7		P	10 - 120
Endrin Aldehyde	75.7		P	34 - 118
Endrin Ketone	95.1		P	69 - 177
Esfenvalerate	69.3		P	23 - 168
Ethalfluralin	72.7		P	49 - 99.0
Fenpropathrin	65.1		P	34 - 117
Gamma-BHC	91.7		P	72 - 117
Gamma-Chlordane	64.3		P	43 - 106
Heptachlor	60.1		P	41 - 98.0
Heptachlor Epoxide	75.4		P	57 - 106
Hexachlorobenzene	51.8		P	36 - 99.0
Kepone	118		P	16 - 215
Lambda-Cyhalothrin	56.0		P	21 - 177
Methoprene	53.9		P	10 - 119
Methoxychlor	75.0		P	60 - 112
MGK-264	67.5		P	26 - 122
Mirex	52.9		P	10 - 169
Oxychlordane	70.4		P	43 - 105
PCB-1016	77.9		P	48 - 112
PCB-1260	83.5		P	44 - 118
Permethrin	65.9		P	24 - 148
Phenothrin	44.0		P	10 - 106
Piperonyl Butoxide	91.4		P	10 - 139
Prallethrin	59.8		P	17 - 109
Tau-Fluvalinate	55.4		P	13 - 131
Tetramethrin	72.8		P	10 - 132
Trans-Nonachlor	63.9		P	44 - 106
Triclosan Methyl	74.3		P	59 - 109
Trifluralin	72.7		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P423751

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.5		P	42 - 162
Acetochlor	88.5		P	69 - 123
Alachlor	79.3		P	65 - 118
Ametryn	111		P	58 - 141
Atrazine	101		P	73 - 118
Atrazine Desethyl	73.6		P	32 - 125
Avobenzone	115		P	40 - 203
Azinphos Methyl	133		P	36 - 197
Azoxystrobin	101		P	58 - 226
Bromacil	107		P	48 - 120
Butylate	57.8		P	27 - 85.0
Caffeine	98.8		P	40 - 137
Carbophenothion	100		P	54 - 132
Carfentrazone Ethyl	99.0		P	60 - 142
Chlorfenapyr	63.5		P	53 - 117
Chlorpyrifos Ethyl	83.1		P	59 - 116
Chlorpyrifos Methyl	89.8		P	66 - 119
Coumaphos	225		P	11 - 234

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P423751

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cyanazine	264		F	61 - 248
Cyprodinil	95.2		P	50 - 147
Dechlorane Plus	105		P	47 - 182
Demeton	65.0		P	30 - 138
Diazinon	91.1		P	67 - 126
Difenoconazole	95.4		P	38 - 205
Dimethenamid	103		P	57 - 111
Dimethomorph	121		P	16 - 212
Disulfoton	69.3		P	46 - 126
Dithiopyr	85.2		P	62 - 115
EPTC	47.1		P	28 - 80.0
Ethion	68.8		P	24 - 122
Ethoprop	72.7		P	62 - 113
Etridiazole	43.2		P	28 - 92.0
Fenamiphos	103		P	57 - 128
Fenbuconazole	99.2		P	52 - 155
Fipronil	73.9		P	63 - 130
Fipronil Desulfinyl	101		P	61 - 130
Fipronil Sulfide	69.5		P	56 - 117
Fipronil Sulfone	99.7		P	52 - 118
Fluazifop-P-butyl	111		P	61 - 128
Fludioxonil	114		P	59 - 129
Flumioxazin	103		P	30 - 250
Flutolanil	106		P	53 - 127
Fluxapyroxad	92.4		P	42 - 132
Fonofos	77.6		P	61 - 110
Hexazinone	97.3		P	46 - 139
Imazalil	115		P	40 - 139
Iprodione	130		P	40 - 146
Loratadine	120		P	10 - 224
Malathion	86.0		P	61 - 135
Metalaxyl	115		P	58 - 121
Metolachlor	99.8		P	64 - 118
Metribuzin	96.4		P	45 - 245
Mevinphos	80.0		P	49 - 118
Molinate	57.1		P	42 - 92.0
Myclobutanil	80.2		P	55 - 127
Naled	111		P	10 - 114
Napropamide	51.5		P	39 - 121
Norflurazon	119		P	55 - 129
Octinoxate	76.2		P	26 - 166
Oxadiazon	76.4		P	54 - 115
Oxybenzone	71.6		P	49 - 135
Oxyfluorfen	74.8		P	64 - 139
Parathion Ethyl	93.6		P	70 - 111
Parathion Methyl	97.7		P	76 - 136
PBDE-47	76.5		P	41 - 148
PBDE-99	80.5		P	38 - 147
Pendimethalin	76.9		P	52 - 118
Phenytoin	25.6		P	10 - 162
Phorate	68.2		P	40 - 122
Prodiamine	86.5		P	26 - 141

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P423751

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prometon	97.6		P	54 - 122
Prometryn	89.9		P	61 - 128
Pronamide	76.1		P	72 - 121
Propanil	111		P	45 - 144
Propargite	76.2		P	10 - 199
Propiconazole	79.5		P	56 - 127
Pyraflufen Ethyl	77.6		P	56 - 140
Pyridaben	117		P	26 - 211
Pyriproxyfen	106		P	33 - 194
Simazine	91.0		P	67 - 121
Stirophos	83.4		P	20 - 142
Sulfentrazone	60.4		P	21 - 144
Tebuconazole	77.8		P	10 - 122
Terbufos	80.7		P	60 - 129
Terbuthylazine	89.9		P	69 - 113
Thiobencarb	102		P	51 - 120
Tri-o-cresyl Phosphate	80.8		P	49 - 150
Triadimefon	74.2		P	56 - 114

Reference Method: EPA 8276
Batch ID: P423595

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	95.7		P	61 - 116
Toxaphene	100		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P423561

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	74.1		P	40 - 150
AMPA	106		P	40 - 150
Endothall	97.9		P	40 - 150
Glufosinate	100		P	40 - 150
Glyphosate	98.6		P	40 - 150
Sucralose	113		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P423628

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	102		P	40 - 150
2,4,5-T	76.0		P	40 - 150
Acetaminophen	95.1		P	30 - 150
Acetamiprid	83.1		P	40 - 150
Afidopyropen	64.9		P	30 - 150
Bentazon	69.1		P	30 - 150
Benzovindiflupyr	85.1		P	40 - 150
Carbamazepine	81.2		P	40 - 150
Clothianidin	93.6		P	40 - 150
Dinotefuran	95.1		P	40 - 150
Diuron	69.3		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P423628

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fenuron	93.5		P	40 - 150
Fluridone	78.0		P	40 - 150
Hydrocodone	86.3		P	40 - 150
Ibuprofen	96.7		P	40 - 150
Imazapyr	83.6		P	40 - 150
Imidacloprid	85.4		P	40 - 150
Linuron	77.2		P	40 - 150
Mandestrobin	91.0		P	40 - 150
MCPP	102		P	40 - 150
Naproxen	87.6		P	40 - 150
Primidone	89.9		P	40 - 150
Pyraclostrobin	78.4		P	40 - 150
Silvex	82.2		P	40 - 150
Thiamethoxam	86.6		P	40 - 150
Tolfenpyrad	40.8		P	30 - 150
Triclopyr	73.2		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P423946

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.9		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P424085

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.1		P	94 - 106

Reference Method: SM 2540 D-2015
Batch ID: P423856

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	104		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P423859

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	90.2		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P423951

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P424213

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	96 - 104

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P423876

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

Reference Method: SM 5310 B-2011
Batch ID: P424079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.0		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423815

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376058	Iron	98.7	99.5	P/P	80 - 120
2376058	Strontium	96.3	95.6	P/P	80 - 120
2376058	Tin	96.6	92.0	P/P	80 - 120
2376058	Titanium	101	103	P/P	80 - 120
2376058	Vanadium	99.0	100	P/P	80 - 120
2376058	Zinc	96.7	97.9	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423815

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376058	Aluminum	109	110	P/P	70 - 130
2376058	Antimony	104	103	P/P	70 - 130
2376058	Arsenic	113	113	P/P	70 - 130
2376058	Beryllium	93.1	90.1	P/P	70 - 130
2376058	Cadmium	102	101	P/P	70 - 130
2376058	Chromium	93.0	91.2	P/P	70 - 130
2376058	Cobalt	111	110	P/P	70 - 130
2376058	Copper	108	104	P/P	70 - 130
2376058	Lead	98.6	98.4	P/P	70 - 130
2376058	Manganese	93.2	91.8	P/P	70 - 130
2376058	Molybdenum	113	114	P/P	70 - 130
2376058	Nickel	112	113	P/P	70 - 130
2376058	Selenium	108	107	P/P	70 - 130
2376058	Silver	92.3	92.1	P/P	70 - 130
2376058	Thallium	105	106	P/P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424076

