

Chemical Analysis Report

SO-DIST-2022-08-03-01

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

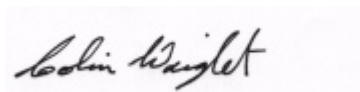
Event Description: **2022 SMP: Peace River**
Request ID: **RQ-2022-08-01-45**
Customer: **SO-DIST**
Project ID: **SMP**

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: Colin Wright, Program Administrator

Date Certified: 26-AUG-2022 09:13

A handwritten signature in black ink, appearing to read "Colin Wright", is shown on a light-colored background.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: 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: Emerald Pointe Canal

Collection Date/Time: 08/02/2022 08:35

Field ID: G3SD0216

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345625	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P417589	
	SM 2320 B-2011	Total Alkalinity	87	A	mg CaCO3/L	P417976	
	SM 2540 D-2011	TSS	3	IA	mg/L	P418226	
	SM 4500-F- C-2011	Fluoride	0.61		mg F/L	P417978	
2345626	EPA 350.1 Rev. 2.0	Ammonia-N	0.12		mg N/L	P417772	MS
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P417676	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P417820	
	EPA 365.1 Rev. 2.0	Total-P	0.40		mg P/L	P417788	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P417900	
2345646	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P417604	
		Acetochlor	0.24	U	ng/L	P417604	
		Octinoxate**	19	U	ng/L	P417604	
		Alachlor	0.24	U	ng/L	P417604	
		Avobenzone**	97	U	ng/L	P417604	
		Ametryn	0.58	U	ng/L	P417604	
		Atrazine	43		ng/L	P417604	
		PBDE-47**	3.9	U	ng/L	P417604	
		Atrazine Desethyl	1.5	U	ng/L	P417604	
		PBDE-99**	4.8	U	ng/L	P417604	
		Azinphos Methyl	1.9	U	ng/L	P417604	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P417604	
		Azoxystrobin	2.8		ng/L	P417604	
		Bromacil	29		ng/L	P417604	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P417604	
		Butylate	0.39	U	ng/L	P417604	
		Caffeine**	7.3	U	ng/L	P417604	
		Carbophenothion	0.19	U	ng/L	P417604	
		Carfentrazone Ethyl	0.097	U	ng/L	P417604	
		Chlorfenapyr	0.17	U	ng/L	P417604	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P417604	
		Chlorpyrifos Methyl	0.048	U	ng/L	P417604	
		Coumaphos	0.48	U	ng/L	P417604	
		Cyanazine	3.1	U	ng/L	P417604	
		Cyprodinil	0.097	U	ng/L	P417604	
		Demeton	1.5	U	ng/L	P417604	
		Diazinon	0.12	U	ng/L	P417604	
		Difenoconazole	0.58	U	ng/L	P417604	
		Dimethenamid	0.097	U	ng/L	P417604	
		Dimethomorph	0.17	U	ng/L	P417604	
		Disulfoton	0.48	U	ng/L	P417604	
		Dithiopyr	0.17	U	ng/L	P417604	
		EPTC	1.2	U	ng/L	P417604	
		Ethion	0.15	UJ	ng/L	P417604	LCS

Field ID: G3SD0216

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345646	EPA 8270E	Ethoprop	0.097	U	ng/L	P417604	
		Etridiazole	0.15	U	ng/L	P417604	
		Fenamiphos	0.48	U	ng/L	P417604	
		Fenbuconazole	1.3		ng/L	P417604	
		Fipronil	0.24	U	ng/L	P417604	
		Fipronil Desulfinyl**	0.12	U	ng/L	P417604	
		Fipronil Sulfide	0.15	U	ng/L	P417604	
		Fipronil Sulfone	0.15	U	ng/L	P417604	
		Fluazifop-P-butyl	0.097	U	ng/L	P417604	
		Fludioxonil	0.12	U	ng/L	P417604	
		Flumioxazin	1.7	U	ng/L	P417604	
		Flutolanil	1.2		ng/L	P417604	
		Fluxapyroxad	0.32	I	ng/L	P417604	
		Fonofos	0.19	U	ng/L	P417604	
		Hexazinone	120		ng/L	P417604	
		Imazalil	0.73	U	ng/L	P417604	
		Iprodione	0.58	U	ng/L	P417604	
		Loratadine**	0.097	U	ng/L	P417604	MS
		Malathion	0.34	U	ng/L	P417604	
		Metalaxyl	27		ng/L	P417604	
		Metolachlor	38		ng/L	P417604	
		Metribuzin	2.4	U	ng/L	P417604	
		Mevinphos	1.0	U	ng/L	P417604	
		Molinate	0.29	U	ng/L	P417604	
		Myclobutanil	0.24	U	ng/L	P417604	
		Naled	1.5	U	ng/L	P417604	
		Napropamide	0.39	U	ng/L	P417604	
		Norflurazon	74		ng/L	P417604	
		Oxadiazon	0.32	I	ng/L	P417604	
		Oxyfluorfen	0.15	U	ng/L	P417604	
		Parathion Ethyl	0.24	U	ng/L	P417604	
		Parathion Methyl	0.53	U	ng/L	P417604	
		Pendimethalin	0.97	U	ng/L	P417604	
		Phenytion**	3.4	U	ng/L	P417604	MS
		Phorate	0.51	U	ng/L	P417604	
		Prodiamine	0.17	U	ng/L	P417604	
		Prometon	0.87	U	ng/L	P417604	
		Prometryn	0.19	U	ng/L	P417604	
		Pronamide	0.15	U	ng/L	P417604	
		Propanil	0.12	U	ng/L	P417604	
		Propargite	1.5	UJ	ng/L	P417604	LCS
		Propiconazole	0.48	U	ng/L	P417604	
		Pyraflufen Ethyl	0.24	U	ng/L	P417604	
		Pyridaben	0.44	U	ng/L	P417604	
		Pyriproxyfen	0.12	U	ng/L	P417604	

Field ID: G3SD0216

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345646	EPA 8270E	Simazine	2.6		ng/L	P417604	
		Stirophos	0.12	U	ng/L	P417604	
		Sulfentrazone	2.1		ng/L	P417604	
		Tebuconazole	0.48	U	ng/L	P417604	
		Terbufos	0.097	U	ng/L	P417604	
		Terbuthylazine	0.41	U	ng/L	P417604	
		Thiobencarb	0.58	U	ng/L	P417604	
		Triadimefon	0.84	I	ng/L	P417604	
2345651	EPA 200.7 Rev. 4.4	Calcium	153		mg/L	P417609	
		Iron	260	I	ug/L	P417609	
		Magnesium	411		mg/L	P417609	
		Strontium	3.64E+03		ug/L	P417609	
		Tin	22	I	ug/L	P417609	
		Titanium	2.2	U	ug/L	P417609	
		Vanadium	6.0	U	ug/L	P417609	
		Zinc	15	U	ug/L	P417609	
	EPA 200.8 Rev. 5.4	Aluminum	41	I	ug/L	P417609	
		Antimony	0.20	U	ug/L	P417609	
		Arsenic	1.91		ug/L	P417609	
		Beryllium	0.040	U	ug/L	P417609	
		Cadmium	0.080	U	ug/L	P417609	
		Chromium	1.6	U	ug/L	P417609	
		Cobalt	0.13	I	ug/L	P417609	
		Copper	2.4	I	ug/L	P417609	
		Lead	0.80	U	ug/L	P417609	
		Manganese	26.8		ug/L	P417609	
		Molybdenum	4.0		ug/L	P417609	
		Nickel	2.0	U	ug/L	P417609	
		Selenium	0.80	U	ug/L	P417609	
		Silver	0.040	U	ug/L	P417609	
		Thallium	0.40	U	ug/L	P417609	

Ref. Method and Comment:

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

EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

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

Sample Location: Peace River Estuary @ Harbour Heights

Collection Date/Time: 08/02/2022 09:10

Field ID: G3SD0148

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345627	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P417589	
	SM 2320 B-2011	Total Alkalinity	64		mg CaCO3/L	P418117	
	SM 2540 D-2011	TSS	3	I	mg/L	P418069	
	SM 4500-F- C-2011	Fluoride	0.46		mg F/L	P417948	
2345628	EPA 350.1 Rev. 2.0	Ammonia-N	0.046		mg N/L	P417774	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P417677	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.24		mg N/L	P417875	
	EPA 365.1 Rev. 2.0	Total-P	0.69		mg P/L	P417789	
	SM 5310 B-2011	Organic Carbon	25		mg C/L	P417763	
2345647	EPA 8270E	Oxybenzone**	9.8	U	ng/L	P417604	
		Acetochlor	0.25	U	ng/L	P417604	
		Octinoxate**	20	U	ng/L	P417604	
		Alachlor	0.25	U	ng/L	P417604	
		Avobenzone**	98	U	ng/L	P417604	
		Ametryn	1.3	I	ng/L	P417604	
		Atrazine	52		ng/L	P417604	
		PBDE-47**	3.9	U	ng/L	P417604	
		Atrazine Desethyl	3.7	I	ng/L	P417604	
		PBDE-99**	4.9	U	ng/L	P417604	
		Azinphos Methyl	2.0	U	ng/L	P417604	
		Tri-o-cresyl Phosphate**	5.9	U	ng/L	P417604	
		Azoxystrobin	3.8		ng/L	P417604	
		Bromacil	62		ng/L	P417604	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P417604	
		Butylate	0.39	U	ng/L	P417604	
		Caffeine**	7.4	U	ng/L	P417604	
		Carbophenothion	0.20	U	ng/L	P417604	
		Carfentrazone Ethyl	0.098	U	ng/L	P417604	
		Chlorfenapyr	0.17	U	ng/L	P417604	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P417604	
		Chlorpyrifos Methyl	0.049	U	ng/L	P417604	
		Coumaphos	0.49	U	ng/L	P417604	
		Cyanazine	3.2	U	ng/L	P417604	
		Cyprodinil	0.098	U	ng/L	P417604	
		Demeton	1.5	U	ng/L	P417604	
		Diazinon	0.12	U	ng/L	P417604	
		Difenoconazole	0.59	U	ng/L	P417604	
		Dimethenamid	0.098	U	ng/L	P417604	
		Dimethomorph	0.17	U	ng/L	P417604	
		Disulfoton	0.49	U	ng/L	P417604	
		Dithiopyr	0.17	U	ng/L	P417604	
		EPTC	1.2	U	ng/L	P417604	
		Ethion	0.15	UJ	ng/L	P417604	LCS

Field ID: G3SD0148

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345647	EPA 8270E	Ethoprop	0.098	U	ng/L	P417604	
		Etridiazole	0.15	U	ng/L	P417604	
		Fenamiphos	0.49	U	ng/L	P417604	
		Fenbuconazole	0.61		ng/L	P417604	
		Fipronil	0.25	U	ng/L	P417604	
		Fipronil Desulfinyl**	0.12	U	ng/L	P417604	
		Fipronil Sulfide	0.15	U	ng/L	P417604	
		Fipronil Sulfone	0.15	U	ng/L	P417604	
		Fluazifop-P-butyl	0.098	U	ng/L	P417604	
		Fludioxonil	0.12	U	ng/L	P417604	
		Flumioxazin	1.7	U	ng/L	P417604	
		Flutolanil	0.48		ng/L	P417604	
		Fluxapyroxad	0.55		ng/L	P417604	
		Fonofos	0.20	U	ng/L	P417604	
		Hexazinone	150		ng/L	P417604	
		Imazalil	0.74	U	ng/L	P417604	
		Iprodione	0.59	U	ng/L	P417604	
		Loratadine**	0.098	U	ng/L	P417604	MS
		Malathion	0.34	U	ng/L	P417604	
		Metalaxyl	17		ng/L	P417604	
		Metolachlor	67		ng/L	P417604	
		Metribuzin	2.5	U	ng/L	P417604	
		Mevinphos	1.0	U	ng/L	P417604	
		Molinate	0.29	U	ng/L	P417604	
		Myclobutanil	0.25	U	ng/L	P417604	
		Naled	1.5	U	ng/L	P417604	
		Napropamide	0.39	U	ng/L	P417604	
		Norflurazon	120		ng/L	P417604	
		Oxadiazon	1.2		ng/L	P417604	
		Oxyfluorfen	0.15	U	ng/L	P417604	
		Parathion Ethyl	0.25	U	ng/L	P417604	
		Parathion Methyl	0.54	U	ng/L	P417604	
		Pendimethalin	0.98	U	ng/L	P417604	
		Phenytol**	3.4	U	ng/L	P417604	MS
		Phorate	0.52	U	ng/L	P417604	
		Prodiamine	0.17	U	ng/L	P417604	
		Prometon	0.88	U	ng/L	P417604	
		Prometryn	0.20	U	ng/L	P417604	
		Pronamide	0.15	U	ng/L	P417604	
		Propanil	0.12	U	ng/L	P417604	
		Propargite	1.5	UJ	ng/L	P417604	LCS
		Propiconazole	0.49	U	ng/L	P417604	
		Pyraflufen Ethyl	0.25	U	ng/L	P417604	
		Pyridaben	0.44	U	ng/L	P417604	
		Pyriproxyfen	0.12	U	ng/L	P417604	

Field ID: G3SD0148

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345647	EPA 8270E	Simazine	1.9	I	ng/L	P417604	
		Stirophos	0.12	U	ng/L	P417604	
		Sulfentrazone	3.8		ng/L	P417604	
		Tebuconazole	0.49	U	ng/L	P417604	
		Terbufos	0.098	U	ng/L	P417604	
		Terbuthylazine	0.42	U	ng/L	P417604	
		Thiobencarb	0.59	U	ng/L	P417604	
		Triadimefon	0.25	U	ng/L	P417604	
2345650	EPA 8321B	2,4-D	0.11		ug/L	P417606	
		Acesulfame K	0.10	U	ug/L	P417520	
		2,4,5-T	0.0040	U	ug/L	P417606	
		AMPA	0.31	I	ug/L	P417520	
		Acetaminophen	0.0080	U	ug/L	P417606	
		Acetamiprid	0.0020	U	ug/L	P417606	
		Endothall	0.25	U	ug/L	P417520	
		Glufosinate	0.10	U	ug/L	P417520	
		Glyphosate	0.71		ug/L	P417520	
		Afidopyropen	0.0020	U	ug/L	P417606	
		Bentazon	0.013		ug/L	P417606	
		Sucralose	0.44		ug/L	P417520	
		Benzovindiflupyr	0.0020	U	ug/L	P417606	
		Carbamazepine	0.0011	I	ug/L	P417606	
		Clothianidin	0.027		ug/L	P417606	
		Dinotefuran	0.0046	I	ug/L	P417606	
		Diuron	0.056		ug/L	P417606	
		Fenuron	0.032	U	ug/L	P417606	
		Fluridone	0.0019	I	ug/L	P417606	
		Imazapyr	0.025		ug/L	P417606	
		Hydrocodone	0.0020	U	ug/L	P417606	
		Ibuprofen	0.080	U	ug/L	P417606	
		Imidacloprid	0.15		ug/L	P417606	
		Linuron	0.0040	U	ug/L	P417606	
		Mandestrobin	0.0020	U	ug/L	P417606	
		MCPP	0.0040	U	ug/L	P417606	
		Naproxen	0.0080	U	ug/L	P417606	
		Primidone	0.0040	U	ug/L	P417606	
		Pyraclostrobin	0.0020	U	ug/L	P417606	
		Silvex	0.0040	U	ug/L	P417606	
		Thiamethoxam	0.082		ug/L	P417606	
		Tolfenpyrad	0.0020	U	ug/L	P417606	
		Triclopyr	0.0040	U	ug/L	P417606	
2345652	EPA 200.7 Rev. 4.4	Calcium	37.3		mg/L	P417687	
		Iron	560		ug/L	P417687	
		Magnesium	41.7		mg/L	P417687	
		Potassium	16.1		mg/L	P417687	

