

Chemical Analysis Report

SO-DIST-2022-07-22-01

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

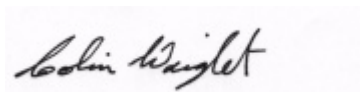
Event Description: **2022 SMP: Lee Coastal**
Request ID: **RQ-2022-07-18-56**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
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Certified by: Colin Wright, Program Administrator

Date Certified: 11-AUG-2022 08:38

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

Case Narrative

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

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Punta Rassa Cove

Collection Date/Time: 07/21/2022 08:15

Field ID: G2SD0047

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2343340	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P417051	
	SM 2320 B-2011	Total Alkalinity	132		mg CaCO3/L	P417217	
	SM 2540 D-2011	TSS	3	U	mg/L	P417483	
	SM 4500-F- C-2011	Fluoride	0.97		mg F/L	P417220	
2343341	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P417313	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.58		mg N/L	P417235	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P417331	
	EPA 365.1 Rev. 2.0	Total-P	0.045		mg P/L	P417096	
	SM 5310 B-2011	Organic Carbon	7.1		mg C/L	P417494	
2343351	EPA 8270E	Oxybenzone**	10	U	ng/L	P417056	
		Acetochlor	0.25	U	ng/L	P417056	
		Octinoxate**	20	U	ng/L	P417056	RPD
		Alachlor	0.25	U	ng/L	P417056	
		Avobenzone**	100	U	ng/L	P417056	
		Ametryn	3.6		ng/L	P417056	RPD
		Atrazine	32		ng/L	P417056	
		PBDE-47**	4.1	U	ng/L	P417056	
		Atrazine Desethyl	5.7	I	ng/L	P417056	
		PBDE-99**	5.1	U	ng/L	P417056	
		Azinphos Methyl	2.0	U	ng/L	P417056	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P417056	
		Azoxystrobin	1.2	I	ng/L	P417056	
		Bromacil	2.8		ng/L	P417056	
		2-Ethylhexyl	12	U	ng/L	P417056	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.41	U	ng/L	P417056	
		Caffeine**	7.6	U	ng/L	P417056	
		Carbophenothion	0.20	U	ng/L	P417056	
		Carfentrazone Ethyl	0.10	U	ng/L	P417056	
		Chlorfenapyr	0.18	U	ng/L	P417056	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P417056	
		Chlorpyrifos Methyl	0.051	U	ng/L	P417056	
		Coumaphos	0.51	U	ng/L	P417056	
		Cyanazine	3.3	U	ng/L	P417056	
		Cyprodinil	0.10	U	ng/L	P417056	
		Demeton	1.5	U	ng/L	P417056	
		Diazinon	0.13	U	ng/L	P417056	
		Difenoconazole	0.61	U	ng/L	P417056	
		Dimethenamid	0.28	I	ng/L	P417056	
		Dimethomorph	0.18	U	ng/L	P417056	
		Disulfoton	0.51	U	ng/L	P417056	
		Dithiopyr	0.18	U	ng/L	P417056	
		EPTC	1.3	U	ng/L	P417056	
		Ethion	0.15	U	ng/L	P417056	

Field ID: G2SD0047

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2343351	EPA 8270E	Ethoprop	0.10	U	ng/L	P417056	
		Etridiazole	0.15	U	ng/L	P417056	
		Fenamiphos	0.51	U	ng/L	P417056	
		Fenbuconazole	0.33	I	ng/L	P417056	
		Fipronil	0.25	U	ng/L	P417056	
		Fipronil Desulfinyl**	0.21	I	ng/L	P417056	RPD
		Fipronil Sulfide	0.15	U	ng/L	P417056	
		Fipronil Sulfone	0.15	I	ng/L	P417056	
		Fluazifop-P-butyl	0.10	U	ng/L	P417056	
		Fludioxonil	0.13	U	ng/L	P417056	
		Flumioxazin	1.8	U	ng/L	P417056	RPD
		Flutolanil	0.10	U	ng/L	P417056	
		Fluxapyroxad	0.94		ng/L	P417056	
		Fonofos	0.20	U	ng/L	P417056	
		Hexazinone	3.0		ng/L	P417056	
		Imazalil	0.76	U	ng/L	P417056	
		Iprodione	0.61	U	ng/L	P417056	
		Loratadine**	0.10	U	ng/L	P417056	MS, RPD
		Malathion	0.36	U	ng/L	P417056	
		Metalaxyl	2.8	I	ng/L	P417056	
		Metolachlor	8.2		ng/L	P417056	
		Metribuzin	2.5	U	ng/L	P417056	
		Mevinphos	1.1	U	ng/L	P417056	
		Molinate	0.30	U	ng/L	P417056	
		Myclobutanil	0.80	I	ng/L	P417056	
		Naled	1.5	U	ng/L	P417056	
		Napropamide	0.41	U	ng/L	P417056	
		Norflurazon	11		ng/L	P417056	
		Oxadiazon	0.52	I	ng/L	P417056	
		Oxyfluorfen	0.15	U	ng/L	P417056	
		Parathion Ethyl	0.25	U	ng/L	P417056	
		Parathion Methyl	0.56	U	ng/L	P417056	
		Pendimethalin	1.0	U	ng/L	P417056	
		Phenytol**	3.6	U	ng/L	P417056	MS, RPD
		Phorate	0.53	U	ng/L	P417056	
		Prodiamine	0.18	U	ng/L	P417056	RPD
		Prometon	0.91	U	ng/L	P417056	
		Prometryn	0.20	U	ng/L	P417056	
		Pronamide	0.15	U	ng/L	P417056	
		Propanil	0.13	U	ng/L	P417056	
		Propargite	1.5	U	ng/L	P417056	MS, RPD
		Propiconazole	1.3	I	ng/L	P417056	
		Pyraflufen Ethyl	0.25	U	ng/L	P417056	
		Pyridaben	0.46	U	ng/L	P417056	
		Pyriproxyfen	0.13	U	ng/L	P417056	

Field ID: G2SD0047

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2343351	EPA 8270E	Simazine	2.0	I	ng/L	P417056	MS, RPD
		Stirophos	0.13	U	ng/L	P417056	
		Sulfentrazone	1.3	I	ng/L	P417056	
		Tebuconazole	0.51	U	ng/L	P417056	
		Terbufos	0.10	U	ng/L	P417056	
		Terbuthylazine	0.43	U	ng/L	P417056	
		Thiobencarb	0.61	U	ng/L	P417056	
		Triadimefon	0.25	U	ng/L	P417056	

Ref. Method and Comment:
EPA 8270E: MS accuracy for atrazine and oxadiazon not assessed due to high content of these parameters in the sample spiked.

