

Chemical Analysis Report

SO-DIST-2022-07-08-01

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

Event Description: **2022 SMP : Myakka**

Request ID: **RQ-2022-07-04-24**

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

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 28-JUL-2022 14:28

A handwritten signature in black ink, appearing to read "Liang Lin", 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: LAKE MYAKKA (LOWER) @ MIDDLE

Collection Date/Time: 07/07/2022 10:20

Field ID: G3SD0107

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340001	DEP SOP: NU-094-1	Color (true)	120		PCU	P416367	
	EPA 180.1 Rev. 2.0	Turbidity	5.0		NTU	P416364	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P416732	
		Sulfate	250		mg SO4/L	P416963	
	SM 2320 B-2011	Total Alkalinity	13		mg CaCO3/L	P417026	
	SM 2540 C-2011	TDS	480		mg/L	P416901	
	SM 2540 D-2011	TSS	6	I	mg/L	P416815	
	SM 4500-F- C-2011	Fluoride	0.28		mg F/L	P417023	MS
2340002	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P416669	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P416704	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P416710	
	EPA 365.1 Rev. 2.0	Total-P	0.43		mg P/L	P416597	
	SM 5310 B-2011	Organic Carbon	20		mg C/L	P416468	
2340003	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.35		mg P/L	P416362	
2340021	EPA 8321B	2,4-D	0.0020	U	ug/L	P416433	
		Acesulfame K	0.10	U	ug/L	P416342	
		2,4,5-T	0.0040	U	ug/L	P416433	
		AMPA	0.22	I	ug/L	P416342	
		Acetaminophen	0.0080	U	ug/L	P416433	
		Acetamiprid	0.0020	U	ug/L	P416433	
		Endothall	0.25	U	ug/L	P416342	
		Glufosinate	0.10	U	ug/L	P416342	
		Glyphosate	0.10	U	ug/L	P416342	
		Afidopyropen	0.0020	U	ug/L	P416433	
		Bentazon	0.061		ug/L	P416433	
		Sucralose	0.16		ug/L	P416342	
		Benzovindiflupyr	0.0020	U	ug/L	P416433	
		Carbamazepine	0.0012	I	ug/L	P416433	
		Clothianidin	0.0020	U	ug/L	P416433	
		Dinotefuran	0.063		ug/L	P416433	
		Diuron	0.0020	U	ug/L	P416433	
		Fenuron	0.032	U	ug/L	P416433	
		Fluridone	0.0024	I	ug/L	P416433	
		Imazapyr	0.024		ug/L	P416433	
		Hydrocodone	0.0020	U	ug/L	P416433	
		Ibuprofen	0.080	U	ug/L	P416433	
		Imidacloprid	0.0049	I	ug/L	P416433	
		Linuron	0.0040	U	ug/L	P416433	
		Mandestrobin	0.0020	U	ug/L	P416433	
		MCPD	0.0040	U	ug/L	P416433	
		Naproxen	0.0080	U	ug/L	P416433	RPD
		Primidone	0.0040	U	ug/L	P416433	
		Pyraclostrobin	0.0020	U	ug/L	P416433	

Field ID: G3SD0107

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340021	EPA 8321B	Silvex	0.0040	U	ug/L	P416433	
		Thiamethoxam	0.0029	I	ug/L	P416433	
		Tolfenpyrad	0.0020	U	ug/L	P416433	
		Triclopyr	0.0040	U	ug/L	P416433	
2340032	EPA 8270E	Acetochlor	0.24	U	ng/L	P416296	
		Alachlor	0.24	U	ng/L	P416296	
		Ametryn	0.58	U	ng/L	P416296	
		Atrazine	3.8		ng/L	P416296	
		Atrazine Desethyl	1.5	U	ng/L	P416296	
		Azinphos Methyl	1.9	U	ng/L	P416296	
		Azoxystrobin	1.0	I	ng/L	P416296	
		Bromacil	3.0		ng/L	P416296	
		Butylate	0.39	U	ng/L	P416296	
		Caffeine**	7.3	U	ng/L	P416296	
		Carbophenothion	0.19	U	ng/L	P416296	
		Carfentrazone Ethyl	0.097	U	ng/L	P416296	
		Chlorfenapyr	0.17	U	ng/L	P416296	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P416296	
		Chlorpyrifos Methyl	0.048	U	ng/L	P416296	
		Coumaphos	0.48	U	ng/L	P416296	
		Cyanazine	3.2	U	ng/L	P416296	
		Cyprodinil	0.24	I	ng/L	P416296	
		Demeton	1.5	U	ng/L	P416296	
		Diazinon	0.12	U	ng/L	P416296	
		Difenoconazole	0.58	U	ng/L	P416296	
		Dimethenamid	0.097	UJ	ng/L	P416296	LCS
		Dimethomorph	0.17	U	ng/L	P416296	
		Disulfoton	0.48	U	ng/L	P416296	
		Dithiopyr	0.50	IV	ng/L	P416296	
		EPTC	1.2	U	ng/L	P416296	
		Ethion	0.15	UJ	ng/L	P416296	LCS
		Ethoprop	0.097	U	ng/L	P416296	
		Etridiazole	0.15	U	ng/L	P416296	
		Fenamiphos	0.48	U	ng/L	P416296	
		Fenbuconazole	0.12	U	ng/L	P416296	
		Fipronil	0.24	U	ng/L	P416296	
		Fipronil Desulfinyl**	0.15	I	ng/L	P416296	
		Fipronil Sulfide	0.15	U	ng/L	P416296	
		Fipronil Sulfone	0.33	I	ng/L	P416296	
		Fluazifop-P-butyl	0.097	U	ng/L	P416296	
		Fludioxonil	0.23	I	ng/L	P416296	
		Flumioxazin	1.7	U	ng/L	P416296	RPD
		Flutolanil	5.3		ng/L	P416296	
		Fluxapyroxad	53		ng/L	P416296	
		Fonofos	0.19	U	ng/L	P416296	

Field ID: G3SD0107

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340032	EPA 8270E	Hexazinone	3.4		ng/L	P416296	
		Imazalil	0.73	U	ng/L	P416296	
		Iprodione	0.58	U	ng/L	P416296	
		Loratadine**	0.097	U	ng/L	P416296	
		Malathion	10		ng/L	P416296	
		Metalaxyl	1.2	I	ng/L	P416296	
		Metolachlor	12		ng/L	P416296	
		Metribuzin	2.4	U	ng/L	P416296	
		Mevinphos	1.0	U	ng/L	P416296	
		Molinate	0.29	U	ng/L	P416296	
		Myclobutanil	0.24	U	ng/L	P416296	
		Naled	1.5	U	ng/L	P416296	
		Napropamide	0.39	UJ	ng/L	P416296	LCS
		Norflurazon	2.6		ng/L	P416296	
		Oxadiazon	0.29	U	ng/L	P416296	
		Oxyfluorfen	0.15	U	ng/L	P416296	
		Parathion Ethyl	0.24	U	ng/L	P416296	
		Parathion Methyl	0.53	U	ng/L	P416296	
		Pendimethalin	0.97	U	ng/L	P416296	
		Phenytol**	3.4	UJ	ng/L	P416296	LCS, MS
		Phorate	0.51	U	ng/L	P416296	
		Prodiamine	0.17	U	ng/L	P416296	
		Prometon	0.87	U	ng/L	P416296	
		Prometryn	0.19	U	ng/L	P416296	
		Pronamide	0.15	U	ng/L	P416296	
		Propanil	0.12	U	ng/L	P416296	
		Propargite	1.5	UJ	ng/L	P416296	LCS
		Propiconazole	0.48	U	ng/L	P416296	
		Pyraflufen Ethyl	0.24	U	ng/L	P416296	
		Pyridaben	0.44	U	ng/L	P416296	
		Pyriproxyfen	0.12	U	ng/L	P416296	
		Simazine	0.48	U	ng/L	P416296	
		Stirophos	0.12	U	ng/L	P416296	MS
		Sulfentrazone	2.8		ng/L	P416296	
		Tebuconazole	0.48	U	ng/L	P416296	
		Terbufos	0.097	U	ng/L	P416296	
		Terbuthylazine	0.41	U	ng/L	P416296	
		Thiobencarb	0.58	U	ng/L	P416296	
		Triadimefon	0.24	U	ng/L	P416296	
2340043	EPA 200.7 Rev. 4.4	Calcium	62.5		mg/L	P416378	
		Iron	320		ug/L	P416378	
		Magnesium	31.8		mg/L	P416378	
		Potassium	8.8		mg/L	P416378	
		Sodium	16.9		mg/L	P416378	
		Strontium	4.15E+03		ug/L	P416378	

Field ID: G3SD0107

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340043	EPA 200.7 Rev. 4.4	Tin	15	U	ug/L	P416378	
		Titanium	2.3	I	ug/L	P416378	
		Vanadium	2.0	U	ug/L	P416378	
		Zinc	5.2	I	ug/L	P416378	
	EPA 200.8 Rev. 5.4	Aluminum	102		ug/L	P416378	
		Antimony	0.074	I	ug/L	P416378	
		Arsenic	1.38		ug/L	P416378	
		Barium	21.1		ug/L	P416378	
		Beryllium	0.021	I	ug/L	P416378	
		Boron	42.2		ug/L	P416378	
		Cadmium	0.020	U	ug/L	P416378	
		Chromium	0.46	I	ug/L	P416378	
		Cobalt	0.219		ug/L	P416378	
		Copper	0.81		ug/L	P416616	
		Lead	0.21	I	ug/L	P416616	
		Manganese	63.3		ug/L	P416378	
		Molybdenum	0.30	I	ug/L	P416378	
		Nickel	0.52	I	ug/L	P416616	
		Selenium	0.20	U	ug/L	P416378	
		Silver	0.010	U	ug/L	P416378	
		Thallium	0.10	U	ug/L	P416378	
	SM 2340 B-2011	Hardness	287		mg/L	P416378	

Ref. Method and Comment:

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

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

EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blank and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: LAKE MYAKKA (UPPER) @ MIDDLE

Collection Date/Time: 07/07/2022 13:55

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340004	DEP SOP: NU-094-1	Color (true)	130		PCU	P416367	
	EPA 180.1 Rev. 2.0	Turbidity	2.6		NTU	P416364	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P416732	
		Sulfate	260		mg SO4/L	P416963	
	SM 2320 B-2011	Total Alkalinity	20		mg CaCO3/L	P417026	
	SM 2540 C-2011	TDS	490		mg/L	P416901	
	SM 2540 D-2011	TSS	2	I	mg/L	P416815	
	SM 4500-F- C-2011	Fluoride	0.25		mg F/L	P417023	MS
2340005	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P416669	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P416705	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P416712	
	EPA 365.1 Rev. 2.0	Total-P	0.38		mg P/L	P416597	
	SM 5310 B-2011	Organic Carbon	20		mg C/L	P416468	
2340023	EPA 8321B	Aldicarb	0.020	U	ug/L	P416370	
		Aldicarb Sulfone	0.0020	U	ug/L	P416370	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P416370	
		Carbaryl	0.0020	U	ug/L	P416370	MS
		Carbofuran	0.0020	U	ug/L	P416370	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P416370	
		Methiocarb	0.0020	U	ug/L	P416370	
		Methomyl	0.0020	U	ug/L	P416370	
		Oxamyl	0.0020	U	ug/L	P416370	
		Propoxur	0.0020	U	ug/L	P416370	
2340024		2,4-D	0.0020	U	ug/L	P416433	
		Acesulfame K	0.10	U	ug/L	P416342	
		2,4,5-T	0.0040	U	ug/L	P416433	
		AMPA	0.34	I	ug/L	P416342	
		Acetaminophen	0.0080	U	ug/L	P416433	
		Acetamiprid	0.0020	U	ug/L	P416433	
		Endothall	0.25	U	ug/L	P416342	
		Glufosinate	0.10	U	ug/L	P416342	
		Glyphosate	0.10	U	ug/L	P416342	
		Afidopyropen	0.0020	U	ug/L	P416433	
		Bentazon	0.027		ug/L	P416433	
		Sucralose	0.048		ug/L	P416342	
		Benzovindiflupyr	0.0020	U	ug/L	P416433	
		Carbamazepine	8.0E-04	U	ug/L	P416433	
		Clothianidin	0.0020	U	ug/L	P416433	
		Dinotefuran	0.087		ug/L	P416433	
		Diuron	0.0020	U	ug/L	P416433	
		Fenuron	0.032	U	ug/L	P416433	
		Fluridone	0.0015	I	ug/L	P416433	
		Imazapyr	0.033		ug/L	P416433	
		Hydrocodone	0.0020	U	ug/L	P416433	

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340024	EPA 8321B	Ibuprofen	0.080	U	ug/L	P416433	
		Imidacloprid	0.0030	I	ug/L	P416433	
		Linuron	0.0040	U	ug/L	P416433	
		Mandestrobin	0.0020	U	ug/L	P416433	
		MCP	0.0040	U	ug/L	P416433	
		Naproxen	0.0080	U	ug/L	P416433	RPD
		Primidone	0.0040	U	ug/L	P416433	
		Pyraclostrobin	0.0020	U	ug/L	P416433	
		Silvex	0.0040	U	ug/L	P416433	
		Thiamethoxam	0.0021	I	ug/L	P416433	
		Tolfenpyrad	0.0020	U	ug/L	P416433	
		Triclopyr	0.0040	U	ug/L	P416433	
2340034	EPA 8270E	Aldrin	0.67	U	ng/L	P416453	
		Alpha-BHC	0.10	U	ng/L	P416453	
		Alpha-Chlordane	0.21	U	ng/L	P416453	
		PCB-1016	2.1	U	ng/L	P416453	
		Beta-BHC	0.10	U	ng/L	P416453	
		PCB-1221	2.1	U	ng/L	P416453	
		Beta-Cyfluthrin	1.3	U	ng/L	P416453	
		PCB-1232	2.1	U	ng/L	P416453	
		Bifenthrin	0.52	U	ng/L	P416453	
		PCB-1242	2.1	U	ng/L	P416453	
		PCB-1248	2.1	U	ng/L	P416453	
		Chlorothalonil	1.3	U	ng/L	P416453	
		PCB-1254	2.1	U	ng/L	P416453	
		Cis-Nonachlor	0.21	U	ng/L	P416453	
		PCB-1260	2.1	U	ng/L	P416453	
		Cypermethrin	1.6	U	ng/L	P416453	
		Dacthal	0.16	U	ng/L	P416453	
		DDD-p,p'	0.26	U	ng/L	P416453	
		DDE-p,p'	0.21	U	ng/L	P416453	
		DDT-p,p'	0.26	U	ng/L	P416453	
		Delta-BHC	0.41	U	ng/L	P416453	
		Deltamethrin	1.3	U	ng/L	P416453	
		Dichlobenil	0.26	U	ng/L	P416453	
		Dicofol	1.3	U	ng/L	P416453	
		Dieldrin	0.41	U	ng/L	P416453	
		Endosulfan I	0.41	U	ng/L	P416453	
		Endosulfan II	0.41	U	ng/L	P416453	
		Endosulfan Sulfate	0.31	U	ng/L	P416453	
		Endrin	0.41	U	ng/L	P416453	
		Endrin Aldehyde	0.78	U	ng/L	P416453	
		Endrin Ketone	0.41	U	ng/L	P416453	
		Esfenvalerate	0.78	U	ng/L	P416453	
		Ethalfuralin	0.16	U	ng/L	P416453	

