

Chemical Analysis Report

NW-DIST-2023-06-08-02

Florida DEP Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

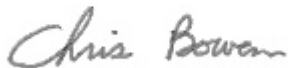
Event Description: **DUNE Lake LVI**
Request ID: **RQ-2023-06-05-62**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 30-JUN-2023 10:07



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: LITTLE DEER LAKE

Collection Date/Time: 06/07/2023 12:32

Field ID: G3NW0220

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2416144	DEP SOP: NU-094-1	Color (true)	47		PCU	P431022	
	EPA 180.1 Rev. 2.0	Turbidity	0.90	I	NTU	P431025	
	EPA 300.0 Rev. 2.1	Chloride	28		mg Cl/L	P431228	
		Sulfate	3.6		mg SO4/L	P431230	
	SM 2320 B-2011	Total Alkalinity	27		mg CaCO3/L	P431205	
	SM 2540 C-2015	TDS	101		mg/L	P431272	
	SM 2540 D-2015	TSS	2	U	mg/L	P431161	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P431630	
2416145	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P431158	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.58		mg N/L	P431266	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P431387	
	EPA 365.1 Rev. 2.0	Total-P	0.009		mg P/L	P431123	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P431165	
2416146	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P431010	
2416172	EPA 8321B	2,4-D	0.0020	U	ug/L	P431068	
		Acesulfame K	0.10	U	ug/L	P431014	
		2,4,5-T	0.0040	U	ug/L	P431068	
		AMPA	0.10	U	ug/L	P431014	
		Acetaminophen	0.0080	U	ug/L	P431068	
		Acetamiprid	0.0020	U	ug/L	P431068	
		Endothall	0.25	U	ug/L	P431014	
		Glufosinate	0.10	U	ug/L	P431014	
		Glyphosate	0.10	U	ug/L	P431014	
		Afidopyropen	0.0020	U	ug/L	P431068	
		Bentazon	8.0E-04	U	ug/L	P431068	
		Sucralose	0.042		ug/L	P431014	
		Benzovindiflupyr	0.0020	U	ug/L	P431068	
		Carbamazepine	8.0E-04	U	ug/L	P431068	
		Clothianidin	0.0020	U	ug/L	P431068	
		Dinotefuran	0.0020	U	ug/L	P431068	
		Diuron	0.0020	U	ug/L	P431068	
		Fenuron	0.032	U	ug/L	P431068	
		Fluridone	8.0E-04	U	ug/L	P431068	
		Imazapyr	0.0066	I	ug/L	P431068	
		Hydrocodone	0.0020	U	ug/L	P431068	
		Ibuprofen	0.080	U	ug/L	P431068	
		Imidacloprid	0.0020	U	ug/L	P431068	
		Linuron	0.0040	U	ug/L	P431068	
		Mandestrobin	0.0020	U	ug/L	P431068	
		MCPD	0.0020	U	ug/L	P431068	
		Naproxen	0.0080	U	ug/L	P431068	
		Primidone	0.0040	U	ug/L	P431068	
		Pyraclostrobin	0.0020	U	ug/L	P431068	

Field ID: G3NW0220

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2416172	EPA 8321B	Silvex	0.0040	U	ug/L	P431068	
		Thiamethoxam	0.0020	U	ug/L	P431068	
		Tolfenpyrad	0.0020	U	ug/L	P431068	
		Triclopyr	0.0040	U	ug/L	P431068	
2416173	EPA 200.7 Rev. 4.4	Calcium	11.7		mg/L	P431079	
		Iron	280		ug/L	P431079	
		Magnesium	2.64		mg/L	P431079	
		Potassium	1.2	I	mg/L	P431079	
		Sodium	15.7		mg/L	P431079	
		Strontium	42.0		ug/L	P431079	
		Tin	3.0	U	ug/L	P431079	
		Titanium	0.75	U	ug/L	P431079	
		Vanadium	2.0	U	ug/L	P431079	
		Zinc	5.0	U	ug/L	P431079	
	EPA 200.8 Rev. 5.4	Aluminum	21		ug/L	P431079	
		Antimony	0.050	U	ug/L	P431079	
		Arsenic	1.47		ug/L	P431079	
		Barium	1.65		ug/L	P431079	
		Beryllium	0.010	U	ug/L	P431079	
		Boron	26.8		ug/L	P431079	
		Cadmium	0.020	U	ug/L	P431079	
		Chromium	0.40	U	ug/L	P431079	
		Cobalt	0.020	U	ug/L	P431079	
		Copper	0.40	U	ug/L	P431079	
		Lead	0.20	U	ug/L	P431079	
		Manganese	5.17		ug/L	P431079	
		Molybdenum	0.15	U	ug/L	P431079	
		Nickel	0.50	U	ug/L	P431079	
		Selenium	0.20	U	ug/L	P431079	
		Silver	0.010	U	ug/L	P431079	
		Thallium	0.10	U	ug/L	P431079	
	SM 2340 B-2011	Hardness	40.2		mg/L	P431079	
2416177	EPA 8270E	Oxybenzone**	10	U	ng/L	P431169	
		Acetochlor	0.21	U	ng/L	P431169	
		Octinoxate**	52	IVJ	ng/L	P431169	LCS
		Alachlor	0.41	U	ng/L	P431169	
		Avobenzone**	100	U	ng/L	P431169	
		Ametryn	1.1	U	ng/L	P431169	
		Atrazine	1.7		ng/L	P431169	
		PBDE-47**	4.1	U	ng/L	P431169	
		Atrazine Desethyl	1.3	U	ng/L	P431169	
		PBDE-99**	5.1	U	ng/L	P431169	
		Azinphos Methyl	3.1	U	ng/L	P431169	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P431169	
		Azoxystrobin	0.41	U	ng/L	P431169	

Field ID: G3NW0220

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2416177	EPA 8270E	Bromacil	0.62	U	ng/L	P431169	
		2-Ethylhexyl	12	U	ng/L	P431169	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P431169	
		Dechlorane Plus**	31	U	ng/L	P431169	
		Caffeine**	9.2	I	ng/L	P431169	
		Dechlorane 602**	5.1	U	ng/L	P431169	
		Carbophenothion	0.51	U	ng/L	P431169	
		Dechlorane 603**	4.1	U	ng/L	P431169	
		Carfentrazone Ethyl	0.15	U	ng/L	P431169	
		Hexabromobenzene**	6.2	U	ng/L	P431169	
		Chlorfenapyr	0.31	U	ng/L	P431169	
		PBB-153**	8.2	U	ng/L	P431169	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P431169	
		Pentabromotoluene**	3.1	U	ng/L	P431169	
		Chlorpyrifos Methyl	0.10	U	ng/L	P431169	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P431169	
		Coumaphos	1.1	U	ng/L	P431169	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P431169	
		Cyanazine	5.1	U	ng/L	P431169	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P431169	
		Cyprodinil	0.21	U	ng/L	P431169	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P431169	
		Demeton	3.6	U	ng/L	P431169	
		Diazinon	0.13	U	ng/L	P431169	
		Difenoconazole	0.62	U	ng/L	P431169	
		Dimethenamid	0.24	I	ng/L	P431169	
		Dimethomorph	0.31	U	ng/L	P431169	
		Disulfoton	0.62	U	ng/L	P431169	
		Dithiopyr	1.0	U	ng/L	P431169	
		EPTC	0.51	U	ng/L	P431169	
		Ethion	0.31	U	ng/L	P431169	
		Ethoprop	0.13	U	ng/L	P431169	
		Etridiazole	0.10	U	ng/L	P431169	
		Fenamiphos	0.46	U	ng/L	P431169	
		Fenbuconazole	0.51	U	ng/L	P431169	
		Fipronil	0.21	U	ng/L	P431169	
		Fipronil Desulfinyl**	0.33	I	ng/L	P431169	
		Fipronil Sulfide	0.31	I	ng/L	P431169	
		Fipronil Sulfone	0.74		ng/L	P431169	
		Fluazifop-P-butyl	0.10	U	ng/L	P431169	
		Fludioxonil	0.10	U	ng/L	P431169	
		Flumioxazin	3.1	U	ng/L	P431169	
		Flutolanil	0.10	U	ng/L	P431169	
		Fluxapyroxad	0.26	U	ng/L	P431169	

