Chemical Analysis Report

CEN-DIST-2022-06-23-01

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

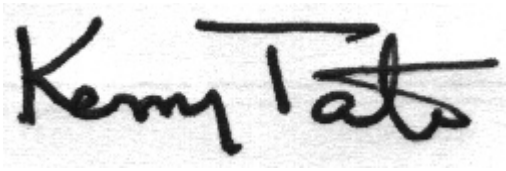
Event Description: **Lakes Jane and of the Woods LVIs**
Request ID: **RQ-2022-06-20-18**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

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

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

Date Certified: 14-JUL-2022 08:45



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 Jane @ Center **Collection Date/Time: 06/22/2022 11:46**

Field ID: G4CE0152 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336796	DEP SOP: NU-094-1	Color (true)	30		PCU	P415684	
	EPA 180.1 Rev. 2.0	Turbidity	8.1	A	NTU	P415669	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P415944	
		Sulfate	7.3		mg SO4/L	P415949	
	SM 2320 B-2011	Total Alkalinity	82		mg CaCO3/L	P415954	
	SM 2540 C-2011	TDS	136		mg/L	P416221	
	SM 2540 D-2011	TSS	14		mg/L	P416188	
	SM 4500-F- C-2011	Fluoride	0.10		mg F/L	P415962	
2336798	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P415994	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P415874	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P416343	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P415935	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P415856	
2336800	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.007	I	mg P/L	P415666	
2336809	EPA 8321B	2,4-D	0.023		ug/L	P415828	
		Acesulfame K	0.32	I	ug/L	P415602	
		AMPA	1.2		ug/L	P415602	
		2,4,5-T	0.0040	U	ug/L	P415828	MS
		Acetaminophen	0.0080	U	ug/L	P415828	
		Acetamiprid	0.0020	U	ug/L	P415828	
		Endothall	0.25	U	ug/L	P415602	
		Glufosinate	0.10	U	ug/L	P415602	
		Glyphosate	0.65		ug/L	P415602	
		Afidopyropen	0.0020	U	ug/L	P415828	
		Bentazon	0.0051		ug/L	P415828	
		Sucralose	1.1		ug/L	P415602	
		Benzovindiflupyr	0.0020	U	ug/L	P415828	
		Carbamazepine	0.0031	I	ug/L	P415828	
		Clothianidin	0.0020	U	ug/L	P415828	
		Dinotefuran	0.0020	U	ug/L	P415828	
		Diuron	0.0020	U	ug/L	P415828	
		Fenuron	0.032	U	ug/L	P415828	
		Fluridone	0.0061		ug/L	P415828	
		Imazapyr	0.016		ug/L	P415828	
		Hydrocodone	0.0020	U	ug/L	P415828	
		Ibuprofen	0.080	U	ug/L	P415828	
		Imidacloprid	0.0021	I	ug/L	P415828	
		Linuron	0.0040	U	ug/L	P415828	
		Mandestrobin	0.0020	U	ug/L	P415828	
		MCPP	0.0040	U	ug/L	P415828	
		Naproxen	0.0080	U	ug/L	P415828	
		Primidone	0.0040	U	ug/L	P415828	
		Pyraclostrobin	0.0020	U	ug/L	P415828	

Field ID: G4CE0152 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336809	EPA 8321B	Silvex	0.0040	U	ug/L	P415828	
		Thiamethoxam	0.0020	U	ug/L	P415828	
		Tolfenpyrad	0.0020	U	ug/L	P415828	
		Triclopyr	0.0040	U	ug/L	P415828	
2336824	EPA 200.7 Rev. 4.4	Calcium	30.4		mg/L	P415695	
		Iron	69	I	ug/L	P415695	
		Magnesium	2.52		mg/L	P415695	
		Potassium	2.6		mg/L	P415695	
		Sodium	11.6		mg/L	P415695	
		Strontium	75.7		ug/L	P415695	
		Tin	3.0	U	ug/L	P415695	
		Titanium	1.1	I	ug/L	P415695	
		Vanadium	2.0	U	ug/L	P415695	
		Zinc	5.0	U	ug/L	P415695	
	EPA 200.8 Rev. 5.4	Aluminum	74		ug/L	P415695	
		Antimony	0.25		ug/L	P415695	
		Arsenic	0.54		ug/L	P415695	
		Barium	11.6		ug/L	P415695	
		Beryllium	0.010	U	ug/L	P415695	
		Boron	42.8		ug/L	P415695	
		Cadmium	0.020	U	ug/L	P415695	
		Chromium	0.40	U	ug/L	P415695	
		Cobalt	0.070	I	ug/L	P415695	
		Copper	0.60	I	ug/L	P415695	
		Lead	0.46		ug/L	P415695	
		Manganese	20.1		ug/L	P415695	
		Molybdenum	0.80		ug/L	P415695	
		Nickel	0.50	U	ug/L	P415695	
		Selenium	0.20	U	ug/L	P415695	
		Silver	0.010	U	ug/L	P415695	
		Thallium	0.10	U	ug/L	P415695	
	SM 2340 B-2011	Hardness	86.3		mg/L	P415695	
2336827	EPA 8270E	Oxybenzone**	10	U	ng/L	P415844	
		Acetochlor	0.26	U	ng/L	P415844	
		Octinoxate**	37	I	ng/L	P415844	
		Alachlor	0.26	U	ng/L	P415844	
		Avobenzone**	100	U	ng/L	P415844	
		Ametryn	0.62	U	ng/L	P415844	
		Atrazine	13		ng/L	P415844	
		PBDE-47**	4.1	U	ng/L	P415844	
		Atrazine Desethyl	2.8	I	ng/L	P415844	
		PBDE-99**	5.2	U	ng/L	P415844	
		Azinphos Methyl	2.1	U	ng/L	P415844	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P415844	
		Azoxystrobin**	2.0	I	ng/L	P415844	

Field ID: G4CE0152 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336827	EPA 8270E	Bromacil	1.1	I	ng/L	P415844	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P415844	
		Butylate	0.41	U	ng/L	P415844	
		Caffeine**	47		ng/L	P415844	
		Carbophenothion	0.21	U	ng/L	P415844	
		Carfentrazone Ethyl**	0.10	U	ng/L	P415844	
		Chlorfenapyr**	0.18	U	ng/L	P415844	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P415844	
		Chlorpyrifos Methyl	0.052	U	ng/L	P415844	
		Coumaphos**	0.52	U	ng/L	P415844	
		Cyanazine	3.4	U	ng/L	P415844	
		Cyprodinil**	0.10	U	ng/L	P415844	
		Demeton	1.6	U	ng/L	P415844	
		Diazinon	0.13	U	ng/L	P415844	
		Difenoconazole**	0.62	U	ng/L	P415844	
		Dimethenamid**	0.10	U	ng/L	P415844	
		Dimethomorph**	0.18	U	ng/L	P415844	
		Disulfoton	0.52	U	ng/L	P415844	
		Dithiopyr**	0.18	U	ng/L	P415844	
		EPTC	1.3	U	ng/L	P415844	
		Ethion	0.16	U	ng/L	P415844	
		Ethoprop	0.10	U	ng/L	P415844	
		Etridiazole**	0.16	U	ng/L	P415844	MS
		Fenamiphos	0.52	U	ng/L	P415844	
		Fenbuconazole**	0.13	U	ng/L	P415844	
		Fipronil	0.26	U	ng/L	P415844	
		Fipronil Desulfinyl**	0.87		ng/L	P415844	
		Fipronil Sulfide	0.36	I	ng/L	P415844	
		Fipronil Sulfone	1.2		ng/L	P415844	
		Fluazifop-P-butyl**	0.10	U	ng/L	P415844	
		Fludioxonil**	0.13	U	ng/L	P415844	
		Flumioxazin**	1.8	U	ng/L	P415844	
		Flutolanil**	0.10	U	ng/L	P415844	
		Fluxapyroxad**	0.10	U	ng/L	P415844	
		Fonofos	0.21	U	ng/L	P415844	
		Hexazinone	3.0		ng/L	P415844	
		Imazalil**	0.78	U	ng/L	P415844	
		Iprodione**	0.62	U	ng/L	P415844	
		Loratadine**	0.10	U	ng/L	P415844	
		Malathion	0.36	U	ng/L	P415844	
		Metalaxyl	0.78	U	ng/L	P415844	
		Metolachlor	0.36	U	ng/L	P415844	
		Metribuzin	2.6	U	ng/L	P415844	
		Mevinphos	1.1	U	ng/L	P415844	

Field ID: G4CE0152 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336827	EPA 8270E	Molinate	0.31	U	ng/L	P415844	
		Myclobutanil**	0.26	U	ng/L	P415844	
		Naled**	1.6	U	ng/L	P415844	
		Napropamide**	0.41	U	ng/L	P415844	
		Norflurazon	0.52	U	ng/L	P415844	
		Oxadiazon	0.62	I	ng/L	P415844	
		Oxyfluorfen**	0.16	U	ng/L	P415844	
		Parathion Ethyl	0.26	U	ng/L	P415844	
		Parathion Methyl	0.57	U	ng/L	P415844	
		Pendimethalin	1.0	U	ng/L	P415844	
		Phenytoin**	3.6	U	ng/L	P415844	
		Phorate	0.54	U	ng/L	P415844	
		Prodiamine**	0.18	U	ng/L	P415844	
		Prometon	1.9	I	ng/L	P415844	
		Prometryn	0.21	U	ng/L	P415844	
		Pronamide**	0.16	U	ng/L	P415844	
		Propanil**	0.13	U	ng/L	P415844	
		Propargite**	1.6	U	ng/L	P415844	
		Propiconazole**	0.52	U	ng/L	P415844	
		Pyraflufen Ethyl**	0.26	U	ng/L	P415844	
		Pyridaben**	0.47	U	ng/L	P415844	
		Pyriproxyfen**	0.13	U	ng/L	P415844	
		Simazine	0.52	U	ng/L	P415844	
		Stirophos**	0.13	U	ng/L	P415844	
		Sulfentrazone**	0.52	U	ng/L	P415844	
		Tebuconazole**	0.80	I	ng/L	P415844	
		Terbufos	0.10	U	ng/L	P415844	
		Terbuthylazine	0.44	U	ng/L	P415844	
		Thiobencarb**	0.62	U	ng/L	P415844	
		Triadimefon**	0.26	U	ng/L	P415844	

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

Sample Location: Lake of the Woods Center **Collection Date/Time: 06/22/2022 09:38**