Field ID: G3SD0148

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345652	EPA 200.7 Rev. 4.4	Strontium	1.40E+03		ug/L	P417687	
		Tin	3.1	I	ug/L	P417687	
		Titanium	1.6	I	ug/L	P417687	
		Vanadium	2.0	I	ug/L	P417687	
		Zinc	5.0	U	ug/L	P417687	
	EPA 200.8 Rev. 5.4	Aluminum	103		ug/L	P417687	
		Antimony	0.17	I	ug/L	P417687	
		Arsenic	1.43		ug/L	P417687	
		Beryllium	0.018	I	ug/L	P417687	
		Cadmium	0.020	U	ug/L	P417687	
		Chromium	0.58	I	ug/L	P417687	
		Cobalt	0.148		ug/L	P417687	
		Copper	1.02		ug/L	P417687	
		Lead	0.20	U	ug/L	P417687	
		Manganese	20.0		ug/L	P417687	
		Molybdenum	1.58		ug/L	P417687	
		Nickel	0.74	I	ug/L	P417687	
		Selenium	0.27	I	ug/L	P417687	
		Silver	0.010	U	ug/L	P417687	
		Thallium	0.10	U	ug/L	P417687	

Ref. Method and Comment:

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

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

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

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

EPA 8321B: MS accuracy for sucralose could not be assessed due to high concentration of parameter in the spiked sample.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for potassium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: BOBCAT CREEK IN PRESERVE EAST

Collection Date/Time: 08/02/2022 09:50

Field ID: G3SD0131

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345653	EPA 200.7 Rev. 4.4	Calcium	10.5		mg/L	P417687	
		Iron	1.49E+03		ug/L	P417687	
		Magnesium	3.56		mg/L	P417687	
		Potassium	0.30	U	mg/L	P417687	
		Sodium	7.9		mg/L	P417687	
		Strontium	208		ug/L	P417687	
		Tin	3.0	U	ug/L	P417687	
		Titanium	1.2	I	ug/L	P417687	
		Vanadium	2.0	U	ug/L	P417687	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P417687	
		Aluminum	148		ug/L	P417687	
		Antimony	0.071	I	ug/L	P417687	
		Arsenic	1.05		ug/L	P417687	
		Barium	4.94		ug/L	P417687	
		Beryllium	0.026	I	ug/L	P417687	
		Boron	21.9		ug/L	P417687	
		Cadmium	0.022	I	ug/L	P417687	
		Chromium	0.77	I	ug/L	P417687	
		Cobalt	0.251		ug/L	P417687	
		Copper	0.46	I	ug/L	P417687	
		Lead	0.24	I	ug/L	P417687	
		Manganese	17.6		ug/L	P417687	
		Molybdenum	0.18	I	ug/L	P417687	
		Nickel	0.66	I	ug/L	P417687	
		Selenium	0.20	U	ug/L	P417687	
		Silver	0.010	U	ug/L	P417687	
		Thallium	0.10	U	ug/L	P417687	
	SM 2340 B-2011	Hardness	41.0		mg/L	P417687	

Ref. Method and Comment:

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for potassium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Peace River Above Horse Creek 2

Collection Date/Time: 08/02/2022 10:50

Field ID: G3SD0154

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345629	DEP SOP: NU-094-1	Color (true)	300		PCU	P417583	
	EPA 180.1 Rev. 2.0	Turbidity	4.5	A	NTU	P417589	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P417883	
		Sulfate	42		mg SO4/L	P417888	
	SM 2320 B-2011	Total Alkalinity	64		mg CaCO3/L	P418117	
	SM 2540 C-2011	TDS	239		mg/L	P417987	
	SM 2540 D-2011	TSS	5	I	mg/L	P418066	
	SM 4500-F- C-2011	Fluoride	0.48		mg F/L	P418592	
2345630	EPA 350.1 Rev. 2.0	Ammonia-N	0.043		mg N/L	P417774	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P417712	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.41		mg N/L	P417875	
	EPA 365.1 Rev. 2.0	Total-P	0.75		mg P/L	P417789	
	SM 5310 B-2011	Organic Carbon	27		mg C/L	P417763	
2345648	EPA 8270E	Aldrin	0.67	U	ng/L	P417747	
		Alpha-BHC	0.10	U	ng/L	P417747	
		Alpha-Chlordane	0.21	U	ng/L	P417747	
		PCB-1016	2.1	U	ng/L	P417747	
		Beta-BHC	0.10	U	ng/L	P417747	
		PCB-1221	2.1	U	ng/L	P417747	
		Beta-Cyfluthrin	1.3	U	ng/L	P417747	
		PCB-1232	2.1	U	ng/L	P417747	
		Bifenthrin	0.52	U	ng/L	P417747	
		PCB-1242	2.1	U	ng/L	P417747	
		Carbophenothion	0.93	U	ng/L	P417747	
		PCB-1248	2.1	U	ng/L	P417747	
		Chlorothalonil	1.3	U	ng/L	P417747	
		PCB-1254	2.1	U	ng/L	P417747	
		Cis-Nonachlor	0.21	U	ng/L	P417747	
		PCB-1260	2.1	U	ng/L	P417747	
		Cypermethrin	1.6	U	ng/L	P417747	
		Dacthal	0.16	U	ng/L	P417747	
		DDD-p,p'	0.26	U	ng/L	P417747	
		DDE-p,p'	0.21	U	ng/L	P417747	
		DDT-p,p'	0.26	U	ng/L	P417747	
		Delta-BHC	0.41	U	ng/L	P417747	
		Deltamethrin	1.3	U	ng/L	P417747	
		Dichlobenil	0.26	U	ng/L	P417747	
		Dicofol	1.3	U	ng/L	P417747	
		Dieldrin	0.41	U	ng/L	P417747	
		Endosulfan I	0.41	U	ng/L	P417747	
		Endosulfan II	0.41	U	ng/L	P417747	
		Endosulfan Sulfate	0.31	U	ng/L	P417747	
		Endrin	0.41	U	ng/L	P417747	
		Endrin Aldehyde	0.78	U	ng/L	P417747	

Field ID: G3SD0154

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2345648	EPA 8270E	Endrin Ketone	0.41	U	ng/L	P417747	CCV	
		Esfenvalerate	0.81	I	ng/L	P417747		
		Ethalfuralin	0.16	U	ng/L	P417747		
		Fenpropathrin	0.26	U	ng/L	P417747		
		Gamma-BHC	0.13	U	ng/L	P417747		
		Gamma-Chlordane	0.21	U	ng/L	P417747		
		Heptachlor	0.21	U	ng/L	P417747		
		Heptachlor Epoxide	0.26	U	ng/L	P417747		
		Hexachlorobenzene**	1.0	U	ng/L	P417747		
		Kepone	5.2	UJ	ng/L	P417747		
		Lambda-Cyhalothrin	0.78	U	ng/L	P417747		
		Methoprene	0.78	U	ng/L	P417747		
		Methoxychlor	0.31	U	ng/L	P417747		
		MGK-264	0.21	U	ng/L	P417747		
		Mirex	0.36	U	ng/L	P417747		
		Oxychlordane	0.31	U	ng/L	P417747		
		Permethrin	2.6	I	ng/L	P417747		
		Phenothrin	0.93	U	ng/L	P417747		
		Piperonyl Butoxide	0.46	I	ng/L	P417747		
		Prallethrin	2.1	U	ng/L	P417747		
		Tau-Fluvalinate	0.26	U	ng/L	P417747		
		Tetramethrin	0.78	U	ng/L	P417747		
		Trans-Nonachlor	0.21	U	ng/L	P417747		
		Triclosan Methyl	0.16	U	ng/L	P417747		
		Trifluralin	0.21	U	ng/L	P417747		
	EPA 8276	Chlordane	3.0	I	ng/L	P417747		
		Toxaphene	16	U	ng/L	P417747		
	2345654	EPA 200.7 Rev. 4.4	Calcium	28.4		mg/L		P417687
			Iron	650		ug/L		P417687
			Magnesium	12.8		mg/L		P417687
			Potassium	7.6		mg/L		P417687
			Sodium	15.4		mg/L		P417687
Strontium			1.18E+03		ug/L	P417687		
Tin			3.0	U	ug/L	P417687		
Titanium			2.2	I	ug/L	P417687		
Vanadium			2.6	I	ug/L	P417687		
Zinc			5.0	U	ug/L	P417687		
EPA 200.8 Rev. 5.4		Aluminum	184		ug/L	P417687		
		Antimony	0.15	I	ug/L	P417687		
		Arsenic	1.25		ug/L	P417687		
		Barium	15.9		ug/L	P417687		
		Beryllium	0.024	I	ug/L	P417687		
		Boron	44.8		ug/L	P417687		
		Cadmium	0.031	I	ug/L	P417687		
		Chromium	0.78	I	ug/L	P417687		

Field ID: G3SD0154

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345654	EPA 200.8 Rev. 5.4	Cobalt	0.239		ug/L	P417687	
		Copper	0.95		ug/L	P417687	
		Lead	0.23	I	ug/L	P417687	
		Manganese	31.2		ug/L	P417687	
		Molybdenum	1.13		ug/L	P417687	
		Nickel	1.0	I	ug/L	P417687	
		Selenium	0.25	I	ug/L	P417687	
		Silver	0.010	U	ug/L	P417687	
		Thallium	0.10	U	ug/L	P417687	
	SM 2340 B-2011	Hardness	124		mg/L	P417687	

Ref. Method and Comment:
 EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
 EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
 EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for potassium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
 EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: FB

Collection Date/Time: 08/02/2022 11:25

Field ID: FB_08022022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345633	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P417583	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P417589	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P417883	
		Sulfate	0.20	U	mg SO4/L	P417888	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P418117	
	SM 2540 C-2011	TDS	15	U	mg/L	P417985	
	SM 2540 D-2011	TSS	2	U	mg/L	P418064	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P417948	
2345634	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P417825	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P417714	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P417875	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P417789	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P417763	
2345655	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P417687	
		Iron	30	U	ug/L	P417687	
		Magnesium	0.040	U	mg/L	P417687	
		Potassium	0.30	U	mg/L	P417687	
		Sodium	0.50	U	mg/L	P417687	
		Strontium	2.0	U	ug/L	P417687	
		Tin	3.0	U	ug/L	P417687	
		Titanium	0.75	U	ug/L	P417687	
		Vanadium	2.0	U	ug/L	P417687	
		Zinc	5.0	U	ug/L	P417687	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P417687	
		Antimony	0.050	U	ug/L	P417687	
		Arsenic	0.050	U	ug/L	P417687	
		Barium	0.20	U	ug/L	P417687	
		Beryllium	0.010	U	ug/L	P417687	
		Boron	2.0	U	ug/L	P417687	
		Cadmium	0.020	U	ug/L	P417687	
		Chromium	0.40	U	ug/L	P417687	
		Cobalt	0.020	U	ug/L	P417687	
		Copper	0.40	U	ug/L	P417687	
		Lead	0.20	U	ug/L	P417687	
		Manganese	0.10	U	ug/L	P417687	
		Molybdenum	0.15	U	ug/L	P417687	
		Nickel	0.50	U	ug/L	P417687	
		Selenium	0.20	U	ug/L	P417687	
		Silver	0.010	U	ug/L	P417687	
		Thallium	0.10	U	ug/L	P417687	

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment:							
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.							
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.							
EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.							
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for potassium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.							
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.							