Field ID: G3NW0220

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2416177	EPA 8270E	Fonofos	0.15	U	ng/L	P431169	
		Hexazinone	0.51	U	ng/L	P431169	
		Imazalil	0.67	U	ng/L	P431169	
		Iprodione	0.51	U	ng/L	P431169	
		Loratadine**	0.31	U	ng/L	P431169	
		Malathion	230		ng/L	P431169	
		Metalaxyl	0.51	U	ng/L	P431169	
		Metolachlor	0.77	U	ng/L	P431169	
		Metribuzin	0.41	U	ng/L	P431169	
		Mevinphos	1.0	U	ng/L	P431169	
		Molinate	0.26	U	ng/L	P431169	
		Myclobutanil	0.36	U	ng/L	P431169	
		Naled	2.6	U	ng/L	P431169	
		Napropamide	0.72	U	ng/L	P431169	
		Norflurazon	1.0	U	ng/L	P431169	
		Oxadiazon	0.36	U	ng/L	P431169	
		Oxyfluorfen	0.21	U	ng/L	P431169	
		Parathion Ethyl	0.15	U	ng/L	P431169	
		Parathion Methyl	0.21	U	ng/L	P431169	
		Pendimethalin	0.77	UJ	ng/L	P431169	LCS, MS
		Phenytain**	5.4	U	ng/L	P431169	
		Phorate	0.26	U	ng/L	P431169	
		Prodiamine	0.21	U	ng/L	P431169	
		Prometon	3.1	U	ng/L	P431169	
		Prometryn	0.36	U	ng/L	P431169	
		Pronamide	0.10	U	ng/L	P431169	
		Propanil	0.10	U	ng/L	P431169	
		Propargite	0.82	U	ng/L	P431169	
		Propiconazole	0.62	U	ng/L	P431169	
		Pyraflufen Ethyl	0.31	U	ng/L	P431169	
		Pyridaben	1.4	U	ng/L	P431169	
		Pyriproxyfen	0.26	U	ng/L	P431169	
		Simazine	0.26	U	ng/L	P431169	
		Stirophos	0.41	U	ng/L	P431169	
		Sulfentrazone	1.4	U	ng/L	P431169	
		Tebuconazole	1.4	U	ng/L	P431169	
		Terbufos	0.21	U	ng/L	P431169	
		Terbuthylazine	0.21	U	ng/L	P431169	
		Thiobencarb	0.51	U	ng/L	P431169	
		Triadimefon	0.15	U	ng/L	P431169	

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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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: P431022

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431025

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431079

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: P431079

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: P431228

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: P431230

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431158

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431266

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431387

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431123

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431010

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

Reference Method: EPA 8270E
Batch ID: P431169

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	120	I	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: P431169

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: P431169

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: P431169

Component	Result	Code	Units
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	110		ng/L
Octinoxate	200		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	5.0	U	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: P431169

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: P431014

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: P431068

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: P431068

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: P431205

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

Reference Method: SM 2540 C-2015
Batch ID: P431272

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P431161

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431630

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P431165

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: P431022

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: P431025

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.3		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	99.5		P	85 - 115
Iron	102		P	85 - 115
Magnesium	102		P	85 - 115
Potassium	102		P	85 - 115
Sodium	99.9		P	85 - 115
Strontium	101		P	85 - 115
Tin	102		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	99.9		P	85 - 115
Zinc	99.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.9		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	98.2		P	85 - 115
Barium	100		P	85 - 115
Beryllium	91.7		P	85 - 115
Boron	101		P	85 - 115
Cadmium	95.5		P	85 - 115
Chromium	94.9		P	85 - 115
Cobalt	99.1		P	85 - 115
Copper	96.4		P	85 - 115
Lead	101		P	85 - 115
Manganese	99.1		P	80 - 120
Molybdenum	97.2		P	85 - 115
Nickel	97.1		P	85 - 115
Selenium	97.8		P	85 - 115
Silver	102		P	85 - 115
Thallium	97.4		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431228

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431230

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431158

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431266

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431387

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431123

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431010

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

Reference Method: EPA 8270E
Batch ID: P431169

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	128		P	42 - 162
Acetochlor	79.5		P	69 - 123
Alachlor	75.7		P	65 - 118
Ametryn	111		P	58 - 141
Atrazine	93.1		P	73 - 118
Atrazine Desethyl	76.6		P	32 - 125
Avobenzone	130		P	40 - 203
Azinphos Methyl	112		P	36 - 197
Azoxystrobin	98.2		P	58 - 226
Bromacil	112		P	48 - 120
Butylate	67.2		P	27 - 85.0
Caffeine	86.8		P	40 - 137
Carbophenothion	109		P	54 - 132
Carfentrazone Ethyl	113		P	60 - 142
Chlorfenapyr	78.7		P	53 - 117
Chlorpyrifos Ethyl	87.8		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P431169

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	100		P	66 - 119
Coumaphos	133		P	11 - 234
Cyanazine	137		P	61 - 248
Cyprodinil	94.2		P	50 - 147
Dechlorane 602	109		P	50 - 150
Dechlorane 603	140		P	50 - 150
Dechlorane Plus	113		P	47 - 182
Demeton	75.6		P	30 - 138
Diazinon	114		P	67 - 126
Difenoconazole	105		P	38 - 205
Dimethenamid	90.6		P	57 - 111
Dimethomorph	93.9		P	16 - 212
Disulfoton	101		P	46 - 126
Dithiopyr	105		P	62 - 115
EPTC	61.2		P	28 - 80.0
Ethion	100		P	24 - 122
Ethoprop	96.0		P	62 - 113
Etridiazole	73.9		P	28 - 92.0
Fenamiphos	80.0		P	57 - 128
Fenbuconazole	73.1		P	52 - 155
Fipronil	80.9		P	63 - 130
Fipronil Desulfinyl	99.5		P	61 - 130
Fipronil Sulfide	86.8		P	56 - 117
Fipronil Sulfone	83.5		P	52 - 118
Fluazifop-P-butyl	68.8		P	61 - 128
Fludioxonil	79.3		P	59 - 129
Flumioxazin	160		P	30 - 250
Flutolanil	83.9		P	53 - 127
Fluxapyroxad	91.1		P	42 - 132
Fonofos	87.4		P	61 - 110
Hexabromobenzene	134		P	50 - 150
Hexazinone	98.6		P	46 - 139
Imazalil	64.7		P	40 - 139
Iprodione	88.2		P	40 - 146
Loratadine	146		P	10 - 224
Malathion	103		P	61 - 135
Metaxyl	102		P	58 - 121
Metolachlor	89.1		P	64 - 118
Metribuzin	99.6		P	45 - 245
Mevinphos	84.3		P	49 - 118
Molinate	65.2		P	42 - 92.0
Myclobutanil	107		P	55 - 127
Naled	37.1		P	10 - 114
Napropamide	77.5		P	39 - 121
Norflurazon	98.6		P	55 - 129
Octinoxate	171		F	26 - 166
Oxadiazon	86.3		P	54 - 115
Oxybenzone	115		P	49 - 135
Oxyfluorfen	110		P	64 - 139
Parathion Ethyl	92.7		P	70 - 111
Parathion Methyl	96.7		P	76 - 136
PBB-153	143		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P431169

