

Chemical Analysis Report

CEN-DIST-2023-06-16-01

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

Event Description: **Lake Gleason and Macy EL VEE EYES**
Request ID: **RQ-2023-06-05-29**
Customer: **CEN-DIST**
Project ID: **SMP**

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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 12-JUL-2023 14:36



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 GLEASON AT CENTER

Collection Date/Time: 06/15/2023 11:26

Field ID: G2CE0114

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2418168	DEP SOP: NU-094-1	Color (true)	32		PCU	P431420	
	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P431425	
	EPA 300.0 Rev. 2.1	Chloride	22	A	mg Cl/L	P431684	
		Sulfate	4.0	A	mg SO4/L	P431687	
	SM 2320 B-2011	Total Alkalinity	46		mg CaCO3/L	P431769	
	SM 2540 C-2015	TDS	112	A	mg/L	P431841	
	SM 2540 D-2015	TSS	3	IA	mg/L	P431775	
	SM 4500-F- C-2011	Fluoride	0.085	I	mg F/L	P431772	
2418169	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P431663	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.65		mg N/L	P431649	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P431811	
	EPA 365.1 Rev. 2.0	Total-P	0.022		mg P/L	P431731	
	SM 5310 B-2011	Organic Carbon	9.7		mg C/L	P431610	
2418170	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P431424	
2418172	EPA 8321B	2,4-D	0.094		ug/L	P431434	
		Acesulfame K	0.10	U	ug/L	P431373	
		2,4,5-T	0.0040	U	ug/L	P431434	
		AMPA	0.10	U	ug/L	P431373	
		Acetaminophen	0.0080	U	ug/L	P431434	
		Acetamiprid	0.0020	U	ug/L	P431434	
		Endothall	0.25	U	ug/L	P431373	
		Glufosinate	0.10	U	ug/L	P431373	
		Glyphosate	0.10	U	ug/L	P431373	
		Afidopyropen	0.0020	U	ug/L	P431434	
		Bentazon	0.0096		ug/L	P431434	
		Sucralose	1.4		ug/L	P431373	
		Benzovindiflupyr	0.0020	U	ug/L	P431434	
		Carbamazepine	0.0013	I	ug/L	P431434	
		Clothianidin	0.0020	U	ug/L	P431434	
		Dinotefuran	0.0020	U	ug/L	P431434	
		Diuron	0.0020	U	ug/L	P431434	RPD
		Fenuron	0.032	U	ug/L	P431434	
		Fluridone	0.010		ug/L	P431434	
		Imazapyr	0.0040	U	ug/L	P431434	
		Hydrocodone	0.0020	U	ug/L	P431434	
		Ibuprofen	0.087	I	ug/L	P431434	
		Imidacloprid	0.0020	U	ug/L	P431434	
		Linuron	0.0040	U	ug/L	P431434	
		Mandestrobin	0.0020	U	ug/L	P431434	
		MCPP	0.0020	U	ug/L	P431434	
		Naproxen	0.0080	U	ug/L	P431434	
		Primidone	0.0040	U	ug/L	P431434	
		Pyraclostrobin	0.0020	U	ug/L	P431434	

Field ID: G2CE0114

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2418172	EPA 8321B	Silvex	0.0040	U	ug/L	P431434	
		Thiamethoxam	0.0020	U	ug/L	P431434	
		Tolfenpyrad	0.0020	U	ug/L	P431434	
		Triclopyr	0.0040	U	ug/L	P431434	
2418182	EPA 200.7 Rev. 4.4	Calcium	20.0		mg/L	P431456	
		Iron	48	I	ug/L	P431456	
		Magnesium	1.75		mg/L	P431456	
		Potassium	1.5		mg/L	P431456	
		Sodium	12.7		mg/L	P431456	
		Strontium	79.7		ug/L	P431456	
		Tin	3.3	I	ug/L	P431456	
		Titanium	0.75	U	ug/L	P431456	
		Vanadium	2.0	U	ug/L	P431456	
		Zinc	5.0	U	ug/L	P431456	
	EPA 200.8 Rev. 5.4	Aluminum	16	I	ug/L	P431456	
		Antimony	0.11	I	ug/L	P431456	
		Arsenic	1.94		ug/L	P431456	
		Barium	12.9		ug/L	P431456	
		Beryllium	0.010	U	ug/L	P431456	
		Boron	36.5		ug/L	P431456	
		Cadmium	0.020	U	ug/L	P431456	
		Chromium	0.40	U	ug/L	P431456	
		Cobalt	0.020	U	ug/L	P431456	
		Copper	0.40	U	ug/L	P431456	
		Lead	0.26	I	ug/L	P431456	
		Manganese	10.8		ug/L	P431456	
		Molybdenum	0.15	U	ug/L	P431456	
		Nickel	0.50	U	ug/L	P431456	
		Selenium	0.20	U	ug/L	P431456	
		Silver	0.010	U	ug/L	P431456	
		Thallium	0.10	U	ug/L	P431456	
		Hardness	57.3		mg/L	P431456	
2418188	SM 2340 B-2011	Oxybenzone**	10	U	ng/L	P431467	
	EPA 8270E	Acetochlor	0.20	U	ng/L	P431467	
		Octinoxate**	20	U	ng/L	P431467	
		Alachlor	0.41	U	ng/L	P431467	
		Avobenzone**	100	U	ng/L	P431467	
		Ametryn	1.1	U	ng/L	P431467	
		Atrazine	13		ng/L	P431467	
		PBDE-47**	4.1	U	ng/L	P431467	
		Atrazine Desethyl	3.8	I	ng/L	P431467	
		PBDE-99**	5.1	U	ng/L	P431467	
		Azinphos Methyl	3.1	U	ng/L	P431467	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P431467	
		Azoxystrobin	0.41	U	ng/L	P431467	

Field ID: G2CE0114

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2418188	EPA 8270E	Bromacil	0.61	U	ng/L	P431467	
		2-Ethylhexyl	12	U	ng/L	P431467	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.20	U	ng/L	P431467	
		Dechlorane Plus**	31	U	ng/L	P431467	
		Caffeine**	350		ng/L	P431467	
		Dechlorane 602**	5.1	U	ng/L	P431467	
		Carbophenothion	0.51	U	ng/L	P431467	
		Dechlorane 603**	4.1	U	ng/L	P431467	MS
		Carfentrazone Ethyl	0.15	U	ng/L	P431467	
		Hexabromobenzene**	6.1	U	ng/L	P431467	
		Chlorfenapyr	0.31	U	ng/L	P431467	
		PBB-153**	8.2	U	ng/L	P431467	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P431467	
		Pentabromotoluene**	3.1	U	ng/L	P431467	
		Chlorpyrifos Methyl	0.10	U	ng/L	P431467	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P431467	
		Coumaphos	1.1	U	ng/L	P431467	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	50		ng/L	P431467	
		Cyanazine	5.1	U	ng/L	P431467	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	7.3	I	ng/L	P431467	
		Cyprodinil	0.20	U	ng/L	P431467	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P431467	
		Demeton	3.6	U	ng/L	P431467	
		Diazinon	0.13	U	ng/L	P431467	
		Difenoconazole	0.61	U	ng/L	P431467	
		Dimethenamid	0.10	U	ng/L	P431467	
		Dimethomorph	0.31	U	ng/L	P431467	
		Disulfoton	0.61	U	ng/L	P431467	
		Dithiopyr	1.0	U	ng/L	P431467	
		EPTC	0.51	U	ng/L	P431467	
		Ethion	0.31	U	ng/L	P431467	
		Ethoprop	0.13	U	ng/L	P431467	
		Etridiazole	0.10	U	ng/L	P431467	
		Fenamiphos	0.46	U	ng/L	P431467	
		Fenbuconazole	0.51	U	ng/L	P431467	
		Fipronil	0.20	U	ng/L	P431467	
		Fipronil Desulfinyl**	0.89		ng/L	P431467	
		Fipronil Sulfide	0.21	I	ng/L	P431467	
		Fipronil Sulfone	0.69		ng/L	P431467	
		Fluazifop-P-butyl	0.10	U	ng/L	P431467	
		Fludioxonil	0.10	U	ng/L	P431467	
		Flumioxazin	3.1	U	ng/L	P431467	
		Flutolanil	0.10	U	ng/L	P431467	
		Fluxapyroxad	0.26	U	ng/L	P431467	