Sample Location: MYAKKA CUTOFF

Collection Date/Time: 08/02/2022 12:30

Field ID: G3SD0073

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345631	EPA 180.1 Rev. 2.0	Turbidity	2.9		NTU	P417589	
	SM 2320 B-2011	Total Alkalinity	113		mg CaCO3/L	P417976	
	SM 2540 D-2011	TSS	8	I	mg/L	P418226	
	SM 4500-F- C-2011	Fluoride	0.80		mg F/L	P417978	
2345632	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P418414	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P417784	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P417820	
	EPA 365.1 Rev. 2.0	Total-P	0.23		mg P/L	P417788	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P417900	
2345649	EPA 8270E	Oxybenzone**	9.5	U	ng/L	P417604	
		Acetochlor	0.24	U	ng/L	P417604	
		Octinoxate**	19	U	ng/L	P417604	
		Alachlor	0.24	U	ng/L	P417604	
		Avobenzone**	95	U	ng/L	P417604	
		Ametryn	1.1	I	ng/L	P417604	
		Atrazine	14		ng/L	P417604	
		PBDE-47**	3.8	U	ng/L	P417604	
		Atrazine Desethyl	1.4	U	ng/L	P417604	
		PBDE-99**	4.8	U	ng/L	P417604	
		Azinphos Methyl	1.9	U	ng/L	P417604	
		Tri-o-cresyl Phosphate**	5.7	U	ng/L	P417604	
		Azoxystrobin	0.88	I	ng/L	P417604	
		Bromacil	9.5		ng/L	P417604	
		2-Ethylhexyl	11	U	ng/L	P417604	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	U	ng/L	P417604	
		Caffeine**	7.1	U	ng/L	P417604	
		Carbophenothion	0.19	U	ng/L	P417604	
		Carfentrazone Ethyl	0.095	U	ng/L	P417604	
		Chlorfenapyr	0.17	U	ng/L	P417604	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P417604	
		Chlorpyrifos Methyl	0.048	U	ng/L	P417604	
		Coumaphos	0.48	U	ng/L	P417604	
		Cyanazine	3.1	U	ng/L	P417604	
		Cyprodinil	0.095	U	ng/L	P417604	
		Demeton	1.4	U	ng/L	P417604	
		Diazinon	0.12	U	ng/L	P417604	
		Difenoconazole	0.57	U	ng/L	P417604	
		Dimethenamid	0.095	U	ng/L	P417604	
		Dimethomorph	0.41	I	ng/L	P417604	
		Disulfoton	0.48	U	ng/L	P417604	
		Dithiopyr	0.17	U	ng/L	P417604	
		EPTC	1.2	U	ng/L	P417604	
		Ethion	0.14	UJ	ng/L	P417604	LCS

Field ID: G3SD0073

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345649	EPA 8270E	Ethoprop	0.095	U	ng/L	P417604	
		Etridiazole	0.14	U	ng/L	P417604	
		Fenamiphos	0.48	U	ng/L	P417604	
		Fenbuconazole	0.31	I	ng/L	P417604	
		Fipronil	0.24	U	ng/L	P417604	
		Fipronil Desulfinyl**	0.18	I	ng/L	P417604	
		Fipronil Sulfide	0.14	U	ng/L	P417604	
		Fipronil Sulfone	0.14	U	ng/L	P417604	
		Fluazifop-P-butyl	0.095	U	ng/L	P417604	
		Fludioxonil	0.12	U	ng/L	P417604	
		Flumioxazin	1.7	U	ng/L	P417604	
		Flutolanil	0.60		ng/L	P417604	
		Fluxapyroxad	1.1		ng/L	P417604	
		Fonofos	0.19	U	ng/L	P417604	
		Hexazinone	30		ng/L	P417604	
		Imazalil	0.71	U	ng/L	P417604	
		Iprodione	0.57	U	ng/L	P417604	
		Loratadine**	0.095	U	ng/L	P417604	MS
		Malathion	1.1	I	ng/L	P417604	
		Metalaxyl	15		ng/L	P417604	
		Metolachlor	1.3	I	ng/L	P417604	
		Metribuzin	2.4	U	ng/L	P417604	
		Mevinphos	1.0	U	ng/L	P417604	
		Molinate	0.29	U	ng/L	P417604	
		Myclobutanil	0.24	U	ng/L	P417604	
		Naled	1.4	U	ng/L	P417604	
		Napropamide	0.38	U	ng/L	P417604	
		Norflurazon	20		ng/L	P417604	
		Oxadiazon	0.34	I	ng/L	P417604	
		Oxyfluorfen	0.14	U	ng/L	P417604	
		Parathion Ethyl	0.24	U	ng/L	P417604	
		Parathion Methyl	0.52	U	ng/L	P417604	
		Pendimethalin	0.95	U	ng/L	P417604	
		Phenytol**	3.3	U	ng/L	P417604	MS
		Phorate	0.50	U	ng/L	P417604	
		Prodiamine	0.17	U	ng/L	P417604	
		Prometon	0.86	U	ng/L	P417604	
		Prometryn	0.19	U	ng/L	P417604	
		Pronamide	0.14	U	ng/L	P417604	
		Propanil	0.12	U	ng/L	P417604	
		Propargite	1.4	UJ	ng/L	P417604	LCS
		Propiconazole	0.48	U	ng/L	P417604	
		Pyraflufen Ethyl	0.24	U	ng/L	P417604	
		Pyridaben	0.43	U	ng/L	P417604	
		Pyriproxyfen	0.12	U	ng/L	P417604	

Field ID: G3SD0073

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2345649	EPA 8270E	Simazine	3.2		ng/L	P417604	
		Stirophos	0.12	U	ng/L	P417604	
		Sulfentrazone	1.3	I	ng/L	P417604	
		Tebuconazole	0.48	U	ng/L	P417604	
		Terbufos	0.095	U	ng/L	P417604	
		Terbuthylazine	0.40	U	ng/L	P417604	
		Thiobencarb	0.57	U	ng/L	P417604	
		Triadimefon	0.24	U	ng/L	P417604	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P417583

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417589

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417609

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417687

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	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: P417609

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417609

Component	Result	Code	Units
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417687

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417883

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417888

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417772

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417774

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417825

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418414

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417676

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417677

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417712

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417714

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417784

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417820

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417875

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417788

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417789

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

Reference Method: EPA 8270E

Batch ID: P417604

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417604

Component	Result	Code	Units
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	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417604

Component	Result	Code	Units
Loratadine	0.10	U	ng/L
Loratadine	0.10	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	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatamine	0.18	U	ng/L
Prodiatamine	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417604

Component	Result	Code	Units
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
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 8270E

Batch ID: P417747

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417747

Component	Result	Code	Units
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417747

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

Reference Method: EPA 8276

Batch ID: P417747

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P417520

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: P417606

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P417976

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

Reference Method: SM 2320 B-2011

Batch ID: P418117

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2011
Batch ID: P417985

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2011
Batch ID: P417987

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P418064

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P418066

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P418069

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P418226

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P417948

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P417978

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P418592

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P417763

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

Reference Method: SM 5310 B-2011
Batch ID: P417900

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P417583

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417589

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417609

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	110		P	85 - 115
Magnesium	104		P	85 - 115
Strontium	104		P	85 - 115
Tin	103		P	85 - 115
Titanium	105		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417687

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	109		P	85 - 115
Magnesium	112		P	85 - 115
Potassium	107		P	85 - 115
Sodium	97.6		P	85 - 115
Strontium	106		P	85 - 115
Tin	102		P	85 - 115
Titanium	106		P	85 - 115
Vanadium	104		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417609

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	101		P	85 - 115
Beryllium	91.1		P	85 - 115
Cadmium	99.5		P	85 - 115
Chromium	99.6		P	85 - 115
Cobalt	98.4		P	85 - 115
Copper	97.5		P	85 - 115
Lead	93.0		P	85 - 115
Manganese	103		P	85 - 115
Molybdenum	98.0		P	85 - 115
Nickel	98.2		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417609

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Selenium	99.0		P	85 - 115
Silver	95.9		P	85 - 115
Thallium	95.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417687

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	94.6		P	80 - 120
Antimony	100		P	80 - 120
Arsenic	97.0		P	80 - 120
Barium	102		P	80 - 120
Beryllium	91.3		P	80 - 120
Boron	95.5		P	80 - 120
Cadmium	96.4		P	80 - 120
Chromium	96.3		P	80 - 120
Cobalt	94.7		P	80 - 120
Copper	92.2		P	80 - 120
Lead	93.3		P	80 - 120
Manganese	96.6		P	80 - 120
Molybdenum	94.3		P	80 - 120
Nickel	94.8		P	80 - 120
Selenium	95.0		P	80 - 120
Silver	97.0		P	80 - 120
Thallium	93.5		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417883

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417888

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417772

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417774

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417825

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418414

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417676

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417677

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417712

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.9		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417714

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.9		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417784

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417820

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417875

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417788

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417789

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

Reference Method: EPA 8270E

Batch ID: P417604

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	73.2		P	50 - 150
Acetochlor	107		P	70 - 121
Alachlor	103		P	68 - 119
Ametryn	133		P	64 - 139
Atrazine	110		P	76 - 120
Atrazine Desethyl	87.2		P	44 - 126
Avobenzone	72.3		P	59 - 206
Azinphos Methyl	103		P	43 - 192
Azoxystrobin	146		P	36 - 224
Bromacil	82.1		P	52 - 121
Butylate	48.6		P	28 - 91.0
Caffeine	83.7		P	50 - 134
Carbophenothion	70.0		P	56 - 129
Carfentrazone Ethyl	105		P	60 - 141
Chlorfenapyr	66.8		P	56 - 115
Chlorpyrifos Ethyl	113		P	60 - 118
Chlorpyrifos Methyl	89.9		P	68 - 119
Coumaphos	45.4		P	18 - 250
Cyanazine	92.9		P	61 - 250
Cyprodinil	126		P	55 - 145
Demeton	115		P	30 - 159
Diazinon	110		P	70 - 123
Difenoconazole	118		P	49 - 204
Dimethenamid	75.9		P	64 - 115
Dimethomorph	113		P	12 - 219
Disulfoton	104		P	44 - 125
Dithiopyr	104		P	64 - 115
EPTC	58.0		P	28 - 86.0
Ethion	19.3		F	33 - 125
Ethoprop	112		P	64 - 116
Etridiazole	69.3		P	34 - 91.0
Fenamiphos	71.8		P	12 - 127
Fenbuconazole	78.6		P	59 - 151
Fipronil	98.9		P	67 - 129
Fipronil Desulfinyl	102		P	65 - 127
Fipronil Sulfide	93.8		P	61 - 116
Fipronil Sulfone	89.7		P	55 - 117
Fluazifop-P-butyl	104		P	62 - 127
Fludioxonil	65.1		P	62 - 128
Flumioxazin	60.6		P	33 - 250

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P417604

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Flutolanil	85.4		P	56 - 127
Fluxapyroxad	50.7		P	45 - 128
Fonofos	106		P	62 - 111
Hexazinone	87.7		P	46 - 139
Imazalil	70.8		P	38 - 142
Iprodione	71.5		P	47 - 135
Loratadine	218		P	10 - 244
Malathion	104		P	61 - 139
Metalaxyl	102		P	10 - 119
Metolachlor	88.0		P	65 - 118
Metribuzin	112		P	51 - 250
Mevinphos	94.2		P	53 - 121
Molinate	67.0		P	42 - 96.0
Myclobutanil	88.1		P	55 - 128
Naled	65.7		P	10 - 98.0
Napropamide	52.4		P	49 - 121
Norflurazon	80.7		P	61 - 126
Octinoxate	85.6		P	25 - 150
Oxadiazon	90.6		P	59 - 116
Oxybenzone	82.7		P	59 - 147
Oxyfluorfen	96.8		P	64 - 137
Parathion Ethyl	104		P	70 - 112
Parathion Methyl	133		P	76 - 133
PBDE-47	64.2		P	50 - 150
PBDE-99	59.1		P	50 - 150
Pendimethalin	103		P	52 - 117
Phenytol	15.2		P	10 - 199
Phorate	104		P	48 - 121
Prodiamine	50.3		P	26 - 142
Prometon	80.9		P	43 - 123
Prometryn	112		P	66 - 127
Pronamide	115		P	75 - 121
Propanil	93.0		P	45 - 150
Propargite	35.4		F	42 - 208
Propiconazole	81.8		P	60 - 125
Pyraflufen Ethyl	75.1		P	70 - 138
Pyridaben	79.8		P	35 - 245
Pyriproxyfen	33.6		P	30 - 149
Simazine	95.4		P	72 - 125
Stirophos	29.2		P	29 - 164
Sulfentrazone	84.1		P	21 - 139
Tebuconazole	20.0		P	10 - 115
Terbufos	114		P	60 - 123
Terbutylazine	107		P	72 - 115
Thiobencarb	81.2		P	31 - 139
Tri-o-cresyl Phosphate	78.7		P	50 - 150
Triadimefon	82.8		P	65 - 116

Reference Method: EPA 8270E

Batch ID: P417747

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

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P417747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.7		P	10 - 92.0
Alpha-BHC	88.5		P	75 - 107
Alpha-Chlordane	64.5		P	50 - 108
Beta-BHC	110		P	36 - 138
Beta-Cyfluthrin	63.0		P	20 - 161
Bifenthrin	40.0		P	10 - 119
Carbophenothion	49.8		P	19 - 94.0
Chlorothalonil	91.7		P	26 - 186
Cis-Nonachlor	76.4		P	42 - 119
Cypermethrin	59.8		P	22 - 150
Dacthal	88.7		P	72 - 119
DDD-p,p'	76.8		P	45 - 107
DDE-p,p'	74.5		P	48 - 106
DDT-p,p'	69.7		P	48 - 110
Delta-BHC	125		P	54 - 140
Deltamethrin	73.5		P	22 - 189
Dichlobenil	93.9		P	36 - 117
Dicofol	82.3		P	46 - 155
Dieldrin	77.5		P	54 - 110
Endosulfan I	75.2		P	59 - 105
Endosulfan II	67.0		P	51 - 118
Endosulfan Sulfate	79.0		P	57 - 121
Endrin	73.8		P	10 - 120
Endrin Aldehyde	83.3		P	34 - 118
Endrin Ketone	105		P	69 - 177
Esfenvalerate	57.4		P	23 - 168
Ethalfuralin	67.2		P	49 - 99.0
Fenpropathrin	63.6		P	34 - 117
Gamma-BHC	105		P	72 - 117
Gamma-Chlordane	69.2		P	43 - 106
Heptachlor	64.9		P	41 - 98.0
Heptachlor Epoxide	73.3		P	57 - 106
Hexachlorobenzene	68.9		P	36 - 99.0
Kepone	38.4		P	16 - 215
Lambda-Cyhalothrin	46.0		P	21 - 177
Methoprene	42.7		P	10 - 119
Methoxychlor	82.6		P	60 - 112
MGK-264	80.3		P	26 - 122
Mirex	46.2		P	10 - 169
Oxychlordane	66.4		P	43 - 105
PCB-1016	84.2		P	48 - 112
PCB-1260	85.9		P	44 - 118
Permethrin	60.6		P	24 - 148
Phenothrin	40.9		P	10 - 106
Piperonyl Butoxide	97.0		P	10 - 139
Prallethrin	84.3		P	17 - 109
Tau-Fluvalinate	49.1		P	13 - 131
Tetramethrin	78.6		P	10 - 132
Trans-Nonachlor	64.3		P	44 - 106
Triclosan Methyl	74.6		P	59 - 109
Trifluralin	67.7		P	44 - 101

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276

Batch ID: P417747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	99.0		P	61 - 116
Toxaphene	98.1		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P417520

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.6		P	40 - 150
AMPA	111		P	40 - 150
Endothall	90.8		P	40 - 150
Glufosinate	111		P	40 - 150
Glyphosate	110		P	40 - 150
Sucralose	113		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	101		P	40 - 150
2,4,5-T	100		P	40 - 150
Acetaminophen	34.6		P	30 - 150
Acetamiprid	88.1		P	40 - 150
Afidopyropen	76.3		P	30 - 150
Bentazon	102		P	30 - 150
Benzovindiflupyr	94.5		P	40 - 150
Carbamazepine	101		P	40 - 150
Clothianidin	98.8		P	40 - 150
Dinotefuran	102		P	40 - 150
Diuron	89.5		P	40 - 150
Fenuron	96.6		P	40 - 150
Fluridone	100		P	40 - 150
Hydrocodone	96.5		P	40 - 150
Ibuprofen	87.3		P	40 - 150
Imazapyr	114		P	40 - 150
Imidacloprid	106		P	40 - 150
Linuron	88.6		P	40 - 150
Mandestrobin	97.8		P	40 - 150
MCPP	106		P	40 - 150
Naproxen	73.4		P	40 - 150
Primidone	98.5		P	40 - 150
Pyraclostrobin	90.1		P	40 - 150
Silvex	97.5		P	40 - 150
Thiamethoxam	104		P	40 - 150
Tolfenpyrad	54.1		P	30 - 150
Triclopyr	85.0		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P417976