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	119		P	41 - 148
PBDE-99	117		P	38 - 147
Pendimethalin	151		F	52 - 118
Pentabromotoluene	115		P	50 - 150
Phenytoin	147		P	10 - 162
Phorate	107		P	40 - 122
Prodiamine	78.8		P	26 - 141
Prometon	104		P	54 - 122
Prometryn	97.2		P	61 - 128
Pronamide	117		P	72 - 121
Propanil	113		P	45 - 144
Propargite	95.3		P	10 - 199
Propiconazole	78.0		P	56 - 127
Pyraflufen Ethyl	61.0		P	56 - 140
Pyridaben	85.1		P	26 - 211
Pyriproxyfen	80.1		P	33 - 194
Simazine	93.2		P	67 - 121
Stirophos	96.3		P	20 - 142
Sulfentrazone	54.8		P	21 - 144
Tebuconazole	87.2		P	10 - 122
Terbufos	107		P	60 - 129
Terbutylazine	88.3		P	69 - 113
Tetradecachloro-m-terphenyl	180		P	70 - 200
Thiobencarb	114		P	51 - 120
Tri-o-cresyl Phosphate	122		P	49 - 150
Triadimefon	101		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	99.6		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	119		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	116		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P431014

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	122		P	40 - 150
AMPA	124		P	40 - 150
Endothall	108		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	98.5		P	40 - 150
Sucralose	97.2		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P431068

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	104		P	40 - 150
2,4,5-T	77.2		P	40 - 150
Acetaminophen	67.4		P	30 - 150
Acetamiprid	72.2		P	40 - 150
Afidopyropen	69.1		P	30 - 150
Bentazon	115		P	30 - 150
Benzovindiflupyr	89.8		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P431068

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	71.4		P	40 - 150
Clothianidin	92.6		P	40 - 150
Dinotefuran	87.0		P	40 - 150
Diuron	85.4		P	40 - 150
Fenuron	82.1		P	40 - 150
Fluridone	89.3		P	40 - 150
Hydrocodone	96.7		P	40 - 150
Ibuprofen	79.5		P	40 - 150
Imazapyr	92.5		P	40 - 150
Imidacloprid	84.6		P	40 - 150
Linuron	59.8		P	40 - 150
Mandestrobin	88.1		P	40 - 150
MCPP	101		P	40 - 150
Naproxen	78.7		P	40 - 150
Primidone	79.8		P	40 - 150
Pyraclostrobin	81.4		P	40 - 150
Silvex	103		P	40 - 150
Thiamethoxam	87.7		P	40 - 150
Tolfenpyrad	50.1		P	30 - 150
Triclopyr	88.2		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P431205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.4		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P431272

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.3		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P431161

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.2		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P431630

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P431165

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.7		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P431079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415994	Calcium	99.1		P	80 - 120
2415994	Iron	102	104	P/P	80 - 120
2415994	Magnesium	98.8	101	P/P	80 - 120
2415994	Potassium	101	102	P/P	80 - 120
2415994	Sodium	95.8		P	80 - 120
2415994	Strontium	100	102	P/P	80 - 120
2415994	Tin	102	101	P/P	80 - 120
2415994	Titanium	101	102	P/P	80 - 120
2415994	Vanadium	102	101	P/P	80 - 120
2415994	Zinc	99.2	98.8	P/P	80 - 120
2416173	Calcium	101		P	80 - 120
2416173	Iron	101		P	80 - 120
2416173	Magnesium	100		P	80 - 120
2416173	Potassium	103		P	80 - 120
2416173	Sodium	103		P	80 - 120
2416173	Strontium	103		P	80 - 120
2416173	Tin	102		P	80 - 120
2416173	Titanium	101		P	80 - 120
2416173	Vanadium	102		P	80 - 120
2416173	Zinc	105		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P431079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415994	Aluminum	98.8	97.9	P/P	80 - 120
2415994	Antimony	103	103	P/P	80 - 120
2415994	Arsenic	99.4	99.3	P/P	80 - 120
2415994	Barium	101	101	P/P	80 - 120
2415994	Beryllium	94.3	99.6	P/P	80 - 120
2415994	Boron	100	99.8	P/P	80 - 120
2415994	Cadmium	98.4	99.9	P/P	80 - 120
2415994	Chromium	94.9	95.7	P/P	80 - 120
2415994	Cobalt	99.1	99.2	P/P	80 - 120
2415994	Copper	96.4	96.7	P/P	80 - 120
2415994	Lead	104	103	P/P	80 - 120
2415994	Manganese	102	102	P/P	80 - 120
2415994	Molybdenum	98.4	98.7	P/P	80 - 120
2415994	Nickel	97.5	97.4	P/P	80 - 120
2415994	Selenium	98.5	99.7	P/P	80 - 120
2415994	Silver	102	102	P/P	80 - 120
2415994	Thallium	101	101	P/P	80 - 120
2416173	Aluminum	97.1		P	80 - 120
2416173	Antimony	102		P	80 - 120
2416173	Arsenic	97.2		P	80 - 120
2416173	Barium	99.8		P	80 - 120
2416173	Beryllium	96.2		P	80 - 120
2416173	Boron	99.4		P	80 - 120
2416173	Cadmium	99.6		P	80 - 120
2416173	Chromium	94.3		P	80 - 120
2416173	Cobalt	97.0		P	80 - 120
2416173	Copper	95.5		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P431079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416173	Lead	102		P	80 - 120
2416173	Manganese	99.9		P	80 - 120
2416173	Molybdenum	98.5		P	80 - 120
2416173	Nickel	94.1		P	80 - 120
2416173	Selenium	98.5		P	80 - 120
2416173	Silver	101		P	80 - 120
2416173	Thallium	98.9		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P431228

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416069	Chloride	96.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P431230

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416069	Sulfate	95.9		P	90 - 110
2416243	Sulfate	96.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P431158

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416070	Ammonia-N	94.2	95.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P431266

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416261	Kjeldahl Nitrogen	105	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P431387

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416175	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P431123

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416145	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P431010