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375221	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376052	Ammonia-N	98.0	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423820

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375979	Kjeldahl Nitrogen	97.2	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423768

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375165	NO2NO3-N	99.2	101	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376054	NO2NO3-N	97.0	95.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423771

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374715	NO2NO3-N	96.9	97.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423794

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376054	Total-P	103	101	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P423595

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374961	Aldrin	60.2	63.6	P/P	20 - 82.0
2374961	Alpha-BHC	93.8	89.8	P/P	71 - 109
2374961	Alpha-Chlordane	75.2	60.1	P/P	42 - 106
2374961	Beta-BHC	86.6	96.9	P/P	69 - 180
2374961	Beta-Cyfluthrin	100	107	P/P	18 - 175
2374961	Bifenthrin	88.3	88.4	P/P	21 - 128
2374961	Carbophenothion	63.6	62.9	P/P	10 - 126
2374961	Chlorothalonil	3.46	0.683	F/F	10 - 300
2374961	Cis-Nonachlor	70.5	68.3	P/P	34 - 106
2374961	Cypermethrin	112	104	P/P	22 - 158
2374961	Dacthal	85.5	85.1	P/P	54 - 116
2374961	DDD-p,p'	87.4	88.2	P/P	34 - 107
2374961	DDE-p,p'	74.8	69.9	P/P	33 - 110
2374961	DDT-p,p'	73.7	72.2	P/P	50 - 122
2374961	Delta-BHC	93.0	95.0	P/P	77 - 193
2374961	Deltamethrin	121	130	P/P	10 - 195
2374961	Dichlobenil	41.6	45.3	P/P	25 - 113
2374961	Dicofol	81.6	82.8	P/P	38 - 247
2374961	Dieldrin	79.6	79.4	P/P	45 - 118
2374961	Endosulfan I	82.3	78.1	P/P	51 - 106
2374961	Endosulfan II	98.5	126	P/F	37 - 122
2374961	Endosulfan Sulfate	72.2	78.6	P/P	43 - 132
2374961	Endrin	78.6	77.8	P/P	29 - 101
2374961	Endrin Aldehyde	47.9	24.7	P/P	19 - 110
2374961	Endrin Ketone	81.2	86.5	P/P	60 - 140
2374961	Esfenvalerate	106	110	P/P	26 - 199
2374961	Ethalfluralin	82.2	88.3	P/P	45 - 99.0
2374961	Fenpropathrin	79.3	78.8	P/P	35 - 120
2374961	Gamma-BHC	101	86.1	P/P	63 - 128
2374961	Gamma-Chlordane	76.7	72.6	P/P	40 - 104
2374961	Heptachlor	74.0	78.4	P/P	36 - 97.0
2374961	Heptachlor Epoxide	81.8	81.3	P/P	49 - 184
2374961	Hexachlorobenzene	61.6	63.4	P/P	39 - 96.0
2374961	Kepone	87.2	101	P/P	10 - 217

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P423595

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374961	Lambda-Cyhalothrin	102	132	P/P	21 - 193
2374961	Methoprene	83.1	80.7	P/P	20 - 106
2374961	Methoxychlor	88.6	88.3	P/P	53 - 118
2374961	MGK-264	52.0	52.8	P/P	40 - 118
2374961	Mirex	72.5	70.7	P/P	26 - 92.0
2374961	Oxychlordane	79.5	76.2	P/P	44 - 99.0
2374961	Permethrin	97.1	95.8	P/P	33 - 182
2374961	Phenothrin	87.7	89.0	P/P	10 - 129
2374961	Piperonyl Butoxide	68.6	71.1	P/P	10 - 211
2374961	Prallethrin	74.5	69.7	P/P	24 - 113
2374961	Tau-Fluvalinate	104	102	P/P	14 - 149
2374961	Tetramethrin	127	136	P/P	17 - 151
2374961	Trans-Nonachlor	76.8	74.6	P/P	42 - 102
2374961	Triclosan Methyl	77.7	75.5	P/P	48 - 108
2374961	Trifluralin	82.3	83.8	P/P	47 - 96.0
2375289	PCB-1016	71.9	76.7	P/P	46 - 111
2375289	PCB-1260	73.5	75.7	P/P	45 - 114

Reference Method: EPA 8270E
Batch ID: P423751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375943	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	79.6	86.8	P/P	26 - 165
2375943	Acetochlor	85.2	89.1	P/P	67 - 124
2375943	Alachlor	77.6	74.4	P/P	60 - 120
2375943	Ametryn	138	143	P/P	54 - 216
2375943	Atrazine	113	110	P/P	66 - 128
2375943	Atrazine Desethyl	65.7	72.0	P/P	15 - 122
2375943	Avobenzone	93.3	119	P/P	37 - 178
2375943	Azinphos Methyl	145	157	P/P	40 - 292
2375943	Azoxystrobin	109	126	P/P	35 - 220
2375943	Butylate	55.1	61.3	P/P	20 - 83.0
2375943	Caffeine	98.3	97.2	P/P	10 - 194
2375943	Carbophenothion	122	122	P/P	57 - 127
2375943	Carfentrazone Ethyl	108	109	P/P	51 - 141
2375943	Chlorfenapyr	80.2	80.9	P/P	46 - 111
2375943	Chlorpyrifos Ethyl	110	120	P/P	52 - 120
2375943	Chlorpyrifos Methyl	86.0	106	P/P	63 - 119
2375943	Coumaphos	217	222	P/P	10 - 228
2375943	Cyanazine	279	303	F/F	59 - 241
2375943	Cyprodinil	89.6	105	P/P	47 - 146
2375943	Dechlorane Plus	79.5	96.6	P/P	50 - 150
2375943	Demeton	70.7	79.6	P/P	40 - 136
2375943	Diazinon	99.6	119	P/P	69 - 132
2375943	Difenoconazole	192	140	P/P	57 - 258
2375943	Dimethenamid	86.3	87.3	P/P	54 - 110
2375943	Dimethomorph	109	167	P/P	28 - 210
2375943	Disulfoton	79.5	81.5	P/P	43 - 133
2375943	Dithiopyr	91.9	99.7	P/P	39 - 116
2375943	EPTC	48.7	55.8	P/P	20 - 78.0
2375943	Ethion	70.1	83.0	P/P	17 - 119
2375943	Ethoprop	84.1	112	P/P	66 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P423751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375943	Etridiazole	47.3	44.6	P/P	28 - 96.0
2375943	Fenamiphos	122	122	P/P	41 - 126
2375943	Fenbuconazole	113	131	P/P	42 - 169
2375943	Fipronil	100	91.2	P/P	61 - 132
2375943	Fipronil Desulfinyl	83.7	106	P/P	56 - 132
2375943	Fipronil Sulfide	99.3	78.4	P/P	48 - 119
2375943	Fipronil Sulfone	104	117	P/P	42 - 131
2375943	Fluazifop-P-butyl	117	130	P/P	53 - 131
2375943	Fludioxonil	107	125	P/P	56 - 127
2375943	Flumioxazin	205	204	P/P	19 - 300
2375943	Flutolanil	123	124	P/P	41 - 127
2375943	Fluxapyroxad	135	120	P/P	42 - 172
2375943	Fonofos	89.3	111	P/P	59 - 113
2375943	Hexazinone	105	116	P/P	66 - 122
2375943	Imazalil	111	117	P/P	21 - 283
2375943	Iprodione	108	104	P/P	43 - 150
2375943	Loratadine	154	161	P/P	23 - 201
2375943	Malathion	106	111	P/P	58 - 136
2375943	Metalaxyl	103	101	P/P	55 - 120
2375943	Metolachlor	91.9	84.4	P/P	57 - 121
2375943	Metribuzin	99.0	117	P/P	58 - 294
2375943	Mevinphos	94.1	102	P/P	50 - 126
2375943	Molinate	68.9	76.2	P/P	42 - 93.0
2375943	Myclobutanil	121	123	P/P	55 - 125
2375943	Naled	113	132	P/P	18 - 200
2375943	Napropamide	63.2	65.9	P/P	39 - 110
2375943	Octinoxate	63.0	77.4	P/P	21 - 159
2375943	Oxadiazon	88.4	97.3	P/P	43 - 112
2375943	Oxybenzone	62.2	73.4	P/P	41 - 142
2375943	Oxyfluorfen	88.6	95.3	P/P	64 - 153
2375943	Parathion Ethyl	106	111	P/P	69 - 114
2375943	Parathion Methyl	105	137	P/P	79 - 139
2375943	PBDE-47	63.8	76.8	P/P	27 - 144
2375943	PBDE-99	68.3	81.0	P/P	18 - 150
2375943	Pendimethalin	116	123	P/P	50 - 139
2375943	Phenytoin	72.1	59.6	P/P	10 - 146
2375943	Phorate	74.0	102	P/P	54 - 161
2375943	Prodiamine	94.0	104	P/P	30 - 161
2375943	Prometon	112	115	P/P	45 - 134
2375943	Prometryn	86.9	103	P/P	45 - 137
2375943	Pronamide	84.3	87.1	P/P	65 - 133
2375943	Propanil	99.2	123	P/P	49 - 142
2375943	Propargite	101	97.9	P/P	10 - 203
2375943	Propiconazole	106	105	P/P	38 - 146
2375943	Pyraflufen Ethyl	105	85.9	P/P	34 - 153
2375943	Pyridaben	112	128	P/P	12 - 192
2375943	Pyriproxyfen	105	120	P/P	33 - 180
2375943	Simazine	113	117	P/P	51 - 157
2375943	Stirophos	108	105	P/P	10 - 128
2375943	Sulfentrazone	147	162	P/P	53 - 186
2375943	Tebuconazole	93.5	92.8	P/P	10 - 133
2375943	Terbufos	92.2	123	P/P	65 - 139

