

Chemical Analysis Report

SW-DIST-2023-10-19-01

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

Event Description: **SCI on East Canal plus East Canal**
Request ID: **RQ-2023-10-30-45**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 13-NOV-2023 10:40



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: East Canal at Knights Griffen Rd

Collection Date/Time: 10/18/2023 10:15

Field ID: G2SW0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446096	EPA 200.7 Rev. 4.4	Calcium	71.8		mg/L	P436818	
		Iron	320		ug/L	P436818	
		Magnesium	10.4		mg/L	P436818	
		Potassium	25.4		mg/L	P436818	
		Sodium	92.2		mg/L	P436818	
		Strontium	299		ug/L	P436818	
		Tin	3.0	U	ug/L	P436818	
		Titanium	0.75	U	ug/L	P436818	
		Vanadium	3.2	I	ug/L	P436818	
	EPA 200.8 Rev. 5.4	Zinc	19	I	ug/L	P436818	
		Aluminum	18	I	ug/L	P436818	
		Antimony	0.37		ug/L	P436818	
		Arsenic	0.46		ug/L	P436818	
		Barium	12.9		ug/L	P436818	
		Beryllium	0.010	U	ug/L	P436818	
		Boron	233		ug/L	P436818	
		Cadmium	0.020	U	ug/L	P436818	
		Chromium	1.1	I	ug/L	P436818	
		Cobalt	0.446		ug/L	P436818	
		Copper	0.44	I	ug/L	P436818	
		Lead	0.20	U	ug/L	P436818	
		Manganese	12.6		ug/L	P436818	
		Molybdenum	21.2		ug/L	P436818	
		Nickel	0.63	I	ug/L	P436818	
		Selenium	0.20	U	ug/L	P436818	
		Silver	0.010	U	ug/L	P436818	
		Thallium	0.10	U	ug/L	P436818	
	SM 2340 B-2011	Hardness	222		mg/L	P436818	

Ref. Method and Comment:

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for copper are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: East Canal On Cone Ranch

Collection Date/Time: 10/18/2023 12:40

Field ID: G2SW0171

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446088	DEP SOP: NU-094-1	Color (true)	11		PCU	P436770	
	EPA 180.1 Rev. 2.0	Turbidity	2.1	A	NTU	P436772	
	EPA 300.0 Rev. 2.1	Chloride	100		mg Cl/L	P437373	
		Sulfate	120		mg SO4/L	P437377	
	SM 2320 B-2011	Total Alkalinity	213		mg CaCO3/L	P436862	
	SM 2540 C-2015	TDS	572		mg/L	P437261	
	SM 2540 D-2015	TSS	4	I	mg/L	P437212	
	SM 4500-F- C-2011	Fluoride	0.55		mg F/L	P436864	
2446089	EPA 350.1 Rev. 2.0	Ammonia-N	0.040		mg N/L	P436875	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P436781	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P436937	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P436839	
	SM 5310 B-2011	Organic Carbon	5.9		mg C/L	P437014	
2446090	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.077		mg P/L	P436765	
2446095	EPA 8321B	2,4-D	0.0048	I	ug/L	P436749	
		Acesulfame K	0.10	U	ug/L	P436712	
		2,4,5-T	0.0040	U	ug/L	P436749	
		AMPA	0.10	U	ug/L	P436712	
		Acetaminophen	0.0080	U	ug/L	P436749	
		Acetamiprid	0.0020	U	ug/L	P436749	
		Endothall	0.25	U	ug/L	P436712	
		Glufosinate	0.10	U	ug/L	P436712	
		Glyphosate	0.10	U	ug/L	P436712	
		Afidopyrophen	0.0020	U	ug/L	P436749	
		Bentazon	0.024		ug/L	P436749	
		Sucralose	8.2		ug/L	P436712	
		Benzovindiflupyr	0.0020	U	ug/L	P436749	
		Carbamazepine	0.060		ug/L	P436749	
		Clothianidin	0.011		ug/L	P436749	
		Dinotefuran	0.084		ug/L	P436749	
		Diuron	0.022		ug/L	P436749	
		Fenuron	0.032	U	ug/L	P436749	
		Fluridone	8.0E-04	U	ug/L	P436749	
		Imazapyr	0.14		ug/L	P436749	
		Hydrocodone	0.0020	U	ug/L	P436749	
		Ibuprofen	0.080	U	ug/L	P436749	
		Imidacloprid	0.044		ug/L	P436749	
		Linuron	0.0040	U	ug/L	P436749	
		Mandestrobin	0.0020	U	ug/L	P436749	
		MCP	0.0020	U	ug/L	P436749	
		Naproxen	0.0080	U	ug/L	P436749	
		Primidone	0.13		ug/L	P436749	
		Pyraclostrobin	0.0020	U	ug/L	P436749	

MS

Field ID: G2SW0171

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446095	EPA 8321B	Silvex	0.0040	U	ug/L	P436749	
		Thiamethoxam	0.0040	I	ug/L	P436749	
		Tolfenpyrad	0.0020	U	ug/L	P436749	
		Triclopyr	0.0040	U	ug/L	P436749	
2446097	EPA 200.7 Rev. 4.4	Calcium	76.9		mg/L	P436818	
		Iron	150		ug/L	P436818	
		Magnesium	10.7		mg/L	P436818	
		Potassium	29.6		mg/L	P436818	
		Sodium	106		mg/L	P436818	
		Strontium	342		ug/L	P436818	
		Tin	3.0	U	ug/L	P436818	
		Titanium	3.2		ug/L	P436818	
		Vanadium	3.2	I	ug/L	P436818	
		Zinc	16	I	ug/L	P436818	
	EPA 200.8 Rev. 5.4	Aluminum	82		ug/L	P436818	
		Antimony	0.41		ug/L	P436818	
		Arsenic	0.40		ug/L	P436818	
		Barium	14.1		ug/L	P436818	
		Beryllium	0.010	U	ug/L	P436818	
		Boron	273		ug/L	P436818	
		Cadmium	0.020	I	ug/L	P436818	
		Chromium	0.91	I	ug/L	P436818	
		Cobalt	0.449		ug/L	P436818	
		Copper	0.40	U	ug/L	P436818	
		Lead	0.20	U	ug/L	P436818	
		Manganese	7.58		ug/L	P436818	
		Molybdenum	25.2		ug/L	P436818	
		Nickel	0.66	I	ug/L	P436818	
		Selenium	0.28	I	ug/L	P436818	
		Silver	0.010	U	ug/L	P436818	
		Thallium	0.10	U	ug/L	P436818	
	SM 2340 B-2011	Hardness	236		mg/L	P436818	
2446098	EPA 8270E	Oxybenzone**	10	U	ng/L	P436713	
		Acetochlor	0.21	UJ	ng/L	P436713	CCV
		Octinoxate**	160	U	ng/L	P436713	
		Alachlor	0.41	U	ng/L	P436713	
		Avobenzone**	100	U	ng/L	P436713	
		Ametryn	1.1	U	ng/L	P436713	
		Atrazine	61		ng/L	P436713	
		PBDE-47**	4.1	U	ng/L	P436713	
		Atrazine Desethyl	1.3	U	ng/L	P436713	
		PBDE-99**	5.2	U	ng/L	P436713	
		Azinphos Methyl	3.1	U	ng/L	P436713	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P436713	
		Azoxystrobin	4.2	J	ng/L	P436713	