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415977	O-Phosphate-P	95.8	95.1	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P431169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416029	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	114	120	P/P	26 - 165
2416029	Acetochlor	79.4	85.0	P/P	67 - 124
2416029	Alachlor	80.5	76.8	P/P	60 - 120
2416029	Ametryn	113	131	P/P	54 - 216
2416029	Atrazine Desethyl	95.1	109	P/P	15 - 122
2416029	Avobenzone	139	123	P/P	37 - 178
2416029	Azinphos Methyl	107	116	P/P	40 - 292
2416029	Azoxystrobin	133	139	P/P	35 - 220
2416029	Bromacil	104	91.9	P/P	45 - 127
2416029	Butylate	61.7	54.0	P/P	20 - 83.0
2416029	Caffeine	111	99.0	P/P	10 - 194
2416029	Carbophenothion	106	111	P/P	57 - 127
2416029	Carfentrazone Ethyl	110	117	P/P	51 - 141
2416029	Chlorfenapyr	87.2	87.7	P/P	46 - 111
2416029	Chlorpyrifos Ethyl	113	96.5	P/P	52 - 120
2416029	Chlorpyrifos Methyl	104	108	P/P	63 - 119
2416029	Coumaphos	111	136	P/P	10 - 228
2416029	Cyanazine	170	148	P/P	59 - 241
2416029	Cyprodinil	101	88.2	P/P	47 - 146
2416029	Dechlorane 602	78.6	85.7	P/P	50 - 150
2416029	Dechlorane 603	136	135	P/P	50 - 150
2416029	Dechlorane Plus	93.6	93.0	P/P	50 - 150
2416029	Demeton	86.1	83.5	P/P	40 - 136
2416029	Diazinon	112	114	P/P	69 - 132
2416029	Difenoconazole	87.4	103	P/P	57 - 258
2416029	Dimethenamid	90.8	97.7	P/P	54 - 110
2416029	Dimethomorph	193	161	P/P	28 - 210
2416029	Disulfoton	110	106	P/P	43 - 133
2416029	Dithiopyr	110	113	P/P	39 - 116
2416029	EPTC	58.3	48.1	P/P	20 - 78.0
2416029	Ethion	112	96.7	P/P	17 - 119
2416029	Ethoprop	103	98.8	P/P	66 - 120
2416029	Etridiazole	67.8	62.0	P/P	28 - 96.0
2416029	Fenamiphos	92.3	89.3	P/P	41 - 126
2416029	Fenbuconazole	76.8	80.6	P/P	42 - 169
2416029	Fipronil	79.4	80.3	P/P	61 - 132
2416029	Fipronil Desulfinyl	94.3	97.4	P/P	56 - 132
2416029	Fipronil Sulfide	91.7	87.8	P/P	48 - 119
2416029	Fipronil Sulfone	69.7	85.7	P/P	42 - 131
2416029	Fluazifop-P-butyl	71.7	71.6	P/P	53 - 131
2416029	Fludioxonil	90.1	91.5	P/P	56 - 127
2416029	Flumioxazin	127	142	P/P	19 - 300
2416029	Flutolanil	81.3	83.6	P/P	41 - 127
2416029	Fluxapyroxad	79.8	93.4	P/P	42 - 172
2416029	Fonofos	96.7	89.2	P/P	59 - 113
2416029	Hexabromobenzene	138	129	P/P	50 - 150
2416029	Hexazinone	103	111	P/P	66 - 122
2416029	Imazalil	49.1	78.8	P/P	21 - 283
2416029	Iprodione	89.9	99.1	P/P	43 - 150
2416029	Loratadine	141	151	P/P	23 - 201
2416029	Malathion	99.7	101	P/P	58 - 136
2416029	Metalaxyl	93.3	95.3	P/P	55 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P431169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416029	Metolachlor	109	113	P/P	57 - 121
2416029	Metribuzin	107	110	P/P	58 - 294
2416029	Mevinphos	96.4	90.7	P/P	50 - 126
2416029	Molinate	64.1	59.4	P/P	42 - 93.0
2416029	Myclobutanil	110	108	P/P	55 - 125
2416029	Naled	35.9	38.5	P/P	18 - 200
2416029	Napropamide	70.3	77.9	P/P	39 - 110
2416029	Norflurazon	95.5	98.3	P/P	48 - 128
2416029	Octinoxate	142	104	P/P	21 - 159
2416029	Oxadiazon	92.1	96.3	P/P	43 - 112
2416029	Oxybenzone	128	121	P/P	41 - 142
2416029	Oxyfluorfen	121	114	P/P	64 - 153
2416029	Parathion Ethyl	109	101	P/P	69 - 114
2416029	Parathion Methyl	110	111	P/P	79 - 139
2416029	PBB-153	149	147	P/P	50 - 150
2416029	PBDE-47	97.1	100	P/P	27 - 144
2416029	PBDE-99	92.4	96.0	P/P	18 - 150
2416029	Pendimethalin	172	150	F/F	50 - 139
2416029	Pentabromotoluene	123	111	P/P	50 - 150
2416029	Phenytoin	109	94.9	P/P	10 - 146
2416029	Phorate	137	113	P/P	54 - 161
2416029	Prodiamine	75.3	70.6	P/P	30 - 161
2416029	Prometon	95.3	96.1	P/P	45 - 134
2416029	Prometryn	95.8	109	P/P	45 - 137
2416029	Pronamide	118	109	P/P	65 - 133
2416029	Propanil	114	116	P/P	49 - 142
2416029	Propargite	65.4	82.2	P/P	10 - 203
2416029	Propiconazole	81.9	86.9	P/P	38 - 146
2416029	Pyraflufen Ethyl	69.9	62.0	P/P	34 - 153
2416029	Pyridaben	91.9	106	P/P	12 - 192
2416029	Pyriproxyfen	89.9	94.5	P/P	33 - 180
2416029	Simazine	111	99.0	P/P	51 - 157
2416029	Stiropfos	76.2	72.1	P/P	10 - 128
2416029	Sulfentrazone	89.4	101	P/P	53 - 186
2416029	Tebuconazole	65.0	76.3	P/P	10 - 133
2416029	Terbufos	115	106	P/P	65 - 139
2416029	Terbuthylazine	91.1	91.1	P/P	66 - 117
2416029	Tetradecachloro-m-terphenyl	180	169	P/P	70 - 200
2416029	Thiobencarb	108	101	P/P	51 - 119
2416029	Tri-o-cresyl Phosphate	134	121	P/P	31 - 144
2416029	Triadimefon	117	111	P/P	48 - 119
2416029	Tris(1-chloro-2-propyl) phosphate (TCPP)	115	90.0	P/P	50 - 150
2416029	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	125	114	P/P	50 - 150
2416029	Tris(2-chloroethyl) phosphate (TCEP)	126	114	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P431014

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415133	Acesulfame K	119	116	P/P	40 - 150
2415133	AMPA	73.6	78.6	P/P	40 - 150
2415133	Endothall	110	116	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P431014

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415133	Glufosinate	88.2	96.2	P/P	40 - 150
2415133	Glyphosate	96.6	100	P/P	40 - 150
2415133	Sucralose	90.1	84.9	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P431068

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415085	2,4-D	96.1	87.7	P/P	40 - 150
2415085	2,4,5-T	93.8	97.3	P/P	40 - 150
2415085	Acetaminophen	72.3	71.8	P/P	30 - 150
2415085	Acetamiprid	60.4	54.6	P/P	40 - 150
2415085	Afidopyropen	66.6	69.9	P/P	30 - 150
2415085	Bentazon	53.5	54.2	P/P	30 - 150
2415085	Benzovindiflupyr	71.1	74.0	P/P	40 - 150
2415085	Carbamazepine	68.3	63.6	P/P	40 - 150
2415085	Clothianidin	77.1	75.1	P/P	40 - 150
2415085	Dinotefuran	66.7	66.4	P/P	40 - 150
2415085	Diuron	72.1	70.2	P/P	40 - 150
2415085	Fenuron	57.2	64.4	P/P	40 - 150
2415085	Fluridone	88.5	76.0	P/P	40 - 150
2415085	Hydrocodone	63.7	60.1	P/P	40 - 150
2415085	Ibuprofen	75.9	82.0	P/P	40 - 150
2415085	Imazapyr	77.2	67.0	P/P	40 - 150
2415085	Imidacloprid	115	115	P/P	40 - 150
2415085	Linuron	61.7	73.6	P/P	40 - 150
2415085	Mandestrobin	89.2	79.7	P/P	40 - 150
2415085	MCP	103	101	P/P	40 - 150
2415085	Naproxen	76.3	75.4	P/P	40 - 150
2415085	Primidone	68.2	71.5	P/P	40 - 150
2415085	Pyraclostrobin	86.1	77.5	P/P	40 - 150
2415085	Silvex	93.9	88.5	P/P	40 - 150
2415085	Thiamethoxam	82.5	82.1	P/P	40 - 150
2415085	Tolfenpyrad	56.1	52.9	P/P	30 - 150
2415085	Triclopyr	95.8	102	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P431630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416069	Fluoride	102	102	P/P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P431165

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416263	Organic Carbon	93.2	94.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P431022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416100	Color (true)	3.35	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431025

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416088	Turbidity	10.7	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415994	Calcium	1.88	Spike	P	0 - 20
2415994	Iron	1.72	Spike	P	0 - 20
2415994	Magnesium	1.63	Spike	P	0 - 20
2415994	Potassium	0.933	Spike	P	0 - 20
2415994	Sodium	0.402	Spike	P	0 - 20
2415994	Strontium	1.39	Spike	P	0 - 20
2415994	Tin	0.899	Spike	P	0 - 20
2415994	Titanium	0.258	Spike	P	0 - 20
2415994	Vanadium	1.02	Spike	P	0 - 20
2415994	Zinc	0.402	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415994	Aluminum	0.777	Spike	P	0 - 20
2415994	Antimony	0.162	Spike	P	0 - 20
2415994	Arsenic	0.114	Spike	P	0 - 20
2415994	Barium	0.267	Spike	P	0 - 20
2415994	Beryllium	5.49	Spike	P	0 - 20
2415994	Boron	0.441	Spike	P	0 - 20
2415994	Cadmium	1.53	Spike	P	0 - 20
2415994	Chromium	0.782	Spike	P	0 - 20
2415994	Cobalt	0.134	Spike	P	0 - 20
2415994	Copper	0.256	Spike	P	0 - 20
2415994	Lead	0.236	Spike	P	0 - 20
2415994	Manganese	0.0939	Spike	P	0 - 20
2415994	Molybdenum	0.342	Spike	P	0 - 20
2415994	Nickel	0.0352	Spike	P	0 - 20
2415994	Selenium	1.13	Spike	P	0 - 20
2415994	Silver	0.686	Spike	P	0 - 20
2415994	Thallium	0.534	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431228