Sample Location: Hendry Creek House 1 Upstrm

Collection Date/Time: 07/21/2022 09:55

Field ID: G1SD0118

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2343342	EPA 180.1 Rev. 2.0	Turbidity	3.0	A	NTU	P417052	
	SM 2320 B-2011	Total Alkalinity	206		mg CaCO3/L	P417436	
	SM 2540 D-2011	TSS	6	I	mg/L	P417481	
	SM 4500-F- C-2011	Fluoride	0.31		mg F/L	P417440	
2343343	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P417322	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P417463	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P417306	
	EPA 365.1 Rev. 2.0	Total-P	0.065		mg P/L	P417139	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P417223	
2343352	EPA 8270E	Oxybenzone**	10	U	ng/L	P417056	
		Acetochlor	0.26	U	ng/L	P417056	
		Octinoxate**	21	U	ng/L	P417056	RPD
		Alachlor	0.26	U	ng/L	P417056	
		Avobenzone**	100	U	ng/L	P417056	
		Ametryn	1.7	I	ng/L	P417056	RPD
		Atrazine	22		ng/L	P417056	
		PBDE-47**	4.2	U	ng/L	P417056	
		Atrazine Desethyl	4.1	I	ng/L	P417056	
		PBDE-99**	5.2	U	ng/L	P417056	
		Azinphos Methyl	2.1	U	ng/L	P417056	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P417056	
		Azoxystrobin	0.74	I	ng/L	P417056	
		Bromacil	0.52	U	ng/L	P417056	
		2-Ethylhexyl	13	U	ng/L	P417056	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.42	U	ng/L	P417056	
		Caffeine**	13	I	ng/L	P417056	
		Carbophenothion	0.21	U	ng/L	P417056	
		Carfentrazone Ethyl	0.10	U	ng/L	P417056	
		Chlorfenapyr	0.18	U	ng/L	P417056	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P417056	
		Chlorpyrifos Methyl	0.052	U	ng/L	P417056	
		Coumaphos	0.52	U	ng/L	P417056	
		Cyanazine	3.4	U	ng/L	P417056	
		Cyprodinil	0.10	U	ng/L	P417056	
		Demeton	1.6	U	ng/L	P417056	
		Diazinon	0.13	U	ng/L	P417056	
		Difenoconazole	0.63	U	ng/L	P417056	
		Dimethenamid	0.24	I	ng/L	P417056	
		Dimethomorph	0.18	U	ng/L	P417056	
		Disulfoton	0.52	U	ng/L	P417056	
		Dithiopyr	0.18	U	ng/L	P417056	
		EPTC	1.3	U	ng/L	P417056	
		Ethion	0.16	U	ng/L	P417056	

Field ID: G1SD0118

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2343352	EPA 8270E	Ethoprop	0.10	U	ng/L	P417056	
		Etridiazole	0.16	U	ng/L	P417056	
		Fenamiphos	0.52	U	ng/L	P417056	
		Fenbuconazole	0.13	U	ng/L	P417056	
		Fipronil	0.48	I	ng/L	P417056	
		Fipronil Desulfinyl**	1.5		ng/L	P417056	RPD
		Fipronil Sulfide	1.1		ng/L	P417056	
		Fipronil Sulfone	2.2		ng/L	P417056	
		Fluazifop-P-butyl	0.10	U	ng/L	P417056	
		Fludioxonil	0.18	I	ng/L	P417056	
		Flumioxazin	1.8	U	ng/L	P417056	RPD
		Flutolanil	0.17	I	ng/L	P417056	
		Fluxapyroxad	4.8		ng/L	P417056	
		Fonofos	0.21	U	ng/L	P417056	
		Hexazinone	0.75	I	ng/L	P417056	
		Imazalil	0.79	U	ng/L	P417056	
		Iprodione	0.63	U	ng/L	P417056	
		Loratadine**	0.10	U	ng/L	P417056	MS, RPD
		Malathion	1.2	I	ng/L	P417056	
		Metalaxyl	0.79	U	ng/L	P417056	
		Metolachlor	0.37	U	ng/L	P417056	
		Metribuzin	2.6	U	ng/L	P417056	
		Mevinphos	1.1	U	ng/L	P417056	
		Molinate	0.31	U	ng/L	P417056	
		Myclobutanil	3.8		ng/L	P417056	
		Naled	1.6	U	ng/L	P417056	
		Napropamide	0.42	U	ng/L	P417056	
		Norflurazon	0.52	U	ng/L	P417056	
		Oxadiazon	3.6		ng/L	P417056	
		Oxyfluorfen	0.16	U	ng/L	P417056	
		Parathion Ethyl	0.26	U	ng/L	P417056	
		Parathion Methyl	0.58	U	ng/L	P417056	
		Pendimethalin	1.0	U	ng/L	P417056	
		Phenytol**	3.7	U	ng/L	P417056	MS, RPD
		Phorate	0.55	U	ng/L	P417056	
		Prodiamine	0.18	U	ng/L	P417056	RPD
		Prometon	12		ng/L	P417056	
		Prometryn	0.21	U	ng/L	P417056	
		Pronamide	0.16	U	ng/L	P417056	
		Propanil	0.13	U	ng/L	P417056	
		Propargite	1.6	U	ng/L	P417056	MS, RPD
		Propiconazole	3.2		ng/L	P417056	
		Pyraflufen Ethyl	0.26	U	ng/L	P417056	
		Pyridaben	0.47	U	ng/L	P417056	
		Pyriproxyfen	0.13	U	ng/L	P417056	

Field ID: G1SD0118

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2343352	EPA 8270E	Simazine	0.52	U	ng/L	P417056	MS, RPD
		Stirophos	0.13	U	ng/L	P417056	
		Sulfentrazone	35		ng/L	P417056	
		Tebuconazole	0.81	I	ng/L	P417056	
		Terbufos	0.10	U	ng/L	P417056	
		Terbuthylazine	0.45	U	ng/L	P417056	
		Thiobencarb	0.63	U	ng/L	P417056	
		Triadimefon	0.49	I	ng/L	P417056	

Ref. Method and Comment:
EPA 8270E: MS accuracy for atrazine and oxadiazon not assessed due to high content of these parameters in the sample spiked.