Field ID: G2SW0171

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446098	EPA 8270E	Bromacil	0.62	U	ng/L	P436713	
		2-Ethylhexyl	12	UJ	ng/L	P436713	LCS
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.47	U	ng/L	P436713	
		Dechlorane Plus**	31	U	ng/L	P436713	
		Caffeine**	7.8	U	ng/L	P436713	
		Dechlorane 602**	5.2	U	ng/L	P436713	
		Carbophenothion	0.52	U	ng/L	P436713	
		Dechlorane 603**	4.1	U	ng/L	P436713	
		Carfentrazone Ethyl	0.16	U	ng/L	P436713	
		Hexabromobenzene**	6.2	U	ng/L	P436713	
		Chlorfenapyr	0.31	U	ng/L	P436713	
		PBB-153**	6.2	UJ	ng/L	P436713	LCS
		Chlorpyrifos Ethyl	0.31	U	ng/L	P436713	
		Pentabromotoluene**	3.1	U	ng/L	P436713	
		Chlorpyrifos Methyl	0.10	U	ng/L	P436713	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	U	ng/L	P436713	
		Coumaphos	1.1	U	ng/L	P436713	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	970		ng/L	P436713	
		Cyanazine	5.2	U	ng/L	P436713	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	220		ng/L	P436713	
		Cyprodinil	0.21	U	ng/L	P436713	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P436713	
		Demeton	3.6	U	ng/L	P436713	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P436713	
		Diazinon	0.13	U	ng/L	P436713	
		Difenoconazole	0.62	U	ng/L	P436713	
		Dimethenamid	0.10	U	ng/L	P436713	
		Dimethomorph	2.1		ng/L	P436713	
		Disulfoton	0.62	U	ng/L	P436713	
		Dithiopyr	1.0	U	ng/L	P436713	
		EPTC	0.52	U	ng/L	P436713	
		Ethion	0.31	U	ng/L	P436713	
		Ethoprop	0.13	U	ng/L	P436713	
		Etridiazole	0.10	U	ng/L	P436713	
		Fenamiphos	0.47	U	ng/L	P436713	
		Fenbuconazole	0.52	U	ng/L	P436713	
		Fipronil	0.21	U	ng/L	P436713	
		Fipronil Desulfinyl**	0.29	I	ng/L	P436713	MS
		Fipronil Sulfide	0.45	I	ng/L	P436713	
		Fipronil Sulfone	0.21	I	ng/L	P436713	MS, RPD
		Fluazifop-P-butyl	0.10	U	ng/L	P436713	
		Fludioxonil	2.6		ng/L	P436713	
		Flumioxazin	3.1	U	ng/L	P436713	

Field ID: G2SW0171

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446098	EPA 8270E	Flutolanil	0.25	I	ng/L	P436713	
		Fluxapyroxad	0.26	U	ng/L	P436713	
		Fonofos	0.16	U	ng/L	P436713	
		Hexazinone	81		ng/L	P436713	
		Imazalil	0.67	U	ng/L	P436713	
		Iprodione	0.52	U	ng/L	P436713	
		Loratadine**	3.9		ng/L	P436713	
		Malathion	0.36	U	ng/L	P436713	
		Metalaxyl	0.52	U	ng/L	P436713	
		Metolachlor	0.78	U	ng/L	P436713	
		Metribuzin	0.41	UJ	ng/L	P436713	LCS
		Mevinphos	1.0	U	ng/L	P436713	
		Molinate	0.26	U	ng/L	P436713	
		Myclobutanil	0.36	U	ng/L	P436713	
		Naled	2.6	U	ng/L	P436713	
		Napropamide	0.73	U	ng/L	P436713	
		Norflurazon	3.1	I	ng/L	P436713	
		Oxadiazon	0.49	I	ng/L	P436713	
		Oxyfluorfen	0.21	U	ng/L	P436713	MS, RPD
		Parathion Ethyl	0.16	U	ng/L	P436713	
		Parathion Methyl	0.21	U	ng/L	P436713	
		Pendimethalin	1.8	U	ng/L	P436713	
		Phenytain**	5.5	U	ng/L	P436713	
		Phorate	0.26	U	ng/L	P436713	
		Prodiamine	0.21	UJ	ng/L	P436713	CCV
		Prometon	3.1	U	ng/L	P436713	
		Prometryn	0.36	U	ng/L	P436713	
		Pronamide	0.10	U	ng/L	P436713	
		Propanil	0.10	U	ng/L	P436713	
		Propargite	0.83	U	ng/L	P436713	
		Propiconazole	0.62	U	ng/L	P436713	
		Pyraflufen Ethyl	0.31	U	ng/L	P436713	
		Pyridaben	1.5	U	ng/L	P436713	
		Pyriproxyfen	0.26	U	ng/L	P436713	
		Simazine	4.4		ng/L	P436713	
		Stirophos	0.41	U	ng/L	P436713	
		Sulfentrazone	7.9		ng/L	P436713	MS
		Tebuconazole	4.6	I	ng/L	P436713	
		Terbufos	0.21	U	ng/L	P436713	RPD
		Terbutylazine	0.21	U	ng/L	P436713	
		Thiobencarb	0.52	U	ng/L	P436713	
		Triadimefon	0.16	UJ	ng/L	P436713	LCS

Field ID: G2SW0171

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for copper are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Estimation for azoxystrobin due to internal standard recovery exceeding control limits. 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: P436770

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436772

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436818

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: P436818

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: P437373

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: P437377

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436875

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436781

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436937

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436839

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436765

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

Reference Method: EPA 8270E
Batch ID: P436713

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436713

Component	Result	Code	Units
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436713

Component	Result	Code	Units
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8321B

Batch ID: P436712

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: P436749

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P436749

Component	Result	Code	Units
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	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: P436862

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

Reference Method: SM 2540 C-2015

Batch ID: P437261

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P437212

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P436864

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P437014

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: P436770

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.8		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436772

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436818

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	107		P	85 - 115
Iron	112		P	85 - 115
Magnesium	113		P	85 - 115
Potassium	104		P	85 - 115
Sodium	103		P	85 - 115
Strontium	99.9		P	85 - 115
Tin	99.1		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	99.9		P	85 - 115
Zinc	98.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436818

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	97.5		P	85 - 115
Arsenic	98.7		P	85 - 115
Barium	100		P	85 - 115
Beryllium	94.0		P	85 - 115
Boron	101		P	85 - 115
Cadmium	99.6		P	85 - 115
Chromium	96.2		P	85 - 115
Cobalt	95.3		P	85 - 115
Copper	99.5		P	85 - 115
Lead	91.3		P	85 - 115
Manganese	99.7		P	85 - 115
Molybdenum	97.4		P	85 - 115
Nickel	95.8		P	85 - 115
Selenium	101		P	85 - 115
Silver	105		P	85 - 115
Thallium	98.2		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437373

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437377

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	106		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436875

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436781

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436937

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	93.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436839

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436765

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.4		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P436713

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	73.6		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	20.1		F	37 - 154
Acetochlor	68.0		P	64 - 124
Alachlor	81.1		P	61 - 118
Ametryn	111		P	47 - 158
Atrazine	118		P	68 - 121
Atrazine Desethyl	107		P	30 - 119
Avobenzone	108		P	48 - 193
Azinphos Methyl	53.8		P	30 - 194
Azoxystrobin	85.3		P	58 - 154
Bromacil	93.0		P	47 - 126
Butylate	59.7		P	31 - 83.0
Caffeine	146		P	10 - 180
Carbophenothion	118		P	59 - 133
Carfentrazone Ethyl	95.7		P	59 - 147
Chlorfenapyr	75.2		P	52 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436713

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	108		P	59 - 119
Chlorpyrifos Methyl	99.6		P	65 - 123
Coumaphos	113		P	11 - 223
Cyanazine	88.9		P	63 - 250
Cyprodinil	89.0		P	52 - 143
Dechlorane 602	57.5		P	23 - 142
Dechlorane 603	82.3		P	51 - 171
Dechlorane Plus	75.2		P	46 - 161
Demeton	89.3		P	42 - 119
Diazinon	98.3		P	67 - 132
Difenoconazole	64.5		P	12 - 204
Dimethenamid	83.5		P	53 - 113
Dimethomorph	150		P	13 - 238
Disulfoton	80.3		P	56 - 126
Dithiopyr	91.2		P	58 - 127
EPTC	56.0		P	31 - 78.0
Ethion	63.8		P	24 - 127
Ethoprop	93.4		P	60 - 118
Etridiazole	66.7		P	32 - 91.0
Fenamiphos	112		P	54 - 129
Fenbuconazole	53.1		P	31 - 162
Fipronil	66.2		P	56 - 131
Fipronil Desulfinyl	73.5		P	58 - 132
Fipronil Sulfide	65.7		P	51 - 123
Fipronil Sulfone	90.7		P	50 - 125
Fluazifop-P-butyl	95.4		P	52 - 132
Fludioxonil	82.5		P	52 - 129
Flumioxazin	56.5		P	34 - 250
Flutolanil	71.9		P	45 - 128
Fluxapyroxad	92.6		P	31 - 150
Fonofos	87.8		P	60 - 116
Hexabromobenzene	71.2		P	52 - 165
Hexazinone	108		P	59 - 120
Imazalil	115		P	39 - 134
Iprodione	110		P	39 - 243
Loratadine	147		P	10 - 240
Malathion	125		P	53 - 145
Metalaxyl	93.0		P	59 - 120
Metolachlor	103		P	64 - 122
Metribuzin	12.8		F	33 - 128
Mevinphos	102		P	48 - 119
Molinate	72.5		P	42 - 89.0
Myclobutanil	76.9		P	54 - 129
Naled	51.4		P	10 - 138
Napropamide	73.1		P	40 - 122
Norflurazon	81.3		P	49 - 132
Octinoxate	113		P	29 - 176
Oxadiazon	77.0		P	50 - 115
Oxybenzone	117		P	45 - 145
Oxyfluorfen	99.8		P	62 - 149
Parathion Ethyl	109		P	68 - 119
Parathion Methyl	133		P	68 - 147