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340034	EPA 8270E	Fenpropathrin	0.26	U	ng/L	P416453	
		Gamma-BHC	0.13	U	ng/L	P416453	
		Gamma-Chlordane	0.21	U	ng/L	P416453	
		Heptachlor	0.21	U	ng/L	P416453	
		Heptachlor Epoxide	0.26	U	ng/L	P416453	
		Hexachlorobenzene**	1.0	U	ng/L	P416453	
		Kepone	5.2	U	ng/L	P416453	
		Lambda-Cyhalothrin	0.78	U	ng/L	P416453	
		Methoprene	0.78	U	ng/L	P416453	
		Methoxychlor	0.31	U	ng/L	P416453	
		MGK-264	0.21	U	ng/L	P416453	
		Mirex	0.36	U	ng/L	P416453	
		Oxychlordane	0.31	U	ng/L	P416453	
		Permethrin	1.7	U	ng/L	P416453	
		Phenothrin	0.93	U	ng/L	P416453	
		Piperonyl Butoxide	0.17	IJ	ng/L	P416453	LCS
		Prallethrin	2.1	U	ng/L	P416453	
		Tau-Fluvalinate	0.26	U	ng/L	P416453	
		Tetramethrin	0.78	U	ng/L	P416453	MS
		Trans-Nonachlor	0.21	U	ng/L	P416453	
		Triclosan Methyl	0.16	U	ng/L	P416453	
		Trifluralin	0.21	U	ng/L	P416453	
2340035	EPA 8270E	Chlordane	2.6	U	ng/L	P416453	
		Toxaphene	16	U	ng/L	P416453	
		Oxybenzone**	9.8	U	ng/L	P416296	
		Acetochlor	0.24	U	ng/L	P416296	
		Octinoxate**	20	U	ng/L	P416296	
		Alachlor	0.24	U	ng/L	P416296	
		Avobenzone**	98	U	ng/L	P416296	
		Ametryn	0.59	U	ng/L	P416296	
		Atrazine	1.5		ng/L	P416296	
		PBDE-47**	3.9	U	ng/L	P416296	
		Atrazine Desethyl	1.5	U	ng/L	P416296	
		PBDE-99**	4.9	U	ng/L	P416296	
		Azinphos Methyl	2.0	U	ng/L	P416296	
		Tri-o-cresyl Phosphate**	5.9	U	ng/L	P416296	
		Azoxystrobin	1.1	I	ng/L	P416296	
		Bromacil	3.3		ng/L	P416296	
		2-Ethylhexyl	12	U	ng/L	P416296	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.39	U	ng/L	P416296	
		Caffeine**	7.3	U	ng/L	P416296	
		Carbophenothion	0.20	U	ng/L	P416296	
		Carfentrazone Ethyl	0.098	U	ng/L	P416296	
		Chlorfenapyr	0.17	U	ng/L	P416296	

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340035	EPA 8270E	Chlorpyrifos Ethyl	0.24	U	ng/L	P416296	
		Chlorpyrifos Methyl	0.049	U	ng/L	P416296	
		Coumaphos	0.49	U	ng/L	P416296	
		Cyanazine	3.2	U	ng/L	P416296	
		Cyprodinil	0.098	U	ng/L	P416296	
		Demeton	1.5	U	ng/L	P416296	
		Diazinon	0.12	U	ng/L	P416296	
		Difenoconazole	0.59	U	ng/L	P416296	
		Dimethenamid	0.098	UJ	ng/L	P416296	LCS
		Dimethomorph	0.17	U	ng/L	P416296	
		Disulfoton	0.49	U	ng/L	P416296	
		Dithiopyr	0.31	IV	ng/L	P416296	
		EPTC	1.2	U	ng/L	P416296	
		Ethion	0.15	UJ	ng/L	P416296	LCS
		Ethoprop	0.098	U	ng/L	P416296	
		Etridiazole	0.15	U	ng/L	P416296	
		Fenamiphos	0.49	U	ng/L	P416296	
		Fenbuconazole	0.12	U	ng/L	P416296	
		Fipronil	0.24	U	ng/L	P416296	
		Fipronil Desulfinyl**	0.12	U	ng/L	P416296	
		Fipronil Sulfide	0.15	U	ng/L	P416296	
		Fipronil Sulfone	0.32	I	ng/L	P416296	
		Fluazifop-P-butyl	0.098	U	ng/L	P416296	
		Fludioxonil	0.15	I	ng/L	P416296	
		Flumioxazin	1.7	U	ng/L	P416296	RPD
		Flutolanil	3.3		ng/L	P416296	
		Fluxapyroxad	11		ng/L	P416296	
		Fonofos	0.20	U	ng/L	P416296	
		Hexazinone	4.6		ng/L	P416296	
		Imazalil	0.73	U	ng/L	P416296	
		Iprodione	0.59	U	ng/L	P416296	
		Loratadine**	0.098	U	ng/L	P416296	
		Malathion	11		ng/L	P416296	
		Metalaxyl	0.73	U	ng/L	P416296	
		Metolachlor	5.0		ng/L	P416296	
		Metribuzin	2.4	U	ng/L	P416296	
		Mevinphos	1.0	U	ng/L	P416296	
		Molinate	0.29	U	ng/L	P416296	
		Myclobutanil	0.24	U	ng/L	P416296	
		Naled	1.5	U	ng/L	P416296	
		Napropamide	0.39	UJ	ng/L	P416296	LCS
		Norflurazon	2.7		ng/L	P416296	
		Oxadiazon	0.29	U	ng/L	P416296	
		Oxyfluorfen	0.15	U	ng/L	P416296	
		Parathion Ethyl	0.24	U	ng/L	P416296	

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340035	EPA 8270E	Parathion Methyl	0.54	U	ng/L	P416296	LCS, MS
		Pendimethalin	0.98	U	ng/L	P416296	
		Phenytain**	3.4	UJ	ng/L	P416296	
		Phorate	0.51	U	ng/L	P416296	
		Prodiamine	0.17	U	ng/L	P416296	
		Prometon	0.88	U	ng/L	P416296	
		Prometryn	0.20	U	ng/L	P416296	
		Pronamide	0.15	U	ng/L	P416296	
		Propanil	0.12	U	ng/L	P416296	
		Propargite	1.5	UJ	ng/L	P416296	
		Propiconazole	0.49	U	ng/L	P416296	LCS
		Pyraflufen Ethyl	0.24	U	ng/L	P416296	
		Pyridaben	0.44	U	ng/L	P416296	
		Pyriproxyfen	0.12	U	ng/L	P416296	
		Simazine	0.49	U	ng/L	P416296	
		Stiropfos	0.12	U	ng/L	P416296	MS
		Sulfentrazone	1.8	I	ng/L	P416296	
		Tebuconazole	0.49	U	ng/L	P416296	
		Terbufos	0.098	U	ng/L	P416296	
		Terbutylazine	0.42	U	ng/L	P416296	
		Thiobencarb	0.59	U	ng/L	P416296	
		Triadimefon	0.24	U	ng/L	P416296	

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 kepone 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 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blank and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB

Collection Date/Time: 07/07/2022 14:15

Field ID: FB_07072022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340006	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P416367	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P416364	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P416732	
		Sulfate	0.20	U	mg SO4/L	P416735	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P417026	
	SM 2540 C-2011	TDS	15	U	mg/L	P416901	
	SM 2540 D-2011	TSS	2	U	mg/L	P416815	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P417023	MS
2340007	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P416669	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P416623	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P416710	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P416597	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P416468	
2340025	EPA 8321B	Aldicarb	0.020	U	ug/L	P416370	
		Aldicarb Sulfone	0.0020	U	ug/L	P416370	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P416370	
		Carbaryl	0.0020	U	ug/L	P416370	MS
		Carbofuran	0.0020	U	ug/L	P416370	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P416370	
		Methiocarb	0.0020	U	ug/L	P416370	
		Methomyl	0.0020	U	ug/L	P416370	
		Oxamyl	0.0020	U	ug/L	P416370	
		Propoxur	0.0020	U	ug/L	P416370	
2340026		2,4-D	0.0020	U	ug/L	P416433	
		Acesulfame K	0.10	U	ug/L	P416342	
		2,4,5-T	0.0040	U	ug/L	P416433	
		AMPA	0.10	U	ug/L	P416342	
		Acetaminophen	0.0080	U	ug/L	P416433	
		Acetamiprid	0.0020	U	ug/L	P416433	
		Endothall	0.25	U	ug/L	P416342	
		Glufosinate	0.10	U	ug/L	P416342	
		Glyphosate	0.10	U	ug/L	P416342	
		Afidopyropen	0.0020	U	ug/L	P416433	
		Bentazon	8.0E-04	U	ug/L	P416433	
		Sucralose	0.010	U	ug/L	P416342	
		Benzovindiflupyr	0.0020	U	ug/L	P416433	
		Carbamazepine	8.0E-04	U	ug/L	P416433	
		Clothianidin	0.0020	U	ug/L	P416433	
		Dinotefuran	0.0020	U	ug/L	P416433	
		Diuron	0.0020	U	ug/L	P416433	
		Fenuron	0.032	U	ug/L	P416433	
		Fluridone	8.0E-04	U	ug/L	P416433	
		Imazapyr	0.0040	U	ug/L	P416433	
		Hydrocodone	0.0020	U	ug/L	P416433	

Field ID: FB_07072022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340026	EPA 8321B	Ibuprofen	0.080	U	ug/L	P416433	
		Imidacloprid	0.0020	U	ug/L	P416433	
		Linuron	0.0040	U	ug/L	P416433	
		Mandestrobin	0.0020	U	ug/L	P416433	
		MCP	0.0040	U	ug/L	P416433	
		Naproxen	0.0080	U	ug/L	P416433	RPD
		Primidone	0.0040	U	ug/L	P416433	
		Pyraclostrobin	0.0020	U	ug/L	P416433	
		Silvex	0.0040	U	ug/L	P416433	
		Thiamethoxam	0.0020	U	ug/L	P416433	
		Tolfenpyrad	0.0020	U	ug/L	P416433	
		Triclopyr	0.0040	U	ug/L	P416433	
2340036	EPA 8270E	Aldrin	0.75	U	ng/L	P416453	
		Alpha-BHC	0.12	U	ng/L	P416453	
		Alpha-Chlordane	0.23	U	ng/L	P416453	
		PCB-1016	2.3	U	ng/L	P416453	
		Beta-BHC	0.12	U	ng/L	P416453	
		PCB-1221	2.3	U	ng/L	P416453	
		Beta-Cyfluthrin	1.4	U	ng/L	P416453	
		PCB-1232	2.3	U	ng/L	P416453	
		Bifenthrin	0.58	U	ng/L	P416453	
		PCB-1242	2.3	U	ng/L	P416453	
		PCB-1248	2.3	U	ng/L	P416453	
		Chlorothalonil	1.4	U	ng/L	P416453	
		PCB-1254	2.3	U	ng/L	P416453	
		Cis-Nonachlor	0.23	U	ng/L	P416453	
		PCB-1260	2.3	U	ng/L	P416453	
		Cypermethrin	1.7	U	ng/L	P416453	
		Dacthal	0.17	U	ng/L	P416453	
		DDD-p,p'	0.29	U	ng/L	P416453	
		DDE-p,p'	0.23	U	ng/L	P416453	
		DDT-p,p'	0.29	U	ng/L	P416453	
		Delta-BHC	0.46	U	ng/L	P416453	
		Deltamethrin	1.4	U	ng/L	P416453	
		Dichlobenil	0.29	U	ng/L	P416453	
		Dicofol	1.4	U	ng/L	P416453	
		Dieldrin	0.46	U	ng/L	P416453	
		Endosulfan I	0.46	U	ng/L	P416453	
		Endosulfan II	0.46	U	ng/L	P416453	
		Endosulfan Sulfate	0.35	U	ng/L	P416453	
		Endrin	0.46	U	ng/L	P416453	
		Endrin Aldehyde	0.86	U	ng/L	P416453	
		Endrin Ketone	0.46	U	ng/L	P416453	
		Esfenvalerate	0.86	U	ng/L	P416453	
		Ethalfuralin	0.17	U	ng/L	P416453	

Field ID: FB_07072022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2340036	EPA 8270E	Fenpropathrin	0.29	U	ng/L	P416453		
		Gamma-BHC	0.14	U	ng/L	P416453		
		Gamma-Chlordane	0.23	U	ng/L	P416453		
		Heptachlor	0.23	U	ng/L	P416453		
		Heptachlor Epoxide	0.29	U	ng/L	P416453		
		Hexachlorobenzene**	1.2	U	ng/L	P416453		
		Kepone	5.8	U	ng/L	P416453		
		Lambda-Cyhalothrin	0.86	U	ng/L	P416453		
		Methoprene	0.86	U	ng/L	P416453		
		Methoxychlor	0.35	U	ng/L	P416453		
		MGK-264	0.23	U	ng/L	P416453		
		Mirex	0.40	U	ng/L	P416453		
		Oxychlordane	0.35	U	ng/L	P416453		
		Permethrin	1.8	U	ng/L	P416453		
		Phenothrin	1.0	U	ng/L	P416453		
		Piperonyl Butoxide	0.17	UJ	ng/L	P416453	LCS	
		Prallethrin	2.3	U	ng/L	P416453		
		Tau-Fluvalinate	0.29	U	ng/L	P416453		
		Tetramethrin	0.86	U	ng/L	P416453	MS	
		Trans-Nonachlor	0.23	U	ng/L	P416453		
		Triclosan Methyl	0.17	U	ng/L	P416453		
		Trifluralin	0.23	U	ng/L	P416453		
		EPA 8276	Chlordane	2.9	U	ng/L	P416453	
			Toxaphene	17	U	ng/L	P416453	
2340037	EPA 8270E	Oxybenzone**	1.2E+03		ng/L	P416296		
		Acetochlor	0.24	U	ng/L	P416296		
		Octinoxate**	19	U	ng/L	P416296		
		Alachlor	0.24	U	ng/L	P416296		
		Avobenzone**	97	U	ng/L	P416296		
		Ametryn	0.58	U	ng/L	P416296		
		Atrazine	0.24	U	ng/L	P416296		
		PBDE-47**	3.9	U	ng/L	P416296		
		Atrazine Desethyl	1.5	U	ng/L	P416296		
		PBDE-99**	4.8	U	ng/L	P416296		
		Azinphos Methyl	1.9	U	ng/L	P416296		
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P416296		
		Azoxystrobin	0.48	U	ng/L	P416296		
		Bromacil	0.48	U	ng/L	P416296		
		2-Ethylhexyl	12	U	ng/L	P416296		
		2,3,4,5-tetrabromobenzoate (EHTBB)**						
		Butylate	0.39	U	ng/L	P416296		
		Caffeine**	7.3	U	ng/L	P416296		
		Carbophenothion	0.19	U	ng/L	P416296		
		Carfentrazone Ethyl	0.097	U	ng/L	P416296		
		Chlorfenapyr	0.17	U	ng/L	P416296		