Sample Location: Oak Creek @ Kentucky St.

Collection Date/Time: 07/21/2022 11:10

Field ID: G1SD0116

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2343344	DEP SOP: NU-094-1	Color (true)	39	A	PCU	P417066	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P417051	
	EPA 300.0 Rev. 2.1	Chloride	88		mg Cl/L	P417384	
		Sulfate	27		mg SO4/L	P417387	
	SM 2320 B-2011	Total Alkalinity	267		mg CaCO3/L	P417436	
	SM 2540 C-2011	TDS	469		mg/L	P417490	
	SM 2540 D-2011	TSS	2	U	mg/L	P417478	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P417440	
2343345	EPA 350.1 Rev. 2.0	Ammonia-N	0.052		mg N/L	P417263	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.70		mg N/L	P417463	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P417306	
	EPA 365.1 Rev. 2.0	Total-P	0.055		mg P/L	P417139	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P417294	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P417066

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417051

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417052

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417384

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417387

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417263

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417313

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417322

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417235

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417463

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417306

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417331

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417096

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417139

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

Reference Method: EPA 8270E
Batch ID: P417056

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417056

Component	Result	Code	Units
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
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417056

Component	Result	Code	Units
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P417056

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P417217

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2320 B-2011
Batch ID: P417436

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P417490

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P417478

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P417481

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P417483

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P417220

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P417440

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P417223

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P417294

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

Reference Method: SM 5310 B-2011
Batch ID: P417494

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: P417066

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	94.2		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417052

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	95.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417384

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417387

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417263

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417313

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417322

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417235

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	108		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P417463

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: P417306

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: P417331

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417096

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417139

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

Reference Method: EPA 8270E

Batch ID: P417056

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.8		P	50 - 150
Acetochlor	103		P	70 - 121
Alachlor	95.0		P	68 - 119
Ametryn	96.1		P	64 - 139
Atrazine	91.4		P	76 - 120
Atrazine Desethyl	56.7		P	44 - 126
Avobenzone	90.2		P	76 - 212
Azinphos Methyl	118		P	43 - 192
Azoxystrobin	103		P	36 - 224
Bromacil	75.4		P	52 - 121
Butylate	52.0		P	28 - 91.0
Caffeine	81.1		P	50 - 134
Carbophenothion	83.9		P	56 - 129
Carfentrazone Ethyl	108		P	60 - 141
Chlorfenapyr	89.7		P	56 - 115
Chlorpyrifos Ethyl	87.0		P	60 - 118
Chlorpyrifos Methyl	91.0		P	68 - 119
Coumaphos	97.6		P	18 - 250
Cyanazine	136		P	61 - 250
Cyprodinil	96.6		P	55 - 145
Demeton	118		P	30 - 159
Diazinon	115		P	70 - 123

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P417056

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Difenoconazole	97.9		P	49 - 204
Dimethenamid	80.5		P	64 - 115
Dimethomorph	128		P	12 - 219
Disulfoton	83.9		P	44 - 125
Dithiopyr	101		P	64 - 115
EPTC	49.5		P	28 - 86.0
Ethion	68.0		P	33 - 125
Ethoprop	88.9		P	64 - 116
Etridiazole	57.4		P	34 - 91.0
Fenamiphos	85.4		P	12 - 127
Fenbuconazole	106		P	59 - 151
Fipronil	103		P	67 - 129
Fipronil Desulfinyl	107		P	65 - 127
Fipronil Sulfide	89.9		P	61 - 116
Fipronil Sulfone	90.5		P	55 - 117
Fluazifop-P-butyl	105		P	62 - 127
Fludioxonil	99.2		P	62 - 128
Flumioxazin	136		P	33 - 250
Flutolanil	114		P	56 - 127
Fluxapyroxad	100		P	45 - 128
Fonofos	87.0		P	62 - 111
Hexazinone	91.3		P	46 - 139
Imazalil	95.7		P	38 - 142
Iprodione	104		P	47 - 135
Loratadine	98.7		P	10 - 244
Malathion	92.1		P	61 - 139
Metalaxyl	95.5		P	10 - 119
Metolachlor	101		P	65 - 118
Metribuzin	88.9		P	51 - 250
Mevinphos	71.3		P	53 - 121
Molinate	62.1		P	42 - 96.0
Myclobutanil	98.2		P	55 - 128
Naled	69.6		P	10 - 98.0
Napropamide	91.5		P	49 - 121
Norflurazon	105		P	61 - 126
Octinoxate	86.8		P	30 - 159
Oxadiazon	97.7		P	59 - 116
Oxybenzone	80.2		P	61 - 139
Oxyfluorfen	119		P	64 - 137
Parathion Ethyl	81.7		P	70 - 112
Parathion Methyl	97.5		P	76 - 133
PBDE-47	91.4		P	50 - 150
PBDE-99	84.5		P	50 - 150
Pendimethalin	94.0		P	52 - 117
Phenytain	27.1		P	10 - 199
Phorate	80.4		P	48 - 121
Prodiamine	41.0		P	26 - 142
Prometon	84.9		P	43 - 123
Prometryn	93.9		P	66 - 127
Pronamide	95.5		P	75 - 121
Propanil	88.5		P	45 - 150
Propargite	86.6		P	42 - 208

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P417056

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propiconazole	94.7		P	60 - 125
Pyraflufen Ethyl	97.4		P	70 - 138
Pyridaben	94.3		P	35 - 245
Pyriproxyfen	95.2		P	30 - 149
Simazine	78.9		P	72 - 125
Stirophos	67.7		P	29 - 164
Sulfentrazone	56.5		P	21 - 139
Tebuconazole	75.0		P	10 - 115
Terbufos	112		P	60 - 123
Terbuthylazine	89.1		P	72 - 115
Thiobencarb	91.6		P	31 - 139
Tri-o-cresyl Phosphate	86.0		P	50 - 150
Triadimefon	86.3		P	65 - 116