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436713

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBB-153	31.3		F	42 - 179
PBDE-47	79.5		P	44 - 141
PBDE-99	51.6		P	36 - 141
Pendimethalin	133		P	59 - 158
Pentabromotoluene	85.3		P	58 - 148
Phenytoin	55.8		P	10 - 151
Phorate	104		P	44 - 124
Prodiamine	54.1		P	10 - 136
Prometon	101		P	45 - 131
Prometryn	92.5		P	52 - 140
Pronamide	106		P	70 - 129
Propanil	116		P	54 - 144
Propargite	87.0		P	10 - 191
Propiconazole	63.7		P	49 - 128
Pyraflufen Ethyl	88.3		P	46 - 141
Pyridaben	90.7		P	29 - 198
Pyriproxyfen	56.0		P	33 - 221
Simazine	108		P	62 - 119
Stirophos	91.6		P	13 - 144
Sulfentrazone	110		P	12 - 152
Tebuconazole	68.0		P	10 - 135
Terbufos	98.5		P	67 - 136
Terbuthylazine	70.6		P	66 - 113
Tetradecachloro-m-terphenyl	132		P	30 - 235
Thiobencarb	93.5		P	51 - 125
Tri-o-cresyl Phosphate	98.3		P	50 - 150
Triadimefon	125		F	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	127		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	99.1		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	107		P	59 - 166

Reference Method: EPA 8321B

Batch ID: P436712

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	84.6		P	40 - 150
AMPA	88.4		P	40 - 160
Endothall	93.9		P	40 - 160
Glufosinate	96.5		P	40 - 160
Glyphosate	99.0		P	40 - 160
Sucralose	90.8		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436749

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	73.5		P	40 - 150
2,4,5-T	76.8		P	40 - 150
Acetaminophen	95.7		P	30 - 150
Acetamiprid	89.0		P	40 - 150
Afidopyropen	82.5		P	30 - 150
Bentazon	97.0		P	30 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P436749

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	87.8		P	40 - 150
Carbamazepine	84.6		P	40 - 150
Clothianidin	95.4		P	40 - 150
Dinotefuran	105		P	40 - 150
Diuron	80.7		P	40 - 150
Fenuron	98.5		P	40 - 150
Fluridone	95.8		P	40 - 150
Hydrocodone	100		P	40 - 150
Ibuprofen	84.3		P	40 - 150
Imazapyr	88.2		P	40 - 150
Imidacloprid	87.4		P	40 - 150
Linuron	82.0		P	40 - 150
Mandestrobin	86.4		P	40 - 150
MCPP	89.4		P	40 - 150
Naproxen	70.2		P	40 - 150
Primidone	94.0		P	40 - 150
Pyraclostrobin	87.9		P	40 - 150
Silvex	83.2		P	40 - 150
Thiamethoxam	95.3		P	40 - 150
Tolfenpyrad	62.5		P	30 - 150
Triclopyr	79.2		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P436862

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.1		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P437261

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	107		P	85 - 115

Reference Method: SM 2540 D-2015

Batch ID: P437212

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.0		P	85 - 115

Reference Method: SM 4500-F- C-2011

Batch ID: P436864

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.6		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P437014

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P436818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446026	Calcium	105		P	80 - 120
2446026	Iron	109	110	P/P	80 - 120
2446026	Magnesium	109	110	P/P	80 - 120
2446026	Potassium	101	102	P/P	80 - 120
2446026	Sodium	101		P	80 - 120
2446026	Strontium	98.7	98.5	P/P	80 - 120
2446026	Tin	95.9	95.8	P/P	80 - 120
2446026	Titanium	99.9	98.8	P/P	80 - 120
2446026	Vanadium	98.0	98.1	P/P	80 - 120
2446026	Zinc	96.2	96.4	P/P	80 - 120
2446070	Calcium	101		P	80 - 120
2446070	Iron	108		P	80 - 120
2446070	Magnesium	104		P	80 - 120
2446070	Potassium	102		P	80 - 120
2446070	Sodium	105		P	80 - 120
2446070	Strontium	96.6		P	80 - 120
2446070	Tin	94.6		P	80 - 120
2446070	Titanium	99.0		P	80 - 120
2446070	Vanadium	96.9		P	80 - 120
2446070	Zinc	92.4		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446026	Aluminum	98.2	98.9	P/P	80 - 120
2446026	Antimony	96.1	95.8	P/P	80 - 120
2446026	Arsenic	99.1	97.8	P/P	80 - 120
2446026	Barium	101	99.1	P/P	80 - 120
2446026	Beryllium	95.4	96.5	P/P	80 - 120
2446026	Boron	100	102	P/P	80 - 120
2446026	Cadmium	98.8	97.0	P/P	80 - 120
2446026	Chromium	96.4	96.1	P/P	80 - 120
2446026	Cobalt	95.1	95.1	P/P	80 - 120
2446026	Copper	98.1	97.0	P/P	80 - 120
2446026	Lead	92.2	92.5	P/P	80 - 120
2446026	Manganese	98.6	97.7	P/P	80 - 120
2446026	Molybdenum	96.5	96.2	P/P	80 - 120
2446026	Nickel	96.3	96.5	P/P	80 - 120
2446026	Selenium	98.3	98.8	P/P	80 - 120
2446026	Silver	102	101	P/P	80 - 120
2446026	Thallium	101	101	P/P	80 - 120
2446070	Aluminum	99.6		P	80 - 120
2446070	Antimony	98.6		P	80 - 120
2446070	Arsenic	100		P	80 - 120
2446070	Barium	101		P	80 - 120
2446070	Beryllium	91.4		P	80 - 120
2446070	Boron	107		P	80 - 120
2446070	Cadmium	98.2		P	80 - 120
2446070	Chromium	94.6		P	80 - 120
2446070	Cobalt	94.5		P	80 - 120
2446070	Lead	92.9		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446070	Manganese	101		P	80 - 120
2446070	Molybdenum	98.8		P	80 - 120
2446070	Nickel	94.7		P	80 - 120
2446070	Selenium	100		P	80 - 120
2446070	Silver	101		P	80 - 120
2446070	Thallium	102		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P437373

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446031	Chloride	105		P	90 - 110
2446235	Chloride	107		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P437377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446031	Sulfate	105		P	90 - 110
2446235	Sulfate	106		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P436875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446089	Ammonia-N	102	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P436781

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446021	Kjeldahl Nitrogen	103	110	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P436937

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445929	NO2NO3-N	93.0	91.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P436839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446089	Total-P	105	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P436765

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445930	O-Phosphate-P	106	97.7	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436713