Field ID: G2CE0114

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2418188	EPA 8270E	Fonofos	0.15	U	ng/L	P431467	CCV, MS, RPD
		Hexazinone	0.51	U	ng/L	P431467	
		Imazalil	0.66	U	ng/L	P431467	
		Iprodione	0.51	UJ	ng/L	P431467	
		Loratadine**	0.31	U	ng/L	P431467	
		Malathion	0.36	U	ng/L	P431467	
		Metalaxyl	0.51	U	ng/L	P431467	
		Metolachlor	0.77	U	ng/L	P431467	
		Metribuzin	0.41	U	ng/L	P431467	
		Mevinphos	1.0	U	ng/L	P431467	MS
		Molinate	0.26	U	ng/L	P431467	
		Myclobutanil	0.36	U	ng/L	P431467	
		Naled	2.6	U	ng/L	P431467	
		Napropamide	0.72	U	ng/L	P431467	
		Norflurazon	1.0	U	ng/L	P431467	
		Oxadiazon	0.54	I	ng/L	P431467	
		Oxyfluorfen	0.20	U	ng/L	P431467	
		Parathion Ethyl	0.15	U	ng/L	P431467	
		Parathion Methyl	0.20	U	ng/L	P431467	
		Pendimethalin	0.77	U	ng/L	P431467	
		Phenytol**	5.4	U	ng/L	P431467	
		Phorate	0.26	U	ng/L	P431467	
		Prodiamine	0.20	U	ng/L	P431467	
		Prometon	3.1	U	ng/L	P431467	
		Prometryn	0.36	U	ng/L	P431467	
		Pronamide	0.10	U	ng/L	P431467	
		Propanil	0.10	U	ng/L	P431467	
		Propargite	0.82	U	ng/L	P431467	
		Propiconazole	0.61	U	ng/L	P431467	
		Pyraflufen Ethyl	0.31	U	ng/L	P431467	
		Pyridaben	1.4	U	ng/L	P431467	
		Pyriproxyfen	0.26	U	ng/L	P431467	
		Simazine	1.3		ng/L	P431467	
		Stirophos	0.41	U	ng/L	P431467	
		Sulfentrazone	1.4	U	ng/L	P431467	
		Tebuconazole	3.4	I	ng/L	P431467	
		Terbufos	0.20	U	ng/L	P431467	
		Terbuthylazine	0.20	U	ng/L	P431467	
		Thiobencarb	0.51	U	ng/L	P431467	
		Triadimefon	0.15	U	ng/L	P431467	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P431420

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431425

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431456

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: P431456

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431684

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431687

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431663

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431649

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431811

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431731

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431424

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

Reference Method: EPA 8270E
Batch ID: P431467

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	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431467

Component	Result	Code	Units
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	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	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431467

Component	Result	Code	Units
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P431467

Component	Result	Code	Units
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	6.4	I	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431467

Component	Result	Code	Units
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8321B

Batch ID: P431373

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: P431434

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
Afidopyopen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P431434

Component	Result	Code	Units
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	0.0020	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: P431769

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

Reference Method: SM 2540 C-2015

Batch ID: P431841

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P431775

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P431772

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P431610

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: P431420

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431425

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431456

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	105		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	101		P	85 - 115
Sodium	104		P	85 - 115
Strontium	101		P	85 - 115
Tin	100		P	85 - 115
Titanium	99.7		P	85 - 115
Vanadium	100		P	85 - 115
Zinc	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431456

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.2		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	98.6		P	85 - 115
Barium	100		P	85 - 115
Beryllium	93.2		P	85 - 115
Boron	102		P	85 - 115
Cadmium	97.3		P	85 - 115
Chromium	94.9		P	85 - 115
Cobalt	101		P	85 - 115
Copper	97.1		P	85 - 115
Lead	103		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	96.9		P	85 - 115
Nickel	96.9		P	85 - 115
Selenium	98.3		P	85 - 115
Silver	105		P	85 - 115
Thallium	98.7		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431684

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431687

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431663

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431649

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431811

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431731

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431424

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

Reference Method: EPA 8270E
Batch ID: P431467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107		P	42 - 162
Acetochlor	80.6		P	69 - 123
Alachlor	88.2		P	65 - 118
Ametryn	107		P	58 - 141
Atrazine	96.1		P	73 - 118
Atrazine Desethyl	88.1		P	32 - 125
Avobenzone	121		P	40 - 203
Azinphos Methyl	107		P	36 - 197
Azoxystrobin	103		P	58 - 226
Bromacil	104		P	48 - 120
Butylate	55.5		P	27 - 85.0
Caffeine	100		P	40 - 137
Carbophenothion	102		P	54 - 132
Carfentrazone Ethyl	115		P	60 - 142
Chlorfenapyr	88.4		P	53 - 117
Chlorpyrifos Ethyl	96.4		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P431467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	94.6		P	66 - 119
Coumaphos	71.4		P	11 - 234
Cyanazine	193		P	61 - 248
Cyprodinil	107		P	50 - 147
Dechlorane 602	98.0		P	50 - 150
Dechlorane 603	134		P	50 - 150
Dechlorane Plus	99.8		P	47 - 182
Demeton	88.1		P	30 - 138
Diazinon	110		P	67 - 126
Difenoconazole	129		P	38 - 205
Dimethenamid	91.5		P	57 - 111
Dimethomorph	191		P	16 - 212
Disulfoton	101		P	46 - 126
Dithiopyr	103		P	62 - 115
EPTC	51.5		P	28 - 80.0
Ethion	83.4		P	24 - 122
Ethoprop	95.6		P	62 - 113
Etridiazole	70.0		P	28 - 92.0
Fenamiphos	92.8		P	57 - 128
Fenbuconazole	70.7		P	52 - 155
Fipronil	106		P	63 - 130
Fipronil Desulfinyl	100		P	61 - 130
Fipronil Sulfide	93.5		P	56 - 117
Fipronil Sulfone	83.8		P	52 - 118
Fluazifop-P-butyl	96.3		P	61 - 128
Fludioxonil	89.7		P	59 - 129
Flumioxazin	114		P	30 - 250
Flutolanil	93.6		P	53 - 127
Fluxapyroxad	103		P	42 - 132
Fonofos	93.8		P	61 - 110
Hexabromobenzene	133		P	50 - 150
Hexazinone	98.8		P	46 - 139
Imazalil	101		P	40 - 139
Iprodione	118		P	40 - 146
Loratadine	181		P	10 - 224
Malathion	101		P	61 - 135
Metaxyl	97.4		P	58 - 121
Metolachlor	101		P	64 - 118
Metribuzin	95.8		P	45 - 245
Mevinphos	97.1		P	49 - 118
Molinate	57.3		P	42 - 92.0
Myclobutanil	98.0		P	55 - 127
Naled	48.5		P	10 - 114
Napropamide	85.0		P	39 - 121
Norflurazon	62.3		P	55 - 129
Octinoxate	123		P	26 - 166
Oxadiazon	94.6		P	54 - 115
Oxybenzone	128		P	49 - 135
Oxyfluorfen	112		P	64 - 139
Parathion Ethyl	103		P	70 - 111
Parathion Methyl	104		P	76 - 136
PBB-153	130		P	50 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P431467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	112		P	41 - 148
PBDE-99	96.6		P	38 - 147
Pendimethalin	112		P	52 - 118
Pentabromotoluene	123		P	50 - 150
Phenytoin	22.8		P	10 - 162
Phorate	87.6		P	40 - 122
Prodiamine	48.2		P	26 - 141
Prometon	98.7		P	54 - 122
Prometryn	118		P	61 - 128
Pronamide	114		P	72 - 121
Propanil	119		P	45 - 144
Propargite	65.7		P	10 - 199
Propiconazole	89.1		P	56 - 127
Pyraflufen Ethyl	97.7		P	56 - 140
Pyridaben	125		P	26 - 211
Pyriproxyfen	85.5		P	33 - 194
Simazine	91.1		P	67 - 121
Stirophos	69.2		P	20 - 142
Sulfentrazone	77.2		P	21 - 144
Tebuconazole	70.0		P	10 - 122
Terbufos	109		P	60 - 129
Terbutylazine	86.5		P	69 - 113
Tetradecachloro-m-terphenyl	141		P	70 - 200
Thiobencarb	93.6		P	51 - 120
Tri-o-cresyl Phosphate	123		P	49 - 150
Triadimefon	96.6		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	121		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	117		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P431373