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416069	Chloride	1.01	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431230

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416069	Sulfate	0.937	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431158

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416070	Ammonia-N	1.53	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431266

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416261	Kjeldahl Nitrogen	0.396	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431387

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416175	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416145	Total-P	0.267	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P431010

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415977	O-Phosphate-P	0.733	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P431169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416029	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	5.32	Spike	P	0 - 37
2416029	Acetochlor	6.00	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P431169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416029	Alachlor	4.66	Spike	P	0 - 30
2416029	Ametryn	14.7	Spike	P	0 - 32
2416029	Atrazine	9.00	Spike	P	0 - 41
2416029	Atrazine Desethyl	13.3	Spike	P	0 - 36
2416029	Avobenzone	12.2	Spike	P	0 - 36
2416029	Azinphos Methyl	8.26	Spike	P	0 - 75
2416029	Azoxystrobin	4.57	Spike	P	0 - 39
2416029	Bromacil	10.6	Spike	P	0 - 33
2416029	Butylate	13.3	Spike	P	0 - 44
2416029	Caffeine	8.72	Spike	P	0 - 74
2416029	Carbophenothion	5.00	Spike	P	0 - 25
2416029	Carfentrazone Ethyl	6.07	Spike	P	0 - 27
2416029	Chlorfenapyr	0.508	Spike	P	0 - 24
2416029	Chlorpyrifos Ethyl	15.5	Spike	P	0 - 26
2416029	Chlorpyrifos Methyl	3.66	Spike	P	0 - 26
2416029	Coumaphos	19.6	Spike	P	0 - 28
2416029	Cyanazine	13.7	Spike	P	0 - 48
2416029	Cyprodinil	13.7	Spike	P	0 - 29
2416029	Dechlorane 602	8.70	Spike	P	0 - 30
2416029	Dechlorane 603	1.01	Spike	P	0 - 30
2416029	Dechlorane Plus	0.701	Spike	P	0 - 30
2416029	Demeton	3.06	Spike	P	0 - 33
2416029	Diazinon	1.39	Spike	P	0 - 29
2416029	Difenoconazole	15.9	Spike	P	0 - 34
2416029	Dimethenamid	6.46	Spike	P	0 - 39
2416029	Dimethomorph	18.5	Spike	P	0 - 51
2416029	Disulfoton	3.61	Spike	P	0 - 30
2416029	Dithiopyr	2.16	Spike	P	0 - 26
2416029	EPTC	19.2	Spike	P	0 - 43
2416029	Ethion	14.9	Spike	P	0 - 79
2416029	Ethoprop	4.12	Spike	P	0 - 29
2416029	Etridiazole	8.93	Spike	P	0 - 33
2416029	Fenamiphos	3.34	Spike	P	0 - 40
2416029	Fenbuconazole	4.86	Spike	P	0 - 74
2416029	Fipronil	0.913	Spike	P	0 - 29
2416029	Fipronil Desulfinyl	2.84	Spike	P	0 - 32
2416029	Fipronil Sulfide	4.06	Spike	P	0 - 30
2416029	Fipronil Sulfone	18.9	Spike	P	0 - 33
2416029	Fluazifop-P-butyl	0.0938	Spike	P	0 - 38
2416029	Fludioxonil	1.47	Spike	P	0 - 29
2416029	Flumioxazin	11.2	Spike	P	0 - 51
2416029	Flutolanil	2.84	Spike	P	0 - 25
2416029	Fluxapyroxad	13.7	Spike	P	0 - 45
2416029	Fonofos	8.08	Spike	P	0 - 27
2416029	Hexabromobenzene	6.45	Spike	P	0 - 30
2416029	Hexazinone	7.28	Spike	P	0 - 30
2416029	Imazalil	46.5	Spike	P	0 - 100
2416029	Iprodione	9.74	Spike	P	0 - 33
2416029	Loratadine	6.92	Spike	P	0 - 56
2416029	Malathion	1.11	Spike	P	0 - 37
2416029	Metalaxyl	1.80	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P431169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416029	Metolachlor	2.40	Spike	P	0 - 29
2416029	Metribuzin	2.75	Spike	P	0 - 45
2416029	Mevinphos	6.04	Spike	P	0 - 29
2416029	Molinate	7.53	Spike	P	0 - 33
2416029	Myclobutanil	1.72	Spike	P	0 - 26
2416029	Naled	7.06	Spike	P	0 - 37
2416029	Napropamide	10.2	Spike	P	0 - 44
2416029	Norflurazon	2.92	Spike	P	0 - 30
2416029	Octinoxate	24.3	Spike	P	0 - 45
2416029	Oxadiazon	4.45	Spike	P	0 - 28
2416029	Oxybenzone	5.41	Spike	P	0 - 46
2416029	Oxyfluorfen	5.39	Spike	P	0 - 28
2416029	Parathion Ethyl	7.43	Spike	P	0 - 31
2416029	Parathion Methyl	1.12	Spike	P	0 - 29
2416029	PBB-153	1.21	Spike	P	0 - 30
2416029	PBDE-47	3.11	Spike	P	0 - 36
2416029	PBDE-99	3.82	Spike	P	0 - 40
2416029	Pendimethalin	13.4	Spike	P	0 - 33
2416029	Pentabromotoluene	10.2	Spike	P	0 - 30
2416029	Phenytoin	14.1	Spike	P	0 - 100
2416029	Phorate	19.0	Spike	P	0 - 36
2416029	Prodiamine	6.54	Spike	P	0 - 71
2416029	Prometon	0.791	Spike	P	0 - 36
2416029	Prometryn	12.7	Spike	P	0 - 28
2416029	Pronamide	8.00	Spike	P	0 - 24
2416029	Propanil	1.18	Spike	P	0 - 28
2416029	Propargite	22.7	Spike	P	0 - 43
2416029	Propiconazole	5.94	Spike	P	0 - 33
2416029	Pyraflufen Ethyl	12.0	Spike	P	0 - 29
2416029	Pyridaben	14.4	Spike	P	0 - 30
2416029	Pyriproxyfen	4.97	Spike	P	0 - 79
2416029	Simazine	11.5	Spike	P	0 - 29
2416029	Stirophos	5.57	Spike	P	0 - 61
2416029	Sulfentrazone	10.6	Spike	P	0 - 33
2416029	Tebuconazole	16.0	Spike	P	0 - 69
2416029	Terbufos	8.27	Spike	P	0 - 29
2416029	Terbuthylazine	0.0232	Spike	P	0 - 32
2416029	Tetradecachloro-m-terphenyl	6.41	Spike	P	0 - 30
2416029	Thiobencarb	6.28	Spike	P	0 - 26
2416029	Tri-o-cresyl Phosphate	10.0	Spike	P	0 - 33
2416029	Triadimefon	4.66	Spike	P	0 - 28
2416029	Tris(1-chloro-2-propyl) phosphate (TCPP)	24.5	Spike	P	0 - 30
2416029	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	8.99	Spike	P	0 - 30
2416029	Tris(2-chloroethyl) phosphate (TCEP)	9.89	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P431014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415133	Acesulfame K	2.58	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P431014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415133	AMPA	6.61	Spike	P	0 - 30
2415133	Endothall	5.38	Spike	P	0 - 30
2415133	Glufosinate	8.75	Spike	P	0 - 30
2415133	Glyphosate	3.88	Spike	P	0 - 30
2415133	Sucralose	5.65	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P431068