Field ID: FB_07072022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340037	EPA 8270E	Chlorpyrifos Ethyl	0.24	U	ng/L	P416296	
		Chlorpyrifos Methyl	0.048	U	ng/L	P416296	
		Coumaphos	0.48	U	ng/L	P416296	
		Cyanazine	3.1	U	ng/L	P416296	
		Cyprodinil	0.097	U	ng/L	P416296	
		Demeton	1.5	U	ng/L	P416296	
		Diazinon	0.12	U	ng/L	P416296	
		Difenoconazole	0.58	U	ng/L	P416296	
		Dimethenamid	0.097	UJ	ng/L	P416296	LCS
		Dimethomorph	0.17	U	ng/L	P416296	
		Disulfoton	0.48	U	ng/L	P416296	
		Dithiopyr	0.47	IV	ng/L	P416296	
		EPTC	1.2	U	ng/L	P416296	
		Ethion	0.15	UJ	ng/L	P416296	LCS
		Ethoprop	0.097	U	ng/L	P416296	
		Etridiazole	0.15	U	ng/L	P416296	
		Fenamiphos	0.48	U	ng/L	P416296	
		Fenbuconazole	0.12	U	ng/L	P416296	
		Fipronil	0.24	U	ng/L	P416296	
		Fipronil Desulfinyl**	0.12	U	ng/L	P416296	
		Fipronil Sulfide	0.15	U	ng/L	P416296	
		Fipronil Sulfone	0.15	U	ng/L	P416296	
		Fluazifop-P-butyl	0.097	U	ng/L	P416296	
		Fludioxonil	0.12	U	ng/L	P416296	
		Flumioxazin	1.7	U	ng/L	P416296	RPD
		Flutolanil	0.097	U	ng/L	P416296	
		Fluxapyroxad	0.097	U	ng/L	P416296	
		Fonofos	0.19	U	ng/L	P416296	
		Hexazinone	0.48	U	ng/L	P416296	
		Imazalil	0.73	U	ng/L	P416296	
		Iprodione	0.58	U	ng/L	P416296	
		Loratadine**	0.097	U	ng/L	P416296	
		Malathion	0.34	U	ng/L	P416296	
		Metalaxyl	0.73	U	ng/L	P416296	
		Metolachlor	0.34	U	ng/L	P416296	
		Metribuzin	2.4	U	ng/L	P416296	
		Mevinphos	1.0	U	ng/L	P416296	
		Molinate	0.29	U	ng/L	P416296	
		Myclobutanil	0.24	U	ng/L	P416296	
		Naled	1.5	U	ng/L	P416296	
		Napropamide	0.39	UJ	ng/L	P416296	LCS
		Norflurazon	0.48	U	ng/L	P416296	
		Oxadiazon	0.29	U	ng/L	P416296	
		Oxyfluorfen	0.15	U	ng/L	P416296	
		Parathion Ethyl	0.24	U	ng/L	P416296	

Field ID: FB_07072022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340037	EPA 8270E	Parathion Methyl	0.53	U	ng/L	P416296	LCS, MS
		Pendimethalin	0.97	U	ng/L	P416296	
		Phenytain**	3.4	UJ	ng/L	P416296	
		Phorate	0.51	U	ng/L	P416296	
		Prodiamine	0.17	U	ng/L	P416296	
		Prometon	0.87	U	ng/L	P416296	
		Prometryn	0.19	U	ng/L	P416296	
		Pronamide	0.15	U	ng/L	P416296	
		Propanil	0.12	U	ng/L	P416296	
		Propargite	1.5	UJ	ng/L	P416296	LCS
		Propiconazole	0.48	U	ng/L	P416296	
		Pyraflufen Ethyl	0.24	U	ng/L	P416296	
		Pyridaben	0.44	U	ng/L	P416296	
		Pyriproxyfen	0.12	U	ng/L	P416296	
		Simazine	0.48	U	ng/L	P416296	MS
		Stirophos	0.12	U	ng/L	P416296	
		Sulfentrazone	0.48	U	ng/L	P416296	
		Tebuconazole	0.48	U	ng/L	P416296	
		Terbufos	0.097	U	ng/L	P416296	
		Terbutylazine	0.41	U	ng/L	P416296	
		Thiobencarb	0.58	U	ng/L	P416296	
		Triadimefon	0.24	U	ng/L	P416296	

Ref. Method and Comment:

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

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

EPA 8270E: MS accuracy for kepone 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 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blank and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: SOUTH CREEK @ HONORE AVE

Collection Date/Time: 07/07/2022 15:15

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340022	EPA 8321B	2,4-D	0.023		ug/L	P416433	
		Acesulfame K	0.10	U	ug/L	P416342	
		2,4,5-T	0.0040	U	ug/L	P416433	
		AMPA	0.34	I	ug/L	P416342	
		Acetaminophen	0.0080	U	ug/L	P416433	
		Acetamiprid	0.0020	U	ug/L	P416433	
		Endothall	0.25	U	ug/L	P416342	
		Glufosinate	0.10	U	ug/L	P416342	
		Glyphosate	0.90		ug/L	P416342	
		Afidopyropen	0.0020	U	ug/L	P416433	
		Bentazon	0.019		ug/L	P416433	
		Sucralose	1.9		ug/L	P416342	
		Benzovindiflupyr	0.0020	U	ug/L	P416433	
		Carbamazepine	0.0059		ug/L	P416433	
		Clothianidin	0.0020	U	ug/L	P416433	
		Dinotefuran	0.0020	U	ug/L	P416433	
		Diuron	0.0020	U	ug/L	P416433	
		Fenuron	0.032	U	ug/L	P416433	
		Fluridone	0.21		ug/L	P416433	
		Imazapyr	0.20		ug/L	P416433	
		Hydrocodone	0.0020	U	ug/L	P416433	
		Ibuprofen	0.080	U	ug/L	P416433	
		Imidacloprid	0.020		ug/L	P416433	
		Linuron	0.0040	U	ug/L	P416433	
		Mandestrobin	0.0020	U	ug/L	P416433	
		MCPP	0.0040	U	ug/L	P416433	
		Naproxen	0.0080	U	ug/L	P416433	RPD
		Primidone	0.031		ug/L	P416433	
		Pyraclostrobin	0.0020	U	ug/L	P416433	
		Silvex	0.0040	U	ug/L	P416433	
		Thiamethoxam	0.0020	U	ug/L	P416433	
		Tolfenpyrad	0.0020	U	ug/L	P416433	
		Triclopyr	0.0040	U	ug/L	P416433	
2340033	EPA 8270E	Aldrin	0.67	U	ng/L	P416453	
		Alpha-BHC	0.10	U	ng/L	P416453	
		Alpha-Chlordane	0.21	U	ng/L	P416453	
		PCB-1016	2.1	U	ng/L	P416453	
		Beta-BHC	0.10	U	ng/L	P416453	
		PCB-1221	2.1	U	ng/L	P416453	
		Beta-Cyfluthrin	1.3	U	ng/L	P416453	
		PCB-1232	2.1	U	ng/L	P416453	
		Bifenthrin	0.52	U	ng/L	P416453	
		PCB-1242	2.1	U	ng/L	P416453	
		Carbophenothion	0.93	U	ng/L	P416453	

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340033	EPA 8270E	PCB-1248	2.1	U	ng/L	P416453	
		Chlorothalonil	1.3	U	ng/L	P416453	
		PCB-1254	2.1	U	ng/L	P416453	
		Cis-Nonachlor	0.21	U	ng/L	P416453	
		PCB-1260	2.1	U	ng/L	P416453	
		Cypermethrin	1.5	U	ng/L	P416453	
		Dacthal	0.15	U	ng/L	P416453	
		DDD-p,p'	0.26	U	ng/L	P416453	
		DDE-p,p'	0.21	U	ng/L	P416453	
		DDT-p,p'	0.46	I	ng/L	P416453	
		Delta-BHC	0.41	U	ng/L	P416453	
		Deltamethrin	1.3	U	ng/L	P416453	
		Dichlobenil	0.26	U	ng/L	P416453	
		Dicofol	1.3	U	ng/L	P416453	
		Dieldrin	0.41	U	ng/L	P416453	
		Endosulfan I	0.41	U	ng/L	P416453	
		Endosulfan II	0.41	U	ng/L	P416453	
		Endosulfan Sulfate	0.31	U	ng/L	P416453	
		Endrin	0.41	U	ng/L	P416453	
		Endrin Aldehyde	0.77	U	ng/L	P416453	
		Endrin Ketone	0.41	U	ng/L	P416453	
		Esfenvalerate	0.77	U	ng/L	P416453	
		Ethalfuralin	0.15	U	ng/L	P416453	
		Fenpropathrin	0.26	U	ng/L	P416453	
		Gamma-BHC	0.13	U	ng/L	P416453	
		Gamma-Chlordane	0.21	U	ng/L	P416453	
		Heptachlor	0.21	U	ng/L	P416453	
		Heptachlor Epoxide	0.26	U	ng/L	P416453	
		Hexachlorobenzene**	1.0	U	ng/L	P416453	
		Kepone	5.2	U	ng/L	P416453	
		Lambda-Cyhalothrin	0.77	U	ng/L	P416453	
		Methoprene	0.77	U	ng/L	P416453	
		Methoxychlor	0.31	U	ng/L	P416453	
		MGK-264	0.21	U	ng/L	P416453	
		Mirex	0.36	U	ng/L	P416453	
		Oxychlordane	0.31	U	ng/L	P416453	
		Permethrin	1.7	U	ng/L	P416453	
		Phenothrin	0.93	U	ng/L	P416453	
		Piperonyl Butoxide	0.15	UJ	ng/L	P416453	LCS
		Prallethrin	2.1	U	ng/L	P416453	
		Tau-Fluvalinate	0.26	U	ng/L	P416453	
		Tetramethrin	0.77	U	ng/L	P416453	MS
		Trans-Nonachlor	0.21	U	ng/L	P416453	
		Triclosan Methyl	0.15	U	ng/L	P416453	
		Trifluralin	0.21	U	ng/L	P416453	

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340033	EPA 8276	Chlordane	2.6	U	ng/L	P416453	
		Toxaphene	15	U	ng/L	P416453	

Ref. Method and Comment:
EPA 8270E: MS accuracy for kepone 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: P416367

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P416364

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P416378

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: P416378

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
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P416616

Component	Result	Code	Units
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416732

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416735

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416963

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P416669

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416623

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416704

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416705

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416710

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416712

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: P416597

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P416362

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

Reference Method: EPA 8270E

Batch ID: P416296

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: P416296

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	0.60	I	ng/L
Dithiopyr	0.28	I	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: P416296

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
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P416296

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: P416453

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: P416453

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: P416453

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: P416453

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: P416342

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: P416370

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

Reference Method: EPA 8321B

Batch ID: P416433

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P416433

Component	Result	Code	Units
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P417026

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

Reference Method: SM 2540 C-2011
Batch ID: P416901

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P416815

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P417023

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P416468

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: P416367

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.1		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P416364

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P416378

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	102		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	103		P	85 - 115
Sodium	103		P	85 - 115
Strontium	101		P	85 - 115
Tin	101		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	100		P	85 - 115
Zinc	97.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P416378

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	101		P	85 - 115
Barium	104		P	85 - 115
Beryllium	93.8		P	85 - 115
Boron	107		P	85 - 115
Cadmium	96.1		P	85 - 115
Chromium	98.4		P	85 - 115
Cobalt	101		P	85 - 115
Manganese	98.6		P	85 - 115
Molybdenum	99.3		P	85 - 115
Selenium	99.0		P	85 - 115
Silver	98.9		P	85 - 115
Thallium	98.6		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P416616

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Copper	99.5		P	85 - 115
Lead	99.6		P	85 - 115
Nickel	102		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416732

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416735

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416963

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P416669

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416623

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416704

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416705

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416710

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: P416712

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P416597

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P416362

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.5		P	90 - 110

Reference Method: EPA 8270E

Batch ID: P416296

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	71.9		P	50 - 150
Acetochlor	94.4		P	70 - 121
Alachlor	85.2		P	68 - 119
Ametryn	91.2		P	64 - 139
Atrazine	86.9		P	76 - 120
Atrazine Desethyl	64.0		P	44 - 126
Avobenzone	90.3		P	76 - 212
Azinphos Methyl	101		P	43 - 192
Azoxystrobin	66.8		P	36 - 224
Bromacil	76.0		P	52 - 121
Butylate	64.1		P	28 - 91.0
Caffeine	69.7		P	50 - 134
Carbophenothion	76.2		P	56 - 129
Carfentrazone Ethyl	101		P	60 - 141
Chlorfenapyr	70.3		P	56 - 115
Chlorpyrifos Ethyl	78.5		P	60 - 118
Chlorpyrifos Methyl	81.6		P	68 - 119
Coumaphos	60.1		P	18 - 250
Cyanazine	138		P	61 - 250
Cyprodinil	102		P	55 - 145
Demeton	82.1		P	30 - 159
Diazinon	110		P	70 - 123
Difenoconazole	59.4		P	49 - 204
Dimethenamid	58.3		F	64 - 115
Dimethomorph	84.8		P	12 - 219
Disulfoton	87.0		P	44 - 125
Dithiopyr	102		P	64 - 115
EPTC	59.1		P	28 - 86.0
Ethion	24.7		F	33 - 125
Ethoprop	91.6		P	64 - 116
Etridiazole	73.3		P	34 - 91.0
Fenamiphos	69.6		P	12 - 127
Fenbuconazole	62.5		P	59 - 151
Fipronil	96.0		P	67 - 129
Fipronil Desulfinyl	95.0		P	65 - 127
Fipronil Sulfide	80.0		P	61 - 116
Fipronil Sulfone	73.4		P	55 - 117
Fluazifop-P-butyl	98.4		P	62 - 127
Fludioxonil	79.1		P	62 - 128
Flumioxazin	41.0		P	33 - 250

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P416296

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Flutolanil	86.8		P	56 - 127
Fluxapyroxad	52.4		P	45 - 128
Fonofos	86.7		P	62 - 111
Hexazinone	76.8		P	46 - 139
Imazalil	108		P	38 - 142
Iprodione	68.6		P	47 - 135
Loratadine	99.8		P	10 - 244
Malathion	99.7		P	61 - 139
Metalaxyl	83.2		P	10 - 119
Metolachlor	82.1		P	65 - 118
Metribuzin	108		P	51 - 250
Mevinphos	73.2		P	53 - 121
Molinate	71.9		P	42 - 96.0
Myclobutanil	88.7		P	55 - 128
Naled	69.0		P	10 - 98.0
Napropamide	45.0		F	49 - 121
Norflurazon	79.1		P	61 - 126
Octinoxate	77.5		P	30 - 159
Oxadiazon	73.5		P	59 - 116
Oxybenzone	70.3		P	61 - 139
Oxyfluorfen	93.5		P	64 - 137
Parathion Ethyl	85.2		P	70 - 112
Parathion Methyl	111		P	76 - 133
PBDE-47	65.1		P	50 - 150
PBDE-99	60.6		P	50 - 150
Pendimethalin	102		P	52 - 117
Phenytoin	3.03		F	10 - 199
Phorate	74.6		P	48 - 121
Prodiamine	51.8		P	26 - 142
Prometon	60.4		P	43 - 123
Prometryn	105		P	66 - 127
Pronamide	90.5		P	75 - 121
Propanil	79.0		P	45 - 150
Propargite	37.5		F	42 - 208
Propiconazole	84.6		P	60 - 125
Pyraflufen Ethyl	86.2		P	70 - 138
Pyridaben	78.8		P	35 - 245
Pyriproxyfen	37.6		P	30 - 149
Simazine	74.1		P	72 - 125
Stirophos	31.4		P	29 - 164
Sulfentrazone	48.4		P	21 - 139
Tebuconazole	28.7		P	10 - 115
Terbufos	112		P	60 - 123
Terbutylazine	90.7		P	72 - 115
Thiobencarb	77.4		P	31 - 139
Tri-o-cresyl Phosphate	76.5		P	50 - 150
Triadimefon	66.8		P	65 - 116