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.1		P	94 - 106

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P418117

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.3		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P417948

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P417978

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P418592

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.7		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P417763

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.4		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P417900

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P417609

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345651	Iron	105	98.6	P/P	70 - 130
2345651	Tin	93.1	86.8	P/P	70 - 130
2345651	Titanium	109	104	P/P	70 - 130
2345651	Vanadium	103	95.9	P/P	70 - 130
2345651	Zinc	102	96.3	P/P	70 - 130

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P417687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346296	Calcium	103		P	80 - 120
2346296	Iron	109	107	P/P	80 - 120
2346296	Magnesium	110	105	P/P	80 - 120
2346296	Potassium	101	96.9	P/P	80 - 120
2346296	Sodium	98.1		P	80 - 120
2346296	Strontium	101	99.6	P/P	80 - 120
2346296	Tin	103	102	P/P	80 - 120
2346296	Titanium	106	103	P/P	80 - 120
2346296	Vanadium	105	102	P/P	80 - 120
2346296	Zinc	103	100	P/P	80 - 120
2346340	Calcium	103		P	80 - 120
2346340	Iron	109		P	80 - 120
2346340	Magnesium	107		P	80 - 120
2346340	Sodium	101		P	80 - 120
2346340	Strontium	100		P	80 - 120
2346340	Tin	102		P	80 - 120
2346340	Titanium	105		P	80 - 120
2346340	Vanadium	104		P	80 - 120
2346340	Zinc	99.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P417609

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345651	Aluminum	101	99.3	P/P	70 - 130
2345651	Antimony	101	100	P/P	70 - 130
2345651	Arsenic	112	110	P/P	70 - 130
2345651	Beryllium	97.5	97.7	P/P	70 - 130
2345651	Cadmium	95.8	98.0	P/P	70 - 130
2345651	Chromium	84.8	83.4	P/P	70 - 130
2345651	Cobalt	106	106	P/P	70 - 130
2345651	Copper	97.4	97.4	P/P	70 - 130
2345651	Lead	97.3	96.5	P/P	70 - 130
2345651	Manganese	93.6	93.2	P/P	70 - 130
2345651	Molybdenum	111	109	P/P	70 - 130
2345651	Nickel	105	106	P/P	70 - 130
2345651	Selenium	99.9	99.2	P/P	70 - 130
2345651	Silver	87.9	85.6	P/P	70 - 130
2345651	Thallium	99.9	99.4	P/P	70 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P417687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346296	Aluminum	95.7	95.3	P/P	80 - 120
2346296	Antimony	101	102	P/P	80 - 120
2346296	Arsenic	98.6	98.7	P/P	80 - 120
2346296	Barium	102	101	P/P	80 - 120
2346296	Beryllium	94.4	93.1	P/P	80 - 120
2346296	Boron	96.5	95.6	P/P	80 - 120
2346296	Cadmium	97.4	96.5	P/P	80 - 120
2346296	Chromium	97.5	98.2	P/P	80 - 120
2346296	Cobalt	94.7	94.8	P/P	80 - 120
2346296	Copper	94.3	95.3	P/P	80 - 120
2346296	Lead	93.7	93.2	P/P	80 - 120
2346296	Manganese	97.6	97.9	P/P	80 - 120
2346296	Molybdenum	95.1	94.2	P/P	80 - 120
2346296	Nickel	93.7	94.8	P/P	80 - 120
2346296	Selenium	95.4	95.1	P/P	80 - 120
2346296	Silver	95.2	95.2	P/P	80 - 120
2346296	Thallium	96.1	95.9	P/P	80 - 120
2346340	Aluminum	99.2		P	80 - 120
2346340	Antimony	104		P	80 - 120
2346340	Arsenic	100		P	80 - 120
2346340	Barium	103		P	80 - 120
2346340	Beryllium	91.2		P	80 - 120
2346340	Cadmium	99.9		P	80 - 120
2346340	Chromium	100		P	80 - 120
2346340	Cobalt	97.7		P	80 - 120
2346340	Copper	94.2		P	80 - 120
2346340	Lead	95.5		P	80 - 120
2346340	Manganese	100		P	80 - 120
2346340	Molybdenum	99.3		P	80 - 120
2346340	Nickel	95.5		P	80 - 120
2346340	Selenium	97.2		P	80 - 120
2346340	Silver	96.6		P	80 - 120
2346340	Thallium	97.5		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P417883

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345590	Chloride	94.8		P	90 - 110
2345594	Chloride	97.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P417888

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345590	Sulfate	97.3		P	90 - 110
2345594	Sulfate	99.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P417772

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417772

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345388	Ammonia-N	109	116	P/F	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417774

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345598	Ammonia-N	98.8	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417825

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2346125	Ammonia-N	99.8	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418414

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345632	Ammonia-N	101	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417676

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344655	Kjeldahl Nitrogen	105	109	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345540	Kjeldahl Nitrogen	85.6	86.6	F/F	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417784

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344924	Kjeldahl Nitrogen	96.7	92.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417820

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345441	NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345668	NO2NO3-N	98.0	98.0	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417788

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345734	Total-P	99.6	97.4	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P417604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345169	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.7	91.9	P/P	50 - 150
2345169	Acetochlor	111	101	P/P	65 - 124
2345169	Alachlor	99.2	90.5	P/P	61 - 121
2345169	Ametryn	115	103	P/P	52 - 216
2345169	Atrazine Desethyl	70.2	67.2	P/P	15 - 160
2345169	Avobenzone	85.2	90.0	P/P	59 - 206
2345169	Azinphos Methyl	114	101	P/P	40 - 292
2345169	Azoxystrobin	144	129	P/P	12 - 242
2345169	Bromacil	81.3	72.2	P/P	54 - 167
2345169	Butylate	50.3	52.5	P/P	14 - 94.0
2345169	Caffeine	92.7	87.4	P/P	10 - 226
2345169	Carbophenothion	72.0	70.1	P/P	49 - 122
2345169	Carfentrazone Ethyl	105	90.8	P/P	53 - 138
2345169	Chlorfenapyr	74.1	60.5	P/P	50 - 150
2345169	Chlorpyrifos Ethyl	93.6	83.4	P/P	52 - 122
2345169	Chlorpyrifos Methyl	99.0	94.6	P/P	66 - 117
2345169	Coumaphos	68.8	60.6	P/P	50 - 220
2345169	Cyanazine	116	106	P/P	43 - 245
2345169	Cyprodinil	108	94.4	P/P	50 - 150
2345169	Demeton	123	115	P/P	43 - 188
2345169	Diazinon	104	102	P/P	69 - 131
2345169	Difenoconazole	158	151	P/P	34 - 231
2345169	Dimethenamid	84.5	77.9	P/P	55 - 118
2345169	Dimethomorph	126	113	P/P	50 - 150
2345169	Disulfoton	109	96.8	P/P	38 - 141
2345169	Dithiopyr	104	94.3	P/P	42 - 116
2345169	EPTC	54.3	55.5	P/P	18 - 85.0
2345169	Ethion	44.9	45.9	P/P	10 - 131
2345169	Ethoprop	113	107	P/P	65 - 129
2345169	Etridiazole	66.0	62.2	P/P	50 - 150
2345169	Fenamiphos	72.1	81.1	P/P	31 - 137
2345169	Fenbuconazole	92.2	83.8	P/P	57 - 160
2345169	Fipronil	100	92.0	P/P	62 - 132
2345169	Fipronil Desulfinyl	111	99.1	P/P	57 - 131
2345169	Fipronil Sulfide	95.1	91.6	P/P	15 - 138
2345169	Fipronil Sulfone	79.2	69.3	P/P	21 - 134
2345169	Fluazifop-P-butyl	104	90.7	P/P	54 - 133
2345169	Fludioxonil	92.2	77.7	P/P	58 - 127
2345169	Flumioxazin	114	106	P/P	33 - 300
2345169	Flutolanil	107	94.6	P/P	42 - 130
2345169	Fluxapyroxad	80.2	76.4	P/P	23 - 141
2345169	Fonofos	102	96.6	P/P	58 - 119
2345169	Hexazinone	106	96.3	P/P	68 - 172
2345169	Imazalil	87.5	91.4	P/P	48 - 283
2345169	Iprodione	85.5	78.9	P/P	38 - 140
2345169	Loratadine	160	143	F/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P417604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345169	Malathion	119	108	P/P	40 - 137
2345169	Metalaxyl	99.6	91.3	P/P	21 - 129
2345169	Metolachlor	102	98.4	P/P	55 - 122
2345169	Metribuzin	113	104	P/P	38 - 187
2345169	Mevinphos	95.6	91.1	P/P	54 - 134
2345169	Molinate	69.1	68.0	P/P	41 - 97.0
2345169	Myclobutanil	106	89.6	P/P	56 - 125
2345169	Naled	74.1	78.8	P/P	10 - 108
2345169	Napropamide	70.8	68.6	P/P	50 - 150
2345169	Norflurazon	87.3	85.4	P/P	32 - 122
2345169	Octinoxate	84.1	84.3	P/P	25 - 150
2345169	Oxadiazon	85.4	82.4	P/P	40 - 119
2345169	Oxybenzone	77.4	85.7	P/P	59 - 147
2345169	Oxyfluorfen	101	99.7	P/P	61 - 153
2345169	Parathion Ethyl	101	98.4	P/P	59 - 130
2345169	Parathion Methyl	138	127	P/P	65 - 155
2345169	PBDE-47	75.6	75.6	P/P	50 - 150
2345169	PBDE-99	73.1	74.7	P/P	50 - 150
2345169	Pendimethalin	104	99.4	P/P	49 - 138
2345169	Phenytoin	28.9	28.6	F/F	50 - 200
2345169	Phorate	83.1	84.5	P/P	54 - 161
2345169	Prodiamine	56.6	47.4	P/P	33 - 161
2345169	Prometon	90.9	86.0	P/P	48 - 140
2345169	Prometryn	108	96.2	P/P	55 - 134
2345169	Pronamide	126	116	P/P	66 - 137
2345169	Propanil	102	92.6	P/P	50 - 150
2345169	Propargite	57.0	55.9	P/P	50 - 200
2345169	Propiconazole	92.1	84.4	P/P	36 - 150
2345169	Pyraflufen Ethyl	88.7	78.0	P/P	50 - 150
2345169	Pyridaben	75.3	66.8	P/P	50 - 200
2345169	Pyriproxyfen	66.4	69.4	P/P	10 - 165
2345169	Simazine	104	95.3	P/P	57 - 145
2345169	Stiropfos	50.9	53.4	P/P	50 - 150
2345169	Sulfentrazone	89.3	80.4	P/P	34 - 140
2345169	Tebuconazole	46.1	44.5	P/P	10 - 127
2345169	Terbufos	130	118	P/P	59 - 138
2345169	Terbuthylazine	104	93.8	P/P	68 - 119
2345169	Thiobencarb	93.0	85.8	P/P	50 - 150
2345169	Tri-o-cresyl Phosphate	81.1	80.1	P/P	50 - 150
2345169	Triadimefon	97.5	90.3	P/P	50 - 150

Reference Method: EPA 8270E

Batch ID: P417747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345548	Aldrin	55.4	60.9	P/P	20 - 82.0
2345548	Alpha-BHC	91.1	88.4	P/P	71 - 109
2345548	Alpha-Chlordane	62.8	58.9	P/P	42 - 106
2345548	Beta-BHC	98.8	111	P/P	69 - 180
2345548	Beta-Cyfluthrin	89.7	125	P/P	18 - 175
2345548	Bifenthrin	77.1	79.3	P/P	21 - 128
2345548	Carbophenothion	70.3	81.0	P/P	10 - 126

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P417747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345548	Chlorothalonil	95.4	152	P/P	10 - 300
2345548	Cis-Nonachlor	69.9	85.6	P/P	34 - 106
2345548	Cypermethrin	83.9	108	P/P	22 - 158
2345548	Dacthal	94.8	93.9	P/P	54 - 116
2345548	DDD-p,p'	56.6	75.8	P/P	34 - 107
2345548	DDE-p,p'	60.9	62.5	P/P	33 - 110
2345548	DDT-p,p'	76.2	64.6	P/P	50 - 122
2345548	Delta-BHC	117	142	P/P	77 - 193
2345548	Deltamethrin	100	126	P/P	10 - 195
2345548	Dichlobenil	68.1	69.3	P/P	25 - 113
2345548	Dicofol	97.8	97.2	P/P	38 - 247
2345548	Dieldrin	72.0	76.9	P/P	45 - 118
2345548	Endosulfan I	73.1	81.2	P/P	51 - 106
2345548	Endosulfan II	63.4	79.8	P/P	37 - 122
2345548	Endosulfan Sulfate	76.2	94.7	P/P	43 - 132
2345548	Endrin	71.5	85.8	P/P	29 - 101
2345548	Endrin Aldehyde	64.3	71.4	P/P	19 - 110
2345548	Endrin Ketone	86.2	108	P/P	60 - 140
2345548	Esfenvalerate	81.6	118	P/P	26 - 199
2345548	Ethalfuralin	72.7	78.5	P/P	45 - 99.0
2345548	Fenpropathrin	86.9	91.2	P/P	35 - 120
2345548	Gamma-BHC	100	102	P/P	63 - 128
2345548	Gamma-Chlordane	69.8	65.8	P/P	40 - 104
2345548	Heptachlor	67.3	67.0	P/P	36 - 97.0
2345548	Heptachlor Epoxide	83.6	84.8	P/P	49 - 184
2345548	Hexachlorobenzene	77.9	62.6	P/P	39 - 96.0
2345548	Kepone	34.2	51.9	P/P	10 - 217
2345548	Lambda-Cyhalothrin	76.6	92.7	P/P	21 - 193
2345548	Methoprene	56.9	65.5	P/P	20 - 106
2345548	Methoxychlor	92.7	88.0	P/P	53 - 118
2345548	MGK-264	85.5	95.5	P/P	40 - 118
2345548	Mirex	53.6	57.7	P/P	26 - 92.0
2345548	Oxychlordane	79.6	72.9	P/P	44 - 99.0
2345548	Permethrin	82.4	104	P/P	33 - 182
2345548	Phenothrin	68.6	91.9	P/P	10 - 129
2345548	Piperonyl Butoxide	112	126	P/P	10 - 211
2345548	Prallethrin	80.6	95.1	P/P	24 - 113
2345548	Tau-Fluvalinate	77.7	66.5	P/P	14 - 149
2345548	Tetramethrin	83.0	122	P/P	17 - 151
2345548	Trans-Nonachlor	73.5	69.6	P/P	42 - 102
2345548	Triclosan Methyl	78.5	69.8	P/P	48 - 108
2345548	Trifluralin	74.6	74.2	P/P	47 - 96.0
2345564	PCB-1016	86.5	87.1	P/P	46 - 111
2345564	PCB-1260	84.3	82.1	P/P	45 - 114