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445500	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	56.1	61.8	P/P	50 - 150
2445500	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	74.6	72.8	P/P	29 - 155
2445500	Acetochlor	88.0	83.6	P/P	60 - 124
2445500	Alachlor	76.0	101	P/P	54 - 122
2445500	Ametryn	98.0	75.3	P/P	51 - 208
2445500	Atrazine	108	104	P/P	57 - 131
2445500	Atrazine Desethyl	74.4	81.8	P/P	13 - 124
2445500	Avobenzone	92.2	103	P/P	35 - 187
2445500	Azinphos Methyl	148	174	P/P	43 - 276
2445500	Azoxystrobin	87.1	96.6	P/P	52 - 300
2445500	Bromacil	80.1	59.1	P/P	44 - 134
2445500	Butylate	70.7	74.8	P/P	23 - 82.0
2445500	Caffeine	110	118	P/P	10 - 277
2445500	Carbophenothion	66.3	69.7	P/P	47 - 135
2445500	Carfentrazone Ethyl	69.4	74.7	P/P	46 - 147
2445500	Chlorfenapyr	77.2	61.7	P/P	43 - 114
2445500	Chlorpyrifos Ethyl	72.2	60.9	P/P	47 - 124
2445500	Chlorpyrifos Methyl	84.4	70.8	P/P	60 - 135
2445500	Coumaphos	74.8	73.8	P/P	10 - 222
2445500	Cyanazine	102	93.6	P/P	10 - 257
2445500	Cyprodinil	78.3	83.6	P/P	42 - 148
2445500	Dechlorane 602	40.1	41.4	P/P	14 - 133
2445500	Dechlorane 603	76.0	80.1	P/P	18 - 191
2445500	Dechlorane Plus	71.9	65.2	P/P	23 - 154
2445500	Demeton	98.5	119	P/P	41 - 137
2445500	Diazinon	88.4	89.4	P/P	64 - 139
2445500	Difenoconazole	145	123	P/P	46 - 254
2445500	Dimethenamid	85.8	87.0	P/P	47 - 117
2445500	Dimethomorph	199	172	P/P	14 - 255
2445500	Disulfoton	112	83.9	P/P	52 - 130
2445500	Dithiopyr	84.5	66.4	P/P	40 - 121
2445500	EPTC	59.6	51.7	P/P	19 - 78.0
2445500	Ethion	62.4	58.7	P/P	12 - 124
2445500	Ethoprop	102	101	P/P	68 - 144
2445500	Etridiazole	79.3	84.9	P/P	26 - 96.0
2445500	Fenamiphos	74.4	53.0	P/P	41 - 129
2445500	Fenbuconazole	74.9	84.9	P/P	26 - 169
2445500	Fipronil	69.9	51.4	P/P	46 - 145
2445500	Fipronil Desulfinyl	58.8	46.4	P/F	47 - 136
2445500	Fipronil Sulfide	59.1	45.2	P/P	41 - 127
2445500	Fipronil Sulfone	141	80.3	F/P	35 - 133
2445500	Fluazifop-P-butyl	72.1	57.8	P/P	46 - 131
2445500	Fludioxonil	86.6	64.8	P/P	51 - 124
2445500	Flumioxazin	154	140	P/P	10 - 289
2445500	Flutolanil	71.2	62.0	P/P	34 - 130
2445500	Fluxapyroxad	137	93.3	P/P	10 - 197
2445500	Fonofos	90.8	69.9	P/P	42 - 131
2445500	Hexabromobenzene	88.5	93.7	P/P	47 - 178
2445500	Hexazinone	104	99.1	P/P	64 - 125
2445500	Imazalil	58.0	43.0	P/P	37 - 252
2445500	Iprodione	89.4	73.3	P/P	34 - 265
2445500	Loratadine	64.0	66.9	P/P	20 - 231

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436713

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445500	Malathion	125	99.5	P/P	34 - 164
2445500	Metalaxyl	93.2	112	P/P	49 - 125
2445500	Metolachlor	91.5	68.9	P/P	54 - 125
2445500	Metribuzin	51.2	81.5	P/P	51 - 139
2445500	Mevinphos	96.2	94.8	P/P	46 - 130
2445500	Molinate	65.9	83.8	P/P	39 - 93.0
2445500	Myclobutanil	103	94.5	P/P	50 - 130
2445500	Naled	55.4	62.4	P/P	10 - 150
2445500	Napropamide	69.8	72.1	P/P	10 - 109
2445500	Norflurazon	70.9	64.9	P/P	36 - 134
2445500	Octinoxate	101	101	P/P	18 - 170
2445500	Oxadiazon	65.8	53.5	P/P	43 - 112
2445500	Oxybenzone	109	103	P/P	33 - 154
2445500	Oxyfluorfen	183	117	F/P	62 - 154
2445500	Parathion Ethyl	115	114	P/P	65 - 120
2445500	Parathion Methyl	107	91.4	P/P	77 - 185
2445500	PBB-153	72.6	86.6	P/P	23 - 193
2445500	PBDE-47	62.6	59.3	P/P	31 - 139
2445500	PBDE-99	55.1	58.8	P/P	24 - 138
2445500	Pendimethalin	113	109	P/P	50 - 146
2445500	Pentabromotoluene	85.6	84.2	P/P	54 - 152
2445500	Phenytoin	42.0	44.6	P/P	10 - 157
2445500	Phorate	134	131	P/P	54 - 161
2445500	Prodiamine	65.7	62.1	P/P	29 - 160
2445500	Prometon	145	134	P/P	38 - 145
2445500	Prometryn	91.9	84.3	P/P	32 - 151
2445500	Pronamide	124	105	P/P	61 - 140
2445500	Propanil	99.8	99.2	P/P	50 - 147
2445500	Propargite	93.6	80.6	P/P	10 - 190
2445500	Propiconazole	73.4	58.7	P/P	30 - 146
2445500	Pyraflufen Ethyl	47.1	46.8	P/P	30 - 147
2445500	Pyridaben	146	98.1	P/P	15 - 195
2445500	Pyriproxyfen	79.9	76.0	P/P	31 - 218
2445500	Simazine	112	104	P/P	45 - 139
2445500	Stirophos	58.9	55.5	P/P	10 - 134
2445500	Sulfentrazone	46.2	41.9	F/F	53 - 186
2445500	Tebuconazole	53.1	42.3	P/P	10 - 133
2445500	Terbufos	116	83.7	P/P	65 - 151
2445500	Terbutylazine	111	89.0	P/P	62 - 117
2445500	Tetradecachloro-m-terphenyl	143	137	P/P	10 - 260
2445500	Thiobencarb	96.2	82.8	P/P	48 - 122
2445500	Tri-o-cresyl Phosphate	94.3	96.6	P/P	32 - 151
2445500	Triadimefon	66.2	61.7	P/P	46 - 124
2445500	Tris(1-chloro-2-propyl) phosphate (TCPP)	122	118	P/P	51 - 154
2445500	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	91.9	84.5	P/P	59 - 147
2445500	Tris(2-chloroethyl) phosphate (TCEP)	97.5	112	P/P	65 - 156

Reference Method: EPA 8321B

Batch ID: P436712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445805	Acesulfame K	103	110	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P436712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445805	AMPA	52.7	49.7	P/P	40 - 160
2445805	Endothall	96.6	98.0	P/P	40 - 160
2445805	Glufosinate	83.4	81.9	P/P	40 - 160
2445805	Glyphosate	102	101	P/P	40 - 160
2445805	Sucralose	99.5	100	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436749

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445740	2,4-D	90.0	92.7	P/P	40 - 150
2445740	2,4,5-T	104	107	P/P	40 - 150
2445740	Acetaminophen	76.6	81.4	P/P	30 - 150
2445740	Acetamiprid	57.2	58.4	P/P	40 - 150
2445740	Afidopyropen	77.5	71.8	P/P	30 - 150
2445740	Bentazon	41.4	31.5	P/P	30 - 150
2445740	Benzovindiflupyr	75.8	75.4	P/P	40 - 150
2445740	Carbamazepine	59.0	55.9	P/P	40 - 150
2445740	Clothianidin	62.6	66.0	P/P	40 - 150
2445740	Dinotefuran	64.2	67.6	P/P	40 - 150
2445740	Diuron	44.7	49.6	P/P	40 - 150
2445740	Fenuron	39.8	39.5	F/F	40 - 150
2445740	Fluridone	60.8	57.5	P/P	40 - 150
2445740	Hydrocodone	62.7	64.0	P/P	40 - 150
2445740	Ibuprofen	64.3	70.7	P/P	40 - 150
2445740	Imazapyr	68.6	58.3	P/P	40 - 150
2445740	Imidacloprid	89.3	89.2	P/P	40 - 150
2445740	Linuron	59.9	60.2	P/P	40 - 150
2445740	Mandestrobin	78.2	79.2	P/P	40 - 150
2445740	MCPP	101	108	P/P	40 - 150
2445740	Naproxen	61.2	62.3	P/P	40 - 150
2445740	Primidone	57.5	59.8	P/P	40 - 150
2445740	Pyraclostrobin	73.5	74.7	P/P	40 - 150
2445740	Silvex	96.9	103	P/P	40 - 150
2445740	Thiamethoxam	71.8	74.1	P/P	40 - 150
2445740	Tolfenpyrad	52.0	52.0	P/P	30 - 150
2445740	Triclopyr	98.9	110	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P436864

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445705	Fluoride	100	99.8	P/P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P437014

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446089	Organic Carbon	96.5	98.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446234	Color (true)	7.66	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446088	Turbidity	5.61	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436818

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446026	Calcium	0.0104	Spike	P	0 - 20
2446026	Iron	0.722	Spike	P	0 - 20
2446026	Magnesium	0.444	Spike	P	0 - 20
2446026	Potassium	0.818	Spike	P	0 - 20
2446026	Sodium	0.00965	Spike	P	0 - 20
2446026	Strontium	0.285	Spike	P	0 - 20
2446026	Tin	0.0207	Spike	P	0 - 20
2446026	Titanium	1.08	Spike	P	0 - 20
2446026	Vanadium	0.142	Spike	P	0 - 20
2446026	Zinc	0.193	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436818