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	150		P	40 - 150
AMPA	97.2		P	40 - 150
Endothall	110		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	110		P	40 - 150
Sucralose	111		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P431434

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	108		P	40 - 150
2,4,5-T	106		P	40 - 150
Acetaminophen	61.5		P	30 - 150
Acetamiprid	92.1		P	40 - 150
Afidopyropen	87.5		P	30 - 150
Bentazon	115		P	30 - 150
Benzovindiflupyr	76.0		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P431434

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	86.3		P	40 - 150
Clothianidin	91.1		P	40 - 150
Dinotefuran	95.6		P	40 - 150
Diuron	89.6		P	40 - 150
Fenuron	87.0		P	40 - 150
Fluridone	87.8		P	40 - 150
Hydrocodone	95.6		P	40 - 150
Ibuprofen	92.1		P	40 - 150
Imazapyr	92.4		P	40 - 150
Imidacloprid	90.5		P	40 - 150
Linuron	86.0		P	40 - 150
Mandestrobin	96.3		P	40 - 150
MCPPP	106		P	40 - 150
Naproxen	76.8		P	40 - 150
Primidone	85.8		P	40 - 150
Pyraclostrobin	93.9		P	40 - 150
Silvex	105		P	40 - 150
Thiamethoxam	87.3		P	40 - 150
Tolfenpyrad	66.8		P	30 - 150
Triclopyr	107		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P431769

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.3		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P431841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	93.7		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P431775

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.8		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P431772

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P431610

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P431456

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417249	Calcium	105	103	P/P	80 - 120
2417249	Iron	106	102	P/P	80 - 120
2417249	Magnesium	105	101	P/P	80 - 120
2417249	Potassium	106	103	P/P	80 - 120
2417249	Sodium	105	102	P/P	80 - 120
2417249	Strontium	101	98.8	P/P	80 - 120
2417249	Tin	98.5	98.1	P/P	80 - 120
2417249	Titanium	101	97.6	P/P	80 - 120
2417249	Vanadium	101	98.2	P/P	80 - 120
2417249	Zinc	99.9	98.0	P/P	80 - 120
2417943	Calcium	99.1		P	80 - 120
2417943	Iron	102		P	80 - 120
2417943	Magnesium	102		P	80 - 120
2417943	Potassium	100		P	80 - 120
2417943	Sodium	100		P	80 - 120
2417943	Strontium	99.4		P	80 - 120
2417943	Tin	98.2		P	80 - 120
2417943	Titanium	98.3		P	80 - 120
2417943	Vanadium	99.9		P	80 - 120
2417943	Zinc	99.8		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P431456

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417249	Aluminum	97.5	98.6	P/P	80 - 120
2417249	Antimony	99.1	100	P/P	80 - 120
2417249	Arsenic	96.6	97.3	P/P	80 - 120
2417249	Barium	99.2	100	P/P	80 - 120
2417249	Beryllium	91.8	95.1	P/P	80 - 120
2417249	Boron	102	102	P/P	80 - 120
2417249	Cadmium	96.4	95.7	P/P	80 - 120
2417249	Chromium	95.6	96.8	P/P	80 - 120
2417249	Cobalt	100	101	P/P	80 - 120
2417249	Copper	98.1	98.0	P/P	80 - 120
2417249	Lead	102	102	P/P	80 - 120
2417249	Manganese	99.5	102	P/P	80 - 120
2417249	Molybdenum	94.7	96.2	P/P	80 - 120
2417249	Nickel	96.9	96.9	P/P	80 - 120
2417249	Selenium	96.2	97.5	P/P	80 - 120
2417249	Silver	104	104	P/P	80 - 120
2417249	Thallium	102	103	P/P	80 - 120
2417943	Aluminum	99.4		P	80 - 120
2417943	Antimony	101		P	80 - 120
2417943	Arsenic	97.9		P	80 - 120
2417943	Barium	98.2		P	80 - 120
2417943	Beryllium	95.3		P	80 - 120
2417943	Boron	102		P	80 - 120
2417943	Cadmium	96.8		P	80 - 120
2417943	Chromium	97.9		P	80 - 120
2417943	Cobalt	101		P	80 - 120
2417943	Copper	97.7		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431456

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417943	Lead	99.6		P	80 - 120
2417943	Manganese	101		P	80 - 120
2417943	Molybdenum	97.4		P	80 - 120
2417943	Nickel	98.0		P	80 - 120
2417943	Selenium	97.8		P	80 - 120
2417943	Silver	105		P	80 - 120
2417943	Thallium	99.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431684

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418168	Chloride	103		P	90 - 110
2418343	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418168	Sulfate	101		P	90 - 110
2418343	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431663

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418206	Ammonia-N	92.2	94.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418205	Kjeldahl Nitrogen	97.0	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431811

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418169	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431731

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417107	Total-P	100	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431424

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418053	O-Phosphate-P	99.2	99.2	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P431467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417501	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	130	113	P/P	26 - 165
2417501	Acetochlor	70.3	103	P/P	67 - 124
2417501	Alachlor	80.8	78.5	P/P	60 - 120
2417501	Ametryn	150	143	P/P	54 - 216
2417501	Atrazine Desethyl	115	111	P/P	15 - 122
2417501	Avobenzone	132	121	P/P	37 - 178
2417501	Azinphos Methyl	153	122	P/P	40 - 292
2417501	Azoxystrobin	132	126	P/P	35 - 220
2417501	Bromacil	108	114	P/P	45 - 127
2417501	Butylate	58.2	55.0	P/P	20 - 83.0
2417501	Caffeine	108	107	P/P	10 - 194
2417501	Carbophenothion	125	106	P/P	57 - 127
2417501	Carfentrazone Ethyl	138	126	P/P	51 - 141
2417501	Chlorfenapyr	99.6	93.5	P/P	46 - 111
2417501	Chlorpyrifos Ethyl	93.8	101	P/P	52 - 120
2417501	Chlorpyrifos Methyl	87.8	90.0	P/P	63 - 119
2417501	Coumaphos	179	145	P/P	10 - 228
2417501	Cyanazine	213	180	P/P	59 - 241
2417501	Cyprodinil	103	78.3	P/P	47 - 146
2417501	Dechlorane 602	121	113	P/P	50 - 150
2417501	Dechlorane 603	160	156	F/F	50 - 150
2417501	Dechlorane Plus	97.6	98.0	P/P	50 - 150
2417501	Demeton	98.1	93.3	P/P	40 - 136
2417501	Diazinon	110	114	P/P	69 - 132
2417501	Difenoconazole	229	200	P/P	57 - 258
2417501	Dimethenamid	89.4	96.3	P/P	54 - 110
2417501	Dimethomorph	165	184	P/P	28 - 210
2417501	Disulfoton	111	107	P/P	43 - 133
2417501	Dithiopyr	111	110	P/P	39 - 116
2417501	EPTC	49.4	44.8	P/P	20 - 78.0
2417501	Ethion	93.8	81.4	P/P	17 - 119
2417501	Ethoprop	101	100	P/P	66 - 120
2417501	Etridiazole	83.4	66.1	P/P	28 - 96.0
2417501	Fenamiphos	82.4	91.8	P/P	41 - 126
2417501	Fenbuconazole	108	95.7	P/P	42 - 169
2417501	Fipronil	118	106	P/P	61 - 132
2417501	Fipronil Desulfinyl	111	99.5	P/P	56 - 132
2417501	Fipronil Sulfide	94.9	95.4	P/P	48 - 119
2417501	Fipronil Sulfone	95.7	101	P/P	42 - 131
2417501	Fluazifop-P-butyl	80.5	94.7	P/P	53 - 131
2417501	Fludioxonil	91.7	105	P/P	56 - 127
2417501	Flumioxazin	214	194	P/P	19 - 300
2417501	Flutolanil	96.1	99.9	P/P	41 - 127
2417501	Fluxapyroxad	123	112	P/P	42 - 172
2417501	Fonofos	90.1	87.3	P/P	59 - 113
2417501	Hexabromobenzene	145	139	P/P	50 - 150
2417501	Hexazinone	108	109	P/P	66 - 122
2417501	Imazalil	107	94.7	P/P	21 - 283
2417501	Iprodione	94.9	190	P/F	43 - 150
2417501	Loratadine	137	154	P/P	23 - 201
2417501	Malathion	115	105	P/P	58 - 136
2417501	Metalaxyl	111	89.2	P/P	55 - 120