Reference Method: EPA 8276
Batch ID: P417747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345564	Chlordane	108	101	P/P	53 - 126
2345564	Toxaphene	126	120	P/P	56 - 211

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P417520

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345138	Acesulfame K	82.1	84.5	P/P	40 - 150
2345138	AMPA	45.2	43.7	P/P	40 - 150
2345138	Endothall	94.2	97.1	P/P	40 - 150
2345138	Glufosinate	50.5	48.2	P/P	40 - 150
2345138	Glyphosate	64.2	68.3	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P417606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345138	2,4-D	86.4	81.9	P/P	40 - 150
2345138	2,4,5-T	72.1	70.0	P/P	40 - 150
2345138	Acetaminophen	34.7	40.0	P/P	30 - 150
2345138	Acetamiprid	75.5	86.4	P/P	40 - 150
2345138	Afidopyropen	85.9	92.4	P/P	30 - 150
2345138	Benzovindiflupyr	94.4	96.5	P/P	40 - 150
2345138	Clothianidin	105	90.5	P/P	40 - 150
2345138	Diuron	72.0	80.8	P/P	40 - 150
2345138	Fenuron	88.1	86.2	P/P	40 - 150
2345138	Fluridone	101	94.4	P/P	40 - 150
2345138	Hydrocodone	104	99.8	P/P	40 - 150
2345138	Ibuprofen	89.7	96.0	P/P	40 - 150
2345138	Imazapyr	64.5	59.9	P/P	40 - 150
2345138	Linuron	121	124	P/P	40 - 150
2345138	Mandestrobin	94.8	92.2	P/P	40 - 150
2345138	MCPP	88.0	81.3	P/P	40 - 150
2345138	Naproxen	53.4	65.6	P/P	40 - 150
2345138	Pyraclostrobin	94.0	92.0	P/P	40 - 150
2345138	Silvex	98.1	90.4	P/P	40 - 150
2345138	Thiamethoxam	134	141	P/P	40 - 150
2345138	Tolfenpyrad	59.7	56.4	P/P	30 - 150
2345138	Triclopyr	75.0	69.9	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P417948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345591	Fluoride	99.6	99.6	P/P	94 - 104

Reference Method: SM 4500-F- C-2011

Batch ID: P417978

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345625	Fluoride	98.4	99.3	P/P	94 - 104

Reference Method: SM 4500-F- C-2011

Batch ID: P418592

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2350893	Fluoride	98.5	97.9	P/P	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P417763

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345525	Organic Carbon	95.5	95.1	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P417900

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2345626	Organic Carbon	87.4	88.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P417583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345573	Color (true)	0.415	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417589

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345629	Turbidity	4.93	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417609

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345651	Calcium	2.46	Spike	P	0 - 20
2345651	Iron	5.88	Spike	P	0 - 20
2345651	Magnesium	7.61	Spike	P	0 - 20
2345651	Strontium	4.52	Spike	P	0 - 20
2345651	Tin	5.64	Spike	P	0 - 20
2345651	Titanium	4.98	Spike	P	0 - 20
2345651	Vanadium	6.86	Spike	P	0 - 20
2345651	Zinc	5.81	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P417687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346296	Calcium	3.17	Spike	P	0 - 20
2346296	Iron	1.74	Spike	P	0 - 20
2346296	Magnesium	2.86	Spike	P	0 - 20
2346296	Potassium	2.56	Spike	P	0 - 20
2346296	Sodium	3.36	Spike	P	0 - 20
2346296	Strontium	1.87	Spike	P	0 - 20
2346296	Tin	1.45	Spike	P	0 - 20
2346296	Titanium	2.43	Spike	P	0 - 20
2346296	Vanadium	2.71	Spike	P	0 - 20
2346296	Zinc	2.57	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P417609

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345651	Aluminum	1.54	Spike	P	0 - 20
2345651	Antimony	1.13	Spike	P	0 - 20
2345651	Arsenic	1.86	Spike	P	0 - 20
2345651	Beryllium	0.172	Spike	P	0 - 20
2345651	Cadmium	2.22	Spike	P	0 - 20
2345651	Chromium	1.68	Spike	P	0 - 20
2345651	Cobalt	0.0238	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P417609

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345651	Copper	0.00546	Spike	P	0 - 20
2345651	Lead	0.842	Spike	P	0 - 20
2345651	Manganese	0.288	Spike	P	0 - 20
2345651	Molybdenum	1.58	Spike	P	0 - 20
2345651	Nickel	0.561	Spike	P	0 - 20
2345651	Selenium	0.744	Spike	P	0 - 20
2345651	Silver	2.58	Spike	P	0 - 20
2345651	Thallium	0.451	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P417687

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346296	Aluminum	0.438	Spike	P	0 - 20
2346296	Antimony	1.14	Spike	P	0 - 20
2346296	Arsenic	0.0924	Spike	P	0 - 20
2346296	Barium	0.332	Spike	P	0 - 20
2346296	Beryllium	1.29	Spike	P	0 - 20
2346296	Boron	0.652	Spike	P	0 - 20
2346296	Cadmium	0.950	Spike	P	0 - 20
2346296	Chromium	0.642	Spike	P	0 - 20
2346296	Cobalt	0.0197	Spike	P	0 - 20
2346296	Copper	1.11	Spike	P	0 - 20
2346296	Lead	0.480	Spike	P	0 - 20
2346296	Manganese	0.299	Spike	P	0 - 20
2346296	Molybdenum	0.928	Spike	P	0 - 20
2346296	Nickel	1.13	Spike	P	0 - 20
2346296	Selenium	0.282	Spike	P	0 - 20
2346296	Silver	0.0216	Spike	P	0 - 20
2346296	Thallium	0.275	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P417883

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345590	Chloride	0.183	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P417888

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345590	Sulfate	0.164	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P417772

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345388	Ammonia-N	5.28	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417774

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345598	Ammonia-N	1.07	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417825

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2346125	Ammonia-N	0.691	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418414

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345632	Ammonia-N	1.65	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417676

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344655	Kjeldahl Nitrogen	3.43	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417677

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345443	Kjeldahl Nitrogen	10.8	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345540	Kjeldahl Nitrogen	1.09	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417714

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345205	Kjeldahl Nitrogen	7.72	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417784

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344924	Kjeldahl Nitrogen	2.99	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417820

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345441	NO2NO3-N	0.464	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345668	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345734	Total-P	2.20	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345628	Total-P	1.73	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P417604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345169	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	0.160	Spike	P	0 - 30
2345169	Acetochlor	9.24	Spike	P	0 - 27
2345169	Alachlor	9.17	Spike	P	0 - 27
2345169	Ametryn	10.5	Spike	P	0 - 34
2345169	Atrazine	5.61	Spike	P	0 - 41
2345169	Atrazine Desethyl	3.43	Spike	P	0 - 38
2345169	Avobenzone	5.39	Spike	P	0 - 30
2345169	Azinphos Methyl	12.0	Spike	P	0 - 62
2345169	Azoxystrobin	9.49	Spike	P	0 - 32
2345169	Bromacil	11.9	Spike	P	0 - 30
2345169	Butylate	4.32	Spike	P	0 - 59
2345169	Caffeine	5.87	Spike	P	0 - 60
2345169	Carbophenothion	2.69	Spike	P	0 - 25
2345169	Carfentrazone Ethyl	14.2	Spike	P	0 - 26
2345169	Chlorfenapyr	20.2	Spike	P	0 - 30
2345169	Chlorpyrifos Ethyl	11.5	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P417604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345169	Chlorpyrifos Methyl	4.49	Spike	P	0 - 26
2345169	Coumaphos	12.8	Spike	P	0 - 30
2345169	Cyanazine	9.05	Spike	P	0 - 58
2345169	Cyprodinil	13.5	Spike	P	0 - 30
2345169	Demeton	6.18	Spike	P	0 - 25
2345169	Diazinon	2.05	Spike	P	0 - 29
2345169	Difenoconazole	4.64	Spike	P	0 - 25
2345169	Dimethenamid	8.08	Spike	P	0 - 30
2345169	Dimethomorph	11.5	Spike	P	0 - 30
2345169	Disulfoton	11.5	Spike	P	0 - 33
2345169	Dithiopyr	10.1	Spike	P	0 - 22
2345169	EPTC	2.15	Spike	P	0 - 38
2345169	Ethion	2.16	Spike	P	0 - 79
2345169	Ethoprop	6.21	Spike	P	0 - 23
2345169	Etridiazole	5.79	Spike	P	0 - 30
2345169	Fenamiphos	11.7	Spike	P	0 - 58
2345169	Fenbuconazole	9.49	Spike	P	0 - 37
2345169	Fipronil	8.47	Spike	P	0 - 33
2345169	Fipronil Desulfanyl	10.1	Spike	P	0 - 26
2345169	Fipronil Sulfide	3.74	Spike	P	0 - 37
2345169	Fipronil Sulfone	11.7	Spike	P	0 - 50
2345169	Fluazifop-P-butyl	13.9	Spike	P	0 - 24
2345169	Fludioxonil	17.0	Spike	P	0 - 26
2345169	Flumioxazin	6.72	Spike	P	0 - 37
2345169	Flutolanil	12.5	Spike	P	0 - 26
2345169	Fluxapyroxad	4.86	Spike	P	0 - 34
2345169	Fonofos	5.14	Spike	P	0 - 27
2345169	Hexazinone	9.39	Spike	P	0 - 36
2345169	Imazalil	4.31	Spike	P	0 - 65
2345169	Iprodione	8.09	Spike	P	0 - 33
2345169	Loratadine	11.1	Spike	P	0 - 30
2345169	Malathion	9.73	Spike	P	0 - 44
2345169	Metalaxyl	8.74	Spike	P	0 - 38
2345169	Metolachlor	3.92	Spike	P	0 - 36
2345169	Metribuzin	8.07	Spike	P	0 - 63
2345169	Mevinphos	4.84	Spike	P	0 - 26
2345169	Molinate	1.47	Spike	P	0 - 40
2345169	Myclobutanil	16.7	Spike	P	0 - 21
2345169	Naled	6.08	Spike	P	0 - 26
2345169	Napropamide	3.12	Spike	P	0 - 30
2345169	Norflurazon	2.17	Spike	P	0 - 24
2345169	Octinoxate	0.219	Spike	P	0 - 30
2345169	Oxadiazon	2.86	Spike	P	0 - 27
2345169	Oxybenzone	10.1	Spike	P	0 - 30
2345169	Oxyfluorfen	1.44	Spike	P	0 - 24
2345169	Parathion Ethyl	2.56	Spike	P	0 - 28
2345169	Parathion Methyl	8.03	Spike	P	0 - 27
2345169	PBDE-47	0.0498	Spike	P	0 - 30
2345169	PBDE-99	2.15	Spike	P	0 - 30
2345169	Pendimethalin	4.91	Spike	P	0 - 31
2345169	Phenytoin	0.778	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P417604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345169	Phorate	1.75	Spike	P	0 - 27
2345169	Prodiamine	17.7	Spike	P	0 - 52
2345169	Prometon	5.51	Spike	P	0 - 31
2345169	Prometryn	11.6	Spike	P	0 - 28
2345169	Pronamide	8.67	Spike	P	0 - 26
2345169	Propanil	9.92	Spike	P	0 - 30
2345169	Propargite	1.96	Spike	P	0 - 30
2345169	Propiconazole	8.77	Spike	P	0 - 31
2345169	Pyraflufen Ethyl	12.8	Spike	P	0 - 30
2345169	Pyridaben	7.74	Spike	P	0 - 30
2345169	Pyriproxyfen	4.40	Spike	P	0 - 50
2345169	Simazine	8.71	Spike	P	0 - 29
2345169	Stirophos	4.76	Spike	P	0 - 30
2345169	Sulfentrazone	10.4	Spike	P	0 - 33
2345169	Tebuconazole	3.44	Spike	P	0 - 44
2345169	Terbufos	9.41	Spike	P	0 - 29
2345169	Terbutylazine	10.5	Spike	P	0 - 27
2345169	Thiobencarb	8.05	Spike	P	0 - 30
2345169	Tri-o-cresyl Phosphate	1.27	Spike	P	0 - 30
2345169	Triadimefon	7.62	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P417747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345548	Aldrin	9.43	Spike	P	0 - 41
2345548	Alpha-BHC	2.91	Spike	P	0 - 25
2345548	Alpha-Chlordane	5.63	Spike	P	0 - 33
2345548	Beta-BHC	11.3	Spike	P	0 - 36
2345548	Beta-Cyfluthrin	33.3	Spike	P	0 - 42
2345548	Bifenthrin	2.83	Spike	P	0 - 53
2345548	Carbophenothion	14.1	Spike	P	0 - 30
2345548	Chlorothalonil	45.7	Spike	P	0 - 71
2345548	Cis-Nonachlor	20.2	Spike	P	0 - 29
2345548	Cypermethrin	25.1	Spike	P	0 - 40
2345548	Dacthal	0.913	Spike	P	0 - 26
2345548	DDD-p,p'	25.6	Spike	P	0 - 39
2345548	DDE-p,p'	2.15	Spike	P	0 - 33
2345548	DDT-p,p'	15.4	Spike	P	0 - 40
2345548	Delta-BHC	19.0	Spike	P	0 - 37
2345548	Deltamethrin	22.9	Spike	P	0 - 100
2345548	Dichlobenil	1.77	Spike	P	0 - 40
2345548	Dicofol	0.682	Spike	P	0 - 31
2345548	Dieldrin	5.38	Spike	P	0 - 27
2345548	Endosulfan I	10.6	Spike	P	0 - 23
2345548	Endosulfan II	22.8	Spike	P	0 - 28
2345548	Endosulfan Sulfate	21.7	Spike	P	0 - 38
2345548	Endrin	18.2	Spike	P	0 - 63
2345548	Endrin Aldehyde	10.4	Spike	P	0 - 60
2345548	Endrin Ketone	22.6	Spike	P	0 - 37