Field ID: G4CE0205 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336797	DEP SOP: NU-094-1	Color (true)	16		PCU	P415684	
	EPA 180.1 Rev. 2.0	Turbidity	4.1		NTU	P415669	
	EPA 300.0 Rev. 2.1	Chloride	20		mg Cl/L	P415944	
		Sulfate	20		mg SO4/L	P415949	
	SM 2320 B-2011	Total Alkalinity	78		mg CaCO3/L	P415954	
	SM 2540 C-2011	TDS	162	A	mg/L	P416221	
	SM 2540 D-2011	TSS	8	I A	mg/L	P416188	
	SM 4500-F- C-2011	Fluoride	0.069	I	mg F/L	P415962	
2336799	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P415994	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.72		mg N/L	P415871	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P416344	
	EPA 365.1 Rev. 2.0	Total-P	0.072		mg P/L	P415935	
	SM 5310 B-2011	Organic Carbon	5.6		mg C/L	P415856	
2336801	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.005	I	mg P/L	P415666	
2336810	EPA 8321B	2,4-D	0.0022	I	ug/L	P415828	
		Acesulfame K	0.10	U	ug/L	P415602	
		AMPA	1.6		ug/L	P415602	
		2,4,5-T	0.0040	U	ug/L	P415828	MS
		Acetaminophen	0.0080	U	ug/L	P415828	
		Acetamiprid	0.0020	U	ug/L	P415828	
		Endothall	0.25	U	ug/L	P415602	
		Glufosinate	0.10	U	ug/L	P415602	
		Glyphosate	2.4		ug/L	P415602	
		Afidopyropen	0.0020	U	ug/L	P415828	
		Bentazon	0.055		ug/L	P415828	
		Sucralose	0.16		ug/L	P415602	
		Benzovindiflupyr	0.0020	U	ug/L	P415828	
		Carbamazepine	8.0E-04	U	ug/L	P415828	
		Clothianidin	0.0038	I	ug/L	P415828	
		Dinotefuran	0.0056	I	ug/L	P415828	
		Diuron	0.0025	I	ug/L	P415828	
		Fenuron	0.032	U	ug/L	P415828	
		Fluridone	0.0075		ug/L	P415828	
		Imazapyr	1.7		ug/L	P415828	
		Hydrocodone	0.0020	U	ug/L	P415828	
		Ibuprofen	0.080	U	ug/L	P415828	
		Imidacloprid	0.023		ug/L	P415828	
		Linuron	0.0040	U	ug/L	P415828	
		Mandestrobin	0.0020	U	ug/L	P415828	
		MCPP	0.0040	U	ug/L	P415828	
		Naproxen	0.0080	U	ug/L	P415828	
		Primidone	0.0040	U	ug/L	P415828	
		Pyraclostrobin	0.0020	U	ug/L	P415828	

Field ID: G4CE0205 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336810	EPA 8321B	Silvex	0.0040	U	ug/L	P415828	
		Thiamethoxam	0.0020	U	ug/L	P415828	
		Tolfenpyrad	0.0020	U	ug/L	P415828	
		Triclopyr	0.0040	U	ug/L	P415828	
2336825	EPA 200.7 Rev. 4.4	Calcium	31.9		mg/L	P415695	
		Iron	180		ug/L	P415695	
		Magnesium	4.89		mg/L	P415695	
		Potassium	2.5		mg/L	P415695	
		Sodium	12.8		mg/L	P415695	
		Strontium	53.4		ug/L	P415695	
		Tin	3.0	U	ug/L	P415695	
		Titanium	1.5	I	ug/L	P415695	
		Vanadium	2.0	I	ug/L	P415695	
		Zinc	5.0	U	ug/L	P415695	
	EPA 200.8 Rev. 5.4	Aluminum	80		ug/L	P415695	
		Antimony	0.42		ug/L	P415695	
		Arsenic	0.62		ug/L	P415695	
		Barium	24.5		ug/L	P415695	
		Beryllium	0.013	I	ug/L	P415695	
		Boron	44.1		ug/L	P415695	
		Cadmium	0.020	U	ug/L	P415695	
		Chromium	0.40	U	ug/L	P415695	
		Cobalt	0.064	I	ug/L	P415695	
		Copper	0.86		ug/L	P415695	
		Lead	1.01		ug/L	P415695	
		Manganese	19.5		ug/L	P415695	
		Molybdenum	1.44		ug/L	P415695	
		Nickel	0.50	U	ug/L	P415695	
		Selenium	0.40	I	ug/L	P415695	
		Silver	0.010	U	ug/L	P415695	
		Thallium	0.10	U	ug/L	P415695	
	SM 2340 B-2011	Hardness	99.9		mg/L	P415695	
2336828	EPA 8270E	Oxybenzone**	10	U	ng/L	P415844	
		Acetochlor	0.26	U	ng/L	P415844	
		Octinoxate**	30	I	ng/L	P415844	
		Alachlor	0.26	U	ng/L	P415844	
		Avobenzone**	100	U	ng/L	P415844	
		Ametryn	0.62	U	ng/L	P415844	
		Atrazine	16		ng/L	P415844	
		PBDE-47**	4.1	U	ng/L	P415844	
		Atrazine Desethyl	1.8	I	ng/L	P415844	
		PBDE-99**	5.2	U	ng/L	P415844	
		Azinphos Methyl	2.1	U	ng/L	P415844	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P415844	
		Azoxystrobin**	2.0	I	ng/L	P415844	

Field ID: G4CE0205 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336828	EPA 8270E	Bromacil	31		ng/L	P415844	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P415844	
		Butylate	0.41	U	ng/L	P415844	
		Caffeine**	88		ng/L	P415844	
		Carbophenothion	0.21	U	ng/L	P415844	
		Carfentrazone Ethyl**	0.10	U	ng/L	P415844	
		Chlorfenapyr**	0.18	U	ng/L	P415844	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P415844	
		Chlorpyrifos Methyl	0.052	U	ng/L	P415844	
		Coumaphos**	0.52	U	ng/L	P415844	
		Cyanazine	3.4	U	ng/L	P415844	
		Cyprodinil**	0.10	U	ng/L	P415844	
		Demeton	1.5	U	ng/L	P415844	
		Diazinon	0.13	U	ng/L	P415844	
		Difenoconazole**	0.62	U	ng/L	P415844	
		Dimethenamid**	0.10	U	ng/L	P415844	
		Dimethomorph**	0.18	U	ng/L	P415844	
		Disulfoton	0.52	U	ng/L	P415844	
		Dithiopyr**	0.18	U	ng/L	P415844	
		EPTC	1.3	U	ng/L	P415844	
		Ethion	0.15	U	ng/L	P415844	
		Ethoprop	0.10	U	ng/L	P415844	
		Etridiazole**	0.15	U	ng/L	P415844	MS
		Fenamiphos	0.52	U	ng/L	P415844	
		Fenbuconazole**	0.13	U	ng/L	P415844	
		Fipronil	0.41	I	ng/L	P415844	
		Fipronil Desulfinyl**	3.8		ng/L	P415844	
		Fipronil Sulfide	0.74		ng/L	P415844	
		Fipronil Sulfone	3.3		ng/L	P415844	
		Fluazifop-P-butyl**	0.10	U	ng/L	P415844	
		Fludioxonil**	0.13	U	ng/L	P415844	
		Flumioxazin**	3.1	I	ng/L	P415844	
		Flutolanil**	0.10	U	ng/L	P415844	
		Fluxapyroxad**	0.10	U	ng/L	P415844	
		Fonofos	0.21	U	ng/L	P415844	
		Hexazinone	1.3	I	ng/L	P415844	
		Imazalil**	0.77	U	ng/L	P415844	
		Iprodione**	0.62	U	ng/L	P415844	
		Loratadine**	0.10	U	ng/L	P415844	
		Malathion	0.36	U	ng/L	P415844	
		Metalaxyl	0.77	U	ng/L	P415844	
		Metolachlor	0.36	U	ng/L	P415844	
		Metribuzin	2.6	U	ng/L	P415844	
		Mevinphos	1.1	U	ng/L	P415844	

Field ID: G4CE0205 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336828	EPA 8270E	Molinate	0.31	U	ng/L	P415844	
		Myclobutanil**	0.34	I	ng/L	P415844	
		Naled**	1.5	U	ng/L	P415844	
		Napropamide**	0.41	U	ng/L	P415844	
		Norflurazon	0.52	U	ng/L	P415844	
		Oxadiazon	1.0	I	ng/L	P415844	
		Oxyfluorfen**	0.15	U	ng/L	P415844	
		Parathion Ethyl	0.26	U	ng/L	P415844	
		Parathion Methyl	0.57	U	ng/L	P415844	
		Pendimethalin	1.0	U	ng/L	P415844	
		Phenytoin**	3.6	U	ng/L	P415844	
		Phorate	0.54	U	ng/L	P415844	
		Prodiamine**	0.18	U	ng/L	P415844	
		Prometon	0.93	U	ng/L	P415844	
		Prometryn	0.21	U	ng/L	P415844	
		Pronamide**	0.15	U	ng/L	P415844	
		Propanil**	0.13	U	ng/L	P415844	
		Propargite**	1.5	U	ng/L	P415844	
		Propiconazole**	7.1		ng/L	P415844	
		Pyraflufen Ethyl**	0.26	U	ng/L	P415844	
		Pyridaben**	0.46	U	ng/L	P415844	
		Pyriproxyfen**	0.13	U	ng/L	P415844	
		Simazine	0.52	U	ng/L	P415844	
		Stirophos**	0.13	U	ng/L	P415844	
		Sulfentrazone**	4.5		ng/L	P415844	
		Tebuconazole**	8.6		ng/L	P415844	
		Terbufos	0.10	U	ng/L	P415844	
		Terbuthylazine	0.44	U	ng/L	P415844	
		Thiobencarb**	0.62	U	ng/L	P415844	
		Triadimefon**	0.26	U	ng/L	P415844	

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

Sample Location: FB **Collection Date/Time: 06/22/2022 10:03**

Field ID: FB_06222022 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336802	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P415685	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P415669	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P415944	
		Sulfate	0.20	U	mg SO4/L	P415949	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P415958	
	SM 2540 C-2011	TDS	15	U	mg/L	P416221	
	SM 2540 D-2011	TSS	2	U	mg/L	P416188	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P415963	
2336803	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P415995	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P415871	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P416344	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P415935	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P415856	
2336804	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P415666	
2336811	EPA 8321B	2,4-D	0.0020	U	ug/L	P415828	
		Acesulfame K	0.10	U	ug/L	P415602	
		AMPA	0.10	U	ug/L	P415602	
		2,4,5-T	0.0040	U	ug/L	P415828	MS
		Acetaminophen	0.0080	U	ug/L	P415828	
		Acetamiprid	0.0020	U	ug/L	P415828	
		Endothall	0.25	U	ug/L	P415602	
		Glufosinate	0.10	U	ug/L	P415602	
		Glyphosate	0.10	U	ug/L	P415602	
		Afidopyropen	0.0020	U	ug/L	P415828	
		Bentazon	8.0E-04	U	ug/L	P415828	
		Sucralose	0.010	U	ug/L	P415602	
		Benzovindiflupyr	0.0020	U	ug/L	P415828	
		Carbamazepine	8.0E-04	U	ug/L	P415828	
		Clothianidin	0.0020	U	ug/L	P415828	
		Dinotefuran	0.0020	U	ug/L	P415828	
		Diuron	0.0020	U	ug/L	P415828	
		Fenuron	0.032	U	ug/L	P415828	
		Fluridone	8.0E-04	U	ug/L	P415828	
		Imazapyr	0.0040	U	ug/L	P415828	
		Hydrocodone	0.0020	U	ug/L	P415828	
		Ibuprofen	0.080	U	ug/L	P415828	
		Imidacloprid	0.0020	U	ug/L	P415828	
		Linuron	0.0040	U	ug/L	P415828	
		Mandestrobin	0.0020	U	ug/L	P415828	
		MCPP	0.0040	U	ug/L	P415828	
		Naproxen	0.0080	U	ug/L	P415828	
		Primidone	0.0040	U	ug/L	P415828	
		Pyraclostrobin	0.0020	U	ug/L	P415828	