Reference Method: SM 2320 B-2011
Batch ID: P417217

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P417436

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

Reference Method: SM 4500-F- C-2011
Batch ID: P417220

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

Reference Method: SM 4500-F- C-2011
Batch ID: P417440

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

Reference Method: SM 5310 B-2011
Batch ID: P417223

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

Reference Method: SM 5310 B-2011
Batch ID: P417294

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P417494

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417384

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343310	Chloride	98.3		P	90 - 110
2343377	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417387

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343310	Sulfate	97.6		P	90 - 110
2343377	Sulfate	99.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417263

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343380	Ammonia-N	99.6	97.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417313

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342195	Ammonia-N	105	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417322

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2342449	Ammonia-N	97.6	99.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417235

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343341	Kjeldahl Nitrogen	93.8	93.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417463

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343343	Kjeldahl Nitrogen	109	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417306

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343312	NO2NO3-N	95.0	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417331

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343212	NO2NO3-N	95.6	94.6	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417096

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343187	Total-P	103	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P417139

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343389	Total-P	104	102	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P417056

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343193	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	88.6	73.3	P/P	50 - 150
2343193	Acetochlor	92.5	79.2	P/P	65 - 124
2343193	Alachlor	84.5	82.6	P/P	61 - 121
2343193	Ametryn	104	71.8	P/P	52 - 216
2343193	Atrazine Desethyl	58.4	41.2	P/P	15 - 160
2343193	Avobenzene	93.2	80.0	P/P	59 - 206
2343193	Azinphos Methyl	100	82.1	P/P	40 - 292
2343193	Azoxystrobin	142	99.4	P/P	12 - 242
2343193	Bromacil	71.3	57.7	P/P	54 - 167
2343193	Butylate	52.9	43.7	P/P	14 - 94.0
2343193	Caffeine	104	94.4	P/P	10 - 226
2343193	Carbophenothion	77.4	64.7	P/P	49 - 122
2343193	Carfentrazone Ethyl	83.7	66.4	P/P	53 - 138
2343193	Chlorfenapyr	80.1	64.8	P/P	50 - 150
2343193	Chlorpyrifos Ethyl	72.7	65.4	P/P	52 - 122
2343193	Chlorpyrifos Methyl	79.6	68.5	P/P	66 - 117
2343193	Coumaphos	80.8	59.9	P/P	50 - 220
2343193	Cyanazine	131	109	P/P	43 - 245
2343193	Cyprodinil	90.1	83.1	P/P	50 - 150
2343193	Demeton	123	111	P/P	43 - 188
2343193	Diazinon	107	92.5	P/P	69 - 131
2343193	Difenoconazole	97.8	122	P/P	34 - 231
2343193	Dimethenamid	75.0	59.9	P/P	55 - 118
2343193	Dimethomorph	128	101	P/P	50 - 150
2343193	Disulfoton	86.3	75.5	P/P	38 - 141
2343193	Dithiopyr	78.8	68.2	P/P	42 - 116
2343193	EPTC	56.6	43.5	P/P	18 - 85.0
2343193	Ethion	65.5	28.5	P/P	10 - 131
2343193	Ethoprop	104	92.6	P/P	65 - 129
2343193	Etridiazole	66.4	51.6	P/P	50 - 150
2343193	Fenamiphos	71.6	83.4	P/P	31 - 137
2343193	Fenbuconazole	91.0	71.9	P/P	57 - 160
2343193	Fipronil	93.7	78.9	P/P	62 - 132
2343193	Fipronil Desulfinyl	99.1	73.7	P/P	57 - 131
2343193	Fipronil Sulfide	82.5	75.0	P/P	15 - 138
2343193	Fipronil Sulfone	89.1	65.0	P/P	21 - 134
2343193	Fluazifop-P-butyl	98.9	84.7	P/P	54 - 133
2343193	Fludioxonil	95.8	80.4	P/P	58 - 127
2343193	Flumioxazin	135	90.6	P/P	33 - 300
2343193	Flutolanil	93.5	73.1	P/P	42 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P417056

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343193	Fluxapyroxad	90.8	63.7	P/P	23 - 141
2343193	Fonofos	92.0	84.0	P/P	58 - 119
2343193	Hexazinone	86.2	73.6	P/P	68 - 172
2343193	Imazalil	123	113	P/P	48 - 283
2343193	Iprodione	82.3	71.6	P/P	38 - 140
2343193	Loratadine	120	212	P/F	50 - 150
2343193	Malathion	86.5	74.7	P/P	40 - 137
2343193	Metalaxyl	91.6	63.9	P/P	21 - 129
2343193	Metolachlor	91.3	70.9	P/P	55 - 122
2343193	Metribuzin	93.4	88.1	P/P	38 - 187
2343193	Mevinphos	75.9	74.7	P/P	54 - 134
2343193	Molinate	69.5	54.3	P/P	41 - 97.0
2343193	Myclobutanil	91.6	76.3	P/P	56 - 125
2343193	Naled	65.8	58.3	P/P	10 - 108
2343193	Napropamide	78.4	60.0	P/P	50 - 150
2343193	Norflurazon	92.8	73.6	P/P	32 - 122
2343193	Octinoxate	141	76.8	P/P	25 - 150
2343193	Oxybenzone	101	95.2	P/P	59 - 147
2343193	Oxyfluorfen	116	91.3	P/P	61 - 153
2343193	Parathion Ethyl	86.7	77.3	P/P	59 - 130
2343193	Parathion Methyl	104	98.6	P/P	65 - 155
2343193	PBDE-47	76.2	64.4	P/P	50 - 150
2343193	PBDE-99	71.4	57.9	P/P	50 - 150
2343193	Pendimethalin	102	97.2	P/P	49 - 138
2343193	Phenytoin	48.4	13.2	F/F	50 - 200
2343193	Phorate	90.4	81.7	P/P	54 - 161
2343193	Prodiamine	48.5	94.0	P/P	33 - 161
2343193	Prometon	88.9	76.6	P/P	48 - 140
2343193	Prometryn	72.3	55.0	P/P	55 - 134
2343193	Pronamide	93.7	87.4	P/P	66 - 137
2343193	Propanil	86.1	69.1	P/P	50 - 150
2343193	Propargite	71.5	48.8	P/F	50 - 200
2343193	Propiconazole	95.1	71.4	P/P	36 - 150
2343193	Pyraflufen Ethyl	83.0	70.9	P/P	50 - 150
2343193	Pyridaben	79.1	66.3	P/P	50 - 200
2343193	Pyriproxyfen	84.5	53.1	P/P	10 - 165
2343193	Simazine	82.4	69.3	P/P	57 - 145
2343193	Stirophos	50.5	21.0	P/F	50 - 150
2343193	Sulfentrazone	65.7	45.9	P/P	34 - 140
2343193	Tebuconazole	65.5	41.6	P/P	10 - 127
2343193	Terbufos	120	114	P/P	59 - 138
2343193	Terbuthylazine	86.4	79.9	P/P	68 - 119
2343193	Thiobencarb	81.8	66.9	P/P	50 - 150
2343193	Tri-o-cresyl Phosphate	77.1	67.1	P/P	50 - 150
2343193	Triadimefon	85.7	64.3	P/P	50 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P417220