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P417747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345548	Esfenvalerate	36.5	Spike	P	0 - 52
2345548	Ethalfuralin	7.66	Spike	P	0 - 23
2345548	Fenpropathrin	4.91	Spike	P	0 - 32
2345548	Gamma-BHC	1.98	Spike	P	0 - 17
2345548	Gamma-Chlordane	5.38	Spike	P	0 - 40
2345548	Heptachlor	0.323	Spike	P	0 - 29
2345548	Heptachlor Epoxide	1.41	Spike	P	0 - 25
2345548	Hexachlorobenzene	21.7	Spike	P	0 - 36
2345548	Kepone	25.5	Spike	P	0 - 93
2345548	Lambda-Cyhalothrin	19.0	Spike	P	0 - 55
2345548	Methoprene	14.0	Spike	P	0 - 53
2345548	Methoxychlor	5.16	Spike	P	0 - 29
2345548	MGK-264	11.0	Spike	P	0 - 35
2345548	Mirex	7.44	Spike	P	0 - 46
2345548	Oxychlordane	8.87	Spike	P	0 - 29
2345548	Permethrin	22.9	Spike	P	0 - 44
2345548	Phenothrin	29.1	Spike	P	0 - 56
2345548	Piperonyl Butoxide	11.4	Spike	P	0 - 100
2345548	Prallethrin	16.5	Spike	P	0 - 42
2345548	Tau-Fluvalinate	15.6	Spike	P	0 - 54
2345548	Tetramethrin	38.1	Spike	P	0 - 51
2345548	Trans-Nonachlor	5.49	Spike	P	0 - 37
2345548	Triclosan Methyl	11.7	Spike	P	0 - 31
2345548	Trifluralin	0.508	Spike	P	0 - 30
2345564	PCB-1016	0.723	Spike	P	0 - 32
2345564	PCB-1260	2.61	Spike	P	0 - 31

Reference Method: EPA 8276

Batch ID: P417747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345564	Chlordane	6.89	Spike	P	0 - 25
2345564	Toxaphene	5.48	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P417520

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345138	Acesulfame K	2.96	Spike	P	0 - 30
2345138	AMPA	3.37	Spike	P	0 - 30
2345138	Endothall	3.04	Spike	P	0 - 30
2345138	Glufosinate	4.69	Spike	P	0 - 30
2345138	Glyphosate	6.08	Spike	P	0 - 30
2345138	Sucralose	3.64	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P417606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345138	2,4-D	4.33	Spike	P	0 - 30
2345138	2,4,5-T	2.92	Spike	P	0 - 30
2345138	Acetaminophen	14.3	Spike	P	0 - 30
2345138	Acetamiprid	11.8	Spike	P	0 - 30
2345138	Afidopyropen	7.31	Spike	P	0 - 30
2345138	Bentazon	8.17	Spike	P	0 - 30
2345138	Benzovindiflupyr	2.26	Spike	P	0 - 30
2345138	Carbamazepine	0.0370	Spike	P	0 - 30
2345138	Clothianidin	10.3	Spike	P	0 - 30
2345138	Dinotefuran	2.10	Spike	P	0 - 30
2345138	Diuron	7.73	Spike	P	0 - 30
2345138	Fenuron	2.16	Spike	P	0 - 30
2345138	Fluridone	5.98	Spike	P	0 - 30
2345138	Hydrocodone	4.05	Spike	P	0 - 30
2345138	Ibuprofen	6.79	Spike	P	0 - 30
2345138	Imazapyr	4.66	Spike	P	0 - 30
2345138	Imidacloprid	3.20	Spike	P	0 - 30
2345138	Linuron	2.34	Spike	P	0 - 30
2345138	Mandestrobin	2.84	Spike	P	0 - 30
2345138	MCPP	7.82	Spike	P	0 - 30
2345138	Naproxen	20.5	Spike	P	0 - 30
2345138	Primidone	3.82	Spike	P	0 - 30
2345138	Pyraclostrobin	2.08	Spike	P	0 - 30
2345138	Silvex	8.17	Spike	P	0 - 30
2345138	Thiamethoxam	5.22	Spike	P	0 - 30
2345138	Tolfenpyrad	5.75	Spike	P	0 - 30
2345138	Triclopyr	7.03	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P417976

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345625	Total Alkalinity	0.348	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011

Batch ID: P418117

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345591	Total Alkalinity	2.76	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011

Batch ID: P417985

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344745	TDS	4.37	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 2540 C-2011
Batch ID: P417987

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345524	TDS	3.71	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P418066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345524	TSS	6.45	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P417948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345591	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P417978

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345625	Fluoride	0.470	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P418592

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350893	Fluoride	0.470	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P417763

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345525	Organic Carbon	0.229	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P417900

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2345626	Organic Carbon	1.16	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2345646
Field Sample ID: G3SD0216

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	55.2	P	20 - 200
EPA 8270E	Simazine-d10	94.5	P	71 - 140
EPA 8270E	Terbufos-d10	100	P	62 - 131
EPA 8270E	Terphenyl-d14	93.9	P	52 - 141

Lab Sample ID: 2345647
Field Sample ID: G3SD0148

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	55.5	P	20 - 200
EPA 8270E	Simazine-d10	102	P	71 - 140
EPA 8270E	Terbufos-d10	95.3	P	62 - 131
EPA 8270E	Terphenyl-d14	97.7	P	52 - 141

Lab Sample ID: 2345648
Field Sample ID: G3SD0154

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	81.4	P	29 - 130
EPA 8270E	Decachlorobiphenyl	51.1	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	51.9	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	51.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	61.8	P	30 - 101
EPA 8276	PCNB	72.3	P	48 - 121

Lab Sample ID: 2345649
Field Sample ID: G3SD0073

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	30.0	P	20 - 200
EPA 8270E	Simazine-d10	88.3	P	71 - 140
EPA 8270E	Terbufos-d10	102	P	62 - 131
EPA 8270E	Terphenyl-d14	80.1	P	52 - 141

Lab Sample ID: 2345650
Field Sample ID: G3SD0148

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	74.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	43.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	104	P	30 - 160
EPA 8321B	Diuron-d6	85.0	P	30 - 160
EPA 8321B	Endothall-d6	96.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	89.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	60.7	P	30 - 160
EPA 8321B	Primidone-d5	121	P	30 - 160
EPA 8321B	Sucralose-d6	110	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A113881

Included Lab Sample IDs: 2345629, 2345633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	90 - 110
Color (true)	103	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A113882

Included Lab Sample IDs: 2345625, 2345627, 2345629, 2345631, 2345633

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113918

Included Lab Sample IDs: 2345651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cadmium	102	100	P/P	90 - 110
Cobalt	100	100	P/P	90 - 110
Manganese	105	104	P/P	90 - 110
Nickel	100	100	P/P	90 - 110
Silver	98.4	97.3	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113922

Included Lab Sample IDs: 2345650

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	99.5	95.1	P/P	50 - 150
2,4,5-T	94.3	100	P/P	50 - 150
Acetaminophen	101	98.0	P/P	60 - 160
Acetamiprid	88.1	100	P/P	50 - 150
Afidopyropen	91.4	96.3	P/P	50 - 150
Bentazon	99.3	93.6	P/P	50 - 160
Benzovindiflupyr	98.4	95.1	P/P	50 - 150
Carbamazepine	104	110	P/P	60 - 150
Clothianidin	108	96.3	P/P	60 - 150
Dinotefuran	102	101	P/P	50 - 150
Diuron	112	96.9	P/P	60 - 160
Fenuron	98.3	96.3	P/P	60 - 150
Fluridone	112	104	P/P	60 - 160
Hydrocodone	101	101	P/P	60 - 150
Ibuprofen	78.2	74.7	P/P	50 - 160
Imazapyr	110	115	P/P	50 - 150
Imidacloprid	99.1	94.7	P/P	60 - 150
Linuron	95.6	88.5	P/P	60 - 150
Mandestrobin	105	99.9	P/P	50 - 150
MCPP	104	97.5	P/P	50 - 150
Naproxen	68.4	75.2	P/P	50 - 160
Primidone	96.4	104	P/P	60 - 150
Pyraclostrobin	102	103	P/P	60 - 150
Silvex	89.1	87.7	P/P	50 - 150
Thiamethoxam	102	100	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A113922
Included Lab Sample IDs: 2345650

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tolfenpyrad	96.4	95.9	P/P	60 - 150
Triclopyr	78.8	81.1	P/P	50 - 150

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A113942
Included Lab Sample IDs: 2345651, 2345652, 2345653, 2345654, 2345655

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	104	P/P	90 - 110
Calcium	103	103	P/P	90 - 110
Calcium	99.1	98.8	P/P	90 - 110
Iron	103	105	P/P	90 - 110
Iron	104	103	P/P	90 - 110
Iron	99.4	99.4	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Magnesium	104	106	P/P	90 - 110
Magnesium	105	104	P/P	90 - 110
Potassium	101	102	P/P	90 - 110
Potassium	102	104	P/P	90 - 110
Sodium	97.7	98.4	P/P	90 - 110
Sodium	98.4	101	P/P	90 - 110
Strontium	97.2	98.2	P/P	90 - 110
Strontium	97.9	98.3	P/P	90 - 110
Strontium	98.2	101	P/P	90 - 110
Tin	101	98.1	P/P	90 - 110
Tin	98.1	98.8	P/P	90 - 110
Tin	99.1	99.3	P/P	90 - 110
Titanium	100	99.4	P/P	90 - 110
Titanium	101	101	P/P	90 - 110
Titanium	101	101	P/P	90 - 110
Vanadium	100	101	P/P	90 - 110
Vanadium	100	98.9	P/P	90 - 110
Vanadium	100	100	P/P	90 - 110
Zinc	96.4	97.4	P/P	90 - 110
Zinc	96.9	96.4	P/P	90 - 110
Zinc	97.8	96.8	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A113944
Included Lab Sample IDs: 2345651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.5	99.3	P/P	90 - 110
Antimony	97.9	98.1	P/P	90 - 110
Arsenic	102	102	P/P	90 - 110
Beryllium	97.3	103	P/P	90 - 110
Chromium	100	98.6	P/P	90 - 110
Copper	100	101	P/P	90 - 110
Lead	91.1	91.2	P/P	90 - 110
Molybdenum	97.7	97.4	P/P	90 - 110
Selenium	99.2	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113944

Included Lab Sample IDs: 2345651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Thallium	92.2	92.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113947

Included Lab Sample IDs: 2345650

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	98.3	102	P/P	60 - 160
Sucralose	116	114	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A113950

Included Lab Sample IDs: 2345650

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	124	123	P/P	60 - 160
Endothall	96.2	91.8	P/P	60 - 160
Glufosinate	117	103	P/P	60 - 160
Glyphosate	110	117	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A113961

Included Lab Sample IDs: 2345628, 2345630, 2345634

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	97.6	P/P	90 - 110
Organic Carbon	99.3	97.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113967

Included Lab Sample IDs: 2345626, 2345628, 2345630

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	98.0	P/P	90 - 110
Ammonia-N	99.3	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113985

Included Lab Sample IDs: 2345626, 2345632

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113986

Included Lab Sample IDs: 2345634

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	99.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113993

Included Lab Sample IDs: 2345646, 2345647, 2345649

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.3		P	80 - 120
Alachlor	96.7		P	80 - 120
Ametryn	95.7		P	80 - 120
Atrazine Desethyl	95.1		P	80 - 120
Azinphos Methyl	108		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	90.0		P	80 - 120
Butylate	98.3		P	80 - 120
Caffeine	109		P	80 - 120
Carbophenothion	110		P	80 - 120
Carfentrazone Ethyl	95.6		P	80 - 120
Chlorfenapyr	107		P	80 - 120
Chlorpyrifos Ethyl	102		P	80 - 120
Chlorpyrifos Methyl	111		P	80 - 120
Coumaphos	108		P	80 - 120
Cyanazine	92.8		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	114		P	80 - 120
Diazinon	98.9		P	80 - 120
Difenoconazole	104		P	80 - 120
Dimethenamid	95.8		P	80 - 120
Dimethomorph	85.9		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	99.2		P	80 - 120
EPTC	98.9		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	98.3		P	80 - 120
Etridiazole	96.0		P	80 - 120
Fenamiphos	90.6		P	80 - 120
Fenbuconazole	95.7		P	80 - 120
Fipronil	93.1		P	80 - 120
Fipronil Desulfinyl	93.6		P	80 - 120
Fipronil Sulfide	96.2		P	80 - 120
Fipronil Sulfone	94.2		P	80 - 120
Fluazifop-P-butyl	99.5		P	80 - 120
Fludioxonil	91.5		P	80 - 120
Flumioxazin	91.3		P	80 - 120
Flutolanil	98.3		P	80 - 120
Fluxapyroxad	92.5		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	100		P	80 - 120
Iprodione	90.4		P	80 - 120
Loratadine	107		P	80 - 120
Malathion	95.7		P	80 - 120
Metalaxyl	95.5		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	89.6		P	80 - 120
Mevinphos	90.3		P	80 - 120
Molinate	95.1		P	80 - 120
Myclobutanil	94.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113993

Included Lab Sample IDs: 2345646, 2345647, 2345649

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naled	110		P	80 - 120
Napropamide	96.5		P	80 - 120
Norflurazon	93.7		P	80 - 120
Oxadiazon	100		P	80 - 120
Oxyfluorfen	105		P	80 - 120
Parathion Ethyl	97.0		P	80 - 120
Parathion Methyl	104		P	80 - 120
Pendimethalin	101		P	80 - 120
Phenytoln	98.0		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	104		P	80 - 120
Prometon	97.2		P	80 - 120
Prometryn	95.4		P	80 - 120
Pronamide	93.6		P	80 - 120
Propanil	92.9		P	80 - 120
Propargite	97.7		P	80 - 120
Propiconazole	94.0		P	80 - 120
Pyraflufen Ethyl	99.1		P	80 - 120
Pyridaben	96.9		P	80 - 120
Pyriproxyfen	97.2		P	80 - 120
Simazine	91.1		P	80 - 120
Stiophos	111		P	80 - 120
Sulfentrazone	92.6		P	80 - 120
Tebuconazole	95.6		P	80 - 120
Terbufos	107		P	80 - 120
Terbutylazine	98.8		P	80 - 120
Thiobencarb	100		P	80 - 120
Triadimefon	100		P	80 - 120

Reference Method: EPA 8270E

Run ID: A113994

Included Lab Sample IDs: 2345646, 2345647, 2345649

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.5		P	80 - 120
Avobenzone	101		P	80 - 120
Octinoxate	95.1		P	80 - 120
Oxybenzone	92.7		P	80 - 120
PBDE-47	96.0		P	80 - 120
PBDE-99	93.6		P	80 - 120
Tri-o-cresyl Phosphate	95.9		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113996