Reference Method: EPA 8270E

Batch ID: P416453

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: P416453

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	67.5		P	10 - 92.0
Alpha-BHC	98.7		P	75 - 107
Alpha-Chlordane	95.5		P	50 - 108
Beta-BHC	113		P	36 - 138
Beta-Cyfluthrin	79.2		P	20 - 161
Bifenthrin	56.6		P	10 - 119
Carbophenothion	49.9		P	19 - 94.0
Chlorothalonil	83.7		P	26 - 186
Cis-Nonachlor	58.0		P	42 - 119
Cypermethrin	74.1		P	22 - 150
Dacthal	104		P	72 - 119
DDD-p,p'	74.7		P	45 - 107
DDE-p,p'	95.5		P	48 - 106
DDT-p,p'	84.7		P	48 - 110
Delta-BHC	120		P	54 - 140
Deltamethrin	101		P	22 - 189
Dichlobenil	116		P	36 - 117
Dicofol	73.4		P	46 - 155
Dieldrin	99.6		P	54 - 110
Endosulfan I	101		P	59 - 105
Endosulfan II	85.6		P	51 - 118
Endosulfan Sulfate	91.1		P	57 - 121
Endrin	80.0		P	10 - 120
Endrin Aldehyde	69.2		P	34 - 118
Endrin Ketone	105		P	69 - 177
Esfenvalerate	68.6		P	23 - 168
Ethalfuralin	80.1		P	49 - 99.0
Fenpropathrin	66.7		P	34 - 117
Gamma-BHC	116		P	72 - 117
Gamma-Chlordane	87.1		P	43 - 106
Heptachlor	80.4		P	41 - 98.0
Heptachlor Epoxide	96.6		P	57 - 106
Hexachlorobenzene	83.0		P	36 - 99.0
Kepone	64.7		P	16 - 215
Lambda-Cyhalothrin	64.3		P	21 - 177
Methoprene	55.4		P	10 - 119
Methoxychlor	104		P	60 - 112
MGK-264	105		P	26 - 122
Mirex	60.6		P	10 - 169
Oxychlordane	94.8		P	43 - 105
PCB-1016	104		P	48 - 112
PCB-1260	105		P	44 - 118
Permethrin	87.9		P	24 - 148
Phenothrin	55.0		P	10 - 106
Piperonyl Butoxide	144		F	10 - 139
Prallethrin	92.6		P	17 - 109
Tau-Fluvalinate	61.9		P	13 - 131
Tetramethrin	130		P	10 - 132
Trans-Nonachlor	86.2		P	44 - 106
Triclosan Methyl	99.9		P	59 - 109
Trifluralin	80.3		P	44 - 101

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P416453

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	103		P	61 - 116
Toxaphene	122		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P416342

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.5		P	40 - 150
AMPA	108		P	40 - 150
Endothall	93.8		P	40 - 150
Glufosinate	104		P	40 - 150
Glyphosate	99.2		P	40 - 150
Sucralose	96.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P416370

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	77.3		P	40 - 150
Aldicarb	65.9		P	30 - 150
Aldicarb Sulfone	85.0		P	40 - 150
Aldicarb Sulfoxide	83.6		P	40 - 150
Carbaryl	70.1		P	40 - 150
Carbofuran	81.2		P	40 - 150
Methiocarb	72.9		P	40 - 150
Methomyl	80.9		P	40 - 150
Oxamyl	83.8		P	40 - 150
Propoxur	71.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P416433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	86.0		P	40 - 150
2,4,5-T	74.9		P	40 - 150
Acetaminophen	86.0		P	30 - 150
Acetamiprid	89.8		P	40 - 150
Afidopyropen	62.8		P	30 - 150
Bentazon	84.2		P	30 - 150
Benzovindiflupyr	74.1		P	40 - 150
Carbamazepine	83.3		P	40 - 150
Clothianidin	92.5		P	40 - 150
Dinotefuran	91.6		P	40 - 150
Diuron	53.5		P	40 - 150
Fenuron	84.9		P	40 - 150
Fluridone	79.6		P	40 - 150
Hydrocodone	86.0		P	40 - 150
Ibuprofen	75.1		P	40 - 150
Imazapyr	90.6		P	40 - 150
Imidacloprid	115		P	40 - 150
Linuron	80.3		P	40 - 150
Mandestrobin	76.7		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P416433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
MCP	84.1		P	40 - 150
Naproxen	59.1		P	40 - 150
Primidone	90.9		P	40 - 150
Pyraclostrobin	82.0		P	40 - 150
Silvex	68.2		P	40 - 150
Thiamethoxam	86.5		P	40 - 150
Tolfenpyrad	56.5		P	30 - 150
Triclopyr	83.1		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P417026

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P417023

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

Reference Method: SM 5310 B-2011
Batch ID: P416468

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P416378

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2338848	Calcium	105	105	P/P	80 - 120
2338848	Iron	98.8	104	P/P	80 - 120
2338848	Magnesium	100	103	P/P	80 - 120
2338848	Potassium	106	105	P/P	80 - 120
2338848	Sodium	101	105	P/P	80 - 120
2338848	Strontium	101	102	P/P	80 - 120
2338848	Tin	102	101	P/P	80 - 120
2338848	Titanium	102	102	P/P	80 - 120
2338848	Vanadium	101	100	P/P	80 - 120
2338848	Zinc	97.0	96.7	P/P	80 - 120
2339748	Calcium	105		P	80 - 120
2339748	Iron	105		P	80 - 120
2339748	Magnesium	104		P	80 - 120
2339748	Potassium	105		P	80 - 120
2339748	Sodium	106		P	80 - 120
2339748	Strontium	104		P	80 - 120
2339748	Tin	100		P	80 - 120
2339748	Titanium	104		P	80 - 120
2339748	Vanadium	103		P	80 - 120
2339748	Zinc	97.0		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P416378

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2338848	Aluminum	100	99.8	P/P	80 - 120
2338848	Antimony	98.6	99.3	P/P	80 - 120
2338848	Arsenic	97.4	99.5	P/P	80 - 120
2338848	Barium	102	103	P/P	80 - 120
2338848	Beryllium	94.2	94.3	P/P	80 - 120
2338848	Boron	105	104	P/P	80 - 120
2338848	Cadmium	94.7	95.3	P/P	80 - 120
2338848	Chromium	96.9	97.9	P/P	80 - 120
2338848	Cobalt	98.3	99.4	P/P	80 - 120
2338848	Manganese	96.2	96.4	P/P	80 - 120
2338848	Molybdenum	98.8	98.9	P/P	80 - 120
2338848	Selenium	95.8	98.1	P/P	80 - 120
2338848	Silver	97.0	97.4	P/P	80 - 120
2338848	Thallium	97.3	99.0	P/P	80 - 120
2339748	Aluminum	99.6		P	80 - 120
2339748	Antimony	101		P	80 - 120
2339748	Arsenic	102		P	80 - 120
2339748	Barium	103		P	80 - 120
2339748	Beryllium	96.2		P	80 - 120
2339748	Boron	105		P	80 - 120
2339748	Cadmium	95.4		P	80 - 120
2339748	Chromium	93.7		P	80 - 120
2339748	Cobalt	99.6		P	80 - 120
2339748	Manganese	96.1		P	80 - 120
2339748	Molybdenum	101		P	80 - 120
2339748	Selenium	97.8		P	80 - 120
2339748	Silver	96.3		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P416378

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2339748	Thallium	97.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P416616

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2339618	Copper	91.4	96.9	P/P	80 - 120
2339618	Lead	93.6	99.0	P/P	80 - 120
2339618	Nickel	91.6	97.4	P/P	80 - 120
2339698	Copper	98.2		P	80 - 120
2339698	Lead	98.9		P	80 - 120
2339698	Nickel	97.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416732

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2339928	Chloride	97.7		P	90 - 110
2339964	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416735

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2339928	Sulfate	96.8		P	90 - 110
2339964	Sulfate	99.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416963

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340220	Sulfate	97.6		P	90 - 110
2340232	Sulfate	96.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P416669

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340078	Ammonia-N	100	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416705

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340081	Kjeldahl Nitrogen	98.7	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340078	NO2NO3-N	100	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P416712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340225	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P416597

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2341012	Total-P	107	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P416362

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340082	O-Phosphate-P	96.7	97.5	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P416296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2339795	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	75.9	85.3	P/P	50 - 150
2339795	Acetochlor	94.0	99.2	P/P	65 - 124
2339795	Alachlor	80.4	80.4	P/P	61 - 121
2339795	Ametryn	106	114	P/P	52 - 216
2339795	Atrazine Desethyl	40.3	39.2	P/P	15 - 160
2339795	Avobenzone	86.9	89.6	P/P	59 - 206
2339795	Azinphos Methyl	106	134	P/P	40 - 292
2339795	Azoxystrobin	108	106	P/P	12 - 242
2339795	Bromacil	75.4	80.9	P/P	54 - 167
2339795	Butylate	57.5	51.3	P/P	14 - 94.0
2339795	Caffeine	69.8	75.0	P/P	10 - 226
2339795	Carbophenothion	70.6	77.9	P/P	49 - 122
2339795	Carfentrazone Ethyl	96.8	99.9	P/P	53 - 138
2339795	Chlorfenapyr	74.7	72.2	P/P	50 - 150
2339795	Chlorpyrifos Ethyl	67.1	67.7	P/P	52 - 122
2339795	Chlorpyrifos Methyl	74.6	76.5	P/P	66 - 117
2339795	Coumaphos	72.8	74.1	P/P	50 - 220
2339795	Cyanazine	129	130	P/P	43 - 245
2339795	Cyprodinil	99.2	82.6	P/P	50 - 150
2339795	Demeton	84.4	77.8	P/P	43 - 188
2339795	Diazinon	97.4	99.8	P/P	69 - 131
2339795	Difenoconazole	103	119	P/P	34 - 231
2339795	Dimethenamid	64.4	73.2	P/P	55 - 118
2339795	Dimethomorph	140	142	P/P	50 - 150
2339795	Disulfoton	69.6	73.8	P/P	38 - 141
2339795	Dithiopyr	71.6	81.0	P/P	42 - 116
2339795	EPTC	51.0	48.9	P/P	18 - 85.0
2339795	Ethion	41.9	53.5	P/P	10 - 131
2339795	Ethoprop	86.1	83.7	P/P	65 - 129
2339795	Etridiazole	68.8	59.9	P/P	50 - 150
2339795	Fenamiphos	89.4	72.2	P/P	31 - 137
2339795	Fenbuconazole	78.7	83.4	P/P	57 - 160
2339795	Fipronil	97.5	107	P/P	62 - 132
2339795	Fipronil Desulfinyl	90.4	97.2	P/P	57 - 131

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P416296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2339795	Fipronil Sulfide	75.4	89.4	P/P	15 - 138
2339795	Fipronil Sulfone	71.1	78.4	P/P	21 - 134
2339795	Fluazifop-P-butyl	97.7	97.9	P/P	54 - 133
2339795	Fludioxonil	90.6	95.7	P/P	58 - 127
2339795	Flumioxazin	62.2	93.2	P/P	33 - 300
2339795	Flutolanil	87.1	91.6	P/P	42 - 130
2339795	Fluxapyroxad	69.3	80.4	P/P	23 - 141
2339795	Fonofos	72.9	72.1	P/P	58 - 119
2339795	Hexazinone	73.3	73.6	P/P	68 - 172
2339795	Imazalil	90.4	82.6	P/P	48 - 283
2339795	Iprodione	82.7	89.1	P/P	38 - 140
2339795	Loratadine	134	137	P/P	50 - 150
2339795	Malathion	92.8	103	P/P	40 - 137
2339795	Metalaxyl	80.2	82.0	P/P	21 - 129
2339795	Metolachlor	84.2	86.7	P/P	55 - 122
2339795	Metribuzin	86.6	89.8	P/P	38 - 187
2339795	Mevinphos	66.5	61.8	P/P	54 - 134
2339795	Molinate	63.6	61.2	P/P	41 - 97.0
2339795	Myclobutanil	95.5	102	P/P	56 - 125
2339795	Naled	71.3	74.5	P/P	10 - 108
2339795	Napropamide	65.9	72.7	P/P	50 - 150
2339795	Norflurazon	78.9	81.9	P/P	32 - 122
2339795	Octinoxate	73.3	76.2	P/P	25 - 150
2339795	Oxadiazon	63.7	68.0	P/P	40 - 119
2339795	Oxybenzone	74.4	74.5	P/P	59 - 147
2339795	Oxyfluorfen	106	113	P/P	61 - 153
2339795	Parathion Ethyl	77.2	81.1	P/P	59 - 130
2339795	Parathion Methyl	102	99.9	P/P	65 - 155
2339795	PBDE-47	70.3	73.2	P/P	50 - 150
2339795	PBDE-99	66.2	73.2	P/P	50 - 150
2339795	Pendimethalin	90.7	89.2	P/P	49 - 138
2339795	Phenytoin	9.74	10.5	F/F	50 - 200
2339795	Phorate	72.8	66.3	P/P	54 - 161
2339795	Prodiamine	60.6	59.0	P/P	33 - 161
2339795	Prometon	51.6	78.6	P/P	48 - 140
2339795	Prometryn	98.8	104	P/P	55 - 134
2339795	Pronamide	88.5	76.1	P/P	66 - 137
2339795	Propanil	88.8	76.1	P/P	50 - 150
2339795	Propargite	52.1	70.2	P/P	50 - 200
2339795	Propiconazole	78.5	90.9	P/P	36 - 150
2339795	Pyraflufen Ethyl	84.0	97.3	P/P	50 - 150
2339795	Pyridaben	90.4	89.9	P/P	50 - 200
2339795	Pyriproxyfen	80.4	77.5	P/P	10 - 165
2339795	Simazine	63.5	69.1	P/P	57 - 145
2339795	Stirophos	43.6	50.0	F/F	50 - 150
2339795	Sulfentrazone	63.6	73.9	P/P	34 - 140
2339795	Tebuconazole	49.7	63.7	P/P	10 - 127
2339795	Terbufos	98.8	96.5	P/P	59 - 138
2339795	Terbuthylazine	82.3	83.1	P/P	68 - 119
2339795	Thiobencarb	76.3	76.6	P/P	50 - 150
2339795	Tri-o-cresyl Phosphate	71.1	76.8	P/P	50 - 150
2339795	Triadimefon	66.1	68.4	P/P	50 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P416453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2339176	PCB-1016	99.8	102	P/P	46 - 111
2339176	PCB-1260	109	109	P/P	45 - 114
2339366	Aldrin	76.5	71.6	P/P	20 - 82.0
2339366	Alpha-BHC	107	103	P/P	71 - 109
2339366	Alpha-Chlordane	94.8	82.7	P/P	42 - 106
2339366	Beta-BHC	114	110	P/P	69 - 180
2339366	Beta-Cyfluthrin	127	130	P/P	18 - 175
2339366	Bifenthrin	85.0	93.0	P/P	21 - 128
2339366	Carbophenothion	74.6	70.5	P/P	10 - 126
2339366	Chlorothalonil	126	139	P/P	10 - 300
2339366	Cis-Nonachlor	68.8	75.0	P/P	34 - 106
2339366	Cypermethrin	120	116	P/P	22 - 158
2339366	Dacthal	105	95.9	P/P	54 - 116
2339366	DDD-p,p'	86.5	78.4	P/P	34 - 107
2339366	DDE-p,p'	93.4	88.0	P/P	33 - 110
2339366	DDT-p,p'	92.8	86.2	P/P	50 - 122
2339366	Delta-BHC	120	121	P/P	77 - 193
2339366	Deltamethrin	164	169	P/P	10 - 195
2339366	Dichlobenil	93.3	104	P/P	25 - 113
2339366	Dicofol	75.7	72.4	P/P	38 - 247
2339366	Dieldrin	89.7	81.2	P/P	45 - 118
2339366	Endosulfan I	94.2	86.9	P/P	51 - 106
2339366	Endosulfan II	92.1	93.4	P/P	37 - 122
2339366	Endosulfan Sulfate	80.6	82.0	P/P	43 - 132
2339366	Endrin	89.0	89.5	P/P	29 - 101
2339366	Endrin Aldehyde	68.5	66.5	P/P	19 - 110
2339366	Endrin Ketone	111	104	P/P	60 - 140
2339366	Esfenvalerate	120	122	P/P	26 - 199
2339366	Ethalfuralin	89.0	82.7	P/P	45 - 99.0
2339366	Fenpropathrin	96.3	93.5	P/P	35 - 120
2339366	Gamma-BHC	116	112	P/P	63 - 128
2339366	Gamma-Chlordane	84.9	84.5	P/P	40 - 104
2339366	Heptachlor	81.5	77.4	P/P	36 - 97.0
2339366	Heptachlor Epoxide	117	77.0	P/P	49 - 184
2339366	Hexachlorobenzene	84.8	85.2	P/P	39 - 96.0
2339366	Lambda-Cyhalothrin	106	113	P/P	21 - 193
2339366	Methoprene	77.7	72.3	P/P	20 - 106
2339366	Methoxychlor	104	100	P/P	53 - 118
2339366	MGK-264	107	97.8	P/P	40 - 118
2339366	Mirex	71.7	72.9	P/P	26 - 92.0
2339366	Oxychlordane	95.9	83.5	P/P	44 - 99.0
2339366	Permethrin	129	124	P/P	33 - 182
2339366	Phenothrin	96.5	93.0	P/P	10 - 129
2339366	Piperonyl Butoxide	164	174	P/P	10 - 211
2339366	Prallethrin	99.2	89.9	P/P	24 - 113
2339366	Tau-Fluvalinate	117	126	P/P	14 - 149
2339366	Tetramethrin	159	149	F/P	17 - 151
2339366	Trans-Nonachlor	91.6	88.9	P/P	42 - 102
2339366	Triclosan Methyl	97.2	80.4	P/P	48 - 108
2339366	Trifluralin	87.5	87.0	P/P	47 - 96.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276