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446026	Aluminum	0.637	Spike	P	0 - 20
2446026	Antimony	0.339	Spike	P	0 - 20
2446026	Arsenic	1.35	Spike	P	0 - 20
2446026	Barium	1.39	Spike	P	0 - 20
2446026	Beryllium	1.14	Spike	P	0 - 20
2446026	Boron	1.34	Spike	P	0 - 20
2446026	Cadmium	1.89	Spike	P	0 - 20
2446026	Chromium	0.253	Spike	P	0 - 20
2446026	Cobalt	0.0237	Spike	P	0 - 20
2446026	Copper	1.13	Spike	P	0 - 20
2446026	Lead	0.294	Spike	P	0 - 20
2446026	Manganese	0.798	Spike	P	0 - 20
2446026	Molybdenum	0.273	Spike	P	0 - 20
2446026	Nickel	0.238	Spike	P	0 - 20
2446026	Selenium	0.525	Spike	P	0 - 20
2446026	Silver	0.691	Spike	P	0 - 20
2446026	Thallium	0.234	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437373

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446031	Chloride	0.646	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446031	Sulfate	1.02	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446089	Ammonia-N	0.768	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436781

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446021	Kjeldahl Nitrogen	4.29	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445929	NO2NO3-N	2.17	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446089	Total-P	1.46	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436765

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445930	O-Phosphate-P	8.34	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P436713

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445500	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	9.58	Spike	P	0 - 30
2445500	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	2.38	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P436713

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445500	Acetochlor	5.14	Spike	P	0 - 28
2445500	Alachlor	27.8	Spike	P	0 - 30
2445500	Ametryn	26.1	Spike	P	0 - 32
2445500	Atrazine	4.01	Spike	P	0 - 33
2445500	Atrazine Desethyl	9.58	Spike	P	0 - 36
2445500	Avobenzone	11.5	Spike	P	0 - 35
2445500	Azinphos Methyl	15.7	Spike	P	0 - 62
2445500	Azoxystrobin	9.87	Spike	P	0 - 39
2445500	Bromacil	30.2	Spike	P	0 - 33
2445500	Butylate	5.57	Spike	P	0 - 51
2445500	Caffeine	6.56	Spike	P	0 - 100
2445500	Carbophenothion	5.03	Spike	P	0 - 34
2445500	Carfentrazone Ethyl	7.34	Spike	P	0 - 33
2445500	Chlorfenapyr	22.4	Spike	P	0 - 28
2445500	Chlorpyrifos Ethyl	16.9	Spike	P	0 - 31
2445500	Chlorpyrifos Methyl	17.5	Spike	P	0 - 27
2445500	Coumaphos	1.33	Spike	P	0 - 62
2445500	Cyanazine	8.52	Spike	P	0 - 48
2445500	Cyprodinil	6.62	Spike	P	0 - 29
2445500	Dechlorane 602	3.13	Spike	P	0 - 60
2445500	Dechlorane 603	5.31	Spike	P	0 - 40
2445500	Dechlorane Plus	9.80	Spike	P	0 - 38
2445500	Demeton	19.0	Spike	P	0 - 33
2445500	Diazinon	1.13	Spike	P	0 - 32
2445500	Difenoconazole	16.6	Spike	P	0 - 71
2445500	Dimethenamid	1.35	Spike	P	0 - 60
2445500	Dimethomorph	14.9	Spike	P	0 - 61
2445500	Disulfoton	28.5	Spike	P	0 - 30
2445500	Dithiopyr	24.0	Spike	P	0 - 28
2445500	EPTC	14.3	Spike	P	0 - 56
2445500	Ethion	6.22	Spike	P	0 - 79
2445500	Ethoprop	1.52	Spike	P	0 - 31
2445500	Etridiazole	6.85	Spike	P	0 - 43
2445500	Fenamiphos	28.9	Spike	P	0 - 43
2445500	Fenbuconazole	12.4	Spike	P	0 - 79
2445500	Fipronil	30.5	Spike	P	0 - 46
2445500	Fipronil Desulfinyl	23.5	Spike	P	0 - 36
2445500	Fipronil Sulfide	26.7	Spike	P	0 - 34
2445500	Fipronil Sulfone	54.8	Spike	F	0 - 47
2445500	Fluazifop-P-butyl	22.0	Spike	P	0 - 38
2445500	Fludioxonil	28.8	Spike	P	0 - 29
2445500	Flumioxazin	9.52	Spike	P	0 - 63
2445500	Flutolanil	13.1	Spike	P	0 - 36
2445500	Fluxapyroxad	37.9	Spike	P	0 - 65
2445500	Fonofos	25.9	Spike	P	0 - 35
2445500	Hexabromobenzene	5.77	Spike	P	0 - 41
2445500	Hexazinone	5.26	Spike	P	0 - 31
2445500	Imazalil	29.7	Spike	P	0 - 52
2445500	Iprodione	19.9	Spike	P	0 - 49
2445500	Loratadine	4.52	Spike	P	0 - 59
2445500	Malathion	22.8	Spike	P	0 - 77

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P436713

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445500	Metalaxyl	18.0	Spike	P	0 - 76
2445500	Metolachlor	23.0	Spike	P	0 - 29
2445500	Metribuzin	45.6	Spike	P	0 - 51
2445500	Mevinphos	1.45	Spike	P	0 - 31
2445500	Molinate	24.0	Spike	P	0 - 39
2445500	Myclobutanil	8.37	Spike	P	0 - 34
2445500	Naled	12.0	Spike	P	0 - 37
2445500	Napropamide	3.29	Spike	P	0 - 100
2445500	Norflurazon	8.87	Spike	P	0 - 54
2445500	Octinoxate	0.192	Spike	P	0 - 35
2445500	Oxadiazon	20.6	Spike	P	0 - 34
2445500	Oxybenzone	5.04	Spike	P	0 - 35
2445500	Oxyfluorfen	44.2	Spike	F	0 - 28
2445500	Parathion Ethyl	0.972	Spike	P	0 - 31
2445500	Parathion Methyl	15.2	Spike	P	0 - 29
2445500	PBB-153	17.5	Spike	P	0 - 49
2445500	PBDE-47	5.40	Spike	P	0 - 36
2445500	PBDE-99	6.46	Spike	P	0 - 46
2445500	Pendimethalin	3.42	Spike	P	0 - 31
2445500	Pentabromotoluene	1.68	Spike	P	0 - 16
2445500	Phenytoin	6.16	Spike	P	0 - 100
2445500	Phorate	1.92	Spike	P	0 - 36
2445500	Prodiamine	5.67	Spike	P	0 - 68
2445500	Prometon	7.63	Spike	P	0 - 35
2445500	Prometryn	8.65	Spike	P	0 - 33
2445500	Pronamide	16.5	Spike	P	0 - 24
2445500	Propanil	0.683	Spike	P	0 - 28
2445500	Propargite	14.9	Spike	P	0 - 53
2445500	Propiconazole	22.3	Spike	P	0 - 44
2445500	Pyraflufen Ethyl	0.406	Spike	P	0 - 61
2445500	Pyridaben	39.3	Spike	P	0 - 43
2445500	Pyriproxyfen	4.99	Spike	P	0 - 82
2445500	Simazine	7.75	Spike	P	0 - 29
2445500	Stirophos	5.97	Spike	P	0 - 100
2445500	Sulfentrazone	9.84	Spike	P	0 - 64
2445500	Tebuconazole	18.0	Spike	P	0 - 76
2445500	Terbufos	32.4	Spike	F	0 - 29
2445500	Terbuthylazine	22.1	Spike	P	0 - 28
2445500	Tetradecachloro-m-terphenyl	4.24	Spike	P	0 - 42
2445500	Thiobencarb	15.0	Spike	P	0 - 26
2445500	Tri-o-cresyl Phosphate	2.38	Spike	P	0 - 24
2445500	Triadimefon	7.06	Spike	P	0 - 40
2445500	Tris(1-chloro-2-propyl) phosphate (TCPP)	3.66	Spike	P	0 - 30
2445500	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	8.36	Spike	P	0 - 22
2445500	Tris(2-chloroethyl) phosphate (TCEP)	13.5	Spike	P	0 - 15

Reference Method: EPA 8321B

Batch ID: P436712

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

Reference Method: EPA 8321B
Batch ID: P436712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445805	Acesulfame K	6.67	Spike	P	0 - 30
2445805	AMPA	3.71	Spike	P	0 - 30
2445805	Endothall	1.39	Spike	P	0 - 30
2445805	Glufosinate	1.78	Spike	P	0 - 30
2445805	Glyphosate	0.240	Spike	P	0 - 30
2445805	Sucralose	0.810	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436749