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P423751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375943	Terbuthylazine	86.6	89.6	P/P	66 - 117
2375943	Thiobencarb	99.0	102	P/P	51 - 119
2375943	Tri-o-cresyl Phosphate	66.5	79.7	P/P	31 - 144
2375943	Triadimefon	72.9	63.5	P/P	48 - 119

Reference Method: EPA 8276
Batch ID: P423595

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375289	Chlordane	77.9	86.4	P/P	53 - 126
2375289	Toxaphene	90.6	109	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P423561

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375144	Acesulfame K	77.0	95.0	P/P	40 - 150
2375144	AMPA	99.4	99.4	P/P	40 - 150
2375144	Endothall	103	100	P/P	40 - 150
2375144	Glufosinate	111	110	P/P	40 - 150
2375144	Glyphosate	97.5	102	P/P	40 - 150
2375144	Sucralose	112	110	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P423628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375490	2,4-D	108	102	P/P	40 - 150
2375490	2,4,5-T	80.2	74.0	P/P	40 - 150
2375490	Acetaminophen	103	100	P/P	30 - 150
2375490	Acetamiprid	87.9	83.9	P/P	40 - 150
2375490	Afidopyropen	64.1	70.2	P/P	30 - 150
2375490	Bentazon	70.5	75.8	P/P	30 - 150
2375490	Benzovindiflupyr	93.9	88.2	P/P	40 - 150
2375490	Carbamazepine	86.2	83.4	P/P	40 - 150
2375490	Clothianidin	100	103	P/P	40 - 150
2375490	Dinotefuran	103	97.9	P/P	40 - 150
2375490	Diuron	79.8	76.3	P/P	40 - 150
2375490	Fenuron	100	101	P/P	40 - 150
2375490	Fluridone	78.9	81.6	P/P	40 - 150
2375490	Hydrocodone	90.1	92.1	P/P	40 - 150
2375490	Ibuprofen	99.9	92.6	P/P	40 - 150
2375490	Imazapyr	90.6	89.4	P/P	40 - 150
2375490	Imidacloprid	92.5	91.9	P/P	40 - 150
2375490	Linuron	81.9	80.5	P/P	40 - 150
2375490	Mandestrobin	94.3	99.3	P/P	40 - 150
2375490	MCPP	105	96.5	P/P	40 - 150
2375490	Naproxen	89.4	66.8	P/P	40 - 150
2375490	Primidone	95.7	95.6	P/P	40 - 150
2375490	Pyraclostrobin	88.7	85.3	P/P	40 - 150
2375490	Silvex	78.6	88.1	P/P	40 - 150
2375490	Thiamethoxam	95.2	95.2	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P423628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375490	Tolfenpyrad	50.0	42.3	P/P	30 - 150
2375490	Triclopyr	87.9	74.1	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P423951

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375528	Fluoride	100	99.5	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P424213

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375965	Fluoride	98.2	98.8	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P423876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376454	Organic Carbon	96.4	98.3	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P424079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376054	Organic Carbon	88.6	88.5	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423692

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375970	Turbidity	4.51	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423815

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376058	Calcium	0.0143	Spike	P	0 - 20
2376058	Iron	0.785	Spike	P	0 - 20
2376058	Magnesium	0.195	Spike	P	0 - 20
2376058	Strontium	0.414	Spike	P	0 - 20
2376058	Tin	4.94	Spike	P	0 - 20
2376058	Titanium	1.80	Spike	P	0 - 20
2376058	Vanadium	1.36	Spike	P	0 - 20
2376058	Zinc	1.17	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423815

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376058	Aluminum	1.48	Spike	P	0 - 20
2376058	Antimony	0.810	Spike	P	0 - 20
2376058	Arsenic	0.204	Spike	P	0 - 20
2376058	Beryllium	3.31	Spike	P	0 - 20
2376058	Cadmium	1.00	Spike	P	0 - 20
2376058	Chromium	1.91	Spike	P	0 - 20
2376058	Cobalt	1.03	Spike	P	0 - 20
2376058	Copper	1.13	Spike	P	0 - 20
2376058	Lead	0.210	Spike	P	0 - 20
2376058	Manganese	1.30	Spike	P	0 - 20
2376058	Molybdenum	0.330	Spike	P	0 - 20
2376058	Nickel	0.601	Spike	P	0 - 20
2376058	Selenium	1.02	Spike	P	0 - 20
2376058	Silver	0.220	Spike	P	0 - 20
2376058	Thallium	0.368	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424076

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375221	Ammonia-N	0.567	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424223

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375177	Ammonia-N	0.327	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376052	Ammonia-N	2.09	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423820

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375979	Kjeldahl Nitrogen	3.09	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423768

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375165	NO2NO3-N	1.41	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376054	NO2NO3-N	1.52	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423771

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374715	NO2NO3-N	0.995	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423794

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376054	Total-P	1.46	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P423595

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374961	Aldrin	5.48	Spike	P	0 - 41
2374961	Alpha-BHC	4.41	Spike	P	0 - 25
2374961	Alpha-Chlordane	22.3	Spike	P	0 - 33
2374961	Beta-BHC	11.2	Spike	P	0 - 36
2374961	Beta-Cyfluthrin	6.39	Spike	P	0 - 42
2374961	Bifenthrin	0.0442	Spike	P	0 - 53
2374961	Carbophenothion	1.11	Spike	P	0 - 49
2374961	Cis-Nonachlor	3.15	Spike	P	0 - 29
2374961	Cypermethrin	7.53	Spike	P	0 - 40

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P423595

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374961	Dacthal	0.507	Spike	P	0 - 26
2374961	DDD-p,p'	0.908	Spike	P	0 - 39
2374961	DDE-p,p'	6.73	Spike	P	0 - 33
2374961	DDT-p,p'	2.07	Spike	P	0 - 40
2374961	Delta-BHC	2.11	Spike	P	0 - 37
2374961	Deltamethrin	7.25	Spike	P	0 - 100
2374961	Dichlobenil	8.53	Spike	P	0 - 40
2374961	Dicofol	1.49	Spike	P	0 - 31
2374961	Dieldrin	0.192	Spike	P	0 - 27
2374961	Endosulfan I	5.21	Spike	P	0 - 23
2374961	Endosulfan II	24.1	Spike	P	0 - 28
2374961	Endosulfan Sulfate	8.43	Spike	P	0 - 38
2374961	Endrin	1.09	Spike	P	0 - 63
2374961	Endrin Aldehyde	63.9	Spike	F	0 - 60
2374961	Endrin Ketone	6.34	Spike	P	0 - 37
2374961	Esfenvalerate	3.44	Spike	P	0 - 52
2374961	Ethalfluralin	7.06	Spike	P	0 - 23
2374961	Fenpropathrin	0.591	Spike	P	0 - 32
2374961	Gamma-BHC	15.9	Spike	P	0 - 17
2374961	Gamma-Chlordane	5.47	Spike	P	0 - 40
2374961	Heptachlor	5.74	Spike	P	0 - 29
2374961	Heptachlor Epoxide	0.580	Spike	P	0 - 25
2374961	Hexachlorobenzene	2.88	Spike	P	0 - 36
2374961	Kepone	14.8	Spike	P	0 - 93
2374961	Lambda-Cyhalothrin	25.6	Spike	P	0 - 55
2374961	Methoprene	2.98	Spike	P	0 - 53
2374961	Methoxychlor	0.362	Spike	P	0 - 29
2374961	MGK-264	1.64	Spike	P	0 - 35
2374961	Mirex	2.60	Spike	P	0 - 46
2374961	Oxychlordane	4.18	Spike	P	0 - 29
2374961	Permethrin	1.37	Spike	P	0 - 44
2374961	Phenothrin	1.52	Spike	P	0 - 56
2374961	Piperonyl Butoxide	3.60	Spike	P	0 - 100
2374961	Prallethrin	6.65	Spike	P	0 - 42
2374961	Tau-Fluvalinate	2.30	Spike	P	0 - 54
2374961	Tetramethrin	6.48	Spike	P	0 - 51
2374961	Trans-Nonachlor	2.93	Spike	P	0 - 37
2374961	Triclosan Methyl	2.86	Spike	P	0 - 31
2374961	Trifluralin	1.86	Spike	P	0 - 30
2375289	PCB-1016	6.43	Spike	P	0 - 32
2375289	PCB-1260	2.92	Spike	P	0 - 31