Field ID: FB_06222022 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336811	EPA 8321B	Silvex	0.0040	U	ug/L	P415828	
		Thiamethoxam	0.0020	U	ug/L	P415828	
		Tolfenpyrad	0.0020	U	ug/L	P415828	
		Triclopyr	0.0040	U	ug/L	P415828	
2336826	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P415695	
		Iron	30	U	ug/L	P415695	
		Magnesium	0.040	U	mg/L	P415695	
		Potassium	0.30	U	mg/L	P415695	
		Sodium	0.50	U	mg/L	P415695	
		Strontium	2.0	U	ug/L	P415695	
		Tin	3.0	U	ug/L	P415695	
		Titanium	0.75	U	ug/L	P415695	
		Vanadium	2.0	U	ug/L	P415695	
		Zinc	5.0	U	ug/L	P415695	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P415695	
		Antimony	0.050	U	ug/L	P415695	
		Arsenic	0.050	U	ug/L	P415695	
		Barium	0.20	U	ug/L	P415695	
		Beryllium	0.010	U	ug/L	P415695	
		Boron	2.0	U	ug/L	P415695	
		Cadmium	0.020	U	ug/L	P415695	
		Chromium	0.40	U	ug/L	P415695	
		Cobalt	0.020	U	ug/L	P415695	
		Copper	0.40	U	ug/L	P415695	
		Lead	0.20	U	ug/L	P415695	
		Manganese	0.10	U	ug/L	P415695	
		Molybdenum	0.15	U	ug/L	P415695	
		Nickel	0.50	U	ug/L	P415695	
		Selenium	0.20	U	ug/L	P415695	
		Silver	0.010	U	ug/L	P415695	
		Thallium	0.10	U	ug/L	P415695	
	SM 2340 B-2011	Hardness	0.35	U	mg/L	P415695	
2336829	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P415844	
		Acetochlor	0.24	U	ng/L	P415844	
		Octinoxate**	19	U	ng/L	P415844	
		Alachlor	0.24	U	ng/L	P415844	
		Avobenzone**	97	U	ng/L	P415844	
		Ametryn	0.58	U	ng/L	P415844	
		Atrazine	0.24	U	ng/L	P415844	
		PBDE-47**	3.9	U	ng/L	P415844	
		Atrazine Desethyl	1.5	U	ng/L	P415844	
		PBDE-99**	4.9	U	ng/L	P415844	
		Azinphos Methyl	1.9	U	ng/L	P415844	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P415844	
		Azoxystrobin**	0.49	U	ng/L	P415844	

Field ID: FB_06222022 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336829	EPA 8270E	Bromacil	0.49	U	ng/L	P415844	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P415844	
		Butylate	0.39	U	ng/L	P415844	
		Caffeine**	7.3	U	ng/L	P415844	
		Carbophenothion	0.19	U	ng/L	P415844	
		Carfentrazone Ethyl**	0.097	U	ng/L	P415844	
		Chlorfenapyr**	0.17	U	ng/L	P415844	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P415844	
		Chlorpyrifos Methyl	0.049	U	ng/L	P415844	
		Coumaphos**	0.49	U	ng/L	P415844	
		Cyanazine	3.2	U	ng/L	P415844	
		Cyprodinil**	0.097	U	ng/L	P415844	
		Demeton	1.5	U	ng/L	P415844	
		Diazinon	0.12	U	ng/L	P415844	
		Difenoconazole**	0.58	U	ng/L	P415844	
		Dimethenamid**	0.097	U	ng/L	P415844	
		Dimethomorph**	0.17	U	ng/L	P415844	
		Disulfoton	0.49	U	ng/L	P415844	
		Dithiopyr**	0.17	U	ng/L	P415844	
		EPTC	1.2	U	ng/L	P415844	
		Ethion	0.15	U	ng/L	P415844	
		Ethoprop	0.097	U	ng/L	P415844	
		Etridiazole**	0.15	U	ng/L	P415844	MS
		Fenamiphos	0.49	U	ng/L	P415844	
		Fenbuconazole**	0.12	U	ng/L	P415844	
		Fipronil	0.24	U	ng/L	P415844	
		Fipronil Desulfinyl**	0.12	U	ng/L	P415844	
		Fipronil Sulfide	0.15	U	ng/L	P415844	
		Fipronil Sulfone	0.15	U	ng/L	P415844	
		Fluazifop-P-butyl**	0.097	U	ng/L	P415844	
		Fludioxonil**	0.12	U	ng/L	P415844	
		Flumioxazin**	1.7	U	ng/L	P415844	
		Flutolanil**	0.097	U	ng/L	P415844	
		Fluxapyroxad**	0.097	U	ng/L	P415844	
		Fonofos	0.19	U	ng/L	P415844	
		Hexazinone	0.49	U	ng/L	P415844	
		Imazalil**	0.73	U	ng/L	P415844	
		Iprodione**	0.58	U	ng/L	P415844	
		Loratadine**	0.097	U	ng/L	P415844	
		Malathion	0.34	U	ng/L	P415844	
		Metalaxyl	0.73	U	ng/L	P415844	
		Metolachlor	0.34	U	ng/L	P415844	
		Metribuzin	2.4	U	ng/L	P415844	
		Mevinphos	1.0	U	ng/L	P415844	

Field ID: FB_06222022 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336829	EPA 8270E	Molinate	0.29	U	ng/L	P415844	
		Myclobutanil**	0.24	U	ng/L	P415844	
		Naled**	1.5	U	ng/L	P415844	
		Napropamide**	0.39	U	ng/L	P415844	
		Norflurazon	0.49	U	ng/L	P415844	
		Oxadiazon	0.29	U	ng/L	P415844	
		Oxyfluorfen**	0.15	U	ng/L	P415844	
		Parathion Ethyl	0.24	U	ng/L	P415844	
		Parathion Methyl	0.54	U	ng/L	P415844	
		Pendimethalin	0.97	U	ng/L	P415844	
		Phenytoin**	3.4	U	ng/L	P415844	
		Phorate	0.51	U	ng/L	P415844	
		Prodiamine**	0.17	U	ng/L	P415844	
		Prometon	0.88	U	ng/L	P415844	
		Prometryn	0.19	U	ng/L	P415844	
		Pronamide**	0.15	U	ng/L	P415844	
		Propanil**	0.12	U	ng/L	P415844	
		Propargite**	1.5	U	ng/L	P415844	
		Propiconazole**	0.49	U	ng/L	P415844	
		Pyraflufen Ethyl**	0.24	U	ng/L	P415844	
		Pyridaben**	0.44	U	ng/L	P415844	
		Pyriproxyfen**	0.12	U	ng/L	P415844	
		Simazine	0.49	U	ng/L	P415844	
		Stirophos**	0.12	U	ng/L	P415844	
		Sulfentrazone**	0.49	U	ng/L	P415844	
		Tebuconazole**	0.49	U	ng/L	P415844	
		Terbufos	0.097	U	ng/L	P415844	
		Terbuthylazine	0.41	U	ng/L	P415844	
		Thiobencarb**	0.58	U	ng/L	P415844	
		Triadimefon**	0.24	U	ng/L	P415844	

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

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P415684

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P415685

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415669

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415695

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: P415695

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415944

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415949

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415994

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415995

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415871

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415874

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416343

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416344

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415935

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P415666

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

Reference Method: EPA 8270E
Batch ID: P415844

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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P415844

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P415844

Component	Result	Code	Units
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
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P415844

Component	Result	Code	Units
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 8321B
Batch ID: P415602

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: P415828

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P415828

Component	Result	Code	Units
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P415954

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

Reference Method: SM 2320 B-2011
Batch ID: P415958

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

Reference Method: SM 2540 C-2011
Batch ID: P416221

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P416188

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P415962

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P415963

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P415856

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: P415684

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P415685

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: P415669

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	102		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	110		P	85 - 115
Sodium	102		P	85 - 115
Strontium	102		P	85 - 115
Tin	106		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	94.3		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.7		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	98.7		P	85 - 115
Barium	103		P	85 - 115
Beryllium	97.4		P	85 - 115
Boron	98.3		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	97.2		P	85 - 115
Cobalt	100		P	85 - 115
Copper	97.0		P	85 - 115
Lead	94.7		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	100		P	85 - 115
Nickel	98.8		P	85 - 115
Selenium	94.4		P	85 - 115
Silver	99.1		P	85 - 115
Thallium	98.2		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415944

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415949

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415994

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415995

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415871

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415874

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416343

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: P416344

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415935

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P415666

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.2		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P415844

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	74.4		P	50 - 150
Acetochlor	105		P	70 - 121
Alachlor	106		P	68 - 119
Ametryn	93.7		P	64 - 139
Atrazine	107		P	76 - 120
Atrazine Desethyl	79.8		P	44 - 126
Avobenzone	89.9		P	76 - 212
Azinphos Methyl	150		P	43 - 192
Azoxystrobin	134		P	36 - 224
Bromacil	75.9		P	52 - 121
Butylate	73.6		P	28 - 91.0
Caffeine	59.3		P	50 - 134
Carbophenothion	101		P	56 - 129
Carfentrazone Ethyl	103		P	60 - 141
Chlorfenapyr	57.2		P	56 - 115
Chlorpyrifos Ethyl	69.1		P	60 - 118
Chlorpyrifos Methyl	76.4		P	68 - 119
Coumaphos	65.6		P	18 - 250
Cyanazine	110		P	61 - 250
Cyprodinil	83.2		P	55 - 145
Demeton	82.4		P	30 - 159
Diazinon	112		P	70 - 123
Difenoconazole	72.9		P	49 - 204
Dimethenamid	86.7		P	64 - 115
Dimethomorph	192		P	12 - 219
Disulfoton	86.4		P	44 - 125
Dithiopyr	99.5		P	64 - 115
EPTC	68.0		P	28 - 86.0
Ethion	69.6		P	33 - 125
Ethoprop	96.3		P	64 - 116
Etridiazole	86.1		P	34 - 91.0
Fenamiphos	61.0		P	12 - 127
Fenbuconazole	88.6		P	59 - 151
Fipronil	101		P	67 - 129
Fipronil Desulfinyl	106		P	65 - 127
Fipronil Sulfide	76.4		P	61 - 116
Fipronil Sulfone	99.0		P	55 - 117
Fluazifop-P-butyl	99.7		P	62 - 127
Fludioxonil	74.1		P	62 - 128
Flumioxazin	110		P	33 - 250
Flutolanil	84.7		P	56 - 127
Fluxapyroxad	48.4		P	45 - 128
Fonofos	70.2		P	62 - 111
Hexazinone	90.6		P	46 - 139
Imazalil	65.4		P	38 - 142
Iprodione	92.6		P	47 - 135