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415085	2,4-D	8.33	Spike	P	0 - 30
2415085	2,4,5-T	3.57	Spike	P	0 - 30
2415085	Acetaminophen	0.692	Spike	P	0 - 30
2415085	Acetamiprid	10.1	Spike	P	0 - 30
2415085	Afidopyropen	4.76	Spike	P	0 - 30
2415085	Bentazon	1.19	Spike	P	0 - 30
2415085	Benzovindiflupyr	4.07	Spike	P	0 - 30
2415085	Carbamazepine	5.89	Spike	P	0 - 30
2415085	Clothianidin	2.52	Spike	P	0 - 30
2415085	Dinotefuran	0.411	Spike	P	0 - 30
2415085	Diuron	2.72	Spike	P	0 - 30
2415085	Fenuron	12.0	Spike	P	0 - 30
2415085	Fluridone	7.31	Spike	P	0 - 30
2415085	Hydrocodone	5.91	Spike	P	0 - 30
2415085	Ibuprofen	7.73	Spike	P	0 - 30
2415085	Imazapyr	11.6	Spike	P	0 - 30
2415085	Imidacloprid	0.271	Spike	P	0 - 30
2415085	Linuron	17.7	Spike	P	0 - 30
2415085	Mandestrobin	11.2	Spike	P	0 - 30
2415085	MCP	2.18	Spike	P	0 - 30
2415085	Naproxen	1.29	Spike	P	0 - 30
2415085	Primidone	4.79	Spike	P	0 - 30
2415085	Pyraclostrobin	10.5	Spike	P	0 - 30
2415085	Silvex	5.89	Spike	P	0 - 30
2415085	Thiamethoxam	0.547	Spike	P	0 - 30
2415085	Tolfenpyrad	5.96	Spike	P	0 - 30
2415085	Triclopyr	5.82	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P431205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416411	Total Alkalinity	0.292	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P431272

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: P431272

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415975	TDS	1.69	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P431630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416069	Fluoride	0.520	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P431165

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416263	Organic Carbon	1.24	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2416172

Field Sample ID: G3NW0220

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	94.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	65.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	58.5	P	30 - 160
EPA 8321B	Diuron-d6	56.1	P	30 - 160
EPA 8321B	Endothall-d6	113	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	79.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.5	P	30 - 160
EPA 8321B	Primidone-d5	66.3	P	30 - 160
EPA 8321B	Sucralose-d6	106	P	30 - 160

Lab Sample ID: 2416177

Field Sample ID: G3NW0220

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	70.9	P	20 - 200
EPA 8270E	Simazine-d10	75.9	P	62 - 142
EPA 8270E	Terbufos-d10	68.7	P	58 - 132
EPA 8270E	Terphenyl-d14	82.3	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A119666

Included Lab Sample IDs: 2416146

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.2	98.3	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A119671

Included Lab Sample IDs: 2416144

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.6	99.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A119672

Included Lab Sample IDs: 2416144

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	97.0	97.0	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A119721

Included Lab Sample IDs: 2416172

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	140	152	P/P	60 - 160
Sucralose	79.6	95.5	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A119722

Included Lab Sample IDs: 2416172

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	107	107	P/P	60 - 160
Endothall	104	107	P/P	60 - 160
Glufosinate	93.7	97.4	P/P	60 - 160
Glyphosate	106	111	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A119733

Included Lab Sample IDs: 2416145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.0	97.1	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119745

Included Lab Sample IDs: 2416173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.3	98.1	P/P	90 - 110
Antimony	99.6	99.8	P/P	90 - 110
Arsenic	97.3	96.5	P/P	90 - 110
Barium	97.5	96.9	P/P	90 - 110
Beryllium	95.7	95.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119745

Included Lab Sample IDs: 2416173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	95.8	95.6	P/P	90 - 110
Cadmium	97.0	97.6	P/P	90 - 110
Chromium	96.0	95.1	P/P	90 - 110
Cobalt	98.6	97.1	P/P	90 - 110
Copper	95.0	93.5	P/P	90 - 110
Lead	100	98.3	P/P	90 - 110
Molybdenum	95.1	94.6	P/P	90 - 110
Nickel	96.1	94.3	P/P	90 - 110
Selenium	97.1	97.4	P/P	90 - 110
Silver	100	100	P/P	90 - 110
Thallium	98.8	97.7	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A119749

Included Lab Sample IDs: 2416145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.0	97.0	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A119765

Included Lab Sample IDs: 2416144

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.7	94.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119766

Included Lab Sample IDs: 2416145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	99.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A119778

Included Lab Sample IDs: 2416144

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.6	95.8	P/P	90 - 110
Sulfate	99.9	96.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119779

Included Lab Sample IDs: 2416173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Manganese	98.7	98.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A119852

Included Lab Sample IDs: 2416145

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A119873

Included Lab Sample IDs: 2416173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.4	98.4	P/P	95 - 105
Iron	101	99.7	P/P	95 - 105
Magnesium	99.9	98.7	P/P	95 - 105
Potassium	99.9	99.3	P/P	95 - 105
Sodium	100	102	P/P	95 - 105
Strontium	101	103	P/P	95 - 105
Tin	99.9	101	P/P	95 - 105
Titanium	100	99.8	P/P	95 - 105
Vanadium	99.5	100	P/P	95 - 105
Zinc	100	102	P/P	95 - 105

Reference Method: EPA 8270E

Run ID: A119885

Included Lab Sample IDs: 2416177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.2		P	80 - 120
Avobenzene	98.1		P	80 - 120
Dechlorane 602	98.7		P	80 - 120
Dechlorane 603	96.4		P	80 - 120
Dechlorane Plus	92.5		P	80 - 120
Hexabromobenzene	97.1		P	80 - 120
Octinoxate	94.9		P	80 - 120
Oxybenzone	93.4		P	80 - 120
PBB-153	96.2		P	80 - 120
PBDE-47	96.4		P	80 - 120
PBDE-99	96.0		P	80 - 120
Pentabromotoluene	98.4		P	80 - 120
Tetradecachloro-m-terphenyl	93.3		P	80 - 120
Tri-o-cresyl Phosphate	97.5		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	91.3		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.1		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.6		P	80 - 120

Reference Method: EPA 8321B

Run ID: A119900

Included Lab Sample IDs: 2416172

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.0	84.0	P/P	50 - 150
2,4,5-T	105	89.4	P/P	50 - 150
Acetaminophen	95.1	78.4	P/P	60 - 160
Acetamiprid	103	107	P/P	50 - 150
Afidopyropen	143	99.3	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A119900
Included Lab Sample IDs: 2416172