Reference Method: EPA 8270E
Batch ID: P423751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375943	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	8.66	Spike	P	0 - 37
2375943	Acetochlor	4.53	Spike	P	0 - 28
2375943	Alachlor	4.22	Spike	P	0 - 30
2375943	Ametryn	3.80	Spike	P	0 - 32

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P423751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375943	Atrazine	1.82	Spike	P	0 - 41
2375943	Atrazine Desethyl	9.09	Spike	P	0 - 36
2375943	Avobenzone	24.4	Spike	P	0 - 36
2375943	Azinphos Methyl	7.69	Spike	P	0 - 75
2375943	Azoxystrobin	14.4	Spike	P	0 - 39
2375943	Bromacil	14.5	Spike	P	0 - 33
2375943	Butylate	10.7	Spike	P	0 - 44
2375943	Caffeine	1.08	Spike	P	0 - 74
2375943	Carbophenothion	0.388	Spike	P	0 - 25
2375943	Carfentrazone Ethyl	0.720	Spike	P	0 - 27
2375943	Chlorfenapyr	0.885	Spike	P	0 - 24
2375943	Chlorpyrifos Ethyl	8.69	Spike	P	0 - 26
2375943	Chlorpyrifos Methyl	20.6	Spike	P	0 - 26
2375943	Coumaphos	2.20	Spike	P	0 - 28
2375943	Cyanazine	8.25	Spike	P	0 - 48
2375943	Cyprodinil	15.6	Spike	P	0 - 29
2375943	Dechlorane Plus	19.4	Spike	P	0 - 30
2375943	Demeton	11.9	Spike	P	0 - 33
2375943	Diazinon	17.5	Spike	P	0 - 29
2375943	Difenoconazole	31.6	Spike	P	0 - 34
2375943	Dimethenamid	1.18	Spike	P	0 - 39
2375943	Dimethomorph	42.2	Spike	P	0 - 51
2375943	Disulfoton	2.53	Spike	P	0 - 30
2375943	Dithiopyr	8.10	Spike	P	0 - 26
2375943	EPTC	13.5	Spike	P	0 - 43
2375943	Ethion	16.8	Spike	P	0 - 79
2375943	Ethoprop	28.7	Spike	P	0 - 29
2375943	Etridiazole	6.05	Spike	P	0 - 33
2375943	Fenamiphos	0.00973	Spike	P	0 - 40
2375943	Fenbuconazole	15.0	Spike	P	0 - 74
2375943	Fipronil	8.10	Spike	P	0 - 29
2375943	Fipronil Desulfinyl	23.5	Spike	P	0 - 32
2375943	Fipronil Sulfide	21.4	Spike	P	0 - 30
2375943	Fipronil Sulfone	8.99	Spike	P	0 - 33
2375943	Fluazifop-P-butyl	10.6	Spike	P	0 - 38
2375943	Fludioxonil	15.4	Spike	P	0 - 29
2375943	Flumioxazin	0.675	Spike	P	0 - 51
2375943	Flutolanil	0.696	Spike	P	0 - 25
2375943	Fluxapyroxad	12.0	Spike	P	0 - 45
2375943	Fonofos	22.1	Spike	P	0 - 27
2375943	Hexazinone	8.63	Spike	P	0 - 30
2375943	Imazalil	5.31	Spike	P	0 - 100
2375943	Iprodione	4.09	Spike	P	0 - 33
2375943	Loratadine	4.75	Spike	P	0 - 56
2375943	Malathion	4.26	Spike	P	0 - 37
2375943	Metalaxyl	1.17	Spike	P	0 - 40
2375943	Metolachlor	5.45	Spike	P	0 - 29
2375943	Metribuzin	16.3	Spike	P	0 - 45
2375943	Mevinphos	8.06	Spike	P	0 - 29
2375943	Molinate	10.1	Spike	P	0 - 33
2375943	Myclobutanil	1.65	Spike	P	0 - 26

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P423751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375943	Naled	15.7	Spike	P	0 - 37
2375943	Napropamide	4.12	Spike	P	0 - 44
2375943	Norflurazon	13.3	Spike	P	0 - 30
2375943	Octinoxate	20.6	Spike	P	0 - 45
2375943	Oxadiazon	9.57	Spike	P	0 - 28
2375943	Oxybenzone	16.6	Spike	P	0 - 46
2375943	Oxyfluorfen	7.27	Spike	P	0 - 28
2375943	Parathion Ethyl	4.61	Spike	P	0 - 31
2375943	Parathion Methyl	26.7	Spike	P	0 - 29
2375943	PBDE-47	18.5	Spike	P	0 - 36
2375943	PBDE-99	17.1	Spike	P	0 - 40
2375943	Pendimethalin	5.84	Spike	P	0 - 33
2375943	Phenytoin	18.9	Spike	P	0 - 100
2375943	Phorate	31.6	Spike	P	0 - 36
2375943	Prodiamine	9.15	Spike	P	0 - 71
2375943	Prometon	2.56	Spike	P	0 - 36
2375943	Prometryn	17.3	Spike	P	0 - 28
2375943	Pronamide	3.29	Spike	P	0 - 24
2375943	Propanil	21.2	Spike	P	0 - 28
2375943	Propargite	3.46	Spike	P	0 - 43
2375943	Propiconazole	1.04	Spike	P	0 - 33
2375943	Pyraflufen Ethyl	20.2	Spike	P	0 - 29
2375943	Pyridaben	13.9	Spike	P	0 - 30
2375943	Pyriproxyfen	14.0	Spike	P	0 - 79
2375943	Simazine	2.79	Spike	P	0 - 29
2375943	Stirophos	2.79	Spike	P	0 - 61
2375943	Sulfentrazone	8.78	Spike	P	0 - 33
2375943	Tebuconazole	0.717	Spike	P	0 - 69
2375943	Terbufos	28.3	Spike	P	0 - 29
2375943	Terbuthylazine	3.43	Spike	P	0 - 32
2375943	Thiobencarb	3.17	Spike	P	0 - 26
2375943	Tri-o-cresyl Phosphate	18.0	Spike	P	0 - 33
2375943	Triadimefon	13.8	Spike	P	0 - 28

Reference Method: EPA 8276
Batch ID: P423595

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375289	Chlordane	7.72	Spike	P	0 - 25
2375289	Toxaphene	8.92	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P423561

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375144	Acesulfame K	21.0	Spike	P	0 - 30
2375144	AMPA	0.00724	Spike	P	0 - 30
2375144	Endothall	2.13	Spike	P	0 - 30
2375144	Glufosinate	0.419	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P423561

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375144	Glyphosate	4.40	Spike	P	0 - 30
2375144	Sucralose	0.765	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P423628

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375490	2,4-D	6.37	Spike	P	0 - 30
2375490	2,4,5-T	8.04	Spike	P	0 - 30
2375490	Acetaminophen	3.22	Spike	P	0 - 30
2375490	Acetamiprid	4.61	Spike	P	0 - 30
2375490	Afidopyropen	9.12	Spike	P	0 - 30
2375490	Bentazon	7.20	Spike	P	0 - 30
2375490	Benzovindiflupyr	6.34	Spike	P	0 - 30
2375490	Carbamazepine	3.33	Spike	P	0 - 30
2375490	Clothianidin	2.29	Spike	P	0 - 30
2375490	Dinotefuran	4.92	Spike	P	0 - 30
2375490	Diuron	4.49	Spike	P	0 - 30
2375490	Fenuron	0.949	Spike	P	0 - 30
2375490	Fluridone	3.36	Spike	P	0 - 30
2375490	Hydrocodone	2.16	Spike	P	0 - 30
2375490	Ibuprofen	7.56	Spike	P	0 - 30
2375490	Imazapyr	1.32	Spike	P	0 - 30
2375490	Imidacloprid	0.616	Spike	P	0 - 30
2375490	Linuron	1.69	Spike	P	0 - 30
2375490	Mandestrobin	5.14	Spike	P	0 - 30
2375490	MCPP	8.12	Spike	P	0 - 30
2375490	Naproxen	29.0	Spike	P	0 - 30
2375490	Primidone	0.111	Spike	P	0 - 30
2375490	Pyraclostrobin	3.99	Spike	P	0 - 30
2375490	Silvex	11.4	Spike	P	0 - 30
2375490	Thiamethoxam	0.0381	Spike	P	0 - 30
2375490	Tolfenpyrad	16.5	Spike	P	0 - 30
2375490	Triclopyr	17.0	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P423946