Batch ID: P416453

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2339176	Chlordane	112	107	P/P	53 - 126
2339176	Toxaphene	144	144	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P416342

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2339950	Acesulfame K	79.5	92.9	P/P	40 - 150
2339950	AMPA	102	128	P/P	40 - 150
2339950	Endothall	78.7	89.5	P/P	40 - 150
2339950	Glufosinate	88.9	106	P/P	40 - 150
2339950	Glyphosate	70.1	88.1	P/P	40 - 150
2339950	Sucralose	79.5	94.8	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P416370

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2339935	3-Hydroxycarbofuran	99.6	100	P/P	40 - 150
2339935	Aldicarb	35.1	41.0	P/P	30 - 150
2339935	Aldicarb Sulfone	115	115	P/P	40 - 150
2339935	Aldicarb Sulfoxide	47.3	46.7	P/P	40 - 150
2339935	Carbaryl	39.0	45.5	F/P	40 - 150
2339935	Carbofuran	48.8	49.1	P/P	40 - 150
2339935	Methiocarb	52.7	58.6	P/P	40 - 150
2339935	Methomyl	76.7	75.9	P/P	40 - 150
2339935	Oxamyl	80.3	80.1	P/P	40 - 150
2339935	Propoxur	43.7	44.9	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P416433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2339950	2,4-D	93.4	96.3	P/P	40 - 150
2339950	2,4,5-T	80.3	89.6	P/P	40 - 150
2339950	Acetaminophen	90.6	93.3	P/P	30 - 150
2339950	Acetamiprid	77.9	92.8	P/P	40 - 150
2339950	Afidopyropen	58.5	63.3	P/P	30 - 150
2339950	Bentazon	79.0	76.6	P/P	30 - 150
2339950	Benzovindiflupyr	89.1	86.5	P/P	40 - 150
2339950	Carbamazepine	88.6	93.8	P/P	40 - 150
2339950	Clothianidin	103	95.3	P/P	40 - 150
2339950	Dinotefuran	100	107	P/P	40 - 150
2339950	Diuron	79.5	65.2	P/P	40 - 150
2339950	Fenuron	85.8	88.7	P/P	40 - 150
2339950	Fluridone	81.8	80.5	P/P	40 - 150
2339950	Hydrocodone	91.9	92.9	P/P	40 - 150
2339950	Ibuprofen	83.7	66.5	P/P	40 - 150
2339950	Imazapyr	87.5	89.9	P/P	40 - 150
2339950	Imidacloprid	133	128	P/P	40 - 150
2339950	Linuron	80.1	77.3	P/P	40 - 150
2339950	Mandestrobin	78.6	81.1	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P416433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2339950	MCP	91.9	99.6	P/P	40 - 150
2339950	Naproxen	54.2	75.8	P/P	40 - 150
2339950	Primidone	92.8	97.6	P/P	40 - 150
2339950	Pyraclostrobin	81.8	86.5	P/P	40 - 150
2339950	Silvex	82.2	82.6	P/P	40 - 150
2339950	Thiamethoxam	94.0	101	P/P	40 - 150
2339950	Tolfenpyrad	55.1	54.0	P/P	30 - 150
2339950	Triclopyr	87.4	106	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P417023

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2341350	Fluoride	111	110	F/F	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P416468

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2339926	Organic Carbon	96.6	98.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P416367

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340137	Color (true)	0.317	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P416364

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340136	Turbidity	3.98	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P416378

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2338848	Calcium	0.135	Spike	P	0 - 20
2338848	Iron	5.50	Spike	P	0 - 20
2338848	Magnesium	2.46	Spike	P	0 - 20
2338848	Potassium	0.980	Spike	P	0 - 20
2338848	Sodium	2.79	Spike	P	0 - 20
2338848	Strontium	0.826	Spike	P	0 - 20
2338848	Tin	1.10	Spike	P	0 - 20
2338848	Titanium	0.371	Spike	P	0 - 20
2338848	Vanadium	0.343	Spike	P	0 - 20
2338848	Zinc	0.330	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P416378

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2338848	Aluminum	0.500	Spike	P	0 - 20
2338848	Antimony	0.754	Spike	P	0 - 20
2338848	Arsenic	2.07	Spike	P	0 - 20
2338848	Barium	0.873	Spike	P	0 - 20
2338848	Beryllium	0.146	Spike	P	0 - 20
2338848	Boron	0.344	Spike	P	0 - 20
2338848	Cadmium	0.588	Spike	P	0 - 20
2338848	Chromium	0.967	Spike	P	0 - 20
2338848	Cobalt	1.15	Spike	P	0 - 20
2338848	Manganese	0.202	Spike	P	0 - 20
2338848	Molybdenum	0.114	Spike	P	0 - 20
2338848	Selenium	2.31	Spike	P	0 - 20
2338848	Silver	0.413	Spike	P	0 - 20
2338848	Thallium	1.72	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P416616

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339618	Copper	5.79	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P416616

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339618	Lead	5.58	Spike	P	0 - 20
2339618	Nickel	6.08	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416732

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339928	Chloride	0.419	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339928	Sulfate	1.61	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416963

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340220	Sulfate	0.557	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P416669

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340078	Ammonia-N	2.43	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416623

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339887	Kjeldahl Nitrogen	12.4	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416704

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339975	Kjeldahl Nitrogen	1.58	Sample	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416705

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340081	Kjeldahl Nitrogen	2.67	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P416710

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340078	NO2NO3-N	1.46	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P416712

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340225	NO2NO3-N	0.380	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P416597

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2341012	Total-P	0.954	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P416362

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340082	O-Phosphate-P	0.824	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P416296

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339795	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	11.7	Spike	P	0 - 30
2339795	Acetochlor	5.33	Spike	P	0 - 27
2339795	Alachlor	0.000777	Spike	P	0 - 27
2339795	Ametryn	7.64	Spike	P	0 - 34
2339795	Atrazine	1.58	Spike	P	0 - 41
2339795	Atrazine Desethyl	1.77	Spike	P	0 - 38
2339795	Avobenzone	3.13	Spike	P	0 - 30
2339795	Azinphos Methyl	22.9	Spike	P	0 - 62
2339795	Azoxystrobin	2.42	Spike	P	0 - 32
2339795	Bromacil	7.11	Spike	P	0 - 30
2339795	Butylate	11.4	Spike	P	0 - 59
2339795	Caffeine	6.86	Spike	P	0 - 60
2339795	Carbophenothion	9.81	Spike	P	0 - 25
2339795	Carfentrazone Ethyl	3.21	Spike	P	0 - 26
2339795	Chlorfenapyr	3.39	Spike	P	0 - 30
2339795	Chlorpyrifos Ethyl	0.809	Spike	P	0 - 27
2339795	Chlorpyrifos Methyl	2.49	Spike	P	0 - 26
2339795	Coumaphos	1.86	Spike	P	0 - 30
2339795	Cyanazine	1.42	Spike	P	0 - 58
2339795	Cyprodinil	18.2	Spike	P	0 - 30
2339795	Demeton	8.13	Spike	P	0 - 25
2339795	Diazinon	2.40	Spike	P	0 - 29
2339795	Difenoconazole	14.9	Spike	P	0 - 25

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P416296

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339795	Dimethenamid	11.2	Spike	P	0 - 30
2339795	Dimethomorph	1.70	Spike	P	0 - 30
2339795	Disulfoton	5.86	Spike	P	0 - 33
2339795	Dithiopyr	9.69	Spike	P	0 - 22
2339795	EPTC	4.38	Spike	P	0 - 38
2339795	Ethion	24.3	Spike	P	0 - 79
2339795	Ethoprop	2.74	Spike	P	0 - 23
2339795	Etridiazole	13.8	Spike	P	0 - 30
2339795	Fenamiphos	21.2	Spike	P	0 - 58
2339795	Fenbuconazole	5.77	Spike	P	0 - 37
2339795	Fipronil	9.65	Spike	P	0 - 33
2339795	Fipronil Desulfiny	6.71	Spike	P	0 - 26
2339795	Fipronil Sulfide	14.3	Spike	P	0 - 37
2339795	Fipronil Sulfone	5.51	Spike	P	0 - 50
2339795	Fluazifop-P-butyl	0.192	Spike	P	0 - 24
2339795	Fludioxonil	5.49	Spike	P	0 - 26
2339795	Flumioxazin	39.9	Spike	F	0 - 37
2339795	Flutolanil	4.95	Spike	P	0 - 26
2339795	Fluxapyroxad	14.8	Spike	P	0 - 34
2339795	Fonofos	1.12	Spike	P	0 - 27
2339795	Hexazinone	0.377	Spike	P	0 - 36
2339795	Imazalil	9.02	Spike	P	0 - 65
2339795	Iprodione	7.40	Spike	P	0 - 33
2339795	Loratadine	2.41	Spike	P	0 - 30
2339795	Malathion	10.3	Spike	P	0 - 44
2339795	Metalaxyl	2.22	Spike	P	0 - 38
2339795	Metolachlor	2.95	Spike	P	0 - 36
2339795	Metribuzin	3.69	Spike	P	0 - 63
2339795	Mevinphos	7.29	Spike	P	0 - 26
2339795	Molinate	3.85	Spike	P	0 - 40
2339795	Myclobutanil	6.29	Spike	P	0 - 21
2339795	Naled	4.48	Spike	P	0 - 26
2339795	Napropamide	9.79	Spike	P	0 - 30
2339795	Norflurazon	3.68	Spike	P	0 - 24
2339795	Octinoxate	3.94	Spike	P	0 - 30
2339795	Oxadiazon	4.92	Spike	P	0 - 27
2339795	Oxybenzone	0.156	Spike	P	0 - 30
2339795	Oxyfluorfen	5.66	Spike	P	0 - 24
2339795	Parathion Ethyl	4.97	Spike	P	0 - 28
2339795	Parathion Methyl	1.80	Spike	P	0 - 27
2339795	PBDE-47	4.12	Spike	P	0 - 30
2339795	PBDE-99	10.1	Spike	P	0 - 30
2339795	Pendimethalin	1.69	Spike	P	0 - 31
2339795	Phenytoin	7.96	Spike	P	0 - 30
2339795	Phorate	9.46	Spike	P	0 - 27
2339795	Prodiamine	2.80	Spike	P	0 - 52
2339795	Prometon	19.5	Spike	P	0 - 31
2339795	Prometryn	5.43	Spike	P	0 - 28
2339795	Pronamide	15.0	Spike	P	0 - 26
2339795	Propanil	15.5	Spike	P	0 - 30
2339795	Propargite	29.7	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P416296