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P415844

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Loratadine	204		P	10 - 244
Malathion	83.6		P	61 - 139
Metalaxyl	90.4		P	10 - 119
Metolachlor	79.3		P	65 - 118
Metribuzin	111		P	51 - 250
Mevinphos	91.2		P	53 - 121
Molinate	82.5		P	42 - 96.0
Myclobutanil	105		P	55 - 128
Naled	85.4		P	10 - 98.0
Napropamide	49.4		P	49 - 121
Norflurazon	87.2		P	61 - 126
Octinoxate	82.8		P	30 - 159
Oxadiazon	67.3		P	59 - 116
Oxybenzone	73.8		P	61 - 139
Oxyfluorfen	75.4		P	64 - 137
Parathion Ethyl	90.6		P	70 - 112
Parathion Methyl	126		P	76 - 133
PBDE-47	65.5		P	50 - 150
PBDE-99	59.8		P	50 - 150
Pendimethalin	114		P	52 - 117
Phenytoin	34.7		P	10 - 199
Phorate	74.5		P	48 - 121
Prodiamine	101		P	26 - 142
Prometon	79.9		P	43 - 123
Prometryn	81.3		P	66 - 127
Pronamide	110		P	75 - 121
Propanil	103		P	45 - 150
Propargite	161		P	42 - 208
Propiconazole	79.4		P	60 - 125
Pyraflufen Ethyl	91.4		P	70 - 138
Pyridaben	75.0		P	35 - 245
Pyriproxyfen	49.6		P	30 - 149
Simazine	101		P	72 - 125
Stirophos	87.1		P	29 - 164
Sulfentrazone	103		P	21 - 139
Tebuconazole	16.8		P	10 - 115
Terbufos	94.8		P	60 - 123
Terbuthylazine	93.4		P	72 - 115
Thiobencarb	107		P	31 - 139
Tri-o-cresyl Phosphate	79.6		P	50 - 150
Triadimefon	83.2		P	65 - 116

Reference Method: EPA 8321B
Batch ID: P415602

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	82.0		P	40 - 150
AMPA	110		P	40 - 150
Endothall	64.1		P	40 - 150
Glufosinate	104		P	40 - 150
Glyphosate	97.3		P	40 - 150
Sucralose	103		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P415828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	52.9		P	40 - 150
2,4,5-T	44.6		P	40 - 150
Acetaminophen	83.1		P	30 - 150
Acetamiprid	78.4		P	40 - 150
Afidopyropen	45.0		P	30 - 150
Bentazon	70.8		P	30 - 150
Benzovindiflupyr	87.2		P	40 - 150
Carbamazepine	83.5		P	40 - 150
Clothianidin	89.4		P	40 - 150
Dinotefuran	90.8		P	40 - 150
Diuron	66.8		P	40 - 150
Fenuron	90.2		P	40 - 150
Fluridone	80.6		P	40 - 150
Hydrocodone	81.9		P	40 - 150
Ibuprofen	60.5		P	40 - 150
Imazapyr	88.0		P	40 - 150
Imidacloprid	87.9		P	40 - 150
Linuron	66.8		P	40 - 150
Mandestrobin	72.4		P	40 - 150
MCPP	69.4		P	40 - 150
Naproxen	42.9		P	40 - 150
Primidone	92.2		P	40 - 150
Pyraclostrobin	72.5		P	40 - 150
Silvex	42.7		P	40 - 150
Thiamethoxam	83.8		P	40 - 150
Tolfenpyrad	43.0		P	30 - 150
Triclopyr	51.2		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P415954

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

Reference Method: SM 2320 B-2011
Batch ID: P415958

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

Reference Method: SM 4500-F- C-2011
Batch ID: P415962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P415963

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.3		P	96 - 104

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P415856

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336741	Calcium	103	102	P/P	80 - 120
2336741	Iron	104	104	P/P	80 - 120
2336741	Magnesium	105	104	P/P	80 - 120
2336741	Potassium	113	112	P/P	80 - 120
2336741	Sodium	103	102	P/P	80 - 120
2336741	Strontium	102	103	P/P	80 - 120
2336741	Tin	104	104	P/P	80 - 120
2336741	Titanium	103	103	P/P	80 - 120
2336741	Vanadium	94.6	93.9	P/P	80 - 120
2336741	Zinc	103	99.4	P/P	80 - 120
2336854	Calcium	98.6		P	80 - 120
2336854	Iron	106		P	80 - 120
2336854	Magnesium	103		P	80 - 120
2336854	Potassium	105		P	80 - 120
2336854	Sodium	101		P	80 - 120
2336854	Strontium	104		P	80 - 120
2336854	Tin	103		P	80 - 120
2336854	Titanium	102		P	80 - 120
2336854	Vanadium	95.2		P	80 - 120
2336854	Zinc	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336741	Aluminum	96.3	96.2	P/P	80 - 120
2336741	Antimony	98.4	98.7	P/P	80 - 120
2336741	Arsenic	94.4	95.2	P/P	80 - 120
2336741	Barium	100	100	P/P	80 - 120
2336741	Beryllium	96.0	95.7	P/P	80 - 120
2336741	Boron	100	101	P/P	80 - 120
2336741	Cadmium	95.7	98.2	P/P	80 - 120
2336741	Chromium	95.2	94.6	P/P	80 - 120
2336741	Cobalt	96.2	97.0	P/P	80 - 120
2336741	Copper	96.6	97.5	P/P	80 - 120
2336741	Lead	93.0	93.8	P/P	80 - 120
2336741	Manganese	95.8	97.2	P/P	80 - 120
2336741	Molybdenum	96.8	97.8	P/P	80 - 120
2336741	Nickel	94.1	94.0	P/P	80 - 120
2336741	Selenium	92.8	93.1	P/P	80 - 120
2336741	Silver	94.6	96.3	P/P	80 - 120
2336741	Thallium	96.8	98.3	P/P	80 - 120
2336854	Aluminum	100		P	80 - 120
2336854	Antimony	101		P	80 - 120
2336854	Arsenic	98.9		P	80 - 120
2336854	Barium	102		P	80 - 120
2336854	Beryllium	100		P	80 - 120
2336854	Boron	104		P	80 - 120
2336854	Cadmium	99.3		P	80 - 120
2336854	Chromium	98.7		P	80 - 120
2336854	Cobalt	99.4		P	80 - 120
2336854	Copper	96.5		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336854	Lead	96.3		P	80 - 120
2336854	Manganese	99.4		P	80 - 120
2336854	Molybdenum	99.8		P	80 - 120
2336854	Nickel	97.1		P	80 - 120
2336854	Selenium	98.1		P	80 - 120
2336854	Silver	96.0		P	80 - 120
2336854	Thallium	101		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415944

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336699	Chloride	99.7		P	90 - 110
2336766	Chloride	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415949

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336699	Sulfate	100		P	90 - 110
2336766	Sulfate	97.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415994

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336737	Ammonia-N	106	106	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415995

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336817	Ammonia-N	101	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415871

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336737	Kjeldahl Nitrogen	108	98.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415874

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336580	Kjeldahl Nitrogen	98.0	99.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416343

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336615	NO2NO3-N	104	103	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416344

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336799	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336861	Total-P	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P415666

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336800	O-Phosphate-P	95.8	96.0	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P415844

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336742	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	109	115	P/P	50 - 150
2336742	Acetochlor	99.8	87.0	P/P	65 - 124
2336742	Alachlor	97.4	84.4	P/P	61 - 121
2336742	Ametryn	107	101	P/P	52 - 216
2336742	Atrazine Desethyl	85.5	76.8	P/P	15 - 160
2336742	Avobenzone	119	156	P/P	59 - 206
2336742	Azinphos Methyl	153	149	P/P	40 - 292
2336742	Azoxystrobin	112	103	P/P	12 - 242
2336742	Bromacil	97.9	87.9	P/P	54 - 167
2336742	Butylate	45.8	34.8	P/P	14 - 94.0
2336742	Caffeine	85.4	88.9	P/P	10 - 226
2336742	Carbophenothion	110	98.2	P/P	49 - 122
2336742	Carfentrazone Ethyl	115	94.4	P/P	53 - 138
2336742	Chlorfenapyr	90.9	73.8	P/P	50 - 150
2336742	Chlorpyrifos Ethyl	86.3	77.9	P/P	52 - 122
2336742	Chlorpyrifos Methyl	84.0	71.7	P/P	66 - 117
2336742	Coumaphos	112	96.6	P/P	50 - 220
2336742	Cyanazine	103	89.2	P/P	43 - 245
2336742	Cyprodinil	98.5	85.3	P/P	50 - 150
2336742	Demeton	73.2	65.2	P/P	43 - 188
2336742	Diazinon	101	85.7	P/P	69 - 131
2336742	Difenoconazole	143	129	P/P	34 - 231
2336742	Dimethenamid	85.0	72.5	P/P	55 - 118
2336742	Dimethomorph	95.9	88.8	P/P	50 - 150
2336742	Disulfoton	84.1	74.5	P/P	38 - 141
2336742	Dithiopyr	97.7	83.4	P/P	42 - 116
2336742	EPTC	39.2	28.1	P/P	18 - 85.0
2336742	Ethion	81.8	68.4	P/P	10 - 131
2336742	Ethoprop	97.4	82.4	P/P	65 - 129
2336742	Etridiazole	51.3	38.5	P/F	50 - 150
2336742	Fenamiphos	98.0	85.5	P/P	31 - 137
2336742	Fenbuconazole	111	94.1	P/P	57 - 160
2336742	Fipronil	115	97.6	P/P	62 - 132
2336742	Fipronil Desulfinyl	120	97.5	P/P	57 - 131

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P415844

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336742	Fipronil Sulfide	95.8	82.4	P/P	15 - 138
2336742	Fipronil Sulfone	105	96.3	P/P	21 - 134
2336742	Fluazifop-P-butyl	122	111	P/P	54 - 133
2336742	Fludioxonil	95.3	80.7	P/P	58 - 127
2336742	Flumioxazin	174	155	P/P	33 - 300
2336742	Flutolanil	116	94.9	P/P	42 - 130
2336742	Fluxapyroxad	114	103	P/P	23 - 141
2336742	Fonofos	80.7	79.4	P/P	58 - 119
2336742	Hexazinone	110	97.0	P/P	68 - 172
2336742	Imazalil	72.4	66.4	P/P	48 - 283
2336742	Iprodione	118	102	P/P	38 - 140
2336742	Loratadine	96.6	91.9	P/P	50 - 150
2336742	Malathion	113	99.7	P/P	40 - 137
2336742	Metalaxyl	94.8	86.1	P/P	21 - 129
2336742	Metolachlor	102	91.0	P/P	55 - 122
2336742	Metribuzin	97.9	86.0	P/P	38 - 187
2336742	Mevinphos	86.3	73.7	P/P	54 - 134
2336742	Molinate	60.6	51.6	P/P	41 - 97.0
2336742	Myclobutanil	113	101	P/P	56 - 125
2336742	Naled	87.7	76.3	P/P	10 - 108
2336742	Napropamide	82.2	70.9	P/P	50 - 150
2336742	Norflurazon	93.6	83.7	P/P	32 - 122
2336742	Octinoxate	98.9	109	P/P	25 - 150
2336742	Oxadiazon	90.6	81.7	P/P	40 - 119
2336742	Oxybenzone	86.4	98.2	P/P	59 - 147
2336742	Oxyfluorfen	122	108	P/P	61 - 153
2336742	Parathion Ethyl	96.9	86.0	P/P	59 - 130
2336742	Parathion Methyl	117	101	P/P	65 - 155
2336742	PBDE-47	92.3	96.5	P/P	50 - 150
2336742	PBDE-99	91.9	97.5	P/P	50 - 150
2336742	Pendimethalin	106	96.2	P/P	49 - 138
2336742	Phenytoin	116	104	P/P	50 - 200
2336742	Phorate	69.7	62.0	P/P	54 - 161
2336742	Prodiamine	74.7	63.4	P/P	33 - 161
2336742	Prometon	90.0	82.3	P/P	48 - 140
2336742	Prometryn	96.2	81.5	P/P	55 - 134
2336742	Pronamide	123	116	P/P	66 - 137
2336742	Propanil	139	115	P/P	50 - 150
2336742	Propargite	93.4	71.7	P/P	50 - 200
2336742	Propiconazole	85.7	79.4	P/P	36 - 150
2336742	Pyraflufen Ethyl	106	87.0	P/P	50 - 150
2336742	Pyridaben	111	102	P/P	50 - 200
2336742	Pyriproxyfen	104	87.8	P/P	10 - 165
2336742	Simazine	104	88.7	P/P	57 - 145
2336742	Stirophos	78.1	62.4	P/P	50 - 150
2336742	Sulfentrazone	114	99.2	P/P	34 - 140
2336742	Tebuconazole	70.9	55.7	P/P	10 - 127
2336742	Terbufos	95.7	81.2	P/P	59 - 138
2336742	Terbuthylazine	97.4	83.3	P/P	68 - 119
2336742	Thiobencarb	114	97.3	P/P	50 - 150
2336742	Tri-o-cresyl Phosphate	89.1	96.9	P/P	50 - 150
2336742	Triadimefon	103	86.4	P/P	50 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P415602