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375528	Total Alkalinity	0.302	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011
Batch ID: P424085

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376772	Total Alkalinity	1.32	Sample	P	0 - 3.8

Quality Assurance Report
Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P423951

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375528	Fluoride	0.477	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P424213

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375965	Fluoride	0.464	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P423876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376454	Organic Carbon	1.31	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P424079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376054	Organic Carbon	0.130	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2376102
Field Sample ID: G3SD0071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	50.6	P	20 - 200
EPA 8270E	Simazine-d10	88.8	P	62 - 142
EPA 8270E	Terbufos-d10	125	P	58 - 132
EPA 8270E	Terphenyl-d14	74.0	P	52 - 137

Lab Sample ID: 2376103
Field Sample ID: G3SD0070

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	57.8	P	20 - 200
EPA 8270E	Simazine-d10	91.2	P	62 - 142
EPA 8270E	Terbufos-d10	119	P	58 - 132
EPA 8270E	Terphenyl-d14	78.2	P	52 - 137

Lab Sample ID: 2376104
Field Sample ID: G3SD0208

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	60.5	P	20 - 200
EPA 8270E	Simazine-d10	117	P	62 - 142
EPA 8270E	Terbufos-d10	124	P	58 - 132
EPA 8270E	Terphenyl-d14	83.7	P	52 - 137

Lab Sample ID: 2376105
Field Sample ID: G3SD0068

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	62.2	P	20 - 200
EPA 8270E	Simazine-d10	106	P	62 - 142
EPA 8270E	Terbufos-d10	122	P	58 - 132
EPA 8270E	Terphenyl-d14	80.2	P	52 - 137

Lab Sample ID: 2376106
Field Sample ID: G2SD0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	107	P	29 - 130
EPA 8270E	Decachlorobiphenyl	71.7	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	74.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	58.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	55.2	P	30 - 101
EPA 8276	PCNB	84.9	P	48 - 121

Lab Sample ID: 2376107
Field Sample ID: G2SD0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	101	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.5	P	30 - 160
EPA 8321B	Diuron-d6	57.2	P	30 - 160
EPA 8321B	Endothall-d6	104	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2376107
Field Sample ID: G2SD0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	73.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	84.7	P	30 - 160
EPA 8321B	Primidone-d5	80.4	P	30 - 160
EPA 8321B	Sucralose-d6	65.8	P	30 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A116515
Included Lab Sample IDs: 2376045, 2376046, 2376049, 2376051, 2376053, 2376055

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

Reference Method: EPA 8321B
Run ID: A116536
Included Lab Sample IDs: 2376107

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	90.5	89.7	P/P	60 - 160
Sucralose	114	110	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A116538
Included Lab Sample IDs: 2376107

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	110	93.6	P/P	60 - 160
Endothall	99.3	96.3	P/P	60 - 160
Glufosinate	106	98.2	P/P	60 - 160
Glyphosate	98.4	100	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A116570
Included Lab Sample IDs: 2376047, 2376048, 2376050, 2376052, 2376054, 2376056

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	95.5	94.0	P/P	90 - 110
NO2NO3-N	97.5	95.5	P/P	90 - 110
NO2NO3-N	99.0	97.5	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A116588
Included Lab Sample IDs: 2376106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.9		P	80 - 120
PCB-1260	102		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A116614
Included Lab Sample IDs: 2376048, 2376050, 2376052, 2376056

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.6	99.6	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A116617
Included Lab Sample IDs: 2376106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.0		P	80 - 120
Toxaphene	97.4		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A116618
Included Lab Sample IDs: 2376106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.0		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	100		P	80 - 120
Beta-BHC	99.1		P	80 - 120
Beta-Cyfluthrin	100		P	80 - 120
Bifenthrin	99.2		P	80 - 120
Carbophenothion	95.9		P	80 - 120
Chlorothalonil	111		P	80 - 120
Cis-Nonachlor	103		P	80 - 120
Cypermethrin	95.8		P	80 - 120
Dacthal	98.8		P	80 - 120
DDD-p,p'	102		P	80 - 120
DDE-p,p'	99.5		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	99.8		P	80 - 120
Deltamethrin	102		P	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	97.6		P	80 - 120
Dieldrin	98.5		P	80 - 120
Endosulfan I	98.1		P	80 - 120
Endosulfan II	107		P	80 - 120
Endosulfan Sulfate	99.0		P	80 - 120
Endrin	95.6		P	80 - 120
Endrin Aldehyde	93.0		P	80 - 120
Endrin Ketone	107		P	80 - 120
Esfenvalerate	105		P	80 - 120
Ethalfluralin	99.3		P	80 - 120
Fenpropathrin	98.3		P	80 - 120
Gamma-BHC	96.5		P	80 - 120
Gamma-Chlordane	98.2		P	80 - 120
Heptachlor	98.6		P	80 - 120
Heptachlor Epoxide	100		P	80 - 120
Hexachlorobenzene	99.2		P	80 - 120
Kepone	90.9		P	80 - 120
Lambda-Cyhalothrin	120		P	80 - 120
Methoprene	102		P	80 - 120
Methoxychlor	97.9		P	80 - 120
MGK-264	98.5		P	80 - 120
Mirex	102		P	80 - 120
Oxychlordane	100		P	80 - 120
Permethrin	99.3		P	80 - 120
Phenothrin	98.3		P	80 - 120
Piperonyl Butoxide	86.4		P	80 - 120
Prallethrin	97.4		P	80 - 120
Tau-Fluvalinate	99.7		P	80 - 120
Tetramethrin	95.3		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	100		P	80 - 120
Trifluralin	99.1		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A116628
Included Lab Sample IDs: 2376047, 2376048, 2376050, 2376052, 2376054, 2376056

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	101	P/P	90 - 110
Total-P	101	102	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A116648
Included Lab Sample IDs: 2376102, 2376103, 2376104, 2376105

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101		P	80 - 120
Avobenzone	109		P	80 - 120
Dechlorane Plus	101		P	80 - 120
Octinoxate	91.7		P	80 - 120
Oxybenzone	92.3		P	80 - 120
PBDE-47	95.8		P	80 - 120
PBDE-99	99.6		P	80 - 120
Tri-o-cresyl Phosphate	94.8		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A116652
Included Lab Sample IDs: 2376051

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.6	98.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A116652
Included Lab Sample IDs: 2376051

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	107	108	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A116658
Included Lab Sample IDs: 2376102, 2376103, 2376104, 2376105

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	89.9		P	80 - 120
Alachlor	96.2		P	80 - 120
Ametryn	97.6		P	80 - 120
Atrazine	104		P	80 - 120
Atrazine Desethyl	111		P	80 - 120
Azinphos Methyl	84.7		P	80 - 120
Azoxystrobin	90.3		P	80 - 120
Bromacil	115		P	80 - 120
Butylate	99.9		P	80 - 120
Caffeine	98.8		P	80 - 120
Carbophenothion	110		P	80 - 120
Chlorfenapyr	97.6		P	80 - 120
Chlorpyrifos Ethyl	118		P	80 - 120
Chlorpyrifos Methyl	88.4		P	80 - 120
Coumaphos	89.3		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A116658
Included Lab Sample IDs: 2376102, 2376103, 2376104, 2376105

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cyprodinil	99.3		P	80 - 120
Demeton	87.3		P	80 - 120
Diazinon	90.2		P	80 - 120
Difenoconazole	84.4		P	80 - 120
Dimethenamid	108		P	80 - 120
Dimethomorph	82.6		P	80 - 120
Disulfoton	87.9		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	105		P	80 - 120
Ethion	98.9		P	80 - 120
Ethoprop	119		P	80 - 120
Etridiazole	83.7		P	80 - 120
Fenamiphos	108		P	80 - 120
Fenbuconazole	83.6		P	80 - 120
Fipronil	114		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	113		P	80 - 120
Fludioxonil	102		P	80 - 120
Flumioxazin	112		P	80 - 120
Flutolanil	107		P	80 - 120
Fluxapyroxad	92.2		P	80 - 120
Fonofos	97.8		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	115		P	80 - 120
Iprodione	93.2		P	80 - 120
Loratadine	86.9		P	80 - 120
Malathion	100		P	80 - 120
Metalaxyl	120		P	80 - 120
Metolachlor	120		P	80 - 120
Metribuzin	104		P	80 - 120
Molinate	94.5		P	80 - 120
Myclobutanil	95.0		P	80 - 120
Naled	118		P	80 - 120
Napropamide	87.1		P	80 - 120
Norflurazon	118		P	80 - 120
Oxadiazon	99.6		P	80 - 120
Oxyfluorfen	87.3		P	80 - 120
Parathion Ethyl	93.4		P	80 - 120
Parathion Methyl	81.6		P	80 - 120
Pendimethalin	109		P	80 - 120
Phenytoin	115		P	80 - 120
Phorate	119		P	80 - 120
Prodiamine	106		P	80 - 120
Prometon	90.1		P	80 - 120
Prometryn	112		P	80 - 120
Pronamide	80.8		P	80 - 120
Propanil	100		P	80 - 120
Propargite	108		P	80 - 120
Propiconazole	117		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A116658
Included Lab Sample IDs: 2376102, 2376103, 2376104, 2376105