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P431467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417501	Metolachlor	80.0	98.7	P/P	57 - 121
2417501	Metribuzin	104	105	P/P	58 - 294
2417501	Mevinphos	143	110	F/P	50 - 126
2417501	Molinate	54.2	60.1	P/P	42 - 93.0
2417501	Myclobutanil	118	102	P/P	55 - 125
2417501	Naled	44.9	46.4	P/P	18 - 200
2417501	Napropamide	78.1	103	P/P	39 - 110
2417501	Norflurazon	120	104	P/P	48 - 128
2417501	Octinoxate	128	126	P/P	21 - 159
2417501	Oxadiazon	106	95.2	P/P	43 - 112
2417501	Oxybenzone	141	136	P/P	41 - 142
2417501	Oxyfluorfen	118	121	P/P	64 - 153
2417501	Parathion Ethyl	106	96.7	P/P	69 - 114
2417501	Parathion Methyl	96.6	82.6	P/P	79 - 139
2417501	PBB-153	149	144	P/P	50 - 150
2417501	PBDE-47	121	118	P/P	27 - 144
2417501	PBDE-99	117	109	P/P	18 - 150
2417501	Pendimethalin	123	105	P/P	50 - 139
2417501	Pentabromotoluene	132	123	P/P	50 - 150
2417501	Phenytoin	41.7	36.9	P/P	10 - 146
2417501	Phorate	127	112	P/P	54 - 161
2417501	Prodiamine	55.7	53.0	P/P	30 - 161
2417501	Prometon	102	99.2	P/P	45 - 134
2417501	Prometryn	111	116	P/P	45 - 137
2417501	Pronamide	131	117	P/P	65 - 133
2417501	Propanil	138	122	P/P	49 - 142
2417501	Propargite	92.3	80.8	P/P	10 - 203
2417501	Propiconazole	124	105	P/P	38 - 146
2417501	Pyraflufen Ethyl	126	111	P/P	34 - 153
2417501	Pyridaben	171	137	P/P	12 - 192
2417501	Pyriproxyfen	134	108	P/P	33 - 180
2417501	Simazine	96.2	95.6	P/P	51 - 157
2417501	Stiropfos	53.1	83.0	P/P	10 - 128
2417501	Sulfentrazone	119	87.3	P/P	53 - 186
2417501	Tebuconazole	98.0	91.2	P/P	10 - 133
2417501	Terbufos	121	116	P/P	65 - 139
2417501	Terbuthylazine	90.5	91.7	P/P	66 - 117
2417501	Tetradecachloro-m-terphenyl	126	135	P/P	70 - 200
2417501	Thiobencarb	97.1	91.4	P/P	51 - 119
2417501	Tri-o-cresyl Phosphate	129	129	P/P	31 - 144
2417501	Triadimefon	114	90.4	P/P	48 - 119
2417501	Tris(1-chloro-2-propyl) phosphate (TCPP)	108	104	P/P	50 - 150
2417501	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	120	121	P/P	50 - 150
2417501	Tris(2-chloroethyl) phosphate (TCEP)	120	121	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P431373

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418115	Acesulfame K	107	108	P/P	40 - 150
2418115	AMPA	40.8	42.0	P/P	40 - 150
2418115	Endothall	145	144	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P431373

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418115	Glufosinate	70.0	76.9	P/P	40 - 150
2418115	Glyphosate	78.6	83.2	P/P	40 - 150
2418115	Sucralose	94.2	104	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431434

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417875	2,4-D	113	87.7	P/P	40 - 150
2417875	2,4,5-T	113	89.8	P/P	40 - 150
2417875	Acetaminophen	69.2	61.5	P/P	30 - 150
2417875	Acetamiprid	77.4	68.6	P/P	40 - 150
2417875	Afidopyropen	76.6	74.4	P/P	30 - 150
2417875	Bentazon	69.8	53.6	P/P	30 - 150
2417875	Benzovindiflupyr	85.6	85.4	P/P	40 - 150
2417875	Carbamazepine	69.9	58.0	P/P	40 - 150
2417875	Clothianidin	102	82.0	P/P	40 - 150
2417875	Dinotefuran	81.0	69.2	P/P	40 - 150
2417875	Diuron	43.3	79.4	P/P	40 - 150
2417875	Fenuron	65.0	59.7	P/P	40 - 150
2417875	Fluridone	77.4	74.6	P/P	40 - 150
2417875	Hydrocodone	71.1	66.2	P/P	40 - 150
2417875	Ibuprofen	83.9	70.1	P/P	40 - 150
2417875	Imazapyr	90.4	79.7	P/P	40 - 150
2417875	Imidacloprid	125	109	P/P	40 - 150
2417875	Linuron	72.4	67.4	P/P	40 - 150
2417875	Mandestrobin	90.9	86.8	P/P	40 - 150
2417875	MCCP	124	109	P/P	40 - 150
2417875	Naproxen	66.7	59.8	P/P	40 - 150
2417875	Primidone	81.1	66.9	P/P	40 - 150
2417875	Pyraclostrobin	83.4	77.3	P/P	40 - 150
2417875	Silvex	93.1	79.3	P/P	40 - 150
2417875	Thiamethoxam	88.2	95.1	P/P	40 - 150
2417875	Tolfenpyrad	58.9	48.4	P/P	30 - 150
2417875	Triclopyr	108	93.2	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P431772

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418203	Fluoride	103	104	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P431610

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2418093	Organic Carbon	93.6	95.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P431420

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418090	Color (true)	0.739	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431425

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417909	Turbidity	2.75	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431456

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417249	Calcium	1.83	Spike	P	0 - 20
2417249	Iron	3.82	Spike	P	0 - 20
2417249	Magnesium	3.48	Spike	P	0 - 20
2417249	Potassium	2.40	Spike	P	0 - 20
2417249	Sodium	2.14	Spike	P	0 - 20
2417249	Strontium	2.13	Spike	P	0 - 20
2417249	Tin	0.385	Spike	P	0 - 20
2417249	Titanium	3.04	Spike	P	0 - 20
2417249	Vanadium	2.69	Spike	P	0 - 20
2417249	Zinc	1.94	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431456