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343211	Fluoride	99.4	98.6	P/P	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P417440

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344176	Fluoride	102	101	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P417223

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343200	Organic Carbon	95.6	96.6	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P417294

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2343502	Organic Carbon	97.2	99.9	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P417494

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2344316	Organic Carbon	89.8	91.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P417066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343344	Color (true)	0.530	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343377	Turbidity	3.95	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P417052

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343342	Turbidity	6.78	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417384

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343310	Chloride	1.65	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P417387

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343310	Sulfate	1.83	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343380	Ammonia-N	1.62	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417313

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342195	Ammonia-N	3.66	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417322

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2342449	Ammonia-N	1.10	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417235

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343341	Kjeldahl Nitrogen	0.134	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P417463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343343	Kjeldahl Nitrogen	3.40	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343312	NO2NO3-N	7.59	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P417331

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343212	NO2NO3-N	1.05	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417096

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343187	Total-P	1.69	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P417139

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343389	Total-P	1.70	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P417056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343193	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	18.8	Spike	P	0 - 30
2343193	Acetochlor	15.4	Spike	P	0 - 27
2343193	Alachlor	2.20	Spike	P	0 - 27
2343193	Ametryn	36.3	Spike	F	0 - 34
2343193	Atrazine	5.63	Spike	P	0 - 41
2343193	Atrazine Desethyl	34.5	Spike	P	0 - 38
2343193	Avobenzene	15.3	Spike	P	0 - 30
2343193	Azinphos Methyl	20.0	Spike	P	0 - 62
2343193	Azoxystrobin	29.3	Spike	P	0 - 32

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P417056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343193	Bromacil	21.1	Spike	P	0 - 30
2343193	Butylate	19.1	Spike	P	0 - 59
2343193	Caffeine	9.23	Spike	P	0 - 60
2343193	Carbophenothion	17.9	Spike	P	0 - 25
2343193	Carfentrazone Ethyl	23.0	Spike	P	0 - 26
2343193	Chlorfenapyr	21.1	Spike	P	0 - 30
2343193	Chlorpyrifos Ethyl	10.7	Spike	P	0 - 27
2343193	Chlorpyrifos Methyl	15.0	Spike	P	0 - 26
2343193	Coumaphos	29.7	Spike	P	0 - 30
2343193	Cyanazine	18.7	Spike	P	0 - 58
2343193	Cyprodinil	7.98	Spike	P	0 - 30
2343193	Demeton	10.5	Spike	P	0 - 25
2343193	Diazinon	14.3	Spike	P	0 - 29
2343193	Difenoconazole	22.2	Spike	P	0 - 25
2343193	Dimethenamid	22.4	Spike	P	0 - 30
2343193	Dimethomorph	20.9	Spike	P	0 - 30
2343193	Disulfoton	13.3	Spike	P	0 - 33
2343193	Dithiopyr	12.0	Spike	P	0 - 22
2343193	EPTC	26.2	Spike	P	0 - 38
2343193	Ethion	78.7	Spike	P	0 - 79
2343193	Ethoprop	11.2	Spike	P	0 - 23
2343193	Etridiazole	25.1	Spike	P	0 - 30
2343193	Fenamiphos	15.2	Spike	P	0 - 58
2343193	Fenbuconazole	23.4	Spike	P	0 - 37
2343193	Fipronil	17.2	Spike	P	0 - 33
2343193	Fipronil Desulfanyl	28.2	Spike	F	0 - 26
2343193	Fipronil Sulfide	8.06	Spike	P	0 - 37
2343193	Fipronil Sulfone	22.1	Spike	P	0 - 50
2343193	Fluazifop-P-butyl	15.4	Spike	P	0 - 24
2343193	Fludioxonil	17.5	Spike	P	0 - 26
2343193	Flumioxazin	39.2	Spike	F	0 - 37
2343193	Flutolanil	22.1	Spike	P	0 - 26
2343193	Fluxapyroxad	24.7	Spike	P	0 - 34
2343193	Fonofos	9.05	Spike	P	0 - 27
2343193	Hexazinone	14.6	Spike	P	0 - 36
2343193	Imazalil	7.96	Spike	P	0 - 65
2343193	Iprodione	13.9	Spike	P	0 - 33
2343193	Loratadine	52.7	Spike	F	0 - 30
2343193	Malathion	12.7	Spike	P	0 - 44
2343193	Metalaxyl	35.7	Spike	P	0 - 38
2343193	Metolachlor	25.1	Spike	P	0 - 36
2343193	Metribuzin	5.77	Spike	P	0 - 63
2343193	Mevinphos	1.66	Spike	P	0 - 26
2343193	Molinate	24.5	Spike	P	0 - 40
2343193	Myclobutanil	16.7	Spike	P	0 - 21
2343193	Naled	12.0	Spike	P	0 - 26
2343193	Napropamide	26.5	Spike	P	0 - 30
2343193	Norflurazon	23.2	Spike	P	0 - 24
2343193	Octinoxate	58.8	Spike	F	0 - 30
2343193	Oxadiazon	9.23	Spike	P	0 - 27
2343193	Oxybenzone	6.06	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P417056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343193	Oxyfluorfen	23.7	Spike	P	0 - 24
2343193	Parathion Ethyl	11.4	Spike	P	0 - 28
2343193	Parathion Methyl	4.99	Spike	P	0 - 27
2343193	PBDE-47	16.7	Spike	P	0 - 30
2343193	PBDE-99	20.9	Spike	P	0 - 30
2343193	Pendimethalin	5.25	Spike	P	0 - 31
2343193	Phenytol	114	Spike	F	0 - 30
2343193	Phorate	10.2	Spike	P	0 - 27
2343193	Prodiamine	63.9	Spike	F	0 - 52
2343193	Prometon	14.8	Spike	P	0 - 31
2343193	Prometryn	27.1	Spike	P	0 - 28
2343193	Pronamide	6.97	Spike	P	0 - 26
2343193	Propanil	21.9	Spike	P	0 - 30
2343193	Propargite	37.9	Spike	F	0 - 30
2343193	Propiconazole	24.4	Spike	P	0 - 31
2343193	Pyraflufen Ethyl	15.7	Spike	P	0 - 30
2343193	Pyridaben	17.7	Spike	P	0 - 30
2343193	Pyriproxyfen	45.6	Spike	P	0 - 50
2343193	Simazine	17.3	Spike	P	0 - 29
2343193	Stiropfos	82.6	Spike	F	0 - 30
2343193	Sulfentrazone	18.2	Spike	P	0 - 33
2343193	Tebuconazole	39.1	Spike	P	0 - 44
2343193	Terbufos	5.64	Spike	P	0 - 29
2343193	Terbuthylazine	7.82	Spike	P	0 - 27
2343193	Thiobencarb	20.1	Spike	P	0 - 30
2343193	Tri-o-cresyl Phosphate	13.9	Spike	P	0 - 30
2343193	Triadimefon	28.6	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P417217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343211	Total Alkalinity	0.165	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011