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445740	2,4-D	2.01	Spike	P	0 - 30
2445740	2,4,5-T	2.99	Spike	P	0 - 30
2445740	Acetaminophen	6.04	Spike	P	0 - 30
2445740	Acetamiprid	2.11	Spike	P	0 - 30
2445740	Afidopyropen	7.54	Spike	P	0 - 30
2445740	Bentazon	4.38	Spike	P	0 - 30
2445740	Benzovindiflupyr	0.636	Spike	P	0 - 30
2445740	Carbamazepine	5.47	Spike	P	0 - 30
2445740	Clothianidin	5.28	Spike	P	0 - 30
2445740	Dinotefuran	5.11	Spike	P	0 - 30
2445740	Diuron	8.10	Spike	P	0 - 30
2445740	Fenuron	0.765	Spike	P	0 - 30
2445740	Fluridone	4.13	Spike	P	0 - 30
2445740	Hydrocodone	2.11	Spike	P	0 - 30
2445740	Ibuprofen	9.52	Spike	P	0 - 30
2445740	Imazapyr	6.38	Spike	P	0 - 30
2445740	Imidacloprid	0.116	Spike	P	0 - 30
2445740	Linuron	0.396	Spike	P	0 - 30
2445740	Mandestrobin	1.34	Spike	P	0 - 30
2445740	MCPP	6.35	Spike	P	0 - 30
2445740	Naproxen	1.79	Spike	P	0 - 30
2445740	Primidone	3.90	Spike	P	0 - 30
2445740	Pyraclostrobin	1.60	Spike	P	0 - 30
2445740	Silvex	6.26	Spike	P	0 - 30
2445740	Thiamethoxam	3.19	Spike	P	0 - 30
2445740	Tolfenpyrad	0.113	Spike	P	0 - 30
2445740	Triclopyr	11.0	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P436862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445705	Total Alkalinity	1.99	Sample	P	0 - 3.9

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P437261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446029	TDS	7.64	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436864

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445705	Fluoride	0.480	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P437014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446089	Organic Carbon	1.81	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2446095
Field Sample ID: G2SW0171

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	106	P	30 - 160
EPA 8321B	Acetaminophen-d4	76.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	65.9	P	30 - 160
EPA 8321B	Diuron-d6	48.2	P	30 - 160
EPA 8321B	Endothall-d6	81.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	71.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.8	P	30 - 160
EPA 8321B	Primidone-d5	74.4	P	30 - 160
EPA 8321B	Sucralose-d6	88.8	P	30 - 160

Lab Sample ID: 2446098
Field Sample ID: G2SW0171

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	67.6	P	20 - 200
EPA 8270E	Simazine-d10	91.5	P	58 - 137
EPA 8270E	Terbufos-d10	92.5	P	50 - 134
EPA 8270E	Terphenyl-d14	114	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A122247

Included Lab Sample IDs: 2446090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.1	97.7	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A122250

Included Lab Sample IDs: 2446088

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.8	99.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122251

Included Lab Sample IDs: 2446088

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105

Reference Method: SM 2320 B-2011

Run ID: A122285

Included Lab Sample IDs: 2446088

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.0	95.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A122285

Included Lab Sample IDs: 2446088

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122292

Included Lab Sample IDs: 2446089

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	97.7	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A122295

Included Lab Sample IDs: 2446096, 2446097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	104	P/P	90 - 110
Calcium	104	103	P/P	90 - 110
Iron	102	103	P/P	90 - 110
Iron	103	102	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Sodium	100	100	P/P	90 - 110
Sodium	99.8	100	P/P	90 - 110
Strontium	98.8	99.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A122295

Included Lab Sample IDs: 2446096, 2446097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Strontium	99.0	98.8	P/P	90 - 110
Tin	100	101	P/P	90 - 110
Tin	101	101	P/P	90 - 110
Titanium	99.4	99.7	P/P	90 - 110
Titanium	99.7	99.3	P/P	90 - 110
Vanadium	99.5	99.0	P/P	90 - 110
Vanadium	99.6	99.5	P/P	90 - 110
Zinc	100	99.9	P/P	90 - 110
Zinc	101	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122297

Included Lab Sample IDs: 2446096, 2446097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	100	101	P/P	90 - 110
Antimony	96.3	95.0	P/P	90 - 110
Arsenic	96.8	98.0	P/P	90 - 110
Barium	97.3	96.8	P/P	90 - 110
Beryllium	98.2	95.5	P/P	90 - 110
Boron	96.9	106	P/P	90 - 110
Cadmium	98.2	98.8	P/P	90 - 110
Chromium	97.6	96.8	P/P	90 - 110
Cobalt	94.9	96.1	P/P	90 - 110
Copper	97.1	97.0	P/P	90 - 110
Lead	91.7	92.2	P/P	90 - 110
Manganese	98.9	98.6	P/P	90 - 110
Molybdenum	96.7	97.4	P/P	90 - 110
Nickel	95.0	96.7	P/P	90 - 110
Selenium	99.6	97.6	P/P	90 - 110
Silver	96.8	97.3	P/P	90 - 110
Thallium	97.8	98.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122307

Included Lab Sample IDs: 2446095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	94.0	97.3	P/P	60 - 160
Sucralose	95.8	104	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122310

Included Lab Sample IDs: 2446089

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.9	98.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122313

Included Lab Sample IDs: 2446089

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	94.0	92.5	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A122320

Included Lab Sample IDs: 2446096, 2446097

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122322

Included Lab Sample IDs: 2446089

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.4	95.3	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A122330

Included Lab Sample IDs: 2446098

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	94.5		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	88.8		P	80 - 120
Avobenzene	89.6		P	80 - 120
Dechlorane 602	98.3		P	80 - 120
Dechlorane 603	93.8		P	80 - 120
Dechlorane Plus	94.0		P	80 - 120
Hexabromobenzene	91.0		P	80 - 120
Octinoxate	90.6		P	80 - 120
Oxybenzone	93.2		P	80 - 120
PBB-153	87.2		P	80 - 120
PBDE-47	89.3		P	80 - 120
PBDE-99	88.5		P	80 - 120
Pentabromotoluene	96.0		P	80 - 120
Tetradecachloro-m-terphenyl	90.4		P	80 - 120
Tri-o-cresyl Phosphate	94.0		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	97.6		P	80 - 120

Reference Method: EPA 8321B

Run ID: A122336

Included Lab Sample IDs: 2446095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	91.0	94.4	P/P	60 - 160
Endothall	85.6	89.6	P/P	60 - 160
Glufosinate	86.0	89.8	P/P	60 - 160
Glyphosate	92.7	94.4	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122346
Included Lab Sample IDs: 2446095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	76.9	81.4	P/P	50 - 150
2,4,5-T	87.1	76.3	P/P	50 - 150
Acetaminophen	105	104	P/P	60 - 160
Acetamiprid	110	108	P/P	50 - 150
Afidopyropen	114	109	P/P	50 - 150
Bentazon	105	96.1	P/P	50 - 160
Benzovindiflupyr	106	106	P/P	50 - 150
Carbamazepine	105	97.3	P/P	60 - 150
Clothianidin	112	104	P/P	60 - 150
Dinotefuran	111	111	P/P	50 - 150
Diuron	109	112	P/P	60 - 160
Fenuron	113	112	P/P	60 - 150
Fluridone	123	121	P/P	60 - 160
Hydrocodone	117	119	P/P	60 - 150
Ibuprofen	121	73.8	P/P	50 - 160
Imazapyr	93.6	88.6	P/P	50 - 150
Imidacloprid	99.0	98.7	P/P	60 - 150
Linuron	109	106	P/P	60 - 150
Mandestrobin	107	109	P/P	50 - 150
MCPP	92.1	81.6	P/P	50 - 150
Naproxen	76.6	79.4	P/P	50 - 160
Primidone	96.9	105	P/P	60 - 150
Pyraclostrobin	108	106	P/P	60 - 150
Silvex	86.5	91.2	P/P	50 - 150
Thiamethoxam	113	111	P/P	50 - 150
Tolfenpyrad	101	103	P/P	60 - 150
Triclopyr	88.2	80.5	P/P	50 - 150

Reference Method: SM 5310 B-2011
Run ID: A122369
Included Lab Sample IDs: 2446089

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.5	98.4	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A122479
Included Lab Sample IDs: 2446088

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	103	P/P	90 - 110
Sulfate	100	103	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A122480
Included Lab Sample IDs: 2446098

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tris(1-chloro-2-propyl) phosphate (TCPP)	95.6		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A122612
 Included Lab Sample IDs: 2446098