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336740	Acesulfame K	78.8	79.6	P/P	40 - 150
2336740	AMPA	102	105	P/P	40 - 150
2336740	Endothall	63.7	62.7	P/P	40 - 150
2336740	Glufosinate	107	113	P/P	40 - 150
2336740	Glyphosate	83.2	90.5	P/P	40 - 150
2336740	Sucralose	101	101	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P415828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336740	2,4-D	50.1	66.5	P/P	40 - 150
2336740	2,4,5-T	39.2	39.5	F/F	40 - 150
2336740	Acetaminophen	92.2	98.3	P/P	30 - 150
2336740	Acetamiprid	69.3	82.3	P/P	40 - 150
2336740	Afidopyropen	50.1	63.1	P/P	30 - 150
2336740	Bentazon	47.7	47.0	P/P	30 - 150
2336740	Benzovindiflupyr	84.4	89.3	P/P	40 - 150
2336740	Carbamazepine	79.4	85.7	P/P	40 - 150
2336740	Clothianidin	96.5	111	P/P	40 - 150
2336740	Dinotefuran	120	133	P/P	40 - 150
2336740	Diuron	58.7	56.6	P/P	40 - 150
2336740	Fenuron	79.6	89.6	P/P	40 - 150
2336740	Fluridone	68.0	79.9	P/P	40 - 150
2336740	Hydrocodone	90.6	95.8	P/P	40 - 150
2336740	Ibuprofen	72.4	67.9	P/P	40 - 150
2336740	Imazapyr	73.0	79.6	P/P	40 - 150
2336740	Imidacloprid	121	127	P/P	40 - 150
2336740	Linuron	68.2	77.1	P/P	40 - 150
2336740	Mandestrobin	68.2	75.2	P/P	40 - 150
2336740	MCPP	63.8	69.1	P/P	40 - 150
2336740	Naproxen	51.3	60.8	P/P	40 - 150
2336740	Primidone	94.7	110	P/P	40 - 150
2336740	Pyraclostrobin	74.5	82.8	P/P	40 - 150
2336740	Silvex	49.3	47.4	P/P	40 - 150
2336740	Thiamethoxam	115	127	P/P	40 - 150
2336740	Tolfenpyrad	44.9	46.7	P/P	30 - 150
2336740	Triclopyr	48.1	50.0	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P415962

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336989	Fluoride	101	101	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P415963

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337006	Fluoride	102	102	P/P	94 - 104

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P415856

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336489	Organic Carbon	96.5	98.0	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P415684

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336579	Color (true)	1.17	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P415685

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336859	Color (true)	3.91	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415669

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336796	Turbidity	0.991	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336741	Calcium	1.12	Spike	P	0 - 20
2336741	Iron	0.142	Spike	P	0 - 20
2336741	Magnesium	0.222	Spike	P	0 - 20
2336741	Potassium	0.532	Spike	P	0 - 20
2336741	Sodium	0.934	Spike	P	0 - 20
2336741	Strontium	1.15	Spike	P	0 - 20
2336741	Tin	0.156	Spike	P	0 - 20
2336741	Titanium	0.303	Spike	P	0 - 20
2336741	Vanadium	0.750	Spike	P	0 - 20
2336741	Zinc	3.85	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336741	Aluminum	0.135	Spike	P	0 - 20
2336741	Antimony	0.300	Spike	P	0 - 20
2336741	Arsenic	0.813	Spike	P	0 - 20
2336741	Barium	0.509	Spike	P	0 - 20
2336741	Beryllium	0.334	Spike	P	0 - 20
2336741	Boron	0.151	Spike	P	0 - 20
2336741	Cadmium	2.55	Spike	P	0 - 20
2336741	Chromium	0.631	Spike	P	0 - 20
2336741	Cobalt	0.805	Spike	P	0 - 20
2336741	Copper	0.959	Spike	P	0 - 20
2336741	Lead	0.894	Spike	P	0 - 20
2336741	Manganese	1.18	Spike	P	0 - 20
2336741	Molybdenum	0.991	Spike	P	0 - 20
2336741	Nickel	0.125	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336741	Selenium	0.306	Spike	P	0 - 20
2336741	Silver	1.86	Spike	P	0 - 20
2336741	Thallium	1.56	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415944

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336699	Chloride	1.07	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415949

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336699	Sulfate	0.438	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415994

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336737	Ammonia-N	0.377	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415995

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336817	Ammonia-N	2.76	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415871

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336737	Kjeldahl Nitrogen	6.17	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415874

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336580	Kjeldahl Nitrogen	1.49	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416343

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416343

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336615	NO2NO3-N	0.518	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416344

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336799	NO2NO3-N	0.494	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336861	Total-P	0.651	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P415666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336800	O-Phosphate-P	0.195	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P415844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336742	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	5.33	Spike	P	0 - 30
2336742	Acetochlor	13.7	Spike	P	0 - 27
2336742	Alachlor	14.2	Spike	P	0 - 27
2336742	Ametryn	6.42	Spike	P	0 - 34
2336742	Atrazine	2.19	Spike	P	0 - 41
2336742	Atrazine Desethyl	10.8	Spike	P	0 - 38
2336742	Avobenzone	26.8	Spike	P	0 - 30
2336742	Azinphos Methyl	2.64	Spike	P	0 - 62
2336742	Azoxystrobin	8.64	Spike	P	0 - 32
2336742	Bromacil	10.7	Spike	P	0 - 30
2336742	Butylate	27.3	Spike	P	0 - 59
2336742	Caffeine	4.01	Spike	P	0 - 60
2336742	Carbophenothion	11.8	Spike	P	0 - 25
2336742	Carfentrazone Ethyl	19.9	Spike	P	0 - 26
2336742	Chlorfenapyr	20.8	Spike	P	0 - 30
2336742	Chlorpyrifos Ethyl	10.3	Spike	P	0 - 27
2336742	Chlorpyrifos Methyl	15.8	Spike	P	0 - 26
2336742	Coumaphos	14.3	Spike	P	0 - 30
2336742	Cyanazine	14.1	Spike	P	0 - 58
2336742	Cyprodinil	14.4	Spike	P	0 - 30
2336742	Demeton	11.6	Spike	P	0 - 25
2336742	Diazinon	16.7	Spike	P	0 - 29
2336742	Difenoconazole	9.89	Spike	P	0 - 25