Batch ID: P417436

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344176	Total Alkalinity	1.28	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011

Batch ID: P417490

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343095	TDS	5.98	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 2540 D-2011
Batch ID: P417481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343379	TSS	7.59	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P417483

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343186	TSS	6.67	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P417220

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343211	Fluoride	0.483	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P417440

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344176	Fluoride	0.484	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P417223

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343200	Organic Carbon	0.551	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P417294

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2343502	Organic Carbon	1.70	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P417494

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2344316	Organic Carbon	1.20	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2343351
Field Sample ID: G2SD0047

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	67.8	P	20 - 200
EPA 8270E	Simazine-d10	104	P	71 - 140
EPA 8270E	Terbufos-d10	112	P	62 - 131
EPA 8270E	Terphenyl-d14	94.3	P	52 - 141

Lab Sample ID: 2343352
Field Sample ID: G1SD0118

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	55.1	P	20 - 200
EPA 8270E	Simazine-d10	86.1	P	71 - 140
EPA 8270E	Terbufos-d10	100	P	62 - 131
EPA 8270E	Terphenyl-d14	87.3	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A113670

Included Lab Sample IDs: 2343340, 2343342, 2343344

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	98.0	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A113681

Included Lab Sample IDs: 2343344

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A113721

Included Lab Sample IDs: 2343344

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	104	P/P	90 - 110
Sulfate	99.8	103	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A113724

Included Lab Sample IDs: 2343340

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.4	98.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A113724

Included Lab Sample IDs: 2343340

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

Reference Method: SM 5310 B-2011

Run ID: A113725

Included Lab Sample IDs: 2343343

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.1	97.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113735

Included Lab Sample IDs: 2343341

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113739

Included Lab Sample IDs: 2343345

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A113757

Included Lab Sample IDs: 2343345

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.9	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113761

Included Lab Sample IDs: 2343343, 2343345

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113763

Included Lab Sample IDs: 2343341

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	98.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113764

Included Lab Sample IDs: 2343341

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.8	99.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113765

Included Lab Sample IDs: 2343343

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.8	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113767

Included Lab Sample IDs: 2343341

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113768

Included Lab Sample IDs: 2343343, 2343345

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

Reference Method: SM 2320 B-2011

Run ID: A113811

Included Lab Sample IDs: 2343342, 2343344

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.7	99.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A113811

Included Lab Sample IDs: 2343342, 2343344

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

Reference Method: SM 5310 B-2011

Run ID: A113849

Included Lab Sample IDs: 2343341

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.2	90.8	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113868

Included Lab Sample IDs: 2343351, 2343352

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	99.9		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	96.1		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	97.7		P	80 - 120
Azinphos Methyl	100		P	80 - 120
Azoxystrobin	97.8		P	80 - 120
Bromacil	96.6		P	80 - 120
Butylate	97.5		P	80 - 120
Caffeine	99.0		P	80 - 120
Carbophenothion	105		P	80 - 120
Carfentrazone Ethyl	99.2		P	80 - 120
Chlorfenapyr	119		P	80 - 120
Chlorpyrifos Ethyl	111		P	80 - 120
Chlorpyrifos Methyl	106		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	101		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	103		P	80 - 120
Difenoconazole	102		P	80 - 120
Dimethenamid	99.8		P	80 - 120
Dimethomorph	82.0		P	80 - 120
Disulfoton	110		P	80 - 120
Dithiopyr	102		P	80 - 120
EPTC	97.8		P	80 - 120
Ethion	105		P	80 - 120
Ethoprop	100		P	80 - 120
Etridiazole	96.1		P	80 - 120
Fenamiphos	102		P	80 - 120
Fenbuconazole	96.4		P	80 - 120
Fipronil	93.7		P	80 - 120
Fipronil Desulfinyl	94.8		P	80 - 120
Fipronil Sulfide	99.0		P	80 - 120
Fipronil Sulfone	99.5		P	80 - 120
Fluazifop-P-butyl	104		P	80 - 120
Fludioxonil	99.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113868