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraflufen Ethyl	97.8		P	80 - 120
Pyridaben	81.9		P	80 - 120
Pyriproxyfen	88.3		P	80 - 120
Simazine	108		P	80 - 120
Stirophos	102		P	80 - 120
Sulfentrazone	100		P	80 - 120
Tebuconazole	108		P	80 - 120
Terbufos	92.8		P	80 - 120
Terbuthylazine	106		P	80 - 120
Thiobencarb	106		P	80 - 120
Triadimefon	114		P	80 - 120

Reference Method: EPA 8270E
Run ID: A116679
Included Lab Sample IDs: 2376102, 2376103, 2376104, 2376105

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carfentrazone Ethyl	92.2		P	80 - 120
Cyanazine	97.5		P	80 - 120
Fluxapyroxad	98.3		P	80 - 120
Mevinphos	93.5		P	80 - 120

Reference Method: EPA 8321B
Run ID: A116684
Included Lab Sample IDs: 2376107

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	105	102	P/P	50 - 150
2,4,5-T	107	110	P/P	50 - 150
Acetaminophen	111	111	P/P	60 - 160
Acetamiprid	101	102	P/P	50 - 150
Afidopyropen	77.9	76.3	P/P	50 - 150
Bentazon	95.2	96.1	P/P	50 - 160
Benzovindiflupyr	112	112	P/P	50 - 150
Carbamazepine	94.6	102	P/P	60 - 150
Clothianidin	107	110	P/P	60 - 150
Dinotefuran	108	102	P/P	50 - 150
Diuron	107	110	P/P	60 - 160
Fenuron	99.3	99.2	P/P	60 - 150
Fluridone	101	106	P/P	60 - 160
Hydrocodone	100	100	P/P	60 - 150
Ibuprofen	103	90.0	P/P	50 - 160
Imazapyr	96.5	102	P/P	50 - 150
Imidacloprid	92.4	93.9	P/P	60 - 150
Linuron	94.4	95.9	P/P	60 - 150
Mandestrobin	106	100	P/P	50 - 150
MCPP	96.8	103	P/P	50 - 150
Naproxen	89.1	138	P/P	50 - 160
Primidone	100	96.8	P/P	60 - 150
Pyraclostrobin	122	118	P/P	60 - 150
Silvex	105	107	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A116684
Included Lab Sample IDs: 2376107

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Thiamethoxam	106	101	P/P	50 - 150
Tolfenpyrad	95.4	102	P/P	60 - 150
Triclopyr	114	98.4	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A116710
Included Lab Sample IDs: 2376047, 2376048, 2376050, 2376052, 2376054, 2376056

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.8	94.2	P/P	90 - 110
Kjeldahl Nitrogen	98.3	95.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A116711
Included Lab Sample IDs: 2376047, 2376048, 2376050, 2376054

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.2	97.5	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A116712
Included Lab Sample IDs: 2376047, 2376054

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.9	94.7	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A116713
Included Lab Sample IDs: 2376045, 2376046, 2376049, 2376053, 2376055

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.2	97.2	P/P	90 - 110
Total Alkalinity	97.2	95.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A116769
Included Lab Sample IDs: 2376045, 2376046, 2376049, 2376053, 2376055

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.6	99.0	P/P	90 - 110
Fluoride	99.0	97.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A116773
Included Lab Sample IDs: 2376056

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.4	99.7	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A116800
Included Lab Sample IDs: 2376052

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.1	96.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A116863
Included Lab Sample IDs: 2376108, 2376109, 2376110

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.7	101	P/P	90 - 110
Antimony	98.5	98.6	P/P	90 - 110
Arsenic	102	104	P/P	90 - 110
Beryllium	96.2	97.3	P/P	90 - 110
Cadmium	99.5	101	P/P	90 - 110
Chromium	95.3	95.1	P/P	90 - 110
Cobalt	96.7	101	P/P	90 - 110
Copper	100	104	P/P	90 - 110
Lead	90.3	91.2	P/P	90 - 110
Manganese	98.7	99.3	P/P	90 - 110
Molybdenum	98.3	99.5	P/P	90 - 110
Nickel	101	105	P/P	90 - 110
Selenium	103	106	P/P	90 - 110
Silver	96.1	97.5	P/P	90 - 110
Thallium	98.6	99.0	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A116909
Included Lab Sample IDs: 2376108, 2376109, 2376110

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	95.6	97.1	P/P	90 - 110
Iron	97.3	101	P/P	90 - 110
Magnesium	98.4	102	P/P	90 - 110
Strontium	97.2	98.4	P/P	90 - 110
Tin	95.0	94.5	P/P	90 - 110
Titanium	96.1	97.2	P/P	90 - 110
Vanadium	95.3	96.5	P/P	90 - 110
Zinc	90.7	91.1	P/P	90 - 110

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity	101				4.51	
EPA 200.7 Rev. 4.4	Calcium	98.5					0.0143
	Iron	99.4	98.7	99.5			0.785
	Magnesium	98.6					0.195
	Strontium	99.2	96.3	95.6			0.414
	Tin	96.0	96.6	92.0			4.94
	Titanium	99.6	101	103			1.80
	Vanadium	98.5	99.0	100			1.36
	Zinc	97.4	96.7	97.9			1.17
EPA 200.8 Rev. 5.4	Aluminum	97.8	109	110			1.48
	Antimony	99.4	104	103			0.810
	Arsenic	102	113	113			0.204
	Beryllium	92.3	93.1	90.1			3.31
	Cadmium	102	102	101			1.00
	Chromium	95.4	93.0	91.2			1.91
	Cobalt	94.8	111	110			1.03
	Copper	97.5	108	104			1.13
	Lead	93.8	98.6	98.4			0.210
	Manganese	97.0	93.2	91.8			1.30
	Molybdenum	98.0	113	114			0.330
	Nickel	100	112	113			0.601
	Selenium	104	108	107			1.02
	Silver	97.4	92.3	92.1			0.220
	Thallium	97.9	105	106			0.368
EPA 350.1 Rev. 2.0	Ammonia-N	96.8	101	102			0.567
	Ammonia-N	98.2					0.327
	Ammonia-N	98.4	98.0	101			2.09
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	97.2	100			3.09
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	99.2	101			1.41
	NO2NO3-N	95.5	97.0	95.5			1.52
	NO2NO3-N	95.5	96.9	97.9			0.995
EPA 365.1 Rev. 2.0	Total-P	103	103	101			1.46
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.5	79.6	86.8			8.66
	Acetochlor	88.5	85.2	89.1			4.53
	Alachlor	79.3	77.6	74.4			4.22
	Aldrin	38.7	60.2	63.6			5.48
	Alpha-BHC	87.5	93.8	89.8			4.41
	Alpha-Chlordane	72.8	75.2	60.1			22.3
	Ametryn	111	138	143			3.80
	Atrazine	101	113	110			1.82
	Atrazine Desethyl	73.6	65.7	72.0			9.09
	Avobenzone	115	93.3	119			24.4
	Azinphos Methyl	133	145	157			7.69
	Azoxystrobin	101	109	126			14.4
	Beta-BHC	80.6	86.6	96.9			11.2
	Beta-Cyfluthrin	66.3	100	107			6.39
	Bifenthrin	48.2	88.3	88.4			0.0442
	Bromacil	107					14.5
	Butylate	57.8	55.1	61.3			10.7
	Caffeine	98.8	98.3	97.2			1.08
	Carbophenothion	39.2	63.6	62.9			1.11
	Carbophenothion	100	122	122			0.388