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339795	Propiconazole	12.7	Spike	P	0 - 31
2339795	Pyraflufen Ethyl	14.6	Spike	P	0 - 30
2339795	Pyridaben	0.438	Spike	P	0 - 30
2339795	Pyriproxyfen	3.65	Spike	P	0 - 50
2339795	Simazine	8.37	Spike	P	0 - 29
2339795	Stiropfos	13.6	Spike	P	0 - 30
2339795	Sulfentrazone	14.9	Spike	P	0 - 33
2339795	Tebuconazole	24.7	Spike	P	0 - 44
2339795	Terbufos	2.44	Spike	P	0 - 29
2339795	Terbuthylazine	0.974	Spike	P	0 - 27
2339795	Thiobencarb	0.479	Spike	P	0 - 30
2339795	Tri-o-cresyl Phosphate	7.62	Spike	P	0 - 30
2339795	Triadimefon	3.31	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P416453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339176	PCB-1016	2.05	Spike	P	0 - 32
2339176	PCB-1260	0.293	Spike	P	0 - 31
2339366	Aldrin	6.73	Spike	P	0 - 41
2339366	Alpha-BHC	4.20	Spike	P	0 - 25
2339366	Alpha-Chlordane	12.4	Spike	P	0 - 33
2339366	Beta-BHC	3.58	Spike	P	0 - 36
2339366	Beta-Cyfluthrin	2.14	Spike	P	0 - 42
2339366	Bifenthrin	8.94	Spike	P	0 - 53
2339366	Carbophenothion	5.71	Spike	P	0 - 30
2339366	Chlorothalonil	9.55	Spike	P	0 - 71
2339366	Cis-Nonachlor	8.59	Spike	P	0 - 29
2339366	Cypermethrin	3.27	Spike	P	0 - 40
2339366	Dacthal	8.72	Spike	P	0 - 26
2339366	DDD-p,p'	9.85	Spike	P	0 - 39
2339366	DDE-p,p'	5.97	Spike	P	0 - 33
2339366	DDT-p,p'	7.38	Spike	P	0 - 40
2339366	Delta-BHC	1.34	Spike	P	0 - 37
2339366	Deltamethrin	2.66	Spike	P	0 - 100
2339366	Dichlobenil	11.1	Spike	P	0 - 40
2339366	Dicofol	4.37	Spike	P	0 - 31
2339366	Dieldrin	6.65	Spike	P	0 - 27
2339366	Endosulfan I	8.07	Spike	P	0 - 23
2339366	Endosulfan II	1.45	Spike	P	0 - 28
2339366	Endosulfan Sulfate	1.72	Spike	P	0 - 38
2339366	Endrin	0.478	Spike	P	0 - 63
2339366	Endrin Aldehyde	2.97	Spike	P	0 - 60
2339366	Endrin Ketone	6.12	Spike	P	0 - 37
2339366	Esfenvalerate	1.75	Spike	P	0 - 52
2339366	Ethalfuralin	7.25	Spike	P	0 - 23
2339366	Fenpropathrin	2.97	Spike	P	0 - 32
2339366	Gamma-BHC	3.15	Spike	P	0 - 17
2339366	Gamma-Chlordane	0.503	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P416453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339366	Heptachlor	5.17	Spike	P	0 - 29
2339366	Heptachlor Epoxide	19.0	Spike	P	0 - 25
2339366	Hexachlorobenzene	0.484	Spike	P	0 - 36
2339366	Kepone	3.24	Spike	P	0 - 93
2339366	Lambda-Cyhalothrin	6.46	Spike	P	0 - 55
2339366	Methoprene	7.13	Spike	P	0 - 53
2339366	Methoxychlor	4.26	Spike	P	0 - 29
2339366	MGK-264	9.34	Spike	P	0 - 35
2339366	Mirex	1.68	Spike	P	0 - 46
2339366	Oxychlordane	13.9	Spike	P	0 - 29
2339366	Permethrin	3.89	Spike	P	0 - 44
2339366	Phenothrin	3.66	Spike	P	0 - 56
2339366	Piperonyl Butoxide	5.80	Spike	P	0 - 100
2339366	Prallethrin	9.80	Spike	P	0 - 42
2339366	Tau-Fluvalinate	6.94	Spike	P	0 - 54
2339366	Tetramethrin	6.21	Spike	P	0 - 51
2339366	Trans-Nonachlor	3.01	Spike	P	0 - 37
2339366	Triclosan Methyl	18.9	Spike	P	0 - 31
2339366	Trifluralin	0.586	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P416453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339176	Chlordane	4.99	Spike	P	0 - 25
2339176	Toxaphene	0.200	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P416342

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339950	Acesulfame K	15.6	Spike	P	0 - 30
2339950	AMPA	22.3	Spike	P	0 - 30
2339950	Endothall	12.9	Spike	P	0 - 30
2339950	Glufosinate	17.8	Spike	P	0 - 30
2339950	Glyphosate	22.7	Spike	P	0 - 30
2339950	Sucralose	16.0	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P416370

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339935	3-Hydroxycarbofuran	0.620	Spike	P	0 - 30
2339935	Aldicarb	15.5	Spike	P	0 - 30
2339935	Aldicarb Sulfone	0.0498	Spike	P	0 - 30
2339935	Aldicarb Sulfoxide	1.27	Spike	P	0 - 30
2339935	Carbaryl	15.5	Spike	P	0 - 30
2339935	Carbofuran	0.622	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P416370

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339935	Methiocarb	10.6	Spike	P	0 - 30
2339935	Methomyl	1.06	Spike	P	0 - 30
2339935	Oxamyl	0.341	Spike	P	0 - 30
2339935	Propoxur	2.72	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P416433

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339950	2,4-D	3.12	Spike	P	0 - 30
2339950	2,4,5-T	10.9	Spike	P	0 - 30
2339950	Acetaminophen	2.96	Spike	P	0 - 30
2339950	Acetamiprid	17.4	Spike	P	0 - 30
2339950	Afidopyropen	7.88	Spike	P	0 - 30
2339950	Bentazon	3.06	Spike	P	0 - 30
2339950	Benzovindiflupyr	2.96	Spike	P	0 - 30
2339950	Carbamazepine	5.73	Spike	P	0 - 30
2339950	Clothianidin	7.88	Spike	P	0 - 30
2339950	Dinotefuran	6.83	Spike	P	0 - 30
2339950	Diuron	19.7	Spike	P	0 - 30
2339950	Fenuron	3.41	Spike	P	0 - 30
2339950	Fluridone	1.57	Spike	P	0 - 30
2339950	Hydrocodone	1.12	Spike	P	0 - 30
2339950	Ibuprofen	22.9	Spike	P	0 - 30
2339950	Imazapyr	2.70	Spike	P	0 - 30
2339950	Imidacloprid	3.87	Spike	P	0 - 30
2339950	Linuron	3.52	Spike	P	0 - 30
2339950	Mandestrobin	3.05	Spike	P	0 - 30
2339950	MCPP	8.06	Spike	P	0 - 30
2339950	Naproxen	33.2	Spike	F	0 - 30
2339950	Primidone	5.04	Spike	P	0 - 30
2339950	Pyraclostrobin	5.62	Spike	P	0 - 30
2339950	Silvex	0.531	Spike	P	0 - 30
2339950	Thiamethoxam	7.59	Spike	P	0 - 30
2339950	Tolfenpyrad	1.97	Spike	P	0 - 30
2339950	Triclopyr	19.5	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P417026

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2341350	Total Alkalinity	0.00504	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011

Batch ID: P416901

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339743	TDS	3.81	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P417023

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2341350	Fluoride	1.00	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P416468

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2339926	Organic Carbon	0.977	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2340021
Field Sample ID: G3SD0107

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	92.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	99.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	80.5	P	30 - 160
EPA 8321B	Diuron-d6	60.8	P	30 - 160
EPA 8321B	Endothall-d6	156	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	107	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.1	P	30 - 160
EPA 8321B	Primidone-d5	92.9	P	30 - 160
EPA 8321B	Sucralose-d6	50.5	P	30 - 160

Lab Sample ID: 2340022
Field Sample ID: G3SD0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	104	P	30 - 160
EPA 8321B	Acetaminophen-d4	111	P	30 - 160
EPA 8321B	Carbamazepine-d10	86.9	P	30 - 160
EPA 8321B	Diuron-d6	72.2	P	30 - 160
EPA 8321B	Endothall-d6	152	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	87.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.7	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	32.9	P	30 - 160

Lab Sample ID: 2340023
Field Sample ID: G3SD0133

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	50.9	P	30 - 160

Lab Sample ID: 2340024
Field Sample ID: G3SD0133

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	118	P	30 - 160
EPA 8321B	Carbamazepine-d10	87.9	P	30 - 160
EPA 8321B	Diuron-d6	59.4	P	30 - 160
EPA 8321B	Endothall-d6	155	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	102	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.1	P	30 - 160
EPA 8321B	Primidone-d5	85.6	P	30 - 160
EPA 8321B	Sucralose-d6	39.0	P	30 - 160

Lab Sample ID: 2340025
Field Sample ID: FB_07072022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	71.1	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2340026
Field Sample ID: FB_07072022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	97.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	92.2	P	30 - 160
EPA 8321B	Diuron-d6	68.4	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	105	P	30 - 160
EPA 8321B	Ibuprofen-d3	70.7	P	30 - 160
EPA 8321B	Primidone-d5	93.0	P	30 - 160
EPA 8321B	Sucralose-d6	97.9	P	30 - 160

Lab Sample ID: 2340032
Field Sample ID: G3SD0107

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	41.4	P	20 - 200
EPA 8270E	Simazine-d10	78.1	P	71 - 140
EPA 8270E	Terbufos-d10	103	P	62 - 131

Lab Sample ID: 2340033
Field Sample ID: G3SD0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	102	P	29 - 130
EPA 8270E	Decachlorobiphenyl	61.9	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	74.1	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	77.6	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	86.5	P	30 - 101
EPA 8276	PCNB	98.9	P	48 - 121

Lab Sample ID: 2340034
Field Sample ID: G3SD0133

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	120	P	29 - 130
EPA 8270E	Decachlorobiphenyl	45.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	76.7	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	67.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	90.9	P	30 - 101
EPA 8276	PCNB	90.5	P	48 - 121

Lab Sample ID: 2340035
Field Sample ID: G3SD0133

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	62.4	P	20 - 200
EPA 8270E	Simazine-d10	96.8	P	71 - 140
EPA 8270E	Terbufos-d10	105	P	62 - 131
EPA 8270E	Terphenyl-d14	74.0	P	52 - 141

Quality Assurance Report Surrogates

Lab Sample ID: 2340036
Field Sample ID: FB_07072022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	73.1	P	29 - 130
EPA 8270E	Decachlorobiphenyl	69.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	77.7	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	81.5	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	70.0	P	30 - 101
EPA 8276	PCNB	92.0	P	48 - 121

Lab Sample ID: 2340037
Field Sample ID: FB_07072022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	40.7	P	20 - 200
EPA 8270E	Simazine-d10	78.3	P	71 - 140
EPA 8270E	Terbufos-d10	97.4	P	62 - 131
EPA 8270E	Terphenyl-d14	75.8	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A113386

Included Lab Sample IDs: 2340003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.7	99.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A113388

Included Lab Sample IDs: 2340001, 2340004, 2340006

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.5	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A113389

Included Lab Sample IDs: 2340001, 2340004, 2340006

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.3	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113424

Included Lab Sample IDs: 2340043

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	100	P/P	90 - 110
Antimony	98.6	98.3	P/P	90 - 110
Arsenic	100	100	P/P	90 - 110
Barium	99.3	99.7	P/P	90 - 110
Beryllium	95.8	96.2	P/P	90 - 110
Boron	102	99.8	P/P	90 - 110
Cadmium	98.4	97.6	P/P	90 - 110
Chromium	99.0	99.1	P/P	90 - 110
Cobalt	100	101	P/P	90 - 110
Manganese	98.6	98.9	P/P	90 - 110
Molybdenum	99.4	98.6	P/P	90 - 110
Selenium	97.5	97.0	P/P	90 - 110
Silver	99.4	98.6	P/P	90 - 110
Thallium	94.7	93.4	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A113427

Included Lab Sample IDs: 2340043

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	98.9	99.0	P/P	90 - 110
Iron	102	103	P/P	90 - 110
Magnesium	100	101	P/P	90 - 110
Potassium	100	102	P/P	90 - 110
Sodium	101	103	P/P	90 - 110
Strontium	99.0	99.4	P/P	90 - 110
Titanium	99.2	95.9	P/P	90 - 110
Vanadium	98.2	96.4	P/P	90 - 110
Zinc	94.2	91.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A113430

Included Lab Sample IDs: 2340002, 2340005, 2340007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.6	98.6	P/P	90 - 110
Organic Carbon	99.0	99.7	P/P	90 - 110
Organic Carbon	99.7	98.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113434

Included Lab Sample IDs: 2340023, 2340025

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	104	106	P/P	60 - 150
Aldicarb	109	105	P/P	60 - 150
Aldicarb Sulfone	98.6	102	P/P	50 - 150
Aldicarb Sulfoxide	107	106	P/P	50 - 150
Carbaryl	110	125	P/P	60 - 150
Carbofuran	112	118	P/P	50 - 150
Methiocarb	108	112	P/P	50 - 150
Methomyl	102	103	P/P	50 - 150
Oxamyl	104	106	P/P	50 - 150
Propoxur	112	116	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A113462

Included Lab Sample IDs: 2340001, 2340004, 2340006

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.5	99.4	P/P	90 - 110
Chloride	99.4	97.4	P/P	90 - 110
Sulfate	97.9	97.2	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113489

Included Lab Sample IDs: 2340021, 2340022, 2340024, 2340026

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	110	111	P/P	60 - 160
Endothall	96.9	90.3	P/P	60 - 160
Glufosinate	90.4	97.8	P/P	60 - 160
Glyphosate	97.4	84.2	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A113494

Included Lab Sample IDs: 2340021, 2340022, 2340024, 2340026

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	92.3	92.6	P/P	60 - 160
Acesulfame K	92.6	101	P/P	60 - 160
Sucralose	95.9	95.9	P/P	60 - 160
Sucralose	95.9	98.6	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113507

Included Lab Sample IDs: 2340002, 2340005, 2340007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.5	99.2	P/P	90 - 110
Ammonia-N	99.3	99.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113508

Included Lab Sample IDs: 2340021, 2340022, 2340024, 2340026

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	90.1	96.0	P/P	50 - 150
2,4-D	97.1	90.1	P/P	50 - 150
2,4,5-T	113	115	P/P	50 - 150
2,4,5-T	115	101	P/P	50 - 150
Acetaminophen	104	99.6	P/P	60 - 160
Acetaminophen	99.6	102	P/P	60 - 160
Acetamiprid	106	99.4	P/P	50 - 150
Acetamiprid	99.4	105	P/P	50 - 150
Afidopyropen	96.7	98.5	P/P	50 - 150
Afidopyropen	98.5	94.8	P/P	50 - 150
Bentazon	120	120	P/P	50 - 160
Bentazon	120	111	P/P	50 - 160
Benzovindiflupyr	113	94.5	P/P	50 - 150
Benzovindiflupyr	94.5	110	P/P	50 - 150
Carbamazepine	101	101	P/P	60 - 150
Carbamazepine	101	99.3	P/P	60 - 150
Clothianidin	108	110	P/P	60 - 150
Clothianidin	110	111	P/P	60 - 150
Dinotefuran	104	104	P/P	50 - 150
Dinotefuran	104	103	P/P	50 - 150
Diuron	103	95.6	P/P	60 - 160
Diuron	95.6	103	P/P	60 - 160
Fenuron	97.6	98.7	P/P	60 - 150
Fenuron	98.8	97.6	P/P	60 - 150
Fluridone	110	109	P/P	60 - 160
Fluridone	114	110	P/P	60 - 160
Hydrocodone	100	99.7	P/P	60 - 150
Hydrocodone	99.7	101	P/P	60 - 150
Ibuprofen	117	122	P/P	50 - 160
Ibuprofen	128	117	P/P	50 - 160
Imazapyr	99.3	99.8	P/P	50 - 150
Imazapyr	99.8	86.3	P/P	50 - 150
Imidacloprid	102	104	P/P	60 - 150
Imidacloprid	104	107	P/P	60 - 150
Linuron	93.9	93.2	P/P	60 - 150
Linuron	94.3	93.9	P/P	60 - 150
Mandestrobin	104	104	P/P	50 - 150
Mandestrobin	107	104	P/P	50 - 150
MCP	101	103	P/P	50 - 150
MCP	109	101	P/P	50 - 150
Naproxen	109	88.3	P/P	50 - 160
Naproxen	89.8	109	P/P	50 - 160
Primidone	100	87.9	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A113508