Included Lab Sample IDs: 2345626, 2345628

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	92.9	94.8	P/P	90 - 110
Kjeldahl Nitrogen	94.3	92.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113999

Included Lab Sample IDs: 2345646, 2345647, 2345649

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	99.2		P	80 - 120
Fluxapyroxad	98.3		P	80 - 120
Hexazinone	97.9		P	80 - 120
Norflurazon	97.8		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114001

Included Lab Sample IDs: 2345628, 2345630, 2345634

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	97.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A114002

Included Lab Sample IDs: 2345629, 2345633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	99.8	P/P	90 - 110
Sulfate	98.9	99.6	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A114005

Included Lab Sample IDs: 2345626, 2345632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.6	96.5	P/P	90 - 110
Organic Carbon	97.6	94.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114014

Included Lab Sample IDs: 2345626, 2345628, 2345630, 2345632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.6	99.8	P/P	90 - 110
Total-P	99.8	100	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A114020

Included Lab Sample IDs: 2345627, 2345633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114026

Included Lab Sample IDs: 2345634

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	96.8	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A114031

Included Lab Sample IDs: 2345625, 2345631

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.8	99.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A114031

Included Lab Sample IDs: 2345625, 2345631

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114046

Included Lab Sample IDs: 2345630, 2345634

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.4	91.6	P/P	90 - 110
Kjeldahl Nitrogen	94.7	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114055

Included Lab Sample IDs: 2345632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.1	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114073

Included Lab Sample IDs: 2345648

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	106		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	93.5		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	102		P	80 - 120
Bifenthrin	97.3		P	80 - 120
Carbophenothion	101		P	80 - 120
Chlorothalonil	115		P	80 - 120
Cis-Nonachlor	104		P	80 - 120
Cypermethrin	83.4		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	104		P	80 - 120
DDE-p,p'	110		P	80 - 120
DDT-p,p'	99.3		P	80 - 120
Delta-BHC	120		P	80 - 120
Deltamethrin	101		P	80 - 120
Dichlobenil	92.9		P	80 - 120
Dicofol	100		P	80 - 120
Dieldrin	109		P	80 - 120
Endosulfan I	109		P	80 - 120
Endosulfan II	99.0		P	80 - 120
Endosulfan Sulfate	99.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114073
Included Lab Sample IDs: 2345648

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin	97.3		P	80 - 120
Endrin Aldehyde	112		P	80 - 120
Endrin Ketone	106		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	97.9		P	80 - 120
Fenpropathrin	108		P	80 - 120
Gamma-BHC	114		P	80 - 120
Gamma-Chlordane	118		P	80 - 120
Heptachlor	114		P	80 - 120
Heptachlor Epoxide	111		P	80 - 120
Hexachlorobenzene	97.5		P	80 - 120
Kepone	75.2*		F	80 - 120
Lambda-Cyhalothrin	97.5		P	80 - 120
Methoprene	106		P	80 - 120
Methoxychlor	97.0		P	80 - 120
MGK-264	106		P	80 - 120
Mirex	92.2		P	80 - 120
Oxychlordane	95.4		P	80 - 120
Permethrin	96.1		P	80 - 120
Phenothrin	91.5		P	80 - 120
Piperonyl Butoxide	96.2		P	80 - 120
Prallethrin	107		P	80 - 120
Tau-Fluvalinate	101		P	80 - 120
Tetramethrin	95.5		P	80 - 120
Trans-Nonachlor	105		P	80 - 120
Triclosan Methyl	97.4		P	80 - 120
Trifluralin	102		P	80 - 120

Reference Method: EPA 8276
Run ID: A114079
Included Lab Sample IDs: 2345648

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	104		P	80 - 120

Reference Method: EPA 8270E
Run ID: A114080
Included Lab Sample IDs: 2345648

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.5		P	80 - 120
PCB-1260	97.1		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A114102
Included Lab Sample IDs: 2345627, 2345629, 2345633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	101	P/P	90 - 110
Total Alkalinity	98.5	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114134

Included Lab Sample IDs: 2345652, 2345653, 2345654, 2345655

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	96.6	100	P/P	90 - 110
Aluminum	97.2	96.6	P/P	90 - 110
Antimony	100	99.7	P/P	90 - 110
Antimony	101	100	P/P	90 - 110
Arsenic	101	102	P/P	90 - 110
Arsenic	102	101	P/P	90 - 110
Barium	101	99.5	P/P	90 - 110
Barium	99.5	99.4	P/P	90 - 110
Beryllium	93.9	97.6	P/P	90 - 110
Beryllium	97.6	94.0	P/P	90 - 110
Boron	95.3	96.1	P/P	90 - 110
Boron	96.1	101	P/P	90 - 110
Cadmium	101	102	P/P	90 - 110
Cadmium	103	101	P/P	90 - 110
Chromium	102	102	P/P	90 - 110
Chromium	102	101	P/P	90 - 110
Cobalt	98.0	98.3	P/P	90 - 110
Cobalt	99.8	98.0	P/P	90 - 110
Copper	97.7	97.9	P/P	90 - 110
Copper	98.3	97.7	P/P	90 - 110
Lead	93.0	94.1	P/P	90 - 110
Lead	94.1	93.0	P/P	90 - 110
Manganese	101	101	P/P	90 - 110
Manganese	99.9	101	P/P	90 - 110
Molybdenum	96.6	97.0	P/P	90 - 110
Molybdenum	97.9	96.6	P/P	90 - 110
Nickel	98.7	97.3	P/P	90 - 110
Nickel	98.8	98.7	P/P	90 - 110
Selenium	102	102	P/P	90 - 110
Selenium	102	102	P/P	90 - 110
Silver	97.0	97.7	P/P	90 - 110
Silver	98.6	97.0	P/P	90 - 110
Thallium	97.9	98.6	P/P	90 - 110
Thallium	98.0	97.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114221

Included Lab Sample IDs: 2345632

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

Reference Method: SM 4500-F- C-2011

Run ID: A114295

Included Lab Sample IDs: 2345629

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

Quality Assurance Report

Calibration Verification

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	102					0.415	
EPA 180.1 Rev. 2.0	Turbidity	96.8					4.93	
EPA 200.7 Rev. 4.4	Calcium	104						2.46
	Calcium	104	103	103				3.17
	Iron	110	105	98.6				5.88
	Iron	109	109	107	109			1.74
	Magnesium	104						7.61
	Magnesium	112	110	105	107			2.86
	Potassium	107	101	96.9				2.56
	Sodium	97.6	98.1	101				3.36
	Strontium	104						4.52
	Strontium	106	101	99.6	100			1.87
	Tin	103	93.1	86.8				5.64
	Tin	102	103	102	102			1.45
	Titanium	105	109	104				4.98
	Titanium	106	106	103	105			2.43
	Vanadium	103	103	95.9				6.86
	Vanadium	104	105	102	104			2.71
	Zinc	102	102	96.3				5.81
	Zinc	101	103	100	99.9			2.57
EPA 200.8 Rev. 5.4	Aluminum	100	101	99.3				1.54
	Aluminum	94.6	95.7	95.3	99.2			0.438
	Antimony	101	101	100				1.13
	Antimony	100	101	102	104			1.14
	Arsenic	101	112	110				1.86
	Arsenic	97.0	98.6	98.7	100			0.0924
	Barium	102	102	101	103			0.332
	Beryllium	91.1	97.5	97.7				0.172
	Beryllium	91.3	94.4	93.1	91.2			1.29
	Boron	95.5	96.5	95.6				0.652
	Cadmium	99.5	95.8	98.0				2.22
	Cadmium	96.4	97.4	96.5	99.9			0.950
	Chromium	99.6	84.8	83.4				1.68
	Chromium	96.3	97.5	98.2	100			0.642
	Cobalt	98.4	106	106				0.0238
	Cobalt	94.7	94.7	94.8	97.7			0.0197
	Copper	97.5	97.4	97.4				0.0054
	Copper	92.2	94.3	95.3	94.2			1.11
	Lead	93.0	97.3	96.5				0.842
	Lead	93.3	93.7	93.2	95.5			0.480
	Manganese	103	93.6	93.2				0.288
	Manganese	96.6	97.6	97.9	100			0.299
	Molybdenum	98.0	111	109				1.58
	Molybdenum	94.3	95.1	94.2	99.3			0.928
	Nickel	98.2	105	106				0.561
	Nickel	94.8	93.7	94.8	95.5			1.13
	Selenium	99.0	99.9	99.2				0.744
	Selenium	95.0	95.4	95.1	97.2			0.282
	Silver	95.9	87.9	85.6				2.58
	Silver	97.0	95.2	95.2	96.6			0.0216
	Thallium	95.5	99.9	99.4				0.451
	Thallium	93.5	97.5	96.1	95.9			0.275
EPA 300.0 Rev. 2.1	Chloride	102	94.8	97.8			0.183	
	Sulfate	99.6	97.3	99.1			0.164	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 350.1 Rev. 2.0	Ammonia-N	95.4	109	116			5.28
	Ammonia-N	97.8	98.8	100			1.07
	Ammonia-N	95.6	99.8	101			0.691
	Ammonia-N	97.6	101	103			1.65
	Ammonia-N	97.6	101	103			1.65
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	105	109			3.43
	Kjeldahl Nitrogen	106					10.8
	Kjeldahl Nitrogen	98.9	85.6	86.6			1.09
	Kjeldahl Nitrogen	99.9					7.72
	Kjeldahl Nitrogen	103	96.7	92.7			2.99
EPA 353.2 Rev. 2.0	NO2NO3-N	100	101	101			0.464
	NO2NO3-N	97.0	98.0	98.0			0.0
EPA 365.1 Rev. 2.0	Total-P	105	99.6	97.4			2.20
	Total-P	103					1.73
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	73.2	91.7	91.9			0.160
	Acetochlor	107	111	101			9.24
	Alachlor	103	99.2	90.5			9.17
	Aldrin	50.7	55.4	60.9			9.43
	Alpha-BHC	88.5	91.1	88.4			2.91
	Alpha-Chlordane	64.5	62.8	58.9			5.63
	Ametryn	133	115	103			10.5
	Atrazine	110					5.61
	Atrazine Desethyl	87.2	70.2	67.2			3.43
	Avobenzone	72.3	85.2	90.0			5.39
	Azinphos Methyl	103	114	101			12.0
	Azoxystrobin	146	144	129			9.49
	Beta-BHC	110	98.8	111			11.3
	Beta-Cyfluthrin	63.0	89.7	125			33.3
	Bifenthrin	40.0	77.1	79.3			2.83
	Bromacil	82.1	81.3	72.2			11.9
	Butylate	48.6	50.3	52.5			4.32
	Caffeine	83.7	92.7	87.4			5.87
	Carbophenothion	70.0	72.0	70.1			2.69
	Carbophenothion	49.8	70.3	81.0			14.1
	Carfentrazone Ethyl	105	90.8	105			14.2
	Chlorfenapyr	66.8	74.1	60.5			20.2
	Chlorothalonil	91.7	95.4	152			45.7
	Chlorpyrifos Ethyl	113	93.6	83.4			11.5
	Chlorpyrifos Methyl	89.9	99.0	94.6			4.49
	Cis-Nonachlor	76.4	69.9	85.6			20.2
	Coumaphos	45.4	68.8	60.6			12.8
	Cyanazine	92.9	116	106			9.05
	Cypermethrin	59.8	83.9	108			25.1
	Cyprodinil	126	108	94.4			13.5
	Dacthal	88.7	94.8	93.9			0.913
	DDD-p,p'	76.8	56.6	75.8			25.6
	DDE-p,p'	74.5	60.9	62.5			2.15
	DDT-p,p'	69.7	76.2	64.6			15.4
	Delta-BHC	125	117	142			19.0
	Deltamethrin	73.5	100	126			22.9
	Demeton	115	123	115			6.18
	Diazinon	110	104	102			2.05
	Dichlobenil	93.9	68.1	69.3			1.77