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Carfentrazone Ethyl	99.0	108	109			0.720
	Chlorfenapyr	63.5	80.2	80.9			0.885
	Chlorothalonil	94.8	3.46	0.683			
	Chlorpyrifos Ethyl	83.1	110	120			8.69
	Chlorpyrifos Methyl	89.8	86.0	106			20.6
	Cis-Nonachlor	64.4	70.5	68.3			3.15
	Coumaphos	225	217	222			2.20
	Cyanazine	264	279	303			8.25
	Cypermethrin	66.3	112	104			7.53
	Cyprodinil	95.2	89.6	105			15.6
	Dacthal	85.3	85.5	85.1			0.507
	DDD-p,p'	65.8	87.4	88.2			0.908
	DDE-p,p'	65.4	74.8	69.9			6.73
	DDT-p,p'	61.8	73.7	72.2			2.07
	Dechlorane Plus	105	79.5	96.6			19.4
	Delta-BHC	86.2	93.0	95.0			2.11
	Deltamethrin	77.9	121	130			7.25
	Demeton	65.0	70.7	79.6			11.9
	Diazinon	91.1	99.6	119			17.5
	Dichlobenil	70.3	41.6	45.3			8.53
	Dicofol	69.1	81.6	82.8			1.49
	Dieldrin	74.7	79.6	79.4			0.192
	Difenoconazole	95.4	192	140			31.6
	Dimethenamid	103	86.3	87.3			1.18
	Dimethomorph	121	109	167			42.2
	Disulfoton	69.3	79.5	81.5			2.53
	Dithiopyr	85.2	91.9	99.7			8.10
	Endosulfan I	74.2	82.3	78.1			5.21
	Endosulfan II	85.6	98.5	126			24.1
	Endosulfan Sulfate	76.1	72.2	78.6			8.43
	Endrin	74.7	78.6	77.8			1.09
	Endrin Aldehyde	75.7	47.9	24.7			63.9
	Endrin Ketone	95.1	81.2	86.5			6.34
	EPTC	47.1	48.7	55.8			13.5
	Esfenvalerate	69.3	106	110			3.44
	Ethalfluralin	72.7	82.2	88.3			7.06
	Ethion	68.8	70.1	83.0			16.8
	Ethoprop	72.7	84.1	112			28.7
	Etridiazole	43.2	47.3	44.6			6.05
	Fenamiphos	103	122	122			0.0097
	Fenbuconazole	99.2	113	131			15.0
	Fenpropathrin	65.1	79.3	78.8			0.591
	Fipronil	73.9	100	91.2			8.10
	Fipronil Desulfinyl	101	83.7	106			23.5
	Fipronil Sulfide	69.5	99.3	78.4			21.4
	Fipronil Sulfone	99.7	104	117			8.99
	Fluazifop-P-butyl	111	117	130			10.6
	Fludioxonil	114	107	125			15.4
	Flumioxazin	103	205	204			0.675
	Flutolanil	106	123	124			0.696
	Fluxapyroxad	92.4	135	120			12.0
	Fonofos	77.6	89.3	111			22.1
	Gamma-BHC	91.7	101	86.1			15.9
	Gamma-Chlordane	64.3	76.7	72.6			5.47

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Heptachlor	60.1	74.0	78.4			5.74
	Heptachlor Epoxide	75.4	81.8	81.3			0.580
	Hexachlorobenzene	51.8	61.6	63.4			2.88
	Hexazinone	97.3	105	116			8.63
	Imazalil	115	111	117			5.31
	Iprodione	130	108	104			4.09
	Kepone	118	87.2	101			14.8
	Lambda-Cyhalothrin	56.0	102	132			25.6
	Loratadine	120	154	161			4.75
	Malathion	86.0	106	111			4.26
	Metalaxyl	115	103	101			1.17
	Methoprene	53.9	83.1	80.7			2.98
	Methoxychlor	75.0	88.6	88.3			0.362
	Metolachlor	99.8	91.9	84.4			5.45
	Metribuzin	96.4	99.0	117			16.3
	Mevinphos	80.0	94.1	102			8.06
	MGK-264	67.5	52.0	52.8			1.64
	Mirex	52.9	72.5	70.7			2.60
	Molinate	57.1	68.9	76.2			10.1
	Myclobutanil	80.2	121	123			1.65
	Naled	111	113	132			15.7
	Napropamide	51.5	63.2	65.9			4.12
	Norflurazon	119					13.3
	Octinoxate	76.2	63.0	77.4			20.6
	Oxadiazon	76.4	88.4	97.3			9.57
	Oxybenzone	71.6	62.2	73.4			16.6
	Oxychlordane	70.4	79.5	76.2			4.18
	Oxyfluorfen	74.8	88.6	95.3			7.27
	Parathion Ethyl	93.6	106	111			4.61
	Parathion Methyl	97.7	105	137			26.7
	PBDE-47	76.5	63.8	76.8			18.5
	PBDE-99	80.5	68.3	81.0			17.1
	PCB-1016	77.9	71.9	76.7			6.43
	PCB-1260	83.5	73.5	75.7			2.92
	Pendimethalin	76.9	116	123			5.84
	Permethrin	65.9	97.1	95.8			1.37
	Phenothrin	44.0	87.7	89.0			1.52
	Phenytoin	25.6	72.1	59.6			18.9
	Phorate	68.2	74.0	102			31.6
	Piperonyl Butoxide	91.4	68.6	71.1			3.60
	Prallethrin	59.8	74.5	69.7			6.65
	Prodiamine	86.5	94.0	104			9.15
	Prometon	97.6	112	115			2.56
	Prometryn	89.9	86.9	103			17.3
	Pronamide	76.1	84.3	87.1			3.29
	Propanil	111	99.2	123			21.2
	Propargite	76.2	101	97.9			3.46
	Propiconazole	79.5	106	105			1.04
	Pyraflufen Ethyl	77.6	105	85.9			20.2
	Pyridaben	117	112	128			13.9
	Pyriproxyfen	106	105	120			14.0
	Simazine	91.0	113	117			2.79
	Stirophos	83.4	108	105			2.79
	Sulfentrazone	60.4	147	162			8.78

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Tau-Fluvalinate	55.4	104	102			2.30
	Tebuconazole	77.8	93.5	92.8			0.717
	Terbufos	80.7	92.2	123			28.3
	Terbuthylazine	89.9	86.6	89.6			3.43
	Tetramethrin	72.8	127	136			6.48
	Thiobencarb	102	99.0	102			3.17
	Trans-Nonachlor	63.9	76.8	74.6			2.93
	Tri-o-cresyl Phosphate	80.8	66.5	79.7			18.0
	Triadimefon	74.2	72.9	63.5			13.8
	Triclosan Methyl	74.3	77.7	75.5			2.86
	Trifluralin	72.7	82.3	83.8			1.86
EPA 8276	Chlordane	95.7	77.9	86.4			7.72
	Toxaphene	100	90.6	109			8.92
EPA 8321B	2,4-D	102	108	102			6.37
	2,4,5-T	76.0	80.2	74.0			8.04
	Acesulfame K	74.1	77.0	95.0			21.0
	Acetaminophen	95.1	103	100			3.22
	Acetamiprid	83.1	87.9	83.9			4.61
	Afidopyropen	64.9	64.1	70.2			9.12
	AMPA	106	99.4	99.4			0.0072
	Bentazon	69.1	70.5	75.8			7.20
	Benzovindiflupyr	85.1	93.9	88.2			6.34
	Carbamazepine	81.2	86.2	83.4			3.33
	Clothianidin	93.6	100	103			2.29
	Dinotefuran	95.1	103	97.9			4.92
	Diuron	69.3	79.8	76.3			4.49
	Endothall	97.9	103	100			2.13
	Fenuron	93.5	100	101			0.949
	Fluridone	78.0	78.9	81.6			3.36
	Glufosinate	100	111	110			0.419
	Glyphosate	98.6	97.5	102			4.40
	Hydrocodone	86.3	90.1	92.1			2.16
	Ibuprofen	96.7	99.9	92.6			7.56
	Imazapyr	83.6	90.6	89.4			1.32
	Imidacloprid	85.4	92.5	91.9			0.616
	Linuron	77.2	81.9	80.5			1.69
	Mandestrobin	91.0	94.3	99.3			5.14
	MCPP	102	105	96.5			8.12
	Naproxen	87.6	89.4	66.8			29.0
	Primidone	89.9	95.7	95.6			0.111
	Pyraclostrobin	78.4	88.7	85.3			3.99
	Silvex	82.2	78.6	88.1			11.4
	Sucralose	113	112	110			0.765
	Thiamethoxam	86.6	95.2	95.2			0.0381
	Tolfenpyrad	40.8	50.0	42.3			16.5
	Triclopyr	73.2	87.9	74.1			17.0
SM 2320 B-2011	Total Alkalinity	98.9				0.302	
	Total Alkalinity	98.1				1.32	
SM 2540 D-2015	TSS	104					
	TSS	90.2					
SM 4500-F- C-2011	Fluoride	102	100	99.5			0.477
	Fluoride	98.2	98.2	98.8			0.464
SM 5310 B-2011	Organic Carbon	95.6	96.4	98.3			1.31
	Organic Carbon	98.0	88.6	88.5			0.130