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	120	141	P/P	50 - 160
Benzovindiflupyr	118	122	P/P	50 - 150
Carbamazepine	104	98.2	P/P	60 - 150
Clothianidin	121	120	P/P	60 - 150
Dinotefuran	114	101	P/P	50 - 150
Diuron	114	130	P/P	60 - 160
Fenuron	97.2	95.5	P/P	60 - 150
Fluridone	112	98.2	P/P	60 - 160
Hydrocodone	116	120	P/P	60 - 150
Ibuprofen	106	91.3	P/P	50 - 160
Imazapyr	103	103	P/P	50 - 150
Imidacloprid	83.2	82.3	P/P	60 - 150
Linuron	100	103	P/P	60 - 150
Mandestrobin	105	102	P/P	50 - 150
MCPP	98.9	100	P/P	50 - 150
Naproxen	101	104	P/P	50 - 160
Primidone	90.1	93.2	P/P	60 - 150
Pyraclostrobin	107	121	P/P	60 - 150
Silvex	103	102	P/P	50 - 150
Thiamethoxam	94.9	136	P/P	50 - 150
Tolfenpyrad	103	102	P/P	60 - 150
Triclopyr	110	91.8	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A119934
Included Lab Sample IDs: 2416177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	90.2		P	80 - 120
Alachlor	86.5		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	89.3		P	80 - 120
Atrazine Desethyl	81.7		P	80 - 120
Azinphos Methyl	96.3		P	80 - 120
Azoxystrobin	97.6		P	80 - 120
Bromacil	99.5		P	80 - 120
Butylate	99.9		P	80 - 120
Caffeine	114		P	80 - 120
Carbophenothion	93.4		P	80 - 120
Carfentrazone Ethyl	92.8		P	80 - 120
Chlorfenapyr	82.3		P	80 - 120
Chlorpyrifos Ethyl	87.9		P	80 - 120
Chlorpyrifos Methyl	104		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	82.6		P	80 - 120
Cyprodinil	97.6		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	98.0		P	80 - 120
Dimethenamid	107		P	80 - 120
Dimethomorph	93.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119934
Included Lab Sample IDs: 2416177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Disulfoton	98.7		P	80 - 120
Dithiopyr	99.6		P	80 - 120
EPTC	99.4		P	80 - 120
Ethion	84.2		P	80 - 120
Ethoprop	105		P	80 - 120
Etridiazole	97.6		P	80 - 120
Fenamiphos	87.5		P	80 - 120
Fenbuconazole	88.6		P	80 - 120
Fipronil	91.3		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	103		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	93.7		P	80 - 120
Fludioxonil	105		P	80 - 120
Flumioxazin	97.7		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	99.4		P	80 - 120
Fonofos	97.4		P	80 - 120
Hexazinone	98.3		P	80 - 120
Imazalil	95.2		P	80 - 120
Iprodione	91.6		P	80 - 120
Loratadine	85.6		P	80 - 120
Metalaxyl	95.2		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	102		P	80 - 120
Molinate	89.7		P	80 - 120
Myclobutanil	87.9		P	80 - 120
Naled	94.0		P	80 - 120
Napropamide	97.0		P	80 - 120
Norflurazon	92.0		P	80 - 120
Oxadiazon	97.2		P	80 - 120
Oxyfluorfen	94.0		P	80 - 120
Parathion Ethyl	96.9		P	80 - 120
Parathion Methyl	90.7		P	80 - 120
Pendimethalin	101		P	80 - 120
Phenytol	101		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	99.4		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	105		P	80 - 120
Pronamide	103		P	80 - 120
Propanil	101		P	80 - 120
Propargite	90.1		P	80 - 120
Propiconazole	85.3		P	80 - 120
Pyraflufen Ethyl	102		P	80 - 120
Pyridaben	103		P	80 - 120
Pyriproxyfen	96.1		P	80 - 120
Simazine	92.0		P	80 - 120
Stirophos	86.5		P	80 - 120
Sulfentrazone	97.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A119934
Included Lab Sample IDs: 2416177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tebuconazole	97.3		P	80 - 120
Terbufos	98.5		P	80 - 120
Terbutylazine	84.0		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	98.5		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119937
Included Lab Sample IDs: 2416177

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Malathion	90.9		P	80 - 120

Reference Method: SM 4500-F- C-2011
Run ID: A119960
Included Lab Sample IDs: 2416144

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: P119843
Included Lab Sample IDs: 2416145

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	109	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 SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	101				3.35	
EPA 180.1 Rev. 2.0	Turbidity	96.3				10.7	
EPA 200.7 Rev. 4.4	Calcium	99.5	99.1	101			1.88
	Iron	102	102	104	101		1.72
	Magnesium	102	98.8	101	100		1.63
	Potassium	102	101	102	103		0.933
	Sodium	99.9	95.8	103			0.402
	Strontium	101	100	102	103		1.39
	Tin	102	102	101	102		0.899
	Titanium	101	101	102	101		0.258
	Vanadium	99.9	102	101	102		1.02
	Zinc	99.9	99.2	98.8	105		0.402
EPA 200.8 Rev. 5.4	Aluminum	97.9	98.8	97.9	97.1		0.777
	Antimony	103	103	103	102		0.162
	Arsenic	98.2	99.4	99.3	97.2		0.114
	Barium	100	101	101	99.8		0.267
	Beryllium	91.7	94.3	99.6	96.2		5.49
	Boron	101	100	99.8	99.4		0.441
	Cadmium	95.5	98.4	99.9	99.6		1.53
	Chromium	94.9	94.9	95.7	94.3		0.782
	Cobalt	99.1	99.1	99.2	97.0		0.134
	Copper	96.4	96.4	96.7	95.5		0.256
	Lead	101	104	103	102		0.236
	Manganese	99.1	102	102	99.9		0.0939
	Molybdenum	97.2	98.4	98.7	98.5		0.342
	Nickel	97.1	97.5	97.4	94.1		0.0352
	Selenium	97.8	98.5	99.7	98.5		1.13
	Silver	102	102	102	101		0.686
	Thallium	97.4	101	101	98.9		0.534
EPA 300.0 Rev. 2.1	Chloride	101	96.7			1.01	
	Sulfate	99.7	95.9	96.8		0.937	
EPA 350.1 Rev. 2.0	Ammonia-N	95.8	94.2	95.8			1.53
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	105	104			0.396
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	104			0.0
EPA 365.1 Rev. 2.0	Total-P	102	103	103			0.267
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.2	95.8	95.1			0.733
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	128	114	120			5.32
	Acetochlor	79.5	79.4	85.0			6.00
	Alachlor	75.7	80.5	76.8			4.66
	Ametryn	111	113	131			14.7
	Atrazine	93.1					9.00
	Atrazine Desethyl	76.6	95.1	109			13.3
	Avobenzone	130	139	123			12.2
	Azinphos Methyl	112	107	116			8.26
	Azoxystrobin	98.2	133	139			4.57
	Bromacil	112	104	91.9			10.6
	Butylate	67.2	61.7	54.0			13.3
	Caffeine	86.8	111	99.0			8.72
	Carbophenothion	109	106	111			5.00
	Carfentrazone Ethyl	113	110	117			6.07
	Chlorfenapyr	78.7	87.2	87.7			0.508
	Chlorpyrifos Ethyl	87.8	113	96.5			15.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	100	104	108		3.66
	Coumaphos	133	111	136		19.6
	Cyanazine	137	170	148		13.7
	Cyprodinil	94.2	101	88.2		13.7
	Dechlorane 602	109	78.6	85.7		8.70
	Dechlorane 603	140	136	135		1.01
	Dechlorane Plus	113	93.6	93.0		0.701
	Demeton	75.6	86.1	83.5		3.06
	Diazinon	114	112	114		1.39
	Difenoconazole	105	87.4	103		15.9
	Dimethenamid	90.6	90.8	97.7		6.46
	Dimethomorph	93.9	193	161		18.5
	Disulfoton	101	110	106		3.61
	Dithiopyr	105	110	113		2.16
	EPTC	61.2	58.3	48.1		19.2
	Ethion	100	112	96.7		14.9
	Ethoprop	96.0	103	98.8		4.12
	Etridiazole	73.9	67.8	62.0		8.93
	Fenamiphos	80.0	92.3	89.3		3.34
	Fenbuconazole	73.1	76.8	80.6		4.86
	Fipronil	80.9	79.4	80.3		0.913
	Fipronil Desulfinyl	99.5	94.3	97.4		2.84
	Fipronil Sulfide	86.8	91.7	87.8		4.06
	Fipronil Sulfone	83.5	69.7	85.7		18.9
	Fluazifop-P-butyl	68.8	71.7	71.6		0.0938
	Fludioxonil	79.3	90.1	91.5		1.47
	Flumioxazin	160	127	142		11.2
	Flutolanil	83.9	81.3	83.6		2.84
	Fluxapyroxad	91.1	79.8	93.4		13.7
	Fonofos	87.4	96.7	89.2		8.08
	Hexabromobenzene	134	138	129		6.45
	Hexazinone	98.6	103	111		7.28
	Imazalil	64.7	49.1	78.8		46.5
	Iprodione	88.2	89.9	99.1		9.74
	Loratadine	146	141	151		6.92
	Malathion	103	99.7	101		1.11
	Metalaxyl	102	93.3	95.3		1.80
	Metolachlor	89.1	109	113		2.40
	Metribuzin	99.6	107	110		2.75
	Mevinphos	84.3	96.4	90.7		6.04
	Molinate	65.2	64.1	59.4		7.53
	Myclobutanil	107	110	108		1.72
	Naled	37.1	35.9	38.5		7.06
	Napropamide	77.5	70.3	77.9		10.2
	Norflurazon	98.6	95.5	98.3		2.92
	Octinoxate	171	142	104		24.3
	Oxadiazon	86.3	92.1	96.3		4.45
	Oxybenzone	115	128	121		5.41
	Oxyfluorfen	110	121	114		5.39
	Parathion Ethyl	92.7	109	101		7.43
	Parathion Methyl	96.7	110	111		1.12
	PBB-153	143	149	147		1.21
	PBDE-47	119	97.1	100		3.11
	PBDE-99	117	92.4	96.0		3.82