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P415844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336742	Dimethenamid	14.8	Spike	P	0 - 30
2336742	Dimethomorph	7.68	Spike	P	0 - 30
2336742	Disulfoton	12.1	Spike	P	0 - 33
2336742	Dithiopyr	15.8	Spike	P	0 - 22
2336742	EPTC	32.9	Spike	P	0 - 38
2336742	Ethion	17.9	Spike	P	0 - 79
2336742	Ethoprop	16.7	Spike	P	0 - 23
2336742	Etridiazole	28.3	Spike	P	0 - 30
2336742	Fenamiphos	13.6	Spike	P	0 - 58
2336742	Fenbuconazole	16.5	Spike	P	0 - 37
2336742	Fipronil	16.8	Spike	P	0 - 33
2336742	Fipronil Desulfinyl	20.8	Spike	P	0 - 26
2336742	Fipronil Sulfide	15.0	Spike	P	0 - 37
2336742	Fipronil Sulfone	8.84	Spike	P	0 - 50
2336742	Fluazifop-P-butyl	9.34	Spike	P	0 - 24
2336742	Fludioxonil	16.6	Spike	P	0 - 26
2336742	Flumioxazin	11.2	Spike	P	0 - 37
2336742	Flutolanil	19.6	Spike	P	0 - 26
2336742	Fluxapyroxad	9.79	Spike	P	0 - 34
2336742	Fonofos	1.66	Spike	P	0 - 27
2336742	Hexazinone	12.8	Spike	P	0 - 36
2336742	Imazalil	8.74	Spike	P	0 - 65
2336742	Iprodione	14.5	Spike	P	0 - 33
2336742	Loratadine	5.01	Spike	P	0 - 30
2336742	Malathion	12.7	Spike	P	0 - 44
2336742	Metalaxyl	9.71	Spike	P	0 - 38
2336742	Metolachlor	8.54	Spike	P	0 - 36
2336742	Metribuzin	12.9	Spike	P	0 - 63
2336742	Mevinphos	15.7	Spike	P	0 - 26
2336742	Molinate	16.1	Spike	P	0 - 40
2336742	Myclobutanil	11.0	Spike	P	0 - 21
2336742	Naled	14.0	Spike	P	0 - 26
2336742	Napropamide	14.9	Spike	P	0 - 30
2336742	Norflurazon	11.2	Spike	P	0 - 24
2336742	Octinoxate	8.21	Spike	P	0 - 30
2336742	Oxadiazon	10.3	Spike	P	0 - 27
2336742	Oxybenzone	12.8	Spike	P	0 - 30
2336742	Oxyfluorfen	12.4	Spike	P	0 - 24
2336742	Parathion Ethyl	11.9	Spike	P	0 - 28
2336742	Parathion Methyl	14.8	Spike	P	0 - 27
2336742	PBDE-47	4.45	Spike	P	0 - 30
2336742	PBDE-99	5.96	Spike	P	0 - 30
2336742	Pendimethalin	9.58	Spike	P	0 - 31
2336742	Phenytoin	11.5	Spike	P	0 - 30
2336742	Phorate	11.7	Spike	P	0 - 27
2336742	Prodiamine	16.4	Spike	P	0 - 52
2336742	Prometon	8.90	Spike	P	0 - 31
2336742	Prometryn	16.6	Spike	P	0 - 28
2336742	Pronamide	6.14	Spike	P	0 - 26
2336742	Propanil	18.9	Spike	P	0 - 30
2336742	Propargite	26.2	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P415844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336742	Propiconazole	7.70	Spike	P	0 - 31
2336742	Pyraflufen Ethyl	19.7	Spike	P	0 - 30
2336742	Pyridaben	8.63	Spike	P	0 - 30
2336742	Pyriproxyfen	16.4	Spike	P	0 - 50
2336742	Simazine	15.8	Spike	P	0 - 29
2336742	Stirophos	22.3	Spike	P	0 - 30
2336742	Sulfentrazone	13.8	Spike	P	0 - 33
2336742	Tebuconazole	22.5	Spike	P	0 - 44
2336742	Terbufos	16.4	Spike	P	0 - 29
2336742	Terbuthylazine	15.6	Spike	P	0 - 27
2336742	Thiobencarb	15.6	Spike	P	0 - 30
2336742	Tri-o-cresyl Phosphate	8.30	Spike	P	0 - 30
2336742	Triadimefon	17.4	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P415602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336740	Acesulfame K	1.01	Spike	P	0 - 30
2336740	AMPA	3.23	Spike	P	0 - 30
2336740	Endothall	1.50	Spike	P	0 - 30
2336740	Glufosinate	5.87	Spike	P	0 - 30
2336740	Glyphosate	8.35	Spike	P	0 - 30
2336740	Sucralose	0.0700	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P415828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336740	2,4-D	24.9	Spike	P	0 - 30
2336740	2,4,5-T	0.782	Spike	P	0 - 30
2336740	Acetaminophen	6.40	Spike	P	0 - 30
2336740	Acetamiprid	17.2	Spike	P	0 - 30
2336740	Afidopyropen	23.0	Spike	P	0 - 30
2336740	Bentazon	1.60	Spike	P	0 - 30
2336740	Benzovindiflupyr	5.59	Spike	P	0 - 30
2336740	Carbamazepine	7.66	Spike	P	0 - 30
2336740	Clothianidin	13.6	Spike	P	0 - 30
2336740	Dinotefuran	10.5	Spike	P	0 - 30
2336740	Diuron	3.77	Spike	P	0 - 30
2336740	Fenuron	11.8	Spike	P	0 - 30
2336740	Fluridone	16.0	Spike	P	0 - 30
2336740	Hydrocodone	5.66	Spike	P	0 - 30
2336740	Ibuprofen	6.46	Spike	P	0 - 30
2336740	Imazapyr	8.65	Spike	P	0 - 30
2336740	Imidacloprid	4.87	Spike	P	0 - 30
2336740	Linuron	12.3	Spike	P	0 - 30
2336740	Mandestrobin	9.76	Spike	P	0 - 30
2336740	MCPP	7.99	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P415828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336740	Naproxen	16.9	Spike	P	0 - 30
2336740	Primidone	14.9	Spike	P	0 - 30
2336740	Pyraclostrobin	10.5	Spike	P	0 - 30
2336740	Silvex	3.94	Spike	P	0 - 30
2336740	Thiamethoxam	10.0	Spike	P	0 - 30
2336740	Tolfenpyrad	3.87	Spike	P	0 - 30
2336740	Triclopyr	3.81	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P415954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336989	Total Alkalinity	0.202	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011
Batch ID: P415958

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337006	Total Alkalinity	0.0833	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P416221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336797	TDS	1.86	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P415962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336989	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P415963

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337006	Fluoride	0.483	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P415856

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336489	Organic Carbon	1.08	Spike	P	0 - 20

Quality Assurance Report
Precision

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2336809
Field Sample ID: G4CE0152

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	32.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	83.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.2	P	30 - 160
EPA 8321B	Diuron-d6	54.0	P	30 - 160
EPA 8321B	Endothall-d6	67.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	48.2	P	30 - 160
EPA 8321B	Primidone-d5	93.8	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	30 - 160

Lab Sample ID: 2336810
Field Sample ID: G4CE0205

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	60.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	95.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	73.7	P	30 - 160
EPA 8321B	Diuron-d6	59.6	P	30 - 160
EPA 8321B	Endothall-d6	64.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	78.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	50.6	P	30 - 160
EPA 8321B	Primidone-d5	98.1	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2336811
Field Sample ID: FB_06222022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	57.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	91.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	90.2	P	30 - 160
EPA 8321B	Diuron-d6	66.5	P	30 - 160
EPA 8321B	Endothall-d6	70.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.5	P	30 - 160
EPA 8321B	Primidone-d5	98.7	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	30 - 160

Lab Sample ID: 2336827
Field Sample ID: G4CE0152

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	75.1	P	20 - 200
EPA 8270E	Simazine-d10	116	P	71 - 140
EPA 8270E	Terbufos-d10	77.3	P	62 - 131
EPA 8270E	Terphenyl-d14	100	P	52 - 141

Lab Sample ID: 2336828
Field Sample ID: G4CE0205

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	75.7	P	20 - 200

Quality Assurance Report
Surrogates

Lab Sample ID: 2336828
Field Sample ID: G4CE0205

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	126	P	71 - 140
EPA 8270E	Terbufos-d10	78.6	P	62 - 131
EPA 8270E	Terphenyl-d14	95.8	P	52 - 141

Lab Sample ID: 2336829
Field Sample ID: FB_06222022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	70.8	P	20 - 200
EPA 8270E	Simazine-d10	105	P	71 - 140
EPA 8270E	Terbufos-d10	68.5	P	62 - 131
EPA 8270E	Terphenyl-d14	113	P	52 - 141

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A112088
Included Lab Sample IDs: 2336811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.1	94.7	P/P	60 - 160
Endothall	65.8	65.2	P/P	60 - 160
Glufosinate	77.6	88.9	P/P	60 - 160
Glyphosate	87.0	84.2	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A113017
Included Lab Sample IDs: 2336800, 2336801, 2336804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	99.9	P/P	90 - 110
O-Phosphate-P	99.9	98.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A113019
Included Lab Sample IDs: 2336796, 2336797, 2336802

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

Reference Method: DEP SOP: NU-094-1
Run ID: A113022
Included Lab Sample IDs: 2336796, 2336797, 2336802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	85 - 115
Color (true)	99.7	101	P/P	85 - 115

Reference Method: EPA 8321B
Run ID: A113088
Included Lab Sample IDs: 2336809, 2336810, 2336811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	86.7	86.3	P/P	60 - 160
Sucralose	103	103	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A113094
Included Lab Sample IDs: 2336809, 2336810

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	108	104	P/P	60 - 160
Endothall	61.1	62.2	P/P	60 - 160
Glufosinate	91.5	91.3	P/P	60 - 160
Glyphosate	94.2	99.0	P/P	60 - 160

Reference Method: SM 5310 B-2011
Run ID: A113129
Included Lab Sample IDs: 2336798, 2336799, 2336803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

Quality Assurance Report
Calibration Verification

Reference Method: SM 5310 B-2011
Run ID: A113129
Included Lab Sample IDs: 2336798, 2336799, 2336803

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A113150
Included Lab Sample IDs: 2336824, 2336825, 2336826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	95.0	97.7	P/P	90 - 110
Aluminum	95.1	95.0	P/P	90 - 110
Antimony	98.8	98.8	P/P	90 - 110
Antimony	98.8	98.9	P/P	90 - 110
Arsenic	97.8	98.2	P/P	90 - 110
Arsenic	98.2	98.5	P/P	90 - 110
Barium	96.6	98.3	P/P	90 - 110
Barium	98.3	97.2	P/P	90 - 110
Beryllium	98.0	97.8	P/P	90 - 110
Beryllium	98.0	98.0	P/P	90 - 110
Boron	93.3	94.9	P/P	90 - 110
Boron	94.9	97.9	P/P	90 - 110
Cadmium	97.0	98.3	P/P	90 - 110
Cadmium	98.3	98.1	P/P	90 - 110
Chromium	95.5	98.1	P/P	90 - 110
Chromium	98.1	97.0	P/P	90 - 110
Cobalt	96.8	98.0	P/P	90 - 110
Cobalt	98.0	98.2	P/P	90 - 110
Copper	95.2	96.5	P/P	90 - 110
Copper	96.5	96.4	P/P	90 - 110
Lead	92.3	92.5	P/P	90 - 110
Lead	92.5	91.9	P/P	90 - 110
Manganese	96.4	99.5	P/P	90 - 110
Manganese	99.5	98.9	P/P	90 - 110
Molybdenum	98.5	96.8	P/P	90 - 110
Molybdenum	98.5	98.5	P/P	90 - 110
Nickel	96.6	97.8	P/P	90 - 110
Nickel	97.8	97.2	P/P	90 - 110
Selenium	95.3	98.3	P/P	90 - 110
Selenium	98.3	97.2	P/P	90 - 110
Silver	97.2	96.8	P/P	90 - 110
Silver	98.5	97.2	P/P	90 - 110
Thallium	94.1	94.6	P/P	90 - 110
Thallium	94.6	94.3	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A113155
Included Lab Sample IDs: 2336809, 2336810, 2336811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.3	109	P/P	50 - 150
2,4,5-T	111	111	P/P	50 - 150
Acetaminophen	106	107	P/P	60 - 160
Acetamiprid	104	98.6	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A113155
Included Lab Sample IDs: 2336809, 2336810, 2336811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	107	120	P/P	50 - 150
Bentazon	90.6	118	P/P	50 - 160
Benzovindiflupyr	103	111	P/P	50 - 150
Carbamazepine	104	112	P/P	60 - 150
Clothianidin	99.1	101	P/P	60 - 150
Dinotefuran	103	106	P/P	50 - 150
Diuron	89.8	82.5	P/P	60 - 160
Fenuron	99.9	97.2	P/P	60 - 150
Fluridone	114	109	P/P	60 - 160
Hydrocodone	98.7	100	P/P	60 - 150
Ibuprofen	82.3	90.8	P/P	50 - 160
Imazapyr	84.6	84.3	P/P	50 - 150
Imidacloprid	104	97.0	P/P	60 - 150
Linuron	89.1	100	P/P	60 - 150
Mandestrobin	102	106	P/P	50 - 150
MCPP	100	107	P/P	50 - 150
Naproxen	70.1	107	P/P	50 - 160
Primidone	91.4	101	P/P	60 - 150
Pyraclostrobin	104	106	P/P	60 - 150
Silvex	95.0	96.6	P/P	50 - 150
Thiamethoxam	94.3	101	P/P	50 - 150
Tolfenpyrad	101	101	P/P	60 - 150
Triclopyr	107	97.5	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A113156
Included Lab Sample IDs: 2336796, 2336797, 2336802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.2	101	P/P	90 - 110
Sulfate	99.3	101	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A113157
Included Lab Sample IDs: 2336796, 2336797, 2336802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A113157
Included Lab Sample IDs: 2336796, 2336797, 2336802