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417249	Aluminum	0.939	Spike	P	0 - 20
2417249	Antimony	1.38	Spike	P	0 - 20
2417249	Arsenic	0.751	Spike	P	0 - 20
2417249	Barium	0.976	Spike	P	0 - 20
2417249	Beryllium	3.37	Spike	P	0 - 20
2417249	Boron	0.487	Spike	P	0 - 20
2417249	Cadmium	0.764	Spike	P	0 - 20
2417249	Chromium	1.27	Spike	P	0 - 20
2417249	Cobalt	0.449	Spike	P	0 - 20
2417249	Copper	0.132	Spike	P	0 - 20
2417249	Lead	0.350	Spike	P	0 - 20
2417249	Manganese	2.36	Spike	P	0 - 20
2417249	Molybdenum	1.52	Spike	P	0 - 20
2417249	Nickel	0.0722	Spike	P	0 - 20
2417249	Selenium	1.33	Spike	P	0 - 20
2417249	Silver	0.139	Spike	P	0 - 20
2417249	Thallium	1.08	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431684

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418168	Chloride	1.35	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418168	Sulfate	1.30	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431663

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418206	Ammonia-N	2.50	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418205	Kjeldahl Nitrogen	4.11	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431811

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418169	NO2NO3-N	0.482	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431731

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417107	Total-P	0.290	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431424

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418053	O-Phosphate-P	0.0	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P431467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417501	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	13.8	Spike	P	0 - 37
2417501	Acetochlor	19.0	Spike	P	0 - 28

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P431467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417501	Alachlor	2.84	Spike	P	0 - 30
2417501	Ametryn	4.65	Spike	P	0 - 32
2417501	Atrazine	10.6	Spike	P	0 - 41
2417501	Atrazine Desethyl	2.28	Spike	P	0 - 36
2417501	Avobenzone	8.68	Spike	P	0 - 36
2417501	Azinphos Methyl	22.5	Spike	P	0 - 75
2417501	Azoxystrobin	4.97	Spike	P	0 - 39
2417501	Bromacil	5.35	Spike	P	0 - 33
2417501	Butylate	5.78	Spike	P	0 - 44
2417501	Caffeine	0.565	Spike	P	0 - 74
2417501	Carbophenothion	16.3	Spike	P	0 - 25
2417501	Carfentrazone Ethyl	9.06	Spike	P	0 - 27
2417501	Chlorfenapyr	6.32	Spike	P	0 - 24
2417501	Chlorpyrifos Ethyl	7.31	Spike	P	0 - 26
2417501	Chlorpyrifos Methyl	2.55	Spike	P	0 - 26
2417501	Coumaphos	21.0	Spike	P	0 - 28
2417501	Cyanazine	16.8	Spike	P	0 - 48
2417501	Cyprodinil	26.9	Spike	P	0 - 29
2417501	Dechlorane 602	6.80	Spike	P	0 - 30
2417501	Dechlorane 603	2.43	Spike	P	0 - 30
2417501	Dechlorane Plus	0.446	Spike	P	0 - 30
2417501	Demeton	5.03	Spike	P	0 - 33
2417501	Diazinon	3.94	Spike	P	0 - 29
2417501	Difenoconazole	13.9	Spike	P	0 - 34
2417501	Dimethenamid	7.49	Spike	P	0 - 39
2417501	Dimethomorph	10.4	Spike	P	0 - 51
2417501	Disulfoton	4.41	Spike	P	0 - 30
2417501	Dithiopyr	1.73	Spike	P	0 - 26
2417501	EPTC	9.68	Spike	P	0 - 43
2417501	Ethion	14.1	Spike	P	0 - 79
2417501	Ethoprop	0.229	Spike	P	0 - 29
2417501	Etridiazole	23.1	Spike	P	0 - 33
2417501	Fenamiphos	10.8	Spike	P	0 - 40
2417501	Fenbuconazole	11.7	Spike	P	0 - 74
2417501	Fipronil	10.6	Spike	P	0 - 29
2417501	Fipronil Desulfinyl	10.7	Spike	P	0 - 32
2417501	Fipronil Sulfide	0.573	Spike	P	0 - 30
2417501	Fipronil Sulfone	5.81	Spike	P	0 - 33
2417501	Fluazifop-P-butyl	16.3	Spike	P	0 - 38
2417501	Fludioxonil	13.5	Spike	P	0 - 29
2417501	Flumioxazin	9.81	Spike	P	0 - 51
2417501	Flutolanil	3.88	Spike	P	0 - 25
2417501	Fluxapyroxad	8.32	Spike	P	0 - 45
2417501	Fonofos	3.09	Spike	P	0 - 27
2417501	Hexabromobenzene	4.15	Spike	P	0 - 30
2417501	Hexazinone	1.22	Spike	P	0 - 30
2417501	Imazalil	12.1	Spike	P	0 - 100
2417501	Iprodione	66.9	Spike	F	0 - 33
2417501	Loratadine	11.1	Spike	P	0 - 56
2417501	Malathion	8.67	Spike	P	0 - 37
2417501	Metalaxyl	21.5	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P431467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417501	Metolachlor	8.37	Spike	P	0 - 29
2417501	Metribuzin	0.823	Spike	P	0 - 45
2417501	Mevinphos	26.5	Spike	P	0 - 29
2417501	Molinate	10.3	Spike	P	0 - 33
2417501	Myclobutanil	14.5	Spike	P	0 - 26
2417501	Naled	3.26	Spike	P	0 - 37
2417501	Napropamide	27.1	Spike	P	0 - 44
2417501	Norflurazon	14.2	Spike	P	0 - 30
2417501	Octinoxate	1.36	Spike	P	0 - 45
2417501	Oxadiazon	10.7	Spike	P	0 - 28
2417501	Oxybenzone	3.25	Spike	P	0 - 46
2417501	Oxyfluorfen	2.79	Spike	P	0 - 28
2417501	Parathion Ethyl	9.05	Spike	P	0 - 31
2417501	Parathion Methyl	15.6	Spike	P	0 - 29
2417501	PBB-153	3.48	Spike	P	0 - 30
2417501	PBDE-47	2.65	Spike	P	0 - 36
2417501	PBDE-99	6.90	Spike	P	0 - 40
2417501	Pendimethalin	16.2	Spike	P	0 - 33
2417501	Pentabromotoluene	7.27	Spike	P	0 - 30
2417501	Phenytoin	12.1	Spike	P	0 - 100
2417501	Phorate	12.7	Spike	P	0 - 36
2417501	Prodiamine	4.96	Spike	P	0 - 71
2417501	Prometon	2.66	Spike	P	0 - 36
2417501	Prometryn	4.96	Spike	P	0 - 28
2417501	Pronamide	11.8	Spike	P	0 - 24
2417501	Propanil	12.4	Spike	P	0 - 28
2417501	Propargite	13.3	Spike	P	0 - 43
2417501	Propiconazole	17.2	Spike	P	0 - 33
2417501	Pyraflufen Ethyl	12.9	Spike	P	0 - 29
2417501	Pyridaben	21.8	Spike	P	0 - 30
2417501	Pyriproxyfen	20.8	Spike	P	0 - 79
2417501	Simazine	0.694	Spike	P	0 - 29
2417501	Stirophos	44.0	Spike	P	0 - 61
2417501	Sulfentrazone	30.4	Spike	P	0 - 33
2417501	Tebuconazole	7.20	Spike	P	0 - 69
2417501	Terbufos	3.50	Spike	P	0 - 29
2417501	Terbuthylazine	1.32	Spike	P	0 - 32
2417501	Tetradecachloro-m-terphenyl	6.71	Spike	P	0 - 30
2417501	Thiobencarb	5.54	Spike	P	0 - 26
2417501	Tri-o-cresyl Phosphate	0.0811	Spike	P	0 - 33
2417501	Triadimefon	23.2	Spike	P	0 - 28
2417501	Tris(1-chloro-2-propyl) phosphate (TCPP)	4.34	Spike	P	0 - 30
2417501	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	1.26	Spike	P	0 - 30
2417501	Tris(2-chloroethyl) phosphate (TCEP)	0.582	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P431373