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	79.0*		F	80 - 120
Alachlor	90.3		P	80 - 120
Ametryn	117		P	80 - 120
Atrazine	99.4		P	80 - 120
Atrazine Desethyl	101		P	80 - 120
Azinphos Methyl	104		P	80 - 120
Azoxystrobin	94.1		P	80 - 120
Bromacil	92.4		P	80 - 120
Butylate	109		P	80 - 120
Caffeine	102		P	80 - 120
Carbophenothion	105		P	80 - 120
Carfentrazone Ethyl	93.5		P	80 - 120
Chlorfenapyr	89.4		P	80 - 120
Chlorpyrifos Ethyl	83.0		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	113		P	80 - 120
Cyanazine	91.3		P	80 - 120
Cyprodinil	84.0		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	93.4		P	80 - 120
Difenoconazole	105		P	80 - 120
Dimethenamid	85.3		P	80 - 120
Dimethomorph	111		P	80 - 120
Disulfoton	96.3		P	80 - 120
Dithiopyr	97.0		P	80 - 120
EPTC	109		P	80 - 120
Ethion	93.0		P	80 - 120
Ethoprop	94.4		P	80 - 120
Etridiazole	97.2		P	80 - 120
Fenamiphos	84.7		P	80 - 120
Fenbuconazole	87.8		P	80 - 120
Fipronil	87.9		P	80 - 120
Fipronil Desulfinyl	83.2		P	80 - 120
Fipronil Sulfide	109		P	80 - 120
Fipronil Sulfone	103		P	80 - 120
Fluazifop-P-butyl	111		P	80 - 120
Fludioxonil	97.2		P	80 - 120
Flumioxazin	118		P	80 - 120
Flutolanil	90.6		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	86.2		P	80 - 120
Hexazinone	95.5		P	80 - 120
Imazalil	95.0		P	80 - 120
Iprodione	80.9		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	80.9		P	80 - 120
Metalaxyl	111		P	80 - 120
Metolachlor	94.1		P	80 - 120
Metribuzin	110		P	80 - 120
Mevinphos	104		P	80 - 120
Molinate	98.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122612
Included Lab Sample IDs: 2446098

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Myclobutanil	89.8		P	80 - 120
Naled	96.6		P	80 - 120
Napropamide	94.9		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	93.9		P	80 - 120
Oxyfluorfen	102		P	80 - 120
Parathion Ethyl	94.1		P	80 - 120
Parathion Methyl	94.5		P	80 - 120
Pendimethalin	98.6		P	80 - 120
Phenytol	85.8		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	60.0*		F	80 - 120
Prometon	107		P	80 - 120
Prometryn	97.3		P	80 - 120
Pronamide	92.1		P	80 - 120
Propanil	100		P	80 - 120
Propargite	94.9		P	80 - 120
Propiconazole	95.0		P	80 - 120
Pyraflufen Ethyl	118		P	80 - 120
Pyridaben	97.3		P	80 - 120
Pyriproxyfen	93.1		P	80 - 120
Simazine	101		P	80 - 120
Stirophos	112		P	80 - 120
Sulfentrazone	98.4		P	80 - 120
Tebuconazole	93.7		P	80 - 120
Terbufos	104		P	80 - 120
Terbuthylazine	86.4		P	80 - 120
Thiobencarb	91.6		P	80 - 120
Triadimefon	105		P	80 - 120

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	97.8					7.66	
EPA 180.1 Rev. 2.0	Turbidity	104					5.61	
EPA 200.7 Rev. 4.4	Calcium	107	105	101				0.0104
	Iron	112	109	110	108			0.722
	Magnesium	113	109	110	104			0.444
	Potassium	104	101	102	102			0.818
	Sodium	103	101	105				0.0096
	Strontium	99.9	98.7	98.5	96.6			0.285
	Tin	99.1	95.9	95.8	94.6			0.0207
	Titanium	101	99.9	98.8	99.0			1.08
	Vanadium	99.9	98.0	98.1	96.9			0.142
	Zinc	98.9	92.4	96.2	96.4			0.193
EPA 200.8 Rev. 5.4	Aluminum	101	98.2	98.9	99.6			0.637
	Antimony	97.5	96.1	95.8	98.6			0.339
	Arsenic	98.7	99.1	97.8	100			1.35
	Barium	100	101	99.1	101			1.39
	Beryllium	94.0	91.4	95.4	96.5			1.14
	Boron	101	100	102	107			1.34
	Cadmium	99.6	98.8	97.0	98.2			1.89
	Chromium	96.2	96.4	96.1	94.6			0.253
	Cobalt	95.3	95.1	95.1	94.5			0.0237
	Copper	99.5	98.1	97.0				1.13
	Lead	91.3	92.2	92.5	92.9			0.294
	Manganese	99.7	98.6	97.7	101			0.798
	Molybdenum	97.4	96.5	96.2	98.8			0.273
	Nickel	95.8	96.3	96.5	94.7			0.238
	Selenium	101	98.3	98.8	100			0.525
	Silver	105	102	101	101			0.691
	Thallium	98.2	101	101	102			0.234
EPA 300.0 Rev. 2.1	Chloride	105	105	107			0.646	
	Sulfate	106	105	106			1.02	
EPA 350.1 Rev. 2.0	Ammonia-N	98.0	102	103				0.768
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.8	103	110				4.29
EPA 353.2 Rev. 2.0	NO2NO3-N	93.5	93.0	91.0				2.17
EPA 365.1 Rev. 2.0	Total-P	104	105	103				1.46
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.4	106	97.7				8.34
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	73.6	56.1	61.8				9.58
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	20.1	74.6	72.8				2.38
	Acetochlor	68.0	88.0	83.6				5.14
	Alachlor	81.1	76.0	101				27.8
	Ametryn	111	98.0	75.3				26.1
	Atrazine	118	108	104				4.01
	Atrazine Desethyl	107	74.4	81.8				9.58
	Avobenzone	108	92.2	103				11.5
	Azinphos Methyl	53.8	148	174				15.7
	Azoxystrobin	85.3	87.1	96.6				9.87
	Bromacil	93.0	80.1	59.1				30.2
	Butylate	59.7	70.7	74.8				5.57
	Caffeine	146	110	118				6.56
	Carbophenothion	118	66.3	69.7				5.03
	Carfentrazone Ethyl	95.7	69.4	74.7				7.34