Included Lab Sample IDs: 2340021, 2340022, 2340024, 2340026

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Primidone	87.9	94.0	P/P	60 - 150
Pyraclostrobin	104	102	P/P	60 - 150
Pyraclostrobin	106	104	P/P	60 - 150
Silvex	85.4	84.0	P/P	50 - 150
Silvex	97.2	85.4	P/P	50 - 150
Thiamethoxam	104	99.7	P/P	50 - 150
Thiamethoxam	99.1	104	P/P	50 - 150
Tolfenpyrad	101	99.4	P/P	60 - 150
Tolfenpyrad	99.4	105	P/P	60 - 150
Triclopyr	101	112	P/P	50 - 150
Triclopyr	112	102	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113519

Included Lab Sample IDs: 2340043

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	92.4	91.8	P/P	90 - 110
Lead	91.9	92.7	P/P	90 - 110
Nickel	92.6	92.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113527

Included Lab Sample IDs: 2340002, 2340005, 2340007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	104	P/P	90 - 110
NO2NO3-N	106	102	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113528

Included Lab Sample IDs: 2340033, 2340034, 2340036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	95.0		P	80 - 120
PCB-1260	103		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113529

Included Lab Sample IDs: 2340002, 2340005

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	98.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113532

Included Lab Sample IDs: 2340007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	97.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A113542

Included Lab Sample IDs: 2340043

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tin	105	98.7	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113560

Included Lab Sample IDs: 2340033, 2340034, 2340036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	102		P	80 - 120
Alpha-BHC	107		P	80 - 120
Alpha-Chlordane	106		P	80 - 120
Beta-BHC	103		P	80 - 120
Beta-Cyfluthrin	114		P	80 - 120
Bifenthrin	117		P	80 - 120
Carbophenothion	98.8		P	80 - 120
Chlorothalonil	97.1		P	80 - 120
Cis-Nonachlor	114		P	80 - 120
Cypermethrin	107		P	80 - 120
Dacthal	99.1		P	80 - 120
DDD-p,p'	117		P	80 - 120
DDE-p,p'	106		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	106		P	80 - 120
Deltamethrin	117		P	80 - 120
Dichlobenil	105		P	80 - 120
Dicofol	90.7		P	80 - 120
Dieldrin	99.8		P	80 - 120
Endosulfan I	106		P	80 - 120
Endosulfan II	118		P	80 - 120
Endosulfan Sulfate	102		P	80 - 120
Endrin	113		P	80 - 120
Endrin Aldehyde	113		P	80 - 120
Endrin Ketone	114		P	80 - 120
Esfenvalerate	108		P	80 - 120
Ethalfuralin	94.9		P	80 - 120
Fenpropathrin	111		P	80 - 120
Gamma-BHC	108		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	105		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	97.3		P	80 - 120
Kepone	115		P	80 - 120
Lambda-Cyhalothrin	120		P	80 - 120
Methoprene	102		P	80 - 120
Methoxychlor	108		P	80 - 120
MGK-264	108		P	80 - 120
Mirex	112		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	119		P	80 - 120
Phenothrin	116		P	80 - 120
Piperonyl Butoxide	87.8		P	80 - 120
Prallethrin	111		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113560

Included Lab Sample IDs: 2340033, 2340034, 2340036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tau-Fluvalinate	116		P	80 - 120
Tetramethrin	113		P	80 - 120
Trans-Nonachlor	102		P	80 - 120
Triclosan Methyl	106		P	80 - 120
Trifluralin	92.4		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113566

Included Lab Sample IDs: 2340007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	98.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113582

Included Lab Sample IDs: 2340002, 2340005

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.4	96.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113598

Included Lab Sample IDs: 2340032, 2340035, 2340037

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	105		P	80 - 120
Alachlor	100		P	80 - 120
Ametryn	104		P	80 - 120
Atrazine	106		P	80 - 120
Atrazine Desethyl	89.9		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Azoxystrobin	97.8		P	80 - 120
Bromacil	96.2		P	80 - 120
Butylate	99.6		P	80 - 120
Caffeine	91.6		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	95.7		P	80 - 120
Chlorfenapyr	104		P	80 - 120
Chlorpyrifos Ethyl	106		P	80 - 120
Chlorpyrifos Methyl	104		P	80 - 120
Coumaphos	99.0		P	80 - 120
Cyanazine	87.5		P	80 - 120
Cyprodinil	94.9		P	80 - 120
Demeton	96.9		P	80 - 120
Diazinon	105		P	80 - 120
Difenoconazole	100		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	91.8		P	80 - 120
Disulfoton	102		P	80 - 120
Dithiopyr	102		P	80 - 120
EPTC	99.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113598

Included Lab Sample IDs: 2340032, 2340035, 2340037

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethion	103		P	80 - 120
Ethoprop	106		P	80 - 120
Etridiazole	99.5		P	80 - 120
Fenamiphos	98.4		P	80 - 120
Fenbuconazole	99.6		P	80 - 120
Fipronil	97.6		P	80 - 120
Fipronil Desulfinyl	99.4		P	80 - 120
Fipronil Sulfide	93.9		P	80 - 120
Fipronil Sulfone	116		P	80 - 120
Fluazifop-P-butyl	106		P	80 - 120
Fludioxonil	102		P	80 - 120
Flutolanil	95.6		P	80 - 120
Fluxapyroxad	98.4		P	80 - 120
Fonofos	101		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	100		P	80 - 120
Iprodione	97.2		P	80 - 120
Loratadine	96.2		P	80 - 120
Malathion	99.2		P	80 - 120
Metalaxyl	101		P	80 - 120
Metolachlor	97.5		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	95.8		P	80 - 120
Molinate	98.9		P	80 - 120
Myclobutanil	103		P	80 - 120
Naled	104		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	94.3		P	80 - 120
Oxadiazon	96.9		P	80 - 120
Oxyfluorfen	98.1		P	80 - 120
Parathion Ethyl	92.4		P	80 - 120
Parathion Methyl	99.1		P	80 - 120
Pendimethalin	95.3		P	80 - 120
Phenytoin	99.3		P	80 - 120
Phorate	107		P	80 - 120
Prodiamine	103		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	99.5		P	80 - 120
Propanil	91.7		P	80 - 120
Propargite	103		P	80 - 120
Propiconazole	102		P	80 - 120
Pyraflufen Ethyl	103		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	99.8		P	80 - 120
Simazine	95.6		P	80 - 120
Stirophos	102		P	80 - 120
Sulfentrazone	93.7		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	106		P	80 - 120
Terbutylazine	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113598

Included Lab Sample IDs: 2340032, 2340035, 2340037

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Thiobencarb	98.3		P	80 - 120
Triadimefon	97.2		P	80 - 120

Reference Method: EPA 8276

Run ID: A113601

Included Lab Sample IDs: 2340033, 2340034, 2340036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.1		P	80 - 120
Toxaphene	113		P	80 - 120

Reference Method: EPA 8270E

Run ID: A113604

Included Lab Sample IDs: 2340032, 2340035, 2340037

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Flumioxazin	107		P	80 - 120
Fluxapyroxad	112		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A113634

Included Lab Sample IDs: 2340001, 2340004

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	99.1	99.7	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A113658

Included Lab Sample IDs: 2340001, 2340004, 2340006

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.2	P/P	90 - 110
Total Alkalinity	97.6	101	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A113658

Included Lab Sample IDs: 2340001, 2340004, 2340006

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

Reference Method: EPA 8270E

Run ID: A113686

Included Lab Sample IDs: 2340035, 2340037

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.9		P	80 - 120
Avobenzone	102		P	80 - 120
Octinoxate	95.3		P	80 - 120
Oxybenzone	90.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113686

Included Lab Sample IDs: 2340035, 2340037

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PBDE-47	98.6		P	80 - 120
PBDE-99	103		P	80 - 120
Tri-o-cresyl Phosphate	99.5		P	80 - 120

Reference Method: EPA 8270E

Run ID: A113723

Included Lab Sample IDs: 2340037

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxybenzone	103		P	80 - 120

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	97.1					0.317	
EPA 180.1 Rev. 2.0	Turbidity	94.9					3.98	
EPA 200.7 Rev. 4.4	Calcium	104	105	105	105			0.135
	Iron	102	98.8	104	105			5.50
	Magnesium	101	100	103	104			2.46
	Potassium	103	106	105	105			0.980
	Sodium	103	101	105	106			2.79
	Strontium	101	101	102	104			0.826
	Tin	101	102	101	100			1.10
	Titanium	101	102	102	104			0.371
	Vanadium	100	103	101	100			0.343
	Zinc	97.5	97.0	96.7	97.0			0.330
EPA 200.8 Rev. 5.4	Aluminum	102	100	99.8	99.6			0.500
	Antimony	100	98.6	99.3	101			0.754
	Arsenic	101	97.4	99.5	102			2.07
	Barium	104	102	103	103			0.873
	Beryllium	93.8	94.2	94.3	96.2			0.146
	Boron	107	105	104	105			0.344
	Cadmium	96.1	94.7	95.3	95.4			0.588
	Chromium	98.4	96.9	97.9	93.7			0.967
	Cobalt	101	98.3	99.4	99.6			1.15
	Copper	99.5	91.4	96.9	98.2			5.79
	Lead	99.6	93.6	99.0	98.9			5.58
	Manganese	98.6	96.2	96.4	96.1			0.202
	Molybdenum	99.3	98.8	98.9	101			0.114
	Nickel	102	91.6	97.4	97.6			6.08
	Selenium	99.0	95.8	98.1	97.8			2.31
	Silver	98.9	97.0	97.4	96.3			0.413
	Thallium	98.6	97.3	99.0	97.3			1.72
EPA 300.0 Rev. 2.1	Chloride	98.1	97.7	100			0.419	
	Sulfate	97.9	96.8	99.2			1.61	
	Sulfate	98.1	97.6	96.3			0.557	
EPA 350.1 Rev. 2.0	Ammonia-N	100	100	97.4				2.43
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102						12.4
	Kjeldahl Nitrogen	102					1.58	
	Kjeldahl Nitrogen	101	98.7	103				2.67
EPA 353.2 Rev. 2.0	NO2NO3-N	100	100	101				1.46
	NO2NO3-N	100	101	102				0.380
EPA 365.1 Rev. 2.0	Total-P	100	107	106				0.954
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.5	96.7	97.5				0.824
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	71.9	75.9	85.3				11.7
	Acetochlor	94.4	94.0	99.2				5.33
	Alachlor	85.2	80.4	80.4				0.0007
	Aldrin	67.5	76.5	71.6				6.73
	Alpha-BHC	98.7	107	103				4.20
	Alpha-Chlordane	95.5	94.8	82.7				12.4
	Ametryn	91.2	106	114				7.64
	Atrazine	86.9						1.58
	Atrazine Desethyl	64.0	40.3	39.2				1.77
	Avobenzone	90.3	86.9	89.6				3.13
	Azinphos Methyl	101	106	134				22.9
	Azoxystrobin	66.8	108	106				2.42

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Beta-BHC	113	114	110		3.58
	Beta-Cyfluthrin	79.2	127	130		2.14
	Bifenthrin	56.6	85.0	93.0		8.94
	Bromacil	76.0	75.4	80.9		7.11
	Butylate	64.1	57.5	51.3		11.4
	Caffeine	69.7	69.8	75.0		6.86
	Carbophenothion	76.2	70.6	77.9		9.81
	Carbophenothion	49.9	74.6	70.5		5.71
	Carfentrazone Ethyl	101	96.8	99.9		3.21
	Chlorfenapyr	70.3	74.7	72.2		3.39
	Chlorothalonil	83.7	126	139		9.55
	Chlorpyrifos Ethyl	78.5	67.1	67.7		0.809
	Chlorpyrifos Methyl	81.6	74.6	76.5		2.49
	Cis-Nonachlor	58.0	68.8	75.0		8.59
	Coumaphos	60.1	72.8	74.1		1.86
	Cyanazine	138	129	130		1.42
	Cypermethrin	74.1	120	116		3.27
	Cyprodinil	102	99.2	82.6		18.2
	Dacthal	104	105	95.9		8.72
	DDD-p,p'	74.7	86.5	78.4		9.85
	DDE-p,p'	95.5	93.4	88.0		5.97
	DDT-p,p'	84.7	92.8	86.2		7.38
	Delta-BHC	120	120	121		1.34
	Deltamethrin	101	164	169		2.66
	Demeton	82.1	84.4	77.8		8.13
	Diazinon	110	97.4	99.8		2.40
	Dichlobenil	116	93.3	104		11.1
	Dicofol	73.4	75.7	72.4		4.37
	Dieldrin	99.6	89.7	81.2		6.65
	Difenoconazole	59.4	103	119		14.9
	Dimethenamid	58.3	64.4	73.2		11.2
	Dimethomorph	84.8	140	142		1.70
	Disulfoton	87.0	69.6	73.8		5.86
	Dithiopyr	102	71.6	81.0		9.69
	Endosulfan I	101	94.2	86.9		8.07
	Endosulfan II	85.6	92.1	93.4		1.45
	Endosulfan Sulfate	91.1	80.6	82.0		1.72
	Endrin	80.0	89.0	89.5		0.478
	Endrin Aldehyde	69.2	68.5	66.5		2.97
	Endrin Ketone	105	111	104		6.12
	EPTC	59.1	51.0	48.9		4.38
	Esfenvalerate	68.6	120	122		1.75
	Ethalfuralin	80.1	89.0	82.7		7.25
	Ethion	24.7	41.9	53.5		24.3
	Ethoprop	91.6	86.1	83.7		2.74
	Etridiazole	73.3	68.8	59.9		13.8
	Fenamiphos	69.6	89.4	72.2		21.2
	Fenbuconazole	62.5	78.7	83.4		5.77
	Fenpropathrin	66.7	96.3	93.5		2.97
	Fipronil	96.0	97.5	107		9.65
	Fipronil Desulfinyl	95.0	90.4	97.2		6.71
	Fipronil Sulfide	80.0	75.4	89.4		14.3
	Fipronil Sulfone	73.4	71.1	78.4		5.51
	Fluazifop-P-butyl	98.4	97.7	97.9		0.192