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A113171
Included Lab Sample IDs: 2336798, 2336799, 2336803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A113171
Included Lab Sample IDs: 2336798, 2336799, 2336803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.4	97.5	P/P	90 - 110
Ammonia-N	97.5	96.8	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A113174
Included Lab Sample IDs: 2336824, 2336825, 2336826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	97.6	98.6	P/P	90 - 110
Calcium	99.6	97.6	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Iron	102	101	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Potassium	102	101	P/P	90 - 110
Potassium	103	102	P/P	90 - 110
Sodium	101	101	P/P	90 - 110
Sodium	101	101	P/P	90 - 110
Strontium	100	102	P/P	90 - 110
Strontium	99.9	100	P/P	90 - 110
Tin	97.8	99.3	P/P	90 - 110
Tin	99.3	97.8	P/P	90 - 110
Titanium	97.5	100	P/P	90 - 110
Titanium	98.5	97.5	P/P	90 - 110
Vanadium	97.7	98.9	P/P	90 - 110
Vanadium	98.8	97.7	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A113217
Included Lab Sample IDs: 2336824, 2336825, 2336826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Zinc	99.6	98.7	P/P	90 - 110
Zinc	99.7	99.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A113221
Included Lab Sample IDs: 2336798

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	96.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A113232
Included Lab Sample IDs: 2336799, 2336803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.5	102	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A113235
Included Lab Sample IDs: 2336798, 2336799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	98.9	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A113248
Included Lab Sample IDs: 2336827, 2336828, 2336829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	96.3		P	80 - 120
Atrazine	95.9		P	80 - 120
Atrazine Desethyl	90.9		P	80 - 120
Azinphos Methyl	109		P	80 - 120
Azoxystrobin	97.9		P	80 - 120
Bromacil	96.5		P	80 - 120
Butylate	93.7		P	80 - 120
Caffeine	95.5		P	80 - 120
Carbophenothion	99.8		P	80 - 120
Carfentrazone Ethyl	96.3		P	80 - 120
Chlorfenapyr	94.2		P	80 - 120
Chlorpyrifos Ethyl	87.7		P	80 - 120
Chlorpyrifos Methyl	84.0		P	80 - 120
Coumaphos	84.7		P	80 - 120
Cyanazine	89.4		P	80 - 120
Cyprodinil	94.4		P	80 - 120
Demeton	91.7		P	80 - 120
Diazinon	94.3		P	80 - 120
Difenoconazole	91.1		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	93.9		P	80 - 120
Disulfoton	96.3		P	80 - 120
Dithiopyr	89.8		P	80 - 120
EPTC	96.7		P	80 - 120
Ethion	92.0		P	80 - 120
Ethoprop	98.9		P	80 - 120
Etridiazole	97.7		P	80 - 120
Fenamiphos	94.1		P	80 - 120
Fenbuconazole	96.8		P	80 - 120
Fipronil	96.3		P	80 - 120
Fipronil Desulfinyl	95.9		P	80 - 120
Fipronil Sulfide	80.7		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fluazifop-P-butyl	94.8		P	80 - 120
Fludioxonil	87.1		P	80 - 120
Flumioxazin	90.3		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	102		P	80 - 120
Fonofos	83.5		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	96.3		P	80 - 120
Iprodione	98.6		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A113248
Included Lab Sample IDs: 2336827, 2336828, 2336829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Loratadine	104		P	80 - 120
Malathion	94.6		P	80 - 120
Metalaxyl	94.7		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	96.3		P	80 - 120
Molinate	95.5		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	96.0		P	80 - 120
Napropamide	87.6		P	80 - 120
Norflurazon	94.0		P	80 - 120
Oxadiazon	98.9		P	80 - 120
Oxyfluorfen	87.9		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	96.9		P	80 - 120
Pendimethalin	96.5		P	80 - 120
Phenytoin	94.3		P	80 - 120
Phorate	92.8		P	80 - 120
Prodiamine	99.6		P	80 - 120
Prometon	98.6		P	80 - 120
Prometryn	98.6		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	109		P	80 - 120
Propargite	107		P	80 - 120
Propiconazole	93.4		P	80 - 120
Pyraflufen Ethyl	107		P	80 - 120
Pyridaben	91.2		P	80 - 120
Pyriproxyfen	107		P	80 - 120
Simazine	89.9		P	80 - 120
Stirophos	84.8		P	80 - 120
Sulfentrazone	99.1		P	80 - 120
Tebuconazole	90.7		P	80 - 120
Terbufos	87.3		P	80 - 120
Terbuthylazine	93.0		P	80 - 120
Thiobencarb	110		P	80 - 120
Triadimefon	100		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A113279
Included Lab Sample IDs: 2336803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	97.8	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A113331
Included Lab Sample IDs: 2336827, 2336828, 2336829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.2		P	80 - 120
Avobenzone	97.7		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A113331
Included Lab Sample IDs: 2336827, 2336828, 2336829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Octinoxate	94.7		P	80 - 120
Oxybenzone	96.6		P	80 - 120
PBDE-47	94.6		P	80 - 120
PBDE-99	101		P	80 - 120
Tri-o-cresyl Phosphate	92.3		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A113374
Included Lab Sample IDs: 2336798, 2336799, 2336803

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

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision		
						LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	99.2					1.17	
	Color (true)	101					3.91	
EPA 180.1 Rev. 2.0	Turbidity	97.2					0.991	
EPA 200.7 Rev. 4.4	Calcium	104	103	102	98.6			1.12
	Iron	102	104	104	106			0.142
	Magnesium	104	105	104	103			0.222
	Potassium	110	113	112	105			0.532
	Sodium	102	103	102	101			0.934
	Strontium	102	102	103	104			1.15
	Tin	106	104	104	103			0.156
	Titanium	103	103	103	102			0.303
	Vanadium	94.3	94.6	93.9	95.2			0.750
	Zinc	103	103	99.4	101			3.85
EPA 200.8 Rev. 5.4	Aluminum	97.7	100	96.3	96.2			0.135
	Antimony	101	101	98.4	98.7			0.300
	Arsenic	98.7	98.9	94.4	95.2			0.813
	Barium	103	102	100	100			0.509
	Beryllium	97.4	100	96.0	95.7			0.334
	Boron	98.3	104	100	101			0.151
	Cadmium	101	99.3	95.7	98.2			2.55
	Chromium	97.2	98.7	95.2	94.6			0.631
	Cobalt	100	99.4	96.2	97.0			0.805
	Copper	97.0	96.5	96.6	97.5			0.959
	Lead	94.7	96.3	93.0	93.8			0.894
	Manganese	101	99.4	95.8	97.2			1.18
	Molybdenum	100	99.8	96.8	97.8			0.991
	Nickel	98.8	97.1	94.1	94.0			0.125
	Selenium	94.4	98.1	92.8	93.1			0.306
	Silver	99.1	96.0	94.6	96.3			1.86
	Thallium	98.2	101	96.8	98.3			1.56
EPA 300.0 Rev. 2.1	Chloride	101	99.7	97.9			1.07	
	Sulfate	100	100	97.8			0.438	
EPA 350.1 Rev. 2.0	Ammonia-N	100	106	106				0.377
	Ammonia-N	101	101	104				2.76
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	108	98.9				6.17
	Kjeldahl Nitrogen	99.5	98.0	99.8				1.49
EPA 353.2 Rev. 2.0	NO2NO3-N	100	104	103				0.518
	NO2NO3-N	102	101	102				0.494
EPA 365.1 Rev. 2.0	Total-P	101	104	105				0.651
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.2	95.8	96.0				0.195
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	74.4	109	115				5.33
	Acetochlor	105	99.8	87.0				13.7
	Alachlor	106	97.4	84.4				14.2
	Ametryn	93.7	107	101				6.42
	Atrazine	107						2.19
	Atrazine Desethyl	79.8	85.5	76.8				10.8
	Avobenzone	89.9	119	156				26.8
	Azinphos Methyl	150	153	149				2.64
	Azoxystrobin	134	112	103				8.64
	Bromacil	75.9	97.9	87.9				10.7
	Butylate	73.6	45.8	34.8				27.3
	Caffeine	59.3	85.4	88.9				4.01

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Carbophenothion	101	110	98.2			11.8
	Carfentrazone Ethyl	103	115	94.4			19.9
	Chlorfenapyr	57.2	90.9	73.8			20.8
	Chlorpyrifos Ethyl	69.1	86.3	77.9			10.3
	Chlorpyrifos Methyl	76.4	84.0	71.7			15.8
	Coumaphos	65.6	112	96.6			14.3
	Cyanazine	110	103	89.2			14.1
	Cyprodinil	83.2	98.5	85.3			14.4
	Demeton	82.4	73.2	65.2			11.6
	Diazinon	112	101	85.7			16.7
	Difenoconazole	72.9	143	129			9.89
	Dimethenamid	86.7	85.0	72.5			14.8
	Dimethomorph	192	95.9	88.8			7.68
	Disulfoton	86.4	84.1	74.5			12.1
	Dithiopyr	99.5	97.7	83.4			15.8
	EPTC	68.0	39.2	28.1			32.9
	Ethion	69.6	81.8	68.4			17.9
	Ethoprop	96.3	97.4	82.4			16.7
	Etridiazole	86.1	51.3	38.5			28.3
	Fenamiphos	61.0	98.0	85.5			13.6
	Fenbuconazole	88.6	111	94.1			16.5
	Fipronil	101	115	97.6			16.8
	Fipronil Desulfinyl	106	120	97.5			20.8
	Fipronil Sulfide	76.4	95.8	82.4			15.0
	Fipronil Sulfone	99.0	105	96.3			8.84
	Fluazifop-P-butyl	99.7	122	111			9.34
	Fludioxonil	74.1	95.3	80.7			16.6
	Flumioxazin	110	174	155			11.2
	Flutolanil	84.7	116	94.9			19.6
	Fluxapyroxad	48.4	114	103			9.79
	Fonofos	70.2	80.7	79.4			1.66
	Hexazinone	90.6	110	97.0			12.8
	Imazalil	65.4	72.4	66.4			8.74
	Iprodione	92.6	118	102			14.5
	Loratadine	204	96.6	91.9			5.01
	Malathion	83.6	113	99.7			12.7
	Metalaxyl	90.4	94.8	86.1			9.71
	Metolachlor	79.3	102	91.0			8.54
	Metribuzin	111	97.9	86.0			12.9
	Mevinphos	91.2	86.3	73.7			15.7
	Molinate	82.5	60.6	51.6			16.1
	Myclobutanil	105	113	101			11.0
	Naled	85.4	87.7	76.3			14.0
	Napropamide	49.4	82.2	70.9			14.9
	Norflurazon	87.2	93.6	83.7			11.2
	Octinoxate	82.8	98.9	109			8.21
	Oxadiazon	67.3	90.6	81.7			10.3
	Oxybenzone	73.8	86.4	98.2			12.8
	Oxyfluorfen	75.4	122	108			12.4
	Parathion Ethyl	90.6	96.9	86.0			11.9
	Parathion Methyl	126	117	101			14.8
	PBDE-47	65.5	92.3	96.5			4.45
	PBDE-99	59.8	91.9	97.5			5.96
	Pendimethalin	114	106	96.2			9.58