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2376045, 2376046, 2376049, 2376051, 2376053, 2376055
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2376108, 2376109, 2376110
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2376108, 2376109, 2376110
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2376047, 2376048, 2376050, 2376052, 2376054, 2376056
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2376047, 2376048, 2376050, 2376052, 2376054, 2376056
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2376047, 2376048, 2376050, 2376052, 2376054, 2376056
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2376047, 2376048, 2376050, 2376052, 2376054, 2376056
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2376102, 2376103, 2376104, 2376105
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2376106
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2376102, 2376103, 2376104, 2376105
EPA 8270E	PCBs in water matrices by GC/MS/MS	2376106
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2376106
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2376107
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2376045, 2376046, 2376049, 2376051, 2376053, 2376055
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2376045, 2376046, 2376049, 2376051, 2376053, 2376055
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2376045, 2376046, 2376049, 2376051, 2376053, 2376055
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2376047, 2376048, 2376050, 2376052, 2376054, 2376056

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	12/16/2022			12/16/2022 14:24	Khloe J Berg	2376045
	12/16/2022			12/16/2022 14:25	Khloe J Berg	2376046
	12/16/2022			12/16/2022 14:28	Khloe J Berg	2376049
	12/16/2022			12/16/2022 14:29	Khloe J Berg	2376051
	12/16/2022			12/16/2022 14:31	Khloe J Berg	2376053
	12/16/2022			12/16/2022 14:32	Khloe J Berg	2376055
EPA 200.7 Rev. 4.4	12/16/2022	12/21/2022 10:30	George D Taylor	01/14/2023 02:48	McKinley C Carter	2376108
	12/16/2022	12/21/2022 10:30	George D Taylor	01/14/2023 02:54	McKinley C Carter	2376108
	12/16/2022	12/21/2022 10:30	George D Taylor	01/14/2023 03:00	McKinley C Carter	2376109
	12/16/2022	12/21/2022 10:30	George D Taylor	01/14/2023 03:11	McKinley C Carter	2376110
	12/16/2022	12/21/2022 10:30	George D Taylor	01/14/2023 03:17	McKinley C Carter	2376110
EPA 200.8 Rev. 5.4	12/16/2022	12/21/2022 10:30	George D Taylor	01/12/2023 07:09	Emily M Philpot	2376108
	12/16/2022	12/21/2022 10:30	George D Taylor	01/12/2023 07:19	Emily M Philpot	2376109
	12/16/2022	12/21/2022 10:30	George D Taylor	01/12/2023 07:28	Emily M Philpot	2376110
EPA 350.1 Rev. 2.0	12/16/2022			01/03/2023 17:05	Ping Hua	2376047
	12/16/2022			01/03/2023 17:07	Ping Hua	2376048
	12/16/2022			01/03/2023 17:08	Ping Hua	2376050
	12/16/2022			01/03/2023 17:09	Ping Hua	2376054
	12/16/2022			01/06/2023 11:34	Ping Hua	2376056
	12/16/2022			01/09/2023 11:31	Ping Hua	2376052
EPA 351.2 Rev. 2.0	12/16/2022	12/21/2022 16:20	Simonne.V. Calhoun	01/03/2023 13:26	Samantha L Bates	2376047
	12/16/2022	12/21/2022 16:20	Simonne.V. Calhoun	01/03/2023 13:28	Samantha L Bates	2376048
	12/16/2022	12/21/2022 16:20	Simonne.V. Calhoun	01/03/2023 13:29	Samantha L Bates	2376050
	12/16/2022	12/21/2022 16:20	Simonne.V. Calhoun	01/03/2023 13:31	Samantha L Bates	2376052
	12/16/2022	12/21/2022 16:20	Simonne.V. Calhoun	01/03/2023 13:36	Samantha L Bates	2376054
	12/16/2022	12/21/2022 16:20	Simonne.V. Calhoun	01/03/2023 13:37	Samantha L Bates	2376056
EPA 353.2 Rev. 2.0	12/16/2022			12/19/2022 17:00	Touraj Touran	2376048
	12/16/2022			12/19/2022 17:01	Touraj Touran	2376050
	12/16/2022			12/19/2022 17:02	Touraj Touran	2376056
	12/16/2022			12/19/2022 17:10	Touraj Touran	2376054
	12/16/2022			12/19/2022 17:22	Touraj Touran	2376047
	12/16/2022			12/19/2022 18:06	Touraj Touran	2376052
EPA 365.1 Rev. 2.0	12/16/2022	12/21/2022 15:15	Simonne.V. Calhoun	12/22/2022 10:28	James L Waggerby	2376054
	12/16/2022	12/21/2022 15:15	Simonne.V. Calhoun	12/22/2022 10:35	James L Waggerby	2376047
	12/16/2022	12/21/2022 15:15	Simonne.V. Calhoun	12/22/2022 10:36	James L Waggerby	2376048
	12/16/2022	12/21/2022 15:15	Simonne.V. Calhoun	12/22/2022 10:37	James L Waggerby	2376050
	12/16/2022	12/21/2022 15:15	Simonne.V. Calhoun	12/22/2022 10:41	James L Waggerby	2376052
	12/16/2022	12/21/2022 15:15	Simonne.V. Calhoun	12/22/2022 10:42	James L Waggerby	2376056
EPA 8270E	12/16/2022	12/19/2022 07:00	Fe-Val Siddell	12/20/2022 23:50	Vandana T. Nagar	2376106
	12/16/2022	12/19/2022 07:00	Fe-Val Siddell	12/21/2022 05:07	Vandana T. Nagar	2376106

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/22/2022 20:03	Arthur Maknenko	2376102
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/22/2022 20:28	Arthur Maknenko	2376103
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/22/2022 20:53	Arthur Maknenko	2376104
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/22/2022 21:18	Arthur Maknenko	2376105
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/23/2022 17:59	Michael Poppell	2376102
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/23/2022 18:29	Michael Poppell	2376103
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/23/2022 18:58	Michael Poppell	2376104
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/23/2022 19:28	Michael Poppell	2376105
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/28/2022 23:09	Michael Poppell	2376102
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/28/2022 23:35	Michael Poppell	2376103
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/29/2022 00:02	Michael Poppell	2376104
	12/16/2022	12/21/2022 08:00	Fe-Val Siddell	12/29/2022 00:28	Michael Poppell	2376105
EPA 8276	12/16/2022	12/19/2022 07:00	Fe-Val Siddell	12/21/2022 17:36	Arthur Maknenko	2376106
EPA 8321B	12/16/2022	12/16/2022 12:30	Manjita Shrestha	12/16/2022 16:18	Manjita Shrestha	2376107
	12/16/2022	12/16/2022 12:30	Manjita Shrestha	12/17/2022 00:29	Manjita Shrestha	2376107
	12/16/2022	12/20/2022 08:30	June Rhew	12/20/2022 22:32	Juyoung Kim	2376107
SM 2320 B-2011	12/16/2022			01/03/2023 23:53	Adam P Silver	2376046
	12/16/2022			01/04/2023 00:32	Adam P Silver	2376049
	12/16/2022			01/04/2023 00:43	Adam P Silver	2376053
	12/16/2022			01/04/2023 00:55	Adam P Silver	2376055
	12/16/2022			01/04/2023 01:29	Adam P Silver	2376045
	12/16/2022			12/23/2022 14:39	Dale L. Simmons	2376051
SM 2540 D-2015	12/16/2022			12/19/2022 16:08	Yijie Li	2376045, 2376046, 2376049, 2376051, 2376053, 2376055
SM 4500-F- C-2011	12/16/2022			01/05/2023 14:54	Dale L. Simmons	2376046
	12/16/2022			01/05/2023 15:15	Dale L. Simmons	2376049
	12/16/2022			01/05/2023 15:20	Dale L. Simmons	2376053
	12/16/2022			01/05/2023 15:25	Dale L. Simmons	2376055
	12/16/2022			01/05/2023 16:19	Dale L. Simmons	2376045
	12/16/2022			12/23/2022 14:39	Dale L. Simmons	2376051
SM 5310 B-2011	12/16/2022			01/04/2023 01:55	Khloe J Berg	2376054
	12/16/2022			01/04/2023 03:54	Khloe J Berg	2376047
	12/16/2022			12/21/2022 16:00	Khloe J Berg	2376048
	12/16/2022			12/21/2022 16:20	Khloe J Berg	2376050
	12/16/2022			12/21/2022 16:37	Khloe J Berg	2376052
	12/16/2022			12/21/2022 16:56	Khloe J Berg	2376056