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418115	Acesulfame K	0.496	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P431373

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418115	AMPA	2.45	Spike	P	0 - 30
2418115	Endothall	0.0485	Spike	P	0 - 30
2418115	Glufosinate	9.45	Spike	P	0 - 30
2418115	Glyphosate	4.64	Spike	P	0 - 30
2418115	Sucralose	9.99	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P431434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417875	2,4-D	15.0	Spike	P	0 - 30
2417875	2,4,5-T	22.7	Spike	P	0 - 30
2417875	Acetaminophen	11.8	Spike	P	0 - 30
2417875	Acetamiprid	12.0	Spike	P	0 - 30
2417875	Afidopyropen	2.81	Spike	P	0 - 30
2417875	Bentazon	16.6	Spike	P	0 - 30
2417875	Benzovindiflupyr	0.292	Spike	P	0 - 30
2417875	Carbamazepine	18.6	Spike	P	0 - 30
2417875	Clothianidin	21.8	Spike	P	0 - 30
2417875	Dinotefuran	14.0	Spike	P	0 - 30
2417875	Diuron	52.2	Spike	F	0 - 30
2417875	Fenuron	8.42	Spike	P	0 - 30
2417875	Fluridone	3.68	Spike	P	0 - 30
2417875	Hydrocodone	7.16	Spike	P	0 - 30
2417875	Ibuprofen	18.0	Spike	P	0 - 30
2417875	Imazapyr	10.3	Spike	P	0 - 30
2417875	Imidacloprid	13.4	Spike	P	0 - 30
2417875	Linuron	7.17	Spike	P	0 - 30
2417875	Mandestrobin	4.59	Spike	P	0 - 30
2417875	MCPP	13.5	Spike	P	0 - 30
2417875	Naproxen	10.9	Spike	P	0 - 30
2417875	Primidone	19.2	Spike	P	0 - 30
2417875	Pyraclostrobin	7.49	Spike	P	0 - 30
2417875	Silvex	16.0	Spike	P	0 - 30
2417875	Thiamethoxam	7.60	Spike	P	0 - 30
2417875	Tolfenpyrad	19.5	Spike	P	0 - 30
2417875	Triclopyr	14.6	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P431769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418203	Total Alkalinity	0.181	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P431841

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

Reference Method: SM 2540 C-2015
Batch ID: P431841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418168	TDS	8.07	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P431772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418203	Fluoride	0.470	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P431610

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2418093	Organic Carbon	1.34	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2418172
Field Sample ID: G2CE0114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	60.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	56.0	P	30 - 160
EPA 8321B	Diuron-d6	55.9	P	30 - 160
EPA 8321B	Endothall-d6	125	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	94.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	89.7	P	30 - 160
EPA 8321B	Primidone-d5	75.4	P	30 - 160
EPA 8321B	Sucralose-d6	107	P	30 - 160

Lab Sample ID: 2418188
Field Sample ID: G2CE0114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	78.8	P	20 - 200
EPA 8270E	Simazine-d10	80.2	P	62 - 142
EPA 8270E	Terbufos-d10	88.0	P	58 - 132
EPA 8270E	Terphenyl-d14	88.2	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: 119977

Included Lab Sample IDs: 2418169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.8	96.5	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A119861

Included Lab Sample IDs: 2418168

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.5	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A119862

Included Lab Sample IDs: 2418170

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	98.7	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A119864

Included Lab Sample IDs: 2418168

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	102	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A119868

Included Lab Sample IDs: 2418172

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	147	149	P/P	60 - 160
Sucralose	87.7	105	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A119875

Included Lab Sample IDs: 2418172

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	102	108	P/P	60 - 160
Endothall	103	101	P/P	60 - 160
Glufosinate	98.4	96.7	P/P	60 - 160
Glyphosate	114	98.4	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A119900

Included Lab Sample IDs: 2418172

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	101	104	P/P	50 - 150
2,4,5-T	89.1	102	P/P	50 - 150
Acetaminophen	76.5	67.3	P/P	60 - 160
Acetamiprid	109	106	P/P	50 - 150
Afidopyropen	101	82.8	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A119900
Included Lab Sample IDs: 2418172

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	149	138	P/P	50 - 160
Benzovindiflupyr	97.9	106	P/P	50 - 150
Carbamazepine	112	106	P/P	60 - 150
Clothianidin	94.6	118	P/P	60 - 150
Dinotefuran	100	104	P/P	50 - 150
Diuron	110	130	P/P	60 - 160
Fenuron	110	97.6	P/P	60 - 150
Fluridone	117	103	P/P	60 - 160
Hydrocodone	116	113	P/P	60 - 150
Ibuprofen	118	104	P/P	50 - 160
Imazapyr	102	105	P/P	50 - 150
Imidacloprid	92.4	88.4	P/P	60 - 150
Linuron	96.4	92.7	P/P	60 - 150
Mandestrobin	115	114	P/P	50 - 150
MCPP	102	102	P/P	50 - 150
Naproxen	86.8	90.8	P/P	50 - 160
Primidone	101	97.5	P/P	60 - 150
Pyraclostrobin	101	99.7	P/P	60 - 150
Silvex	104	127	P/P	50 - 150
Thiamethoxam	100	111	P/P	50 - 150
Tolfenpyrad	95.8	96.7	P/P	60 - 150
Triclopyr	94.6	93.8	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A119927
Included Lab Sample IDs: 2418168

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Sulfate	99.6	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119928
Included Lab Sample IDs: 2418182

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.5	99.5	P/P	90 - 110
Antimony	99.7	99.6	P/P	90 - 110
Arsenic	98.3	98.4	P/P	90 - 110
Barium	97.5	97.6	P/P	90 - 110
Beryllium	97.5	98.2	P/P	90 - 110
Boron	98.3	98.2	P/P	90 - 110
Cadmium	98.0	97.8	P/P	90 - 110
Chromium	98.7	98.8	P/P	90 - 110
Cobalt	102	103	P/P	90 - 110
Copper	97.8	96.8	P/P	90 - 110
Lead	104	104	P/P	90 - 110
Molybdenum	97.0	97.7	P/P	90 - 110
Nickel	98.4	98.1	P/P	90 - 110
Selenium	98.1	99.5	P/P	90 - 110
Silver	104	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119928

Included Lab Sample IDs: 2418182

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119952

Included Lab Sample IDs: 2418182

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

Reference Method: SM 5310 B-2011

Run ID: A119953

Included Lab Sample IDs: 2418169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.2	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119997

Included Lab Sample IDs: 2418169

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.8	98.3	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A120027

Included Lab Sample IDs: 2418188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.2		P	80 - 120
Avobenzene	96.1		P	80 - 120
Dechlorane 602	103		P	80 - 120
Dechlorane 603	101		P	80 - 120
Dechlorane Plus	93.6		P	80 - 120
Hexabromobenzene	97.2		P	80 - 120
Octinoxate	92.7		P	80 - 120
Oxybenzone	96.5		P	80 - 120
PBB-153	97.3		P	80 - 120
PBDE-47	94.3		P	80 - 120
PBDE-99	97.4		P	80 - 120
Pentabromotoluene	95.9		P	80 - 120
Tetradecachloro-m-terphenyl	85.0		P	80 - 120
Tri-o-cresyl Phosphate	95.7		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	87.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	91.3		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.0		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A120029

Included Lab Sample IDs: 2418169

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A120029

Included Lab Sample IDs: 2418169

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

Reference Method: SM 2320 B-2011

Run ID: A120036

Included Lab Sample IDs: 2418168

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.0	93.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A120036