Included Lab Sample IDs: 2343351, 2343352

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Flumioxazin	91.2		P	80 - 120
Flutolanil	95.5		P	80 - 120
Fluxapyroxad	88.5		P	80 - 120
Fonofos	108		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	100		P	80 - 120
Iprodione	97.2		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	97.0		P	80 - 120
Metalaxyl	103		P	80 - 120
Metolachlor	93.9		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	95.6		P	80 - 120
Molinate	96.1		P	80 - 120
Myclobutanil	98.9		P	80 - 120
Naled	108		P	80 - 120
Napropamide	104		P	80 - 120
Norflurazon	95.2		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	98.2		P	80 - 120
Parathion Ethyl	97.5		P	80 - 120
Parathion Methyl	95.5		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytoin	94.6		P	80 - 120
Phorate	106		P	80 - 120
Prodiamine	107		P	80 - 120
Prometon	98.6		P	80 - 120
Prometryn	99.0		P	80 - 120
Pronamide	95.1		P	80 - 120
Propanil	90.7		P	80 - 120
Propargite	94.3		P	80 - 120
Propiconazole	98.9		P	80 - 120
Pyraflufen Ethyl	98.1		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	98.2		P	80 - 120
Simazine	96.9		P	80 - 120
Stiropfos	109		P	80 - 120
Sulfentrazone	92.8		P	80 - 120
Tebuconazole	97.8		P	80 - 120
Terbufos	107		P	80 - 120
Terbutylazine	99.4		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	103		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113899

Included Lab Sample IDs: 2343343, 2343345

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.4	96.4	P/P	90 - 110
Kjeldahl Nitrogen	96.4	99.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113926

Included Lab Sample IDs: 2343351, 2343352

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	86.9		P	80 - 120
Avobenzene	90.8		P	80 - 120
Octinoxate	99.2		P	80 - 120
Oxybenzone	100		P	80 - 120
PBDE-47	90.6		P	80 - 120
PBDE-99	85.4		P	80 - 120
Tri-o-cresyl Phosphate	93.8		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		Precision	
					LCS	MS
DEP SOP: NU-094-1	Color (true)	101			0.530	
EPA 180.1 Rev. 2.0	Turbidity	94.2			3.95	
	Turbidity	95.0			6.78	
EPA 300.0 Rev. 2.1	Chloride	102	98.3	101	1.65	
	Sulfate	101	97.6	99.2	1.83	
EPA 350.1 Rev. 2.0	Ammonia-N	94.8	99.6	97.6		1.62
	Ammonia-N	96.2	105	101		3.66
	Ammonia-N	98.2	97.6	99.6		1.10
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	93.8	93.7		0.134
	Kjeldahl Nitrogen	101	109	102		3.40
EPA 353.2 Rev. 2.0	NO2NO3-N	100	95.0	102		7.59
	NO2NO3-N	99.5	95.6	94.6		1.05
EPA 365.1 Rev. 2.0	Total-P	103	103	105		1.69
	Total-P	103	104	102		1.70
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	92.8	88.6	73.3		18.8
	Acetochlor	103	92.5	79.2		15.4
	Alachlor	95.0	84.5	82.6		2.20
	Ametryn	96.1	104	71.8		36.3
	Atrazine	91.4				5.63
	Atrazine Desethyl	56.7	58.4	41.2		34.5
	Avobenzone	90.2	93.2	80.0		15.3
	Azinphos Methyl	118	100	82.1		20.0
	Azoxystrobin	103	142	99.4		29.3
	Bromacil	75.4	71.3	57.7		21.1
	Butylate	52.0	52.9	43.7		19.1
	Caffeine	81.1	104	94.4		9.23
	Carbophenothion	83.9	77.4	64.7		17.9
	Carfentrazone Ethyl	108	83.7	66.4		23.0
	Chlorfenapyr	89.7	80.1	64.8		21.1
	Chlorpyrifos Ethyl	87.0	72.7	65.4		10.7
	Chlorpyrifos Methyl	91.0	79.6	68.5		15.0
	Coumaphos	97.6	80.8	59.9		29.7
	Cyanazine	136	131	109		18.7
	Cyprodinil	96.6	90.1	83.1		7.98
	Demeton	118	123	111		10.5
	Diazinon	115	107	92.5		14.3
	Difenoconazole	97.9	97.8	122		22.2
	Dimethenamid	80.5	75.0	59.9		22.4
	Dimethomorph	128	128	101		20.9
	Disulfoton	83.9	86.3	75.5		13.3
	Dithiopyr	101	78.8	68.2		12.0
	EPTC	49.5	56.6	43.5		26.2
	Ethion	68.0	65.5	28.5		78.7
	Ethoprop	88.9	104	92.6		11.2
	Etridiazole	57.4	66.4	51.6		25.1
	Fenamiphos	85.4	71.6	83.4		15.2
	Fenbuconazole	106	91.0	71.9		23.4
	Fipronil	103	93.7	78.9		17.2
	Fipronil Desulfinyl	107	99.1	73.7		28.2
	Fipronil Sulfide	89.9	82.5	75.0		8.06
	Fipronil Sulfone	90.5	89.1	65.0		22.1
	Fluazifop-P-butyl	105	98.9	84.7		15.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Fludioxonil	99.2	95.8	80.4			17.5
	Flumioxazin	136	135	90.6			39.2
	Flutolanil	114	93.5	73.1			22.1
	Fluxapyroxad	100	90.8	63.7			24.7
	Fonofos	87.0	92.0	84.0			9.05
	Hexazinone	91.3	86.2	73.6			14.6
	Imazalil	95.7	123	113			7.96
	Iprodione	104	82.3	71.6			13.9
	Loratadine	98.7	120	212			52.7
	Malathion	92.1	86.5	74.7			12.7
	Metalaxyl	95.5	91.6	63.9			35.7
	Metolachlor	101	91.3	70.9			25.1
	Metribuzin	88.9	93.4	88.1			5.77
	Mevinphos	71.3	75.9	74.7			1.66
	Molinate	62.1	69.5	54.3			24.5
	Myclobutanil	98.2	91.6	76.3			16.7
	Naled	69.6	65.8	58.3			12.0
	Napropamide	91.5	78.4	60.0			26.5
	Norflurazon	105	92.8	73.6			23.2
	Octinoxate	86.8	141	76.8			58.8
	Oxadiazon	97.7					9.23
	Oxybenzone	80.2	101	95.2			6.06
	Oxyfluorfen	119	116	91.3			23.7
	Parathion Ethyl	81.7	86.7	77.3			11.4
	Parathion Methyl	97.5	104	98.6			4.99
	PBDE-47	91.4	76.2	64.4			16.7
	PBDE-99	84.5	71.4	57.9			20.9
	Pendimethalin	94.0	102	97.2			5.25
	Phenytoin	27.1	48.4	13.2			114
	Phorate	80.4	90.4	81.7			10.2
	Prodiamine	41.0	48.5	94.0			63.9
	Prometon	84.9	88.9	76.6			14.8
	Prometryn	93.9	72.3	55.0			27.1
	Pronamide	95.5	93.7	87.4			6.97
	Propanil	88.5	86.1	69.1			21.9
	Propargite	86.6	71.5	48.8			37.9
	Propiconazole	94.7	95.1	71.4			24.4
	Pyraflufen Ethyl	97.4	83.0	70.9			15.7
	Pyridaben	94.3	79.1	66.3			17.7
	Pyriproxyfen	95.2	84.5	53.1			45.6
	Simazine	78.9	82.4	69.3			17.3
	Stirophos	67.7	50.5	21.0			82.6
	Sulfentrazone	56.5	65.7	45.9			18.2
	Tebuconazole	75.0	65.5	41.6			39.1
	Terbufos	112	120	114			5.64
	Terbuthylazine	89.1	86.4	79.9			7.82
	Thiobencarb	91.6	81.8	66.9			20.1
	Tri-o-cresyl Phosphate	86.0	77.1	67.1			13.9
	Triadimefon	86.3	85.7	64.3			28.6
SM 2320 B-2011	Total Alkalinity	100				0.165	
	Total Alkalinity	99.1				1.28	
SM 2540 C-2011	TDS					5.98	
SM 2540 D-2011	TSS					7.59	
	TSS					6.67	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 4500-F- C-2011	Fluoride	101	99.4	98.6		0.483
	Fluoride	103	102	101		0.484
SM 5310 B-2011	Organic Carbon	96.6	95.6	96.6		0.551
	Organic Carbon	95.6	97.2	99.9		1.70
	Organic Carbon	99.0	89.8	91.3		1.20