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Phenytoin	34.7	116	104			11.5
	Phorate	74.5	69.7	62.0			11.7
	Prodiamine	101	74.7	63.4			16.4
	Prometon	79.9	90.0	82.3			8.90
	Prometryn	81.3	96.2	81.5			16.6
	Pronamide	110	123	116			6.14
	Propanil	103	139	115			18.9
	Propargite	161	93.4	71.7			26.2
	Propiconazole	79.4	85.7	79.4			7.70
	Pyraflufen Ethyl	91.4	106	87.0			19.7
	Pyridaben	75.0	111	102			8.63
	Pyriproxyfen	49.6	104	87.8			16.4
	Simazine	101	104	88.7			15.8
	Stirophos	87.1	78.1	62.4			22.3
	Sulfentrazone	103	114	99.2			13.8
	Tebuconazole	16.8	70.9	55.7			22.5
	Terbufos	94.8	95.7	81.2			16.4
	Terbuthylazine	93.4	97.4	83.3			15.6
	Thiobencarb	107	114	97.3			15.6
	Tri-o-cresyl Phosphate	79.6	89.1	96.9			8.30
	Triadimefon	83.2	103	86.4			17.4
EPA 8321B	2,4-D	52.9	50.1	66.5			24.9
	2,4,5-T	44.6	39.2	39.5			0.782
	Acesulfame K	82.0	78.8	79.6			1.01
	Acetaminophen	83.1	92.2	98.3			6.40
	Acetamiprid	78.4	69.3	82.3			17.2
	Afidopyropen	45.0	50.1	63.1			23.0
	AMPA	110	102	105			3.23
	Bentazon	70.8	47.7	47.0			1.60
	Benzovindiflupyr	87.2	84.4	89.3			5.59
	Carbamazepine	83.5	79.4	85.7			7.66
	Clothianidin	89.4	96.5	111			13.6
	Dinotefuran	90.8	120	133			10.5
	Diuron	66.8	58.7	56.6			3.77
	Endothall	64.1	63.7	62.7			1.50
	Fenuron	90.2	79.6	89.6			11.8
	Fluridone	80.6	68.0	79.9			16.0
	Glufosinate	104	107	113			5.87
	Glyphosate	97.3	83.2	90.5			8.35
	Hydrocodone	81.9	90.6	95.8			5.66
	Ibuprofen	60.5	72.4	67.9			6.46
	Imazapyr	88.0	73.0	79.6			8.65
	Imidacloprid	87.9	121	127			4.87
	Linuron	66.8	68.2	77.1			12.3
	Mandestrobin	72.4	68.2	75.2			9.76
	MCPP	69.4	63.8	69.1			7.99
	Naproxen	42.9	51.3	60.8			16.9
	Primidone	92.2	94.7	110			14.9
	Pyraclostrobin	72.5	74.5	82.8			10.5
	Silvex	42.7	49.3	47.4			3.94
	Sucralose	103	101	101			0.0700
	Thiamethoxam	83.8	115	127			10.0
	Tolfenpyrad	43.0	44.9	46.7			3.87
	Triclopyr	51.2	48.1	50.0			3.81

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 2320 B-2011	Total Alkalinity	101				0.202	
	Total Alkalinity	101				0.0833	
SM 2540 C-2011	TDS					1.86	
SM 4500-F- C-2011	Fluoride	99.8	101	101			0.0
	Fluoride	99.3	102	102			0.483
SM 5310 B-2011	Organic Carbon	96.6	96.5	98.0			1.08

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2336796, 2336797, 2336802
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2336796, 2336797, 2336802
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2336824, 2336825, 2336826
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2336824, 2336825, 2336826
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2336796, 2336797, 2336802
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2336796, 2336797, 2336802
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2336798, 2336799, 2336803
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2336798, 2336799, 2336803
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2336798, 2336799, 2336803
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2336798, 2336799, 2336803
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2336800, 2336801, 2336804
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2336827, 2336828, 2336829
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2336827, 2336828, 2336829
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2336809, 2336810, 2336811
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2336796, 2336797, 2336802
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2336824, 2336825, 2336826
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2336796, 2336797, 2336802
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2336796, 2336797, 2336802
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2336796, 2336797, 2336802
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2336798, 2336799, 2336803

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	06/23/2022			06/23/2022 16:07	Anna M. Plaviak	2336796
	06/23/2022			06/23/2022 16:08	Anna M. Plaviak	2336797
	06/23/2022			06/23/2022 16:11	Anna M. Plaviak	2336802
EPA 180.1 Rev. 2.0	06/23/2022			06/23/2022 14:17	Khloe J Berg	2336796
	06/23/2022			06/23/2022 14:23	Khloe J Berg	2336797
	06/23/2022			06/23/2022 14:24	Khloe J Berg	2336802
EPA 200.7 Rev. 4.4	06/23/2022	06/24/2022 09:52	Mackenzie Hunt	06/29/2022 22:42	McKinley C Carter	2336826
	06/23/2022	06/24/2022 09:52	Mackenzie Hunt	06/30/2022 01:04	McKinley C Carter	2336824
	06/23/2022	06/24/2022 09:52	Mackenzie Hunt	06/30/2022 01:11	McKinley C Carter	2336825
	06/23/2022	06/24/2022 09:52	Mackenzie Hunt	06/30/2022 14:34	McKinley C Carter	2336826
	06/23/2022	06/24/2022 09:52	Mackenzie Hunt	06/30/2022 16:15	McKinley C Carter	2336824
	06/23/2022	06/24/2022 09:52	Mackenzie Hunt	06/30/2022 16:19	McKinley C Carter	2336825
EPA 200.8 Rev. 5.4	06/23/2022	06/24/2022 09:52	Mackenzie Hunt	06/28/2022 14:42	Emily M Philpot	2336826
	06/23/2022	06/24/2022 09:52	Mackenzie Hunt	06/28/2022 16:49	Emily M Philpot	2336824
	06/23/2022	06/24/2022 09:52	Mackenzie Hunt	06/28/2022 16:58	Emily M Philpot	2336825
EPA 300.0 Rev. 2.1	06/23/2022			06/29/2022 02:28	Anna M. Plaviak	2336796
	06/23/2022			06/29/2022 02:40	Anna M. Plaviak	2336797
	06/23/2022			06/29/2022 02:51	Anna M. Plaviak	2336802
EPA 350.1 Rev. 2.0	06/23/2022			06/29/2022 16:39	Judith K. Clark	2336798
	06/23/2022			06/29/2022 16:41	Judith K. Clark	2336799
	06/23/2022			06/29/2022 17:07	Judith K. Clark	2336803
EPA 351.2 Rev. 2.0	06/23/2022	06/29/2022 14:44	Samantha L Bates	07/01/2022 11:07	Alexandra J Mattheus	2336799
	06/23/2022	06/29/2022 14:44	Samantha L Bates	07/01/2022 11:09	Alexandra J Mattheus	2336803
	06/23/2022	06/29/2022 14:45	Samantha L Bates	06/30/2022 15:02	Alexandra J Mattheus	2336798
EPA 353.2 Rev. 2.0	06/23/2022			07/08/2022 09:57	Judith K. Clark	2336798
	06/23/2022			07/08/2022 10:04	Judith K. Clark	2336799
	06/23/2022			07/08/2022 10:10	Judith K. Clark	2336803
EPA 365.1 Rev. 2.0	06/23/2022	06/30/2022 14:54	Adam P Silver	07/01/2022 12:56	James L Waggerby	2336798
	06/23/2022	06/30/2022 14:54	Adam P Silver	07/01/2022 12:57	James L Waggerby	2336799
	06/23/2022	06/30/2022 14:54	Adam P Silver	07/05/2022 13:31	Simonne.V. Calhoun	2336803
EPA 365.1 Rev. 2.0 dissolved	06/23/2022			06/23/2022 15:37	Nathaniel J Jones	2336800
	06/23/2022			06/23/2022 15:40	Nathaniel J Jones	2336804
	06/23/2022			06/23/2022 15:49	Nathaniel J Jones	2336801
EPA 8270E	06/23/2022	06/27/2022 08:00	Rasheda Ghaffari	07/02/2022 21:30	Michael Poppell	2336827
	06/23/2022	06/27/2022 08:00	Rasheda Ghaffari	07/02/2022 21:56	Michael Poppell	2336828
	06/23/2022	06/27/2022 08:00	Rasheda Ghaffari	07/02/2022 22:23	Michael Poppell	2336829
	06/23/2022	06/27/2022 08:00	Rasheda Ghaffari	07/05/2022 14:49	Lipi Saha	2336827
	06/23/2022	06/27/2022 08:00	Rasheda Ghaffari	07/05/2022 15:08	Lipi Saha	2336828
	06/23/2022	06/27/2022 08:00	Rasheda Ghaffari	07/05/2022 15:28	Lipi Saha	2336829
EPA 8321B	06/23/2022	06/24/2022 12:00	Umesh Chiluwal	06/25/2022 01:07	Umesh Chiluwal	2336809

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	06/23/2022	06/24/2022 12:00	Umesh Chiluwal	06/25/2022 01:20	Umesh Chiluwal	2336810
	06/23/2022	06/24/2022 12:00	Umesh Chiluwal	06/25/2022 08:49	Umesh Chiluwal	2336809
	06/23/2022	06/24/2022 12:00	Umesh Chiluwal	06/25/2022 09:04	Umesh Chiluwal	2336810
	06/23/2022	06/24/2022 12:00	Umesh Chiluwal	06/25/2022 09:19	Umesh Chiluwal	2336811
	06/23/2022	06/24/2022 12:00	Umesh Chiluwal	06/27/2022 14:26	Umesh Chiluwal	2336811
	06/23/2022	06/28/2022 09:30	June Rhew	06/29/2022 13:23	Juyoung Kim	2336809
	06/23/2022	06/28/2022 09:30	June Rhew	06/29/2022 13:44	Juyoung Kim	2336810
	06/23/2022	06/28/2022 09:30	June Rhew	06/29/2022 14:04	Juyoung Kim	2336811
	06/23/2022	06/28/2022 09:30	June Rhew	06/29/2022 15:28	Juyoung Kim	2336810
SM 2320 B-2011	06/23/2022			06/28/2022 23:23	Dale L. Simmons	2336796
	06/23/2022			06/28/2022 23:37	Dale L. Simmons	2336797
	06/23/2022			06/29/2022 01:05	Dale L. Simmons	2336802
SM 2340 B-2011	06/23/2022			06/29/2022 22:42	McKinley C Carter	2336826
	06/23/2022			06/30/2022 01:04	McKinley C Carter	2336824
	06/23/2022			06/30/2022 01:11	McKinley C Carter	2336825
SM 2540 C-2011	06/23/2022			06/28/2022 16:31	Yijie Li	2336796, 2336797, 2336802
SM 2540 D-2011	06/23/2022			06/28/2022 16:31	Yijie Li	2336796, 2336797, 2336802
SM 4500-F- C-2011	06/23/2022			06/28/2022 23:23	Dale L. Simmons	2336796
	06/23/2022			06/28/2022 23:37	Dale L. Simmons	2336797
	06/23/2022			06/29/2022 01:05	Dale L. Simmons	2336802
SM 5310 B-2011	06/23/2022			06/27/2022 19:39	Khloe J Berg	2336798
	06/23/2022			06/27/2022 19:52	Khloe J Berg	2336799
	06/23/2022			06/27/2022 20:07	Khloe J Berg	2336803