Included Lab Sample IDs: 2418168

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120043

Included Lab Sample IDs: 2418169

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A120084

Included Lab Sample IDs: 2418182

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	98.1	96.8	P/P	90 - 110
Iron	98.8	97.9	P/P	90 - 110
Magnesium	98.1	97.0	P/P	90 - 110
Potassium	95.5	95.0	P/P	90 - 110
Sodium	96.9	96.2	P/P	90 - 110
Strontium	101	101	P/P	90 - 110
Tin	102	96.0	P/P	90 - 110
Titanium	99.7	95.5	P/P	90 - 110
Vanadium	100	96.8	P/P	90 - 110
Zinc	102	97.3	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A120155

Included Lab Sample IDs: 2418188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	86.3		P	80 - 120
Alachlor	84.8		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	90.2		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	103		P	80 - 120
Azoxystrobin	107		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
Run ID: A120155
Included Lab Sample IDs: 2418188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	99.9		P	80 - 120
Butylate	95.1		P	80 - 120
Caffeine	108		P	80 - 120
Carbophenothion	96.3		P	80 - 120
Carfentrazone Ethyl	100		P	80 - 120
Chlorfenapyr	82.8		P	80 - 120
Chlorpyrifos Ethyl	84.6		P	80 - 120
Chlorpyrifos Methyl	96.3		P	80 - 120
Coumaphos	99.1		P	80 - 120
Cyanazine	102		P	80 - 120
Cyprodinil	95.8		P	80 - 120
Demeton	104		P	80 - 120
Diazinon	98.5		P	80 - 120
Difenoconazole	116		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	84.8		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	100		P	80 - 120
EPTC	98.3		P	80 - 120
Ethion	83.7		P	80 - 120
Ethoprop	99.1		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	90.5		P	80 - 120
Fenbuconazole	91.0		P	80 - 120
Fipronil	90.3		P	80 - 120
Fipronil Desulfinyl	99.2		P	80 - 120
Fipronil Sulfide	98.6		P	80 - 120
Fipronil Sulfone	96.9		P	80 - 120
Fluazifop-P-butyl	98.1		P	80 - 120
Fludioxonil	101		P	80 - 120
Flumioxazin	112		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	91.1		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	97.6		P	80 - 120
Iprodione	55.3*		F	80 - 120
Loratadine	95.3		P	80 - 120
Malathion	82.0		P	80 - 120
Metalaxyl	83.6		P	80 - 120
Metolachlor	98.8		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	100		P	80 - 120
Molinate	86.6		P	80 - 120
Myclobutanil	87.0		P	80 - 120
Naled	96.4		P	80 - 120
Napropamide	106		P	80 - 120
Norflurazon	90.7		P	80 - 120
Oxadiazon	99.5		P	80 - 120
Oxyfluorfen	99.2		P	80 - 120
Parathion Ethyl	98.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120155
Included Lab Sample IDs: 2418188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Parathion Methyl	87.1		P	80 - 120
Pendimethalin	102		P	80 - 120
Phenytol	94.7		P	80 - 120
Phorate	92.7		P	80 - 120
Prodiamine	106		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	105		P	80 - 120
Pronamide	100		P	80 - 120
Propanil	99.1		P	80 - 120
Propargite	97.6		P	80 - 120
Propiconazole	83.2		P	80 - 120
Pyraflufen Ethyl	99.1		P	80 - 120
Pyridaben	100		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	84.5		P	80 - 120
Stirophos	83.3		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	97.9		P	80 - 120
Terbufos	101		P	80 - 120
Terbutylazine	83.9		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	101		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 SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	100				0.739	
EPA 180.1 Rev. 2.0	Turbidity	102				2.75	
EPA 200.7 Rev. 4.4	Calcium	104	105	103	99.1		1.83
	Iron	105	106	102	102		3.82
	Magnesium	104	105	101	102		3.48
	Potassium	101	106	103	100		2.40
	Sodium	104	105	102	100		2.14
	Strontium	101	101	98.8	99.4		2.13
	Tin	100	98.5	98.1	98.2		0.385
	Titanium	99.7	101	97.6	98.3		3.04
	Vanadium	100	101	98.2	99.9		2.69
	Zinc	100	99.9	98.0	99.8		1.94
EPA 200.8 Rev. 5.4	Aluminum	99.2	97.5	98.6	99.4		0.939
	Antimony	102	99.1	100	101		1.38
	Arsenic	98.6	96.6	97.3	97.9		0.751
	Barium	100	99.2	100	98.2		0.976
	Beryllium	93.2	91.8	95.1	95.3		3.37
	Boron	102	102	102	102		0.487
	Cadmium	97.3	96.4	95.7	96.8		0.764
	Chromium	94.9	95.6	96.8	97.9		1.27
	Cobalt	101	100	101	101		0.449
	Copper	97.1	98.1	98.0	97.7		0.132
	Lead	103	102	102	99.6		0.350
	Manganese	101	99.5	102	101		2.36
	Molybdenum	96.9	94.7	96.2	97.4		1.52
	Nickel	96.9	96.9	96.9	98.0		0.0722
	Selenium	98.3	96.2	97.5	97.8		1.33
	Silver	105	104	104	105		0.139
	Thallium	98.7	102	103	99.6		1.08
EPA 300.0 Rev. 2.1	Chloride	103	103	105		1.35	
	Sulfate	101	101	100		1.30	
EPA 350.1 Rev. 2.0	Ammonia-N	97.2	92.2	94.8			2.50
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	97.0	104			4.11
EPA 353.2 Rev. 2.0	NO2NO3-N	103	104	104			0.482
EPA 365.1 Rev. 2.0	Total-P	100	100	101			0.290
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.9	99.2	99.2			0.0
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107	130	113			13.8
	Acetochlor	80.6	70.3	103			19.0
	Alachlor	88.2	80.8	78.5			2.84
	Ametryn	107	150	143			4.65
	Atrazine	96.1					10.6
	Atrazine Desethyl	88.1	115	111			2.28
	Avobenzone	121	132	121			8.68
	Azinphos Methyl	107	153	122			22.5
	Azoxystrobin	103	132	126			4.97
	Bromacil	104	108	114			5.35
	Butylate	55.5	58.2	55.0			5.78
	Caffeine	100	108	107			0.565
	Carbophenothion	102	125	106			16.3
	Carfentrazone Ethyl	115	138	126			9.06
	Chlorfenapyr	88.4	99.6	93.5			6.32
	Chlorpyrifos Ethyl	96.4	93.8	101			7.31

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	94.6	87.8	90.0		2.55
	Coumaphos	71.4	179	145		21.0
	Cyanazine	193	213	180		16.8
	Cyprodinil	107	103	78.3		26.9
	Dechlorane 602	98.0	121	113		6.80
	Dechlorane 603	134	160	156		2.43
	Dechlorane Plus	99.8	97.6	98.0		0.446
	Demeton	88.1	98.1	93.3		5.03
	Diazinon	110	110	114		3.94
	Difenoconazole	129	229	200		13.9
	Dimethenamid	91.5	89.4	96.3		7.49
	Dimethomorph	191	165	184		10.4
	Disulfoton	101	111	107		4.41
	Dithiopyr	103	111	110		1.73
	EPTC	51.5	49.4	44.8		9.68
	Ethion	83.4	93.8	81.4		14.1
	Ethoprop	95.6	101	100		0.229
	Etridiazole	70.0	83.4	66.1		23.1
	Fenamiphos	92.8	82.4	91.8		10.8
	Fenbuconazole	70.7	108	95.7		11.7
	Fipronil	106	118	106		10.6
	Fipronil Desulfinyl	100	111	99.5		10.7
	Fipronil Sulfide	93.5	94.9	95.4		0.573
	Fipronil Sulfone	83.8	95.7	101		5.81
	Fluazifop-P-butyl	96.3	80.5	94.7		16.3
	Fludioxonil	89.7	91.7	105		13.5
	Flumioxazin	114	214	194		9.81
	Flutolanil	93.6	96.1	99.9		3.88
	Fluxapyroxad	103	123	112		8.32
	Fonofos	93.8	90.1	87.3		3.09
	Hexabromobenzene	133	145	139		4.15
	Hexazinone	98.8	108	109		1.22
	Imazalil	101	107	94.7		12.1
	Iprodione	118	94.9	190		66.9
	Loratadine	181	137	154		11.1
	Malathion	101	115	105		8.67
	Metalaxyl	97.4	111	89.2		21.5
	Metolachlor	101	80.0	98.7		8.37
	Metribuzin	95.8	104	105		0.823
	Mevinphos	97.1	143	110		26.5
	Molinate	57.3	54.2	60.1		10.3
	Myclobutanil	98.0	118	102		14.5
	Naled	48.5	44.9	46.4		3.26
	Napropamide	85.0	78.1	103		27.1
	Norflurazon	62.3	120	104		14.2
	Octinoxate	123	128	126		1.36
	Oxadiazon	94.6	106	95.2		10.7
	Oxybenzone	128	141	136		3.25
	Oxyfluorfen	112	118	121		2.79
	Parathion Ethyl	103	106	96.7		9.05
	Parathion Methyl	104	96.6	82.6		15.6
	PBB-153	130	149	144		3.48
	PBDE-47	112	121	118		2.65
	PBDE-99	96.6	117	109		6.90