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Dicofol	82.3	97.8	97.2			0.682
	Dieldrin	77.5	72.0	76.9			5.38
	Difenoconazole	118	158	151			4.64
	Dimethenamid	75.9	84.5	77.9			8.08
	Dimethomorph	113	126	113			11.5
	Disulfoton	104	109	96.8			11.5
	Dithiopyr	104	104	94.3			10.1
	Endosulfan I	75.2	73.1	81.2			10.6
	Endosulfan II	67.0	63.4	79.8			22.8
	Endosulfan Sulfate	79.0	76.2	94.7			21.7
	Endrin	73.8	71.5	85.8			18.2
	Endrin Aldehyde	83.3	64.3	71.4			10.4
	Endrin Ketone	105	86.2	108			22.6
	EPTC	58.0	54.3	55.5			2.15
	Esfenvalerate	57.4	118	81.6			36.5
	Ethalfuralin	67.2	78.5	72.7			7.66
	Ethion	19.3	44.9	45.9			2.16
	Ethoprop	112	113	107			6.21
	Etridiazole	69.3	66.0	62.2			5.79
	Fenamiphos	71.8	72.1	81.1			11.7
	Fenbuconazole	78.6	92.2	83.8			9.49
	Fenpropathrin	63.6	91.2	86.9			4.91
	Fipronil	98.9	100	92.0			8.47
	Fipronil Desulfinyl	102	111	99.1			10.1
	Fipronil Sulfide	93.8	95.1	91.6			3.74
	Fipronil Sulfone	89.7	79.2	69.3			11.7
	Fluazifop-P-butyl	104	104	90.7			13.9
	Fludioxonil	65.1	92.2	77.7			17.0
	Flumioxazin	60.6	114	106			6.72
	Flutolanil	85.4	107	94.6			12.5
	Fluxapyroxad	50.7	80.2	76.4			4.86
	Fonofos	106	102	96.6			5.14
	Gamma-BHC	105	102	100			1.98
	Gamma-Chlordane	69.2	65.8	69.8			5.38
	Heptachlor	64.9	67.0	67.3			0.323
	Heptachlor Epoxide	73.3	84.8	83.6			1.41
	Hexachlorobenzene	68.9	62.6	77.9			21.7
	Hexazinone	87.7	106	96.3			9.39
	Imazalil	70.8	87.5	91.4			4.31
	Iprodione	71.5	85.5	78.9			8.09
	Kepone	38.4	51.9	34.2			25.5
	Lambda-Cyhalothrin	46.0	92.7	76.6			19.0
	Loratadine	218	160	143			11.1
	Malathion	104	119	108			9.73
	Metalaxyl	102	99.6	91.3			8.74
	Methoprene	42.7	65.5	56.9			14.0
	Methoxychlor	82.6	88.0	92.7			5.16
	Metolachlor	88.0	102	98.4			3.92
	Metribuzin	112	113	104			8.07
	Mevinphos	94.2	95.6	91.1			4.84
	MGK-264	80.3	95.5	85.5			11.0
	Mirex	46.2	57.7	53.6			7.44
	Molinate	67.0	69.1	68.0			1.47
	Myclobutanil	88.1	106	89.6			16.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Naled	65.7	74.1	78.8			6.08
	Napropamide	52.4	70.8	68.6			3.12
	Norflurazon	80.7	87.3	85.4			2.17
	Octinoxate	85.6	84.1	84.3			0.219
	Oxadiazon	90.6	85.4	82.4			2.86
	Oxybenzone	82.7	77.4	85.7			10.1
	Oxychlordane	66.4	72.9	79.6			8.87
	Oxyfluorfen	96.8	101	99.7			1.44
	Parathion Ethyl	104	101	98.4			2.56
	Parathion Methyl	133	138	127			8.03
	PBDE-47	64.2	75.6	75.6			0.0498
	PBDE-99	59.1	73.1	74.7			2.15
	PCB-1016	84.2	86.5	87.1			0.723
	PCB-1260	85.9	84.3	82.1			2.61
	Pendimethalin	103	104	99.4			4.91
	Permethrin	60.6	104	82.4			22.9
	Phenothrin	40.9	91.9	68.6			29.1
	Phenytoin	15.2	28.9	28.6			0.778
	Phorate	104	83.1	84.5			1.75
	Piperonyl Butoxide	97.0	126	112			11.4
	Prallethrin	84.3	95.1	80.6			16.5
	Prodiamine	50.3	56.6	47.4			17.7
	Prometon	80.9	90.9	86.0			5.51
	Prometryn	112	108	96.2			11.6
	Pronamide	115	126	116			8.67
	Propanil	93.0	102	92.6			9.92
	Propargite	35.4	57.0	55.9			1.96
	Propiconazole	81.8	92.1	84.4			8.77
	Pyraflufen Ethyl	75.1	88.7	78.0			12.8
	Pyridaben	79.8	75.3	66.8			7.74
	Pyriproxyfen	33.6	66.4	69.4			4.40
	Simazine	95.4	104	95.3			8.71
	Stirophos	29.2	50.9	53.4			4.76
	Sulfentrazone	84.1	89.3	80.4			10.4
	Tau-Fluvalinate	49.1	66.5	77.7			15.6
	Tebuconazole	20.0	46.1	44.5			3.44
	Terbufos	114	130	118			9.41
	Terbutylazine	107	104	93.8			10.5
	Tetramethrin	78.6	122	83.0			38.1
	Thiobencarb	81.2	93.0	85.8			8.05
	Trans-Nonachlor	64.3	69.6	73.5			5.49
	Tri-o-cresyl Phosphate	78.7	81.1	80.1			1.27
	Triadimefon	82.8	97.5	90.3			7.62
	Triclosan Methyl	74.6	69.8	78.5			11.7
	Trifluralin	67.7	74.2	74.6			0.508
EPA 8276	Chlordane	99.0	108	101			6.89
	Toxaphene	98.1	126	120			5.48
EPA 8321B	2,4-D	101	86.4	81.9			4.33
	2,4,5-T	100	72.1	70.0			2.92
	Acesulfame K	99.6	82.1	84.5			2.96
	Acetaminophen	34.6	34.7	40.0			14.3
	Acetamiprid	88.1	75.5	86.4			11.8
	Afidopyropen	76.3	85.9	92.4			7.31
	AMPA	111	45.2	43.7			3.37

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Bentazon	102				8.17
	Benzovindiflupyr	94.5	94.4	96.5		2.26
	Carbamazepine	101				0.0370
	Clothianidin	98.8	105	90.5		10.3
	Dinotefuran	102				2.10
	Diuron	89.5	72.0	80.8		7.73
	Endothall	90.8	94.2	97.1		3.04
	Fenuron	96.6	88.1	86.2		2.16
	Fluridone	100	101	94.4		5.98
	Glufosinate	111	50.5	48.2		4.69
	Glyphosate	110	64.2	68.3		6.08
	Hydrocodone	96.5	104	99.8		4.05
	Ibuprofen	87.3	89.7	96.0		6.79
	Imazapyr	114	64.5	59.9		4.66
	Imidacloprid	106				3.20
	Linuron	88.6	121	124		2.34
	Mandestrobin	97.8	94.8	92.2		2.84
	MCPP	106	88.0	81.3		7.82
	Naproxen	73.4	53.4	65.6		20.5
	Primidone	98.5				3.82
	Pyraclostrobin	90.1	94.0	92.0		2.08
	Silvex	97.5	98.1	90.4		8.17
	Sucralose	113				3.64
	Thiamethoxam	104	134	141		5.22
	Tolfenpyrad	54.1	59.7	56.4		5.75
	Triclopyr	85.0	75.0	69.9		7.03
SM 2320 B-2011	Total Alkalinity	99.1			0.348	
	Total Alkalinity	99.3			2.76	
SM 2540 C-2011	TDS				4.37	
	TDS				3.71	
SM 2540 D-2011	TSS				6.45	
SM 4500-F- C-2011	Fluoride	103	99.6	99.6		0.0
	Fluoride	101	98.4	99.3		0.470
	Fluoride	99.7	98.5	97.9		0.470
SM 5310 B-2011	Organic Carbon	97.4	95.5	95.1		0.229
	Organic Carbon	99.4	87.4	88.9		1.16

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2345629, 2345633
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2345625, 2345627, 2345629, 2345631, 2345633
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2345651, 2345652, 2345653, 2345654, 2345655
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2345651, 2345652, 2345653, 2345654, 2345655
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2345629, 2345633
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2345629, 2345633
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2345626, 2345628, 2345630, 2345632, 2345634
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2345626, 2345628, 2345630, 2345632, 2345634

Reference Method Descriptions

Method	Description	Associated Samples
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2345626, 2345628, 2345630, 2345632, 2345634
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2345626, 2345628, 2345630, 2345632, 2345634
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2345646, 2345647, 2345649
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2345648
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2345646, 2345647, 2345649
EPA 8270E	PCBs in water matrices by GC/MS/MS	2345648
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2345648
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2345650
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2345625, 2345627, 2345629, 2345631, 2345633
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2345653, 2345654
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2345629, 2345633
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2345625, 2345627, 2345629, 2345631, 2345633
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2345625, 2345627, 2345629, 2345631, 2345633
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2345626, 2345628, 2345630, 2345632, 2345634

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	08/03/2022			08/03/2022 15:37	Anna M. Plaviak	2345633
	08/03/2022			08/03/2022 15:52	Anna M. Plaviak	2345629
EPA 180.1 Rev. 2.0	08/03/2022			08/03/2022 14:25	Khloe J Berg	2345625
	08/03/2022			08/03/2022 14:28	Khloe J Berg	2345629
	08/03/2022			08/03/2022 14:34	Khloe J Berg	2345627
	08/03/2022			08/03/2022 14:35	Khloe J Berg	2345631
	08/03/2022			08/03/2022 14:38	Khloe J Berg	2345633
EPA 200.7 Rev. 4.4	08/03/2022	08/04/2022 09:06	Mackenzie Hunt	08/06/2022 03:22	McKinley C Carter	2345651
	08/03/2022	08/04/2022 09:06	Mackenzie Hunt	08/06/2022 08:31	McKinley C Carter	2345651
	08/03/2022	08/05/2022 09:45	Mackenzie Hunt	08/05/2022 18:29	McKinley C Carter	2345655
	08/03/2022	08/05/2022 09:45	Mackenzie Hunt	08/05/2022 20:10	McKinley C Carter	2345652
	08/03/2022	08/05/2022 09:45	Mackenzie Hunt	08/05/2022 20:25	McKinley C Carter	2345653
EPA 200.8 Rev. 5.4	08/03/2022	08/05/2022 09:45	Mackenzie Hunt	08/05/2022 20:31	McKinley C Carter	2345654
	08/03/2022	08/04/2022 09:06	Mackenzie Hunt	08/04/2022 17:18	Alexander Thompson	2345651
	08/03/2022	08/04/2022 09:06	Mackenzie Hunt	08/05/2022 19:12	Alexander Thompson	2345651
	08/03/2022	08/05/2022 09:45	Mackenzie Hunt	08/16/2022 13:44	Emily M Philpot	2345655
	08/03/2022	08/05/2022 09:45	Mackenzie Hunt	08/16/2022 16:08	Emily M Philpot	2345652
EPA 300.0 Rev. 2.1	08/03/2022	08/05/2022 09:45	Mackenzie Hunt	08/16/2022 16:17	Emily M Philpot	2345653
	08/03/2022	08/05/2022 09:45	Mackenzie Hunt	08/16/2022 16:26	Emily M Philpot	2345654
	08/03/2022			08/09/2022 09:57	Anna M. Plaviak	2345629
	08/03/2022			08/09/2022 10:09	Anna M. Plaviak	2345633
	08/03/2022			08/08/2022 15:21	Ping Hua	2345626
EPA 350.1 Rev. 2.0	08/03/2022			08/08/2022 16:11	Ping Hua	2345628
	08/03/2022			08/08/2022 16:13	Ping Hua	2345630
	08/03/2022			08/09/2022 11:15	Ping Hua	2345634
	08/03/2022			08/19/2022 11:52	Judith K. Clark	2345632
	08/03/2022	08/05/2022 10:08	Samantha L Bates	08/09/2022 15:30	Samantha L Bates	2345626
EPA 351.2 Rev. 2.0	08/03/2022	08/05/2022 10:08	Samantha L Bates	08/09/2022 15:53	Samantha L Bates	2345628
	08/03/2022	08/08/2022 14:48	Samantha L Bates	08/11/2022 13:37	Alexandra J Mattheus	2345630
	08/03/2022	08/08/2022 14:48	Samantha L Bates	08/11/2022 14:28	Alexandra J Mattheus	2345634
	08/03/2022	08/09/2022 15:02	Alexandra J Mattheus	08/12/2022 09:46	Alexandra J Mattheus	2345632
	08/03/2022			08/09/2022 11:11	Beverly Y. Sanders	2345626
EPA 353.2 Rev. 2.0	08/03/2022			08/09/2022 11:12	Beverly Y. Sanders	2345632
	08/03/2022			08/10/2022 09:16	Beverly Y. Sanders	2345628
	08/03/2022			08/10/2022 09:18	Beverly Y. Sanders	2345630
	08/03/2022			08/10/2022 09:19	Beverly Y. Sanders	2345634
	08/03/2022	08/09/2022 09:37	Simonne.V. Calhoun	08/10/2022 15:51	James L Waggeberby	2345626
EPA 365.1 Rev. 2.0	08/03/2022	08/09/2022 09:37	Simonne.V. Calhoun	08/10/2022 15:52	James L Waggeberby	2345632
	08/03/2022	08/09/2022 09:37	Simonne.V. Calhoun	08/10/2022 16:00	James L Waggeberby	2345628
	08/03/2022	08/09/2022 09:37	Simonne.V. Calhoun	08/10/2022 16:06	James L Waggeberby	2345630
	08/03/2022	08/09/2022 09:37	Simonne.V. Calhoun	08/10/2022 16:06	James L Waggeberby	2345630

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 365.1 Rev. 2.0	08/03/2022	08/09/2022 09:37	Simonne.V. Calhoun	08/11/2022 10:47	Simonne.V. Calhoun	2345634
EPA 8270E	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 04:03	Michael Poppell	2345646
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 04:30	Michael Poppell	2345647
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 04:57	Michael Poppell	2345649
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 17:14	Lipi Saha	2345646
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 17:33	Lipi Saha	2345647
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 17:53	Lipi Saha	2345649
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 22:13	Michael Poppell	2345646
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 23:05	Michael Poppell	2345647
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 23:32	Michael Poppell	2345647
	08/03/2022	08/05/2022 08:00	Fe-Val Siddell	08/09/2022 23:58	Michael Poppell	2345649
	08/03/2022	08/08/2022 08:30	Rasheda Ghaffari	08/10/2022 18:30	Vandana T. Nagar	2345648
	08/03/2022	08/08/2022 08:30	Rasheda Ghaffari	08/12/2022 00:47	Julie Wi	2345648
EPA 8276	08/03/2022	08/08/2022 08:30	Rasheda Ghaffari	08/12/2022 05:53	Arthur Maknenko	2345648
EPA 8321B	08/03/2022	08/04/2022 13:00	Hoor Shaik	08/05/2022 14:50	Juyoung Kim	2345650
	08/03/2022	08/05/2022 09:10	Umesh Chiluwal	08/05/2022 14:27	Umesh Chiluwal	2345650
	08/03/2022	08/05/2022 09:10	Umesh Chiluwal	08/06/2022 06:17	Umesh Chiluwal	2345650
SM 2320 B-2011	08/03/2022			08/10/2022 22:53	Dale L. Simmons	2345625
	08/03/2022			08/10/2022 23:49	Dale L. Simmons	2345631
	08/03/2022			08/13/2022 08:13	Adam P Silver	2345629
	08/03/2022			08/13/2022 08:20	Adam P Silver	2345633
	08/03/2022			08/13/2022 09:53	Adam P Silver	2345627
SM 2340 B-2011	08/03/2022			08/05/2022 20:25	McKinley C Carter	2345653
	08/03/2022			08/05/2022 20:31	McKinley C Carter	2345654
SM 2540 C-2011	08/03/2022			08/05/2022 16:02	Yijie Li	2345629, 2345633
SM 2540 D-2011	08/03/2022			08/05/2022 16:02	Yijie Li	2345625, 2345627, 2345629, 2345631, 2345633
SM 4500-F- C-2011	08/03/2022			08/10/2022 06:09	Adam P Silver	2345627
	08/03/2022			08/10/2022 06:18	Adam P Silver	2345633
	08/03/2022			08/10/2022 21:04	Dale L. Simmons	2345625
	08/03/2022			08/10/2022 21:33	Dale L. Simmons	2345631
	08/03/2022			08/23/2022 23:09	Dale L. Simmons	2345629
SM 5310 B-2011	08/03/2022			08/06/2022 03:45	Khloe J Berg	2345628
	08/03/2022			08/06/2022 04:30	Khloe J Berg	2345630
	08/03/2022			08/06/2022 04:45	Khloe J Berg	2345634
	08/03/2022			08/10/2022 00:55	Khloe J Berg	2345626
	08/03/2022			08/10/2022 03:53	Khloe J Berg	2345632