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2343344
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2343340, 2343342, 2343344
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2343344
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2343344
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2343341, 2343343, 2343345
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2343341, 2343343, 2343345
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2343341, 2343343, 2343345
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2343341, 2343343, 2343345
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2343351, 2343352
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2343351, 2343352
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2343340, 2343342, 2343344
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2343344
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2343340, 2343342, 2343344
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2343340, 2343342, 2343344
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2343341, 2343343, 2343345

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	07/22/2022			07/22/2022 14:43	Blanca Fach	2343344
EPA 180.1 Rev. 2.0	07/22/2022			07/22/2022 17:10	Anna M. Plaviak	2343344
	07/22/2022			07/22/2022 17:31	Anna M. Plaviak	2343340
	07/22/2022			07/22/2022 17:36	Anna M. Plaviak	2343342
EPA 300.0 Rev. 2.1	07/22/2022			07/28/2022 21:45	Anna M. Plaviak	2343344
EPA 350.1 Rev. 2.0	07/22/2022			07/27/2022 14:42	Judith K. Clark	2343345
	07/22/2022			07/28/2022 11:09	Ping Hua	2343341
	07/22/2022			07/28/2022 12:13	Judith K. Clark	2343343
EPA 351.2 Rev. 2.0	07/22/2022	07/27/2022 11:55	Simonne.V. Calhoun	07/28/2022 12:36	Samantha L Bates	2343341
	07/22/2022	08/02/2022 13:37	Samantha L Bates	08/04/2022 10:36	Alexandra J Mattheus	2343343
	07/22/2022	08/02/2022 13:37	Samantha L Bates	08/04/2022 10:45	Alexandra J Mattheus	2343345
EPA 353.2 Rev. 2.0	07/22/2022			07/27/2022 17:02	Touraj Touran	2343341
	07/22/2022			07/28/2022 10:08	Beverly Y. Sanders	2343343
	07/22/2022			07/28/2022 10:10	Beverly Y. Sanders	2343345
EPA 365.1 Rev. 2.0	07/22/2022	07/25/2022 15:50	Adam P Silver	07/27/2022 14:20	James L Waggeberby	2343341
	07/22/2022	07/27/2022 16:58	Adam P Silver	07/28/2022 12:38	James L Waggeberby	2343343
	07/22/2022	07/27/2022 16:58	Adam P Silver	07/28/2022 12:41	James L Waggeberby	2343345
EPA 8270E	07/22/2022	07/27/2022 08:00	Fe-Val Siddell	07/31/2022 21:32	Michael Poppell	2343351
	07/22/2022	07/27/2022 08:00	Fe-Val Siddell	07/31/2022 21:59	Michael Poppell	2343352
	07/22/2022	07/27/2022 08:00	Fe-Val Siddell	08/01/2022 20:06	Lipi Saha	2343351
	07/22/2022	07/27/2022 08:00	Fe-Val Siddell	08/01/2022 20:25	Lipi Saha	2343352
SM 2320 B-2011	07/22/2022			07/27/2022 06:27	Dale L. Simmons	2343340
	07/22/2022			07/30/2022 07:26	Adam P Silver	2343344
	07/22/2022			07/30/2022 08:09	Adam P Silver	2343342
SM 2540 C-2011	07/22/2022			07/26/2022 15:02	Yijie Li	2343344
SM 2540 D-2011	07/22/2022			07/26/2022 15:02	Yijie Li	2343340, 2343342, 2343344
SM 4500-F- C-2011	07/22/2022			07/27/2022 00:49	Dale L. Simmons	2343340
	07/22/2022			07/30/2022 07:26	Adam P Silver	2343344
	07/22/2022			07/30/2022 08:09	Adam P Silver	2343342
SM 5310 B-2011	07/22/2022			07/27/2022 06:11	Khloe J Berg	2343343
	07/22/2022			07/27/2022 18:30	Khloe J Berg	2343345
	07/22/2022			08/02/2022 03:03	Khloe J Berg	2343341