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	112	123	105		16.2
	Pentabromotoluene	123	132	123		7.27
	Phenytoin	22.8	41.7	36.9		12.1
	Phorate	87.6	127	112		12.7
	Prodiamine	48.2	55.7	53.0		4.96
	Prometon	98.7	102	99.2		2.66
	Prometryn	118	111	116		4.96
	Pronamide	114	131	117		11.8
	Propanil	119	138	122		12.4
	Propargite	65.7	92.3	80.8		13.3
	Propiconazole	89.1	124	105		17.2
	Pyraflufen Ethyl	97.7	126	111		12.9
	Pyridaben	125	171	137		21.8
	Pyriproxyfen	85.5	134	108		20.8
	Simazine	91.1	96.2	95.6		0.694
	Stiophos	69.2	53.1	83.0		44.0
	Sulfentrazone	77.2	119	87.3		30.4
	Tebuconazole	70.0	98.0	91.2		7.20
	Terbufos	109	121	116		3.50
	Terbutylazine	86.5	90.5	91.7		1.32
	Tetradecachloro-m-terphenyl	141	126	135		6.71
	Thiobencarb	93.6	97.1	91.4		5.54
	Tri-o-cresyl Phosphate	123	129	129		0.0811
	Triadimefon	96.6	114	90.4		23.2
	Tris(1-chloro-2-propyl) phosphate (TCPP)	121	108	104		4.34
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111	120	121		1.26
	Tris(2-chloroethyl) phosphate (TCEP)	117	120	121		0.582
EPA 8321B	2,4-D	108	113	87.7		15.0
	2,4,5-T	106	113	89.8		22.7
	Acesulfame K	150	107	108		0.496
	Acetaminophen	61.5	69.2	61.5		11.8
	Acetamiprid	92.1	77.4	68.6		12.0
	Afidopyropen	87.5	76.6	74.4		2.81
	AMPA	97.2	40.8	42.0		2.45
	Bentazon	115	69.8	53.6		16.6
	Benzovindiflupyr	76.0	85.6	85.4		0.292
	Carbamazepine	86.3	69.9	58.0		18.6
	Clothianidin	91.1	102	82.0		21.8
	Dinotefuran	95.6	81.0	69.2		14.0
	Diuron	89.6	43.3	79.4		52.2
	Endothall	110	145	144		0.0485
	Fenuron	87.0	65.0	59.7		8.42
	Fluridone	87.8	77.4	74.6		3.68
	Glufosinate	101	70.0	76.9		9.45
	Glyphosate	110	78.6	83.2		4.64
	Hydrocodone	95.6	71.1	66.2		7.16
	Ibuprofen	92.1	83.9	70.1		18.0
	Imazapyr	92.4	90.4	79.7		10.3
	Imidacloprid	90.5	125	109		13.4
	Linuron	86.0	72.4	67.4		7.17
	Mandestrobin	96.3	90.9	86.8		4.59

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 8321B	MCCP	106	124	109			13.5
	Naproxen	76.8	66.7	59.8			10.9
	Primidone	85.8	81.1	66.9			19.2
	Pyraclostrobin	93.9	83.4	77.3			7.49
	Silvex	105	93.1	79.3			16.0
	Sucralose	111	94.2	104			9.99
	Thiamethoxam	87.3	88.2	95.1			7.60
	Tolfenpyrad	66.8	58.9	48.4			19.5
	Triclopyr	107	108	93.2			14.6
SM 2320 B-2011	Total Alkalinity	96.3				0.181	
SM 2540 C-2015	TDS	93.7				8.07	
SM 2540 D-2015	TSS	94.8					
SM 4500-F- C-2011	Fluoride	102	103	104			0.470
SM 5310 B-2011	Organic Carbon	94.8	93.6	95.7			1.34

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2418168
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2418168
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2418182
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2418182
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2418168
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2418168
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2418169
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2418169
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2418169
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2418169
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2418170
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2418188
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2418188
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2418172
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2418168
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2418182
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2418168
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2418168
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2418168
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2418169

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	06/16/2023			06/16/2023 14:30	Alexis Price	2418168
EPA 180.1 Rev. 2.0	06/16/2023			06/16/2023 14:01	Anna M. Plaviak	2418168
EPA 200.7 Rev. 4.4	06/16/2023	06/19/2023 12:45	George D Taylor	06/28/2023 22:18	McKinley C Carter	2418182
EPA 200.8 Rev. 5.4	06/16/2023	06/19/2023 12:45	George D Taylor	06/20/2023 21:33	Conrad Hartmann	2418182
	06/16/2023	06/19/2023 12:45	George D Taylor	06/22/2023 01:23	Emily M Philpot	2418182
EPA 300.0 Rev. 2.1	06/16/2023			06/22/2023 03:18	James L Waggeberby	2418168
EPA 350.1 Rev. 2.0	06/16/2023			06/22/2023 14:51	Ping Hua	2418169
EPA 351.2 Rev. 2.0	06/16/2023	06/22/2023 12:16	Dana G. Hughes	06/23/2023 11:33	Ping Hua	2418169
EPA 353.2 Rev. 2.0	06/16/2023			06/27/2023 09:48	Beverly Y. Sanders	2418169
EPA 365.1 Rev. 2.0	06/16/2023	06/23/2023 15:29	Adam P Silver	06/26/2023 12:11	Simonne.V. Calhoun	2418169
EPA 365.1 Rev. 2.0 dissolved	06/16/2023			06/16/2023 15:54	Elise M. Gillis	2418170
EPA 8270E	06/16/2023	06/21/2023 08:00	Fe-Val Siddell	06/23/2023 23:08	Arthur Maknenko	2418188
	06/16/2023	06/21/2023 08:00	Fe-Val Siddell	06/29/2023 19:09	Vandana T. Nagar	2418188
EPA 8321B	06/16/2023	06/16/2023 16:00	Touraj Touran	06/16/2023 22:06	Touraj Touran	2418172
	06/16/2023	06/16/2023 16:00	Touraj Touran	06/19/2023 01:29	Touraj Touran	2418172
	06/16/2023	06/20/2023 09:00	Hoor Shaik	06/21/2023 10:18	Juyoung Kim	2418172
SM 2320 B-2011	06/16/2023			06/23/2023 21:22	Dale L. Simmons	2418168
SM 2340 B-2011	06/16/2023			06/28/2023 22:18	McKinley C Carter	2418182
SM 2540 C-2015	06/16/2023			06/21/2023 15:02	Yijie Li	2418168
SM 2540 D-2015	06/16/2023			06/21/2023 15:02	Yijie Li	2418168
SM 4500-F- C-2011	06/16/2023			06/23/2023 21:22	Dale L. Simmons	2418168
SM 5310 B-2011	06/16/2023			06/21/2023 18:13	Elise M. Gillis	2418169