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Fludioxonil	79.1	90.6	95.7		5.49
	Flumioxazin	41.0	62.2	93.2		39.9
	Flutolanil	86.8	87.1	91.6		4.95
	Fluxapyroxad	52.4	69.3	80.4		14.8
	Fonofos	86.7	72.9	72.1		1.12
	Gamma-BHC	116	116	112		3.15
	Gamma-Chlordane	87.1	84.9	84.5		0.503
	Heptachlor	80.4	81.5	77.4		5.17
	Heptachlor Epoxide	96.6	117	77.0		19.0
	Hexachlorobenzene	83.0	84.8	85.2		0.484
	Hexazinone	76.8	73.3	73.6		0.377
	Imazalil	108	90.4	82.6		9.02
	Iprodione	68.6	82.7	89.1		7.40
	Kepone	64.7				3.24
	Lambda-Cyhalothrin	64.3	106	113		6.46
	Loratadine	99.8	134	137		2.41
	Malathion	99.7	92.8	103		10.3
	Metalaxyl	83.2	80.2	82.0		2.22
	Methoprene	55.4	77.7	72.3		7.13
	Methoxychlor	104	104	100		4.26
	Metolachlor	82.1	84.2	86.7		2.95
	Metribuzin	108	86.6	89.8		3.69
	Mevinphos	73.2	66.5	61.8		7.29
	MGK-264	105	107	97.8		9.34
	Mirex	60.6	71.7	72.9		1.68
	Molinate	71.9	63.6	61.2		3.85
	Myclobutanil	88.7	102	95.5		6.29
	Naled	69.0	71.3	74.5		4.48
	Napropamide	45.0	65.9	72.7		9.79
	Norflurazon	79.1	78.9	81.9		3.68
	Octinoxate	77.5	73.3	76.2		3.94
	Oxadiazon	73.5	63.7	68.0		4.92
	Oxybenzone	70.3	74.4	74.5		0.156
	Oxychlordane	94.8	95.9	83.5		13.9
	Oxyfluorfen	93.5	106	113		5.66
	Parathion Ethyl	85.2	77.2	81.1		4.97
	Parathion Methyl	111	102	99.9		1.80
	PBDE-47	65.1	70.3	73.2		4.12
	PBDE-99	60.6	66.2	73.2		10.1
	PCB-1016	104	99.8	102		2.05
	PCB-1260	105	109	109		0.293
	Pendimethalin	102	90.7	89.2		1.69
	Permethrin	87.9	129	124		3.89
	Phenothrin	55.0	96.5	93.0		3.66
	Phenytoin	3.03	9.74	10.5		7.96
	Phorate	74.6	72.8	66.3		9.46
	Piperonyl Butoxide	144	164	174		5.80
	Prallethrin	92.6	99.2	89.9		9.80
	Prodiamine	51.8	60.6	59.0		2.80
	Prometon	60.4	51.6	78.6		19.5
	Prometryn	105	98.8	104		5.43
	Pronamide	90.5	88.5	76.1		15.0
	Propanil	79.0	88.8	76.1		15.5
	Propargite	37.5	52.1	70.2		29.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
EPA 8270E	Propiconazole	84.6		78.5	90.9		12.7
	Pyraflufen Ethyl	86.2		84.0	97.3		14.6
	Pyridaben	78.8		90.4	89.9		0.438
	Pyriproxyfen	37.6		80.4	77.5		3.65
	Simazine	74.1		63.5	69.1		8.37
	Stirophos	31.4		43.6	50.0		13.6
	Sulfentrazone	48.4		63.6	73.9		14.9
	Tau-Fluvalinate	61.9		117	126		6.94
	Tebuconazole	28.7		49.7	63.7		24.7
	Terbufos	112		98.8	96.5		2.44
	Terbutylazine	90.7		82.3	83.1		0.974
	Tetramethrin	130		159	149		6.21
	Thiobencarb	77.4		76.3	76.6		0.479
	Trans-Nonachlor	86.2		91.6	88.9		3.01
	Tri-o-cresyl Phosphate	76.5		71.1	76.8		7.62
	Triadimefon	66.8		66.1	68.4		3.31
	Triclosan Methyl	99.9		97.2	80.4		18.9
	Trifluralin	80.3		87.5	87.0		0.586
EPA 8276	Chlordane	103		112	107		4.99
	Toxaphene	122		144	144		0.200
EPA 8321B	2,4-D	86.0		93.4	96.3		3.12
	2,4,5-T	74.9		80.3	89.6		10.9
	3-Hydroxycarbofuran	77.3		99.6	100		0.620
	Acesulfame K	95.5		79.5	92.9		15.6
	Acetaminophen	86.0		90.6	93.3		2.96
	Acetamiprid	89.8		77.9	92.8		17.4
	Afidopyropen	62.8		58.5	63.3		7.88
	Aldicarb	65.9		35.1	41.0		15.5
	Aldicarb Sulfone	85.0		115	115		0.0498
	Aldicarb Sulfoxide	83.6		47.3	46.7		1.27
	AMPA	108		102	128		22.3
	Bentazon	84.2		79.0	76.6		3.06
	Benzovindiflupyr	74.1		89.1	86.5		2.96
	Carbamazepine	83.3		88.6	93.8		5.73
	Carbaryl	70.1		39.0	45.5		15.5
	Carbofuran	81.2		48.8	49.1		0.622
	Clothianidin	92.5		103	95.3		7.88
	Dinotefuran	91.6		100	107		6.83
	Diuron	53.5		79.5	65.2		19.7
	Endothall	93.8		78.7	89.5		12.9
	Fenuron	84.9		85.8	88.7		3.41
	Fluridone	79.6		81.8	80.5		1.57
	Glufosinate	104		88.9	106		17.8
	Glyphosate	99.2		70.1	88.1		22.7
	Hydrocodone	86.0		91.9	92.9		1.12
	Ibuprofen	75.1		83.7	66.5		22.9
	Imazapyr	90.6		87.5	89.9		2.70
	Imidacloprid	115		133	128		3.87
	Linuron	80.3		80.1	77.3		3.52
	Mandestrobin	76.7		78.6	81.1		3.05
	MCPP	84.1		91.9	99.6		8.06
	Methiocarb	72.9		52.7	58.6		10.6
	Methomyl	80.9		76.7	75.9		1.06
	Naproxen	59.1		54.2	75.8		33.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Oxamyl	83.8	80.3	80.1		0.341
	Primidone	90.9	92.8	97.6		5.04
	Propoxur	71.2	43.7	44.9		2.72
	Pyraclostrobin	82.0	81.8	86.5		5.62
	Silvex	68.2	82.2	82.6		0.531
	Sucralose	96.4	79.5	94.8		16.0
	Thiamethoxam	86.5	94.0	101		7.59
	Tolfenpyrad	56.5	55.1	54.0		1.97
	Triclopyr	83.1	87.4	106		19.5
SM 2320 B-2011	Total Alkalinity	101			0.0050	
SM 2540 C-2011	TDS				3.81	
SM 4500-F- C-2011	Fluoride	104	111	110		1.00
SM 5310 B-2011	Organic Carbon	97.2	96.6	98.2		0.977

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2340001, 2340004, 2340006
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2340001, 2340004, 2340006
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2340043
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2340043
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2340001, 2340004, 2340006
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2340001, 2340004, 2340006
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2340002, 2340005, 2340007
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2340002, 2340005, 2340007
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2340002, 2340005, 2340007
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2340002, 2340005, 2340007
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2340003
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2340035, 2340037
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2340033, 2340034, 2340036
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2340032, 2340035, 2340037
EPA 8270E	PCBs in water matrices by GC/MS/MS	2340033, 2340034, 2340036
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2340033, 2340034, 2340036
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2340023, 2340025
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2340021, 2340022, 2340024, 2340026
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2340001, 2340004, 2340006
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2340043
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2340001, 2340004, 2340006
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2340001, 2340004, 2340006
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2340001, 2340004, 2340006
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2340002, 2340005, 2340007

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	07/08/2022			07/08/2022 15:23	Anna M. Plaviak	2340001
	07/08/2022			07/08/2022 15:24	Anna M. Plaviak	2340004
	07/08/2022			07/08/2022 15:25	Anna M. Plaviak	2340006
EPA 180.1 Rev. 2.0	07/08/2022			07/08/2022 14:08	Khloe J Berg	2340001
	07/08/2022			07/08/2022 14:09	Khloe J Berg	2340004
	07/08/2022			07/08/2022 14:10	Khloe J Berg	2340006
EPA 200.7 Rev. 4.4	07/08/2022	07/11/2022 09:57	Mackenzie Hunt	07/11/2022 22:10	McKinley C Carter	2340043
	07/08/2022	07/11/2022 09:57	Mackenzie Hunt	07/15/2022 18:21	McKinley C Carter	2340043
EPA 200.8 Rev. 5.4	07/08/2022	07/11/2022 09:57	Mackenzie Hunt	07/11/2022 19:55	Alexander Thompson	2340043
	07/08/2022	07/14/2022 09:21	Mackenzie Hunt	07/15/2022 02:03	Emily M Philpot	2340043
EPA 300.0 Rev. 2.1	07/08/2022			07/15/2022 02:57	Anna M. Plaviak	2340001
	07/08/2022			07/15/2022 03:09	Anna M. Plaviak	2340004
	07/08/2022			07/15/2022 03:46	Anna M. Plaviak	2340006
	07/08/2022			07/19/2022 18:41	Anna M. Plaviak	2340001
EPA 350.1 Rev. 2.0	07/08/2022			07/19/2022 18:53	Anna M. Plaviak	2340004
	07/08/2022			07/14/2022 13:40	Ping Hua	2340002
	07/08/2022			07/14/2022 13:47	Ping Hua	2340007
	07/08/2022			07/14/2022 14:31	Ping Hua	2340005
EPA 351.2 Rev. 2.0	07/08/2022	07/15/2022 10:00	Samantha L Bates	07/18/2022 13:56	Alexandra J Mattheus	2340007
	07/08/2022	07/18/2022 16:27	Samantha L Bates	07/19/2022 11:26	Alexandra J Mattheus	2340002
	07/08/2022	07/18/2022 16:27	Samantha L Bates	07/19/2022 11:33	Alexandra J Mattheus	2340005
EPA 353.2 Rev. 2.0	07/08/2022			07/15/2022 10:25	Beverly Y. Sanders	2340002
	07/08/2022			07/15/2022 10:26	Beverly Y. Sanders	2340007
	07/08/2022			07/15/2022 11:11	Beverly Y. Sanders	2340005
EPA 365.1 Rev. 2.0	07/08/2022	07/14/2022 13:10	Simonne.V. Calhoun	07/15/2022 10:40	James L Waggeberby	2340002
	07/08/2022	07/14/2022 13:10	Simonne.V. Calhoun	07/15/2022 10:41	James L Waggeberby	2340005
	07/08/2022	07/14/2022 13:10	Simonne.V. Calhoun	07/15/2022 13:23	Simonne.V. Calhoun	2340007
EPA 365.1 Rev. 2.0 dissolved	07/08/2022			07/08/2022 14:45	Chandler E Cox	2340003
EPA 8270E	07/08/2022	07/11/2022 08:00	Fe-Val Siddell	07/14/2022 23:38	Michael Poppell	2340032
	07/08/2022	07/11/2022 08:00	Fe-Val Siddell	07/15/2022 00:05	Michael Poppell	2340035
	07/08/2022	07/11/2022 08:00	Fe-Val Siddell	07/15/2022 00:32	Michael Poppell	2340037
	07/08/2022	07/11/2022 08:00	Fe-Val Siddell	07/15/2022 18:06	Arthur Maknenko	2340035
	07/08/2022	07/11/2022 08:00	Fe-Val Siddell	07/15/2022 18:26	Arthur Maknenko	2340037
	07/08/2022	07/11/2022 08:00	Fe-Val Siddell	07/17/2022 06:06	Michael Poppell	2340032
	07/08/2022	07/11/2022 08:00	Fe-Val Siddell	07/17/2022 06:32	Michael Poppell	2340032
	07/08/2022	07/11/2022 08:00	Fe-Val Siddell	07/17/2022 06:58	Michael Poppell	2340035
	07/08/2022	07/11/2022 08:00	Fe-Val Siddell	07/17/2022 07:24	Michael Poppell	2340037
	07/08/2022	07/11/2022 08:00	Fe-Val Siddell	07/26/2022 19:12	Lipi Saha	2340037
	07/08/2022	07/12/2022 08:22	Rasheda Ghaffari	07/15/2022 00:31	Arthur Maknenko	2340033
	07/08/2022	07/12/2022 08:22	Rasheda Ghaffari	07/15/2022 01:01	Arthur Maknenko	2340034

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	07/08/2022	07/12/2022 08:22	Rasheda Ghaffari	07/15/2022 01:31	Arthur Maknenko	2340036
	07/08/2022	07/12/2022 08:22	Rasheda Ghaffari	07/17/2022 06:18	Michael Poppell	2340033
	07/08/2022	07/12/2022 08:22	Rasheda Ghaffari	07/17/2022 06:47	Michael Poppell	2340034
	07/08/2022	07/12/2022 08:22	Rasheda Ghaffari	07/17/2022 07:17	Michael Poppell	2340036
EPA 8276	07/08/2022	07/12/2022 08:22	Rasheda Ghaffari	07/19/2022 11:36	Julie Wi	2340033
	07/08/2022	07/12/2022 08:22	Rasheda Ghaffari	07/19/2022 12:32	Julie Wi	2340034
	07/08/2022	07/12/2022 08:22	Rasheda Ghaffari	07/19/2022 13:27	Julie Wi	2340036
EPA 8321B	07/08/2022	07/11/2022 08:30	June Rhew	07/11/2022 20:37	Juyoung Kim	2340023
	07/08/2022	07/11/2022 08:30	June Rhew	07/11/2022 20:58	Juyoung Kim	2340025
	07/08/2022	07/12/2022 09:00	Manjita Shrestha	07/12/2022 11:09	Umesh Chiluwal	2340021
	07/08/2022	07/12/2022 09:00	Manjita Shrestha	07/12/2022 11:24	Umesh Chiluwal	2340022
	07/08/2022	07/12/2022 09:00	Manjita Shrestha	07/12/2022 11:39	Umesh Chiluwal	2340024
	07/08/2022	07/12/2022 09:00	Manjita Shrestha	07/12/2022 12:09	Umesh Chiluwal	2340026
	07/08/2022	07/12/2022 09:00	Manjita Shrestha	07/12/2022 19:58	Manjita Shrestha	2340021
	07/08/2022	07/12/2022 09:00	Manjita Shrestha	07/12/2022 20:11	Manjita Shrestha	2340022
	07/08/2022	07/12/2022 09:00	Manjita Shrestha	07/12/2022 20:23	Manjita Shrestha	2340024
	07/08/2022	07/12/2022 09:00	Manjita Shrestha	07/12/2022 20:36	Manjita Shrestha	2340026
	07/08/2022	07/13/2022 09:00	Hoor Shaik	07/14/2022 07:46	Juyoung Kim	2340021
	07/08/2022	07/13/2022 09:00	Hoor Shaik	07/14/2022 08:07	Juyoung Kim	2340022
	07/08/2022	07/13/2022 09:00	Hoor Shaik	07/14/2022 08:48	Juyoung Kim	2340024
	07/08/2022	07/13/2022 09:00	Hoor Shaik	07/14/2022 09:09	Juyoung Kim	2340026
SM 2320 B-2011	07/08/2022			07/21/2022 01:41	Dale L. Simmons	2340001
	07/08/2022			07/21/2022 02:31	Dale L. Simmons	2340004
	07/08/2022			07/21/2022 02:40	Dale L. Simmons	2340006
SM 2340 B-2011	07/08/2022			07/11/2022 22:10	McKinley C Carter	2340043
SM 2540 C-2011	07/08/2022			07/13/2022 16:09	Yijie Li	2340001, 2340004, 2340006
SM 2540 D-2011	07/08/2022			07/13/2022 16:09	Yijie Li	2340001, 2340004, 2340006
SM 4500-F- C-2011	07/08/2022			07/21/2022 01:41	Dale L. Simmons	2340001
	07/08/2022			07/21/2022 02:31	Dale L. Simmons	2340004
	07/08/2022			07/21/2022 02:40	Dale L. Simmons	2340006
SM 5310 B-2011	07/08/2022			07/11/2022 15:12	Khloe J Berg	2340005
	07/08/2022			07/11/2022 18:52	Khloe J Berg	2340002
	07/08/2022			07/11/2022 19:32	Khloe J Berg	2340007