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	151	172	150		13.4
	Pentabromotoluene	115	123	111		10.2
	Phenytoln	147	109	94.9		14.1
	Phorate	107	137	113		19.0
	Prodiamine	78.8	75.3	70.6		6.54
	Prometon	104	95.3	96.1		0.791
	Prometryn	97.2	95.8	109		12.7
	Pronamide	117	118	109		8.00
	Propanil	113	114	116		1.18
	Propargite	95.3	65.4	82.2		22.7
	Propiconazole	78.0	81.9	86.9		5.94
	Pyraflufen Ethyl	61.0	69.9	62.0		12.0
	Pyridaben	85.1	91.9	106		14.4
	Pyriproxyfen	80.1	89.9	94.5		4.97
	Simazine	93.2	111	99.0		11.5
	Stiophos	96.3	76.2	72.1		5.57
	Sulfentrazone	54.8	89.4	101		10.6
	Tebuconazole	87.2	65.0	76.3		16.0
	Terbufos	107	115	106		8.27
	Terbuthylazine	88.3	91.1	91.1		0.0232
	Tetradecachloro-m-terphenyl	180	180	169		6.41
	Thiobencarb	114	108	101		6.28
	Tri-o-cresyl Phosphate	122	134	121		10.0
	Triadimefon	101	117	111		4.66
	Tris(1-chloro-2-propyl) phosphate (TCPP)	99.6	115	90.0		24.5
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	119	125	114		8.99
	Tris(2-chloroethyl) phosphate (TCEP)	116	126	114		9.89
EPA 8321B	2,4-D	104	96.1	87.7		8.33
	2,4,5-T	77.2	93.8	97.3		3.57
	Acesulfame K	122	119	116		2.58
	Acetaminophen	67.4	71.8	72.3		0.692
	Acetamiprid	72.2	54.6	60.4		10.1
	Afidopyropen	69.1	69.9	66.6		4.76
	AMPA	124	73.6	78.6		6.61
	Bentazon	115	53.5	54.2		1.19
	Benzovindiflupyr	89.8	71.1	74.0		4.07
	Carbamazepine	71.4	63.6	68.3		5.89
	Clothianidin	92.6	75.1	77.1		2.52
	Dinotefuran	87.0	66.4	66.7		0.411
	Diuron	85.4	70.2	72.1		2.72
	Endothall	108	110	116		5.38
	Fenuron	82.1	64.4	57.2		12.0
	Fluridone	89.3	88.5	76.0		7.31
	Glufosinate	105	88.2	96.2		8.75
	Glyphosate	98.5	96.6	100		3.88
	Hydrocodone	96.7	60.1	63.7		5.91
	Ibuprofen	79.5	75.9	82.0		7.73
	Imazapyr	92.5	77.2	67.0		11.6
	Imidacloprid	84.6	115	115		0.271
	Linuron	59.8	61.7	73.6		17.7
	Mandestrobin	88.1	89.2	79.7		11.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	MCCP	101	103	101			2.18
	Naproxen	78.7	76.3	75.4			1.29
	Primidone	79.8	71.5	68.2			4.79
	Pyraclostrobin	81.4	86.1	77.5			10.5
	Silvex	103	93.9	88.5			5.89
	Sucralose	97.2	90.1	84.9			5.65
	Thiamethoxam	87.7	82.1	82.5			0.547
	Tolfenpyrad	50.1	56.1	52.9			5.96
	Triclopyr	88.2	95.8	102			5.82
SM 2320 B-2011	Total Alkalinity	98.4				0.292	
SM 2540 C-2015	TDS	96.3				1.69	
SM 2540 D-2015	TSS	92.2					
SM 4500-F- C-2011	Fluoride	98.9	102	102			0.520
SM 5310 B-2011	Organic Carbon	94.7	93.2	94.7			1.24

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2416144
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2416144
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2416173
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2416173
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2416144
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2416144
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2416145
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2416145
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2416145
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2416145
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2416146
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2416177
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2416177
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2416172
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2416144
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2416173
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2416144
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2416144
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2416144
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2416145

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	06/08/2023			06/08/2023 15:33	Samantha L Bates	2416144
EPA 180.1 Rev. 2.0	06/08/2023			06/08/2023 14:59	Anna M. Plaviak	2416144
EPA 200.7 Rev. 4.4	06/08/2023	06/09/2023 12:40	George D Taylor	06/16/2023 14:44	McKinley C Carter	2416173
EPA 200.8 Rev. 5.4	06/08/2023	06/09/2023 12:40	George D Taylor	06/12/2023 18:44	Conrad Hartmann	2416173
	06/08/2023	06/09/2023 12:40	George D Taylor	06/13/2023 16:39	Emily M Philpot	2416173
EPA 300.0 Rev. 2.1	06/08/2023			06/13/2023 21:47	James L Waggeberby	2416144
EPA 350.1 Rev. 2.0	06/08/2023			06/12/2023 15:46	Khloe J Berg	2416145
EPA 351.2 Rev. 2.0	06/08/2023	06/14/2023 12:52	Ping Hua	06/15/2023 14:09	Ping Hua	2416145
EPA 353.2 Rev. 2.0	06/08/2023			06/16/2023 09:14	Beverly Y. Sanders	2416145
EPA 365.1 Rev. 2.0	06/08/2023	06/12/2023 13:00	Alexis Price	06/13/2023 14:17	Simonne.V. Calhoun	2416145
EPA 365.1 Rev. 2.0 dissolved	06/08/2023			06/08/2023 14:09	Adam P Silver	2416146
EPA 8270E	06/08/2023	06/14/2023 08:30	Rasheda Ghaffari	06/16/2023 16:06	Vandana T. Nagar	2416177
	06/08/2023	06/14/2023 08:30	Rasheda Ghaffari	06/16/2023 18:23	Arthur Maknenko	2416177
	06/08/2023	06/14/2023 08:30	Rasheda Ghaffari	06/20/2023 12:47	Vandana T. Nagar	2416177
EPA 8321B	06/08/2023	06/10/2023 20:00	Touraj Touran	06/11/2023 02:02	Touraj Touran	2416172
	06/08/2023	06/10/2023 20:00	Touraj Touran	06/11/2023 11:27	Touraj Touran	2416172
	06/08/2023	06/12/2023 13:00	Hoor Shaik	06/20/2023 01:23	Juyoung Kim	2416172
SM 2320 B-2011	06/08/2023			06/12/2023 18:47	Dale L. Simmons	2416144
SM 2340 B-2011	06/08/2023			06/16/2023 14:44	McKinley C Carter	2416173
SM 2540 C-2015	06/08/2023			06/09/2023 13:09	Dana G. Hughes	2416144
SM 2540 D-2015	06/08/2023			06/09/2023 13:09	Dana G. Hughes	2416144
SM 4500-F- C-2011	06/08/2023			06/21/2023 22:48	Dale L. Simmons	2416144
SM 5310 B-2011	06/08/2023			06/13/2023 03:46	Elise M. Gillis	2416145