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorfenapyr	75.2	77.2	61.7			22.4
	Chlorpyrifos Ethyl	108	72.2	60.9			16.9
	Chlorpyrifos Methyl	99.6	84.4	70.8			17.5
	Coumaphos	113	74.8	73.8			1.33
	Cyanazine	88.9	102	93.6			8.52
	Cyprodinil	89.0	78.3	83.6			6.62
	Dechlorane 602	57.5	40.1	41.4			3.13
	Dechlorane 603	82.3	76.0	80.1			5.31
	Dechlorane Plus	75.2	71.9	65.2			9.80
	Demeton	89.3	98.5	119			19.0
	Diazinon	98.3	88.4	89.4			1.13
	Difenoconazole	64.5	145	123			16.6
	Dimethenamid	83.5	85.8	87.0			1.35
	Dimethomorph	150	199	172			14.9
	Disulfoton	80.3	112	83.9			28.5
	Dithiopyr	91.2	84.5	66.4			24.0
	EPTC	56.0	59.6	51.7			14.3
	Ethion	63.8	62.4	58.7			6.22
	Ethoprop	93.4	102	101			1.52
	Etridiazole	66.7	79.3	84.9			6.85
	Fenamiphos	112	74.4	53.0			28.9
	Fenbuconazole	53.1	74.9	84.9			12.4
	Fipronil	66.2	69.9	51.4			30.5
	Fipronil Desulfinyl	73.5	58.8	46.4			23.5
	Fipronil Sulfide	65.7	59.1	45.2			26.7
	Fipronil Sulfone	90.7	141	80.3			54.8
	Fluazifop-P-butyl	95.4	72.1	57.8			22.0
	Fludioxonil	82.5	86.6	64.8			28.8
	Flumioxazin	56.5	154	140			9.52
	Flutolanil	71.9	71.2	62.0			13.1
	Fluxapyroxad	92.6	137	93.3			37.9
	Fonofos	87.8	90.8	69.9			25.9
	Hexabromobenzene	71.2	88.5	93.7			5.77
	Hexazinone	108	104	99.1			5.26
	Imazalil	115	58.0	43.0			29.7
	Iprodione	110	89.4	73.3			19.9
	Loratadine	147	64.0	66.9			4.52
	Malathion	125	125	99.5			22.8
	Metalaxyl	93.0	93.2	112			18.0
	Metolachlor	103	91.5	68.9			23.0
	Metribuzin	12.8	51.2	81.5			45.6
	Mevinphos	102	96.2	94.8			1.45
	Molinate	72.5	65.9	83.8			24.0
	Myclobutanil	76.9	103	94.5			8.37
	Naled	51.4	55.4	62.4			12.0
	Napropamide	73.1	69.8	72.1			3.29
	Norflurazon	81.3	70.9	64.9			8.87
	Octinoxate	113	101	101			0.192
	Oxadiazon	77.0	65.8	53.5			20.6
	Oxybenzone	117	103	109			5.04
	Oxyfluorfen	99.8	183	117			44.2
	Parathion Ethyl	109	115	114			0.972
	Parathion Methyl	133	107	91.4			15.2
	PBB-153	31.3	72.6	86.6			17.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	PBDE-47	79.5	62.6	59.3		5.40
	PBDE-99	51.6	55.1	58.8		6.46
	Pendimethalin	133	113	109		3.42
	Pentabromotoluene	85.3	85.6	84.2		1.68
	Phenytoin	55.8	42.0	44.6		6.16
	Phorate	104	134	131		1.92
	Prodiamine	54.1	65.7	62.1		5.67
	Prometon	101	145	134		7.63
	Prometryn	92.5	91.9	84.3		8.65
	Pronamide	106	124	105		16.5
	Propanil	116	99.8	99.2		0.683
	Propargite	87.0	93.6	80.6		14.9
	Propiconazole	63.7	73.4	58.7		22.3
	Pyraflufen Ethyl	88.3	47.1	46.8		0.406
	Pyridaben	90.7	146	98.1		39.3
	Pyriproxyfen	56.0	79.9	76.0		4.99
	Simazine	108	112	104		7.75
	Stirophos	91.6	58.9	55.5		5.97
	Sulfentrazone	110	46.2	41.9		9.84
	Tebuconazole	68.0	53.1	42.3		18.0
	Terbufos	98.5	116	83.7		32.4
	Terbutylazine	70.6	111	89.0		22.1
	Tetradecachloro-m-terphenyl	132	143	137		4.24
	Thiobencarb	93.5	96.2	82.8		15.0
	Tri-o-cresyl Phosphate	98.3	94.3	96.6		2.38
	Triadimefon	125	66.2	61.7		7.06
	Tris(1-chloro-2-propyl) phosphate (TCPP)	127	122	118		3.66
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	99.1	91.9	84.5		8.36
	Tris(2-chloroethyl) phosphate (TCEP)	107	97.5	112		13.5
EPA 8321B	2,4-D	73.5	90.0	92.7		2.01
	2,4,5-T	76.8	104	107		2.99
	Acesulfame K	84.6	103	110		6.67
	Acetaminophen	95.7	76.6	81.4		6.04
	Acetamiprid	89.0	57.2	58.4		2.11
	Afidopyropen	82.5	77.5	71.8		7.54
	AMPA	88.4	52.7	49.7		3.71
	Bentazon	97.0	41.4	31.5		4.38
	Benzovindiflupyr	87.8	75.8	75.4		0.636
	Carbamazepine	84.6	59.0	55.9		5.47
	Clothianidin	95.4	62.6	66.0		5.28
	Dinotefuran	105	64.2	67.6		5.11
	Diuron	80.7	44.7	49.6		8.10
	Endothall	93.9	96.6	98.0		1.39
	Fenuron	98.5	39.8	39.5		0.765
	Fluridone	95.8	60.8	57.5		4.13
	Glufosinate	96.5	83.4	81.9		1.78
	Glyphosate	99.0	102	101		0.240
	Hydrocodone	100	62.7	64.0		2.11
	Ibuprofen	84.3	64.3	70.7		9.52
	Imazapyr	88.2	68.6	58.3		6.38
	Imidacloprid	87.4	89.3	89.2		0.116

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Linuron	82.0	59.9	60.2		0.396
	Mandestrobin	86.4	78.2	79.2		1.34
	MCP	89.4	101	108		6.35
	Naproxen	70.2	61.2	62.3		1.79
	Primidone	94.0	57.5	59.8		3.90
	Pyraclostrobin	87.9	73.5	74.7		1.60
	Silvex	83.2	96.9	103		6.26
	Sucralose	90.8	99.5	100		0.810
	Thiamethoxam	95.3	71.8	74.1		3.19
	Tolfenpyrad	62.5	52.0	52.0		0.113
	Triclopyr	79.2	98.9	110		11.0
SM 2320 B-2011	Total Alkalinity	97.1			1.99	
SM 2540 C-2015	TDS	107			7.64	
SM 2540 D-2015	TSS	92.0				
SM 4500-F- C-2011	Fluoride	99.6	100	99.8		0.480
SM 5310 B-2011	Organic Carbon	96.4	96.5	98.8		1.81

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2446088
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2446088
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2446096, 2446097
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2446096, 2446097
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2446088
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2446088
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2446089
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2446089
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2446089
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2446089
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2446090
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2446098
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2446098
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2446095
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2446088
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2446096, 2446097
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2446088
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2446088
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2446088
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2446089

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	10/19/2023			10/19/2023 15:09	Anna M. Plaviak	2446088
EPA 180.1 Rev. 2.0	10/19/2023			10/19/2023 14:08	Samantha L Bates	2446088
EPA 200.7 Rev. 4.4	10/19/2023	10/20/2023 12:45	George D Taylor	10/23/2023 17:14	Chase Roberts	2446096
	10/19/2023	10/20/2023 12:45	George D Taylor	10/23/2023 17:48	Chase Roberts	2446097
	10/19/2023	10/20/2023 12:45	George D Taylor	10/24/2023 15:11	Chase Roberts	2446096
	10/19/2023	10/20/2023 12:45	George D Taylor	10/24/2023 15:27	Chase Roberts	2446097
EPA 200.8 Rev. 5.4	10/19/2023	10/20/2023 12:45	George D Taylor	10/23/2023 18:29	Conrad Hartmann	2446096
	10/19/2023	10/20/2023 12:45	George D Taylor	10/23/2023 18:39	Conrad Hartmann	2446097
EPA 300.0 Rev. 2.1	10/19/2023			11/02/2023 10:33	James L Waggenerby	2446088
EPA 350.1 Rev. 2.0	10/19/2023			10/23/2023 13:43	Ping Hua	2446089
EPA 351.2 Rev. 2.0	10/19/2023	10/20/2023 11:17	Simonne.V. Calhoun	10/24/2023 16:01	Samantha L Bates	2446089
EPA 353.2 Rev. 2.0	10/19/2023			10/23/2023 16:15	Fadila Guebre	2446089
EPA 365.1 Rev. 2.0	10/19/2023	10/23/2023 13:55	Simonne.V. Calhoun	10/24/2023 12:15	Simonne.V. Calhoun	2446089
EPA 365.1 Rev. 2.0 dissolved	10/19/2023			10/19/2023 14:46	Adam P Silver	2446090
EPA 8270E	10/19/2023	10/20/2023 08:00	Fe-Val Siddell	10/23/2023 22:44	Vandana T. Nagar	2446098
	10/19/2023	10/20/2023 08:00	Fe-Val Siddell	10/24/2023 21:58	Arthur Maknenko	2446098
	10/19/2023	10/20/2023 08:00	Fe-Val Siddell	10/31/2023 19:26	Arthur Maknenko	2446098
EPA 8321B	10/19/2023	10/20/2023 12:00	Hana Lee	10/23/2023 13:29	Tae K Lee	2446095
	10/19/2023	10/20/2023 12:00	Hana Lee	10/23/2023 15:36	Tae K Lee	2446095
	10/19/2023	10/20/2023 12:00	Hana Lee	10/24/2023 03:40	Tae K Lee	2446095
	10/19/2023	10/24/2023 08:30	Hoor Shaik	10/25/2023 00:27	Juyoung Kim	2446095
SM 2320 B-2011	10/19/2023			10/21/2023 01:19	Chandler E Cox	2446088
SM 2340 B-2011	10/19/2023			10/23/2023 17:14	Chase Roberts	2446096
	10/19/2023			10/23/2023 17:48	Chase Roberts	2446097
SM 2540 C-2015	10/19/2023			10/24/2023 15:22	Yijie Li	2446088
SM 2540 D-2015	10/19/2023			10/24/2023 15:22	Yijie Li	2446088
SM 4500-F- C-2011	10/19/2023			10/21/2023 01:19	Chandler E Cox	2446088
SM 5310 B-2011	10/19/2023			10/25/2023 14:41	Elise M. Gillis	2446089