

Chemical Analysis Report

NW-DIST-2023-04-13-02

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

Event Description: **SCI**
Request ID: **RQ-2023-04-10-39**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 04-MAY-2023 15:30



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: Cowdevil Creek upstream of CR-196

Collection Date/Time: 04/12/2023 11:00

Field ID: G5NW0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400055	DEP SOP: NU-094-1	Color (true)	49		PCU	P428462	
	EPA 180.1 Rev. 2.0	Turbidity	8.7		NTU	P428491	
	EPA 300.0 Rev. 2.1	Chloride	5.0		mg Cl/L	P428766	
		Sulfate	1.3		mg SO4/L	P428769	
	SM 2320 B-2011	Total Alkalinity	2.5		mg CaCO3/L	P428655	
	SM 2540 C-2015	TDS	23	I	mg/L	P428693	
	SM 2540 D-2015	TSS	6	I	mg/L	P428803	
2400056	SM 4500-F- C-2011	Fluoride	0.028	I	mg F/L	P428929	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P428647	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.21		mg N/L	P428477	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	I	mg N/L	P428854	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P428517	
2400057	SM 5310 B-2011	Organic Carbon	3.7		mg C/L	P428607	
2400057	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P428446	
2400061	EPA 8321B	2,4-D	0.0020	U	ug/L	P428433	
		Acesulfame K	0.10	U	ug/L	P428312	
		2,4,5-T	0.0040	U	ug/L	P428433	
		AMPA	0.10	U	ug/L	P428312	
		Acetaminophen	0.0080	U	ug/L	P428433	
		Acetamiprid	0.0020	U	ug/L	P428433	
		Endothall	0.25	U	ug/L	P428312	
		Glufosinate	0.10	U	ug/L	P428312	
		Glyphosate	0.10	U	ug/L	P428312	
		Afidopyrophen	0.0020	U	ug/L	P428433	
		Bentazon	8.0E-04	U	ug/L	P428433	
		Sucralose	0.052		ug/L	P428312	
		Benzovindiflupyr	0.0020	U	ug/L	P428433	
		Carbamazepine	8.0E-04	U	ug/L	P428433	
		Clothianidin	0.0020	U	ug/L	P428433	
		Dinotefuran	0.0020	U	ug/L	P428433	
		Diuron	0.0020	U	ug/L	P428433	
		Fenuron	0.032	U	ug/L	P428433	MS
		Fluridone	8.0E-04	U	ug/L	P428433	
		Imazapyr	0.0040	U	ug/L	P428433	
		Hydrocodone	0.0020	U	ug/L	P428433	
		Ibuprofen	0.080	U	ug/L	P428433	
		Imidacloprid	0.0020	U	ug/L	P428433	
		Linuron	0.0040	U	ug/L	P428433	
		Mandestrobin	0.0020	U	ug/L	P428433	
		MCP	0.0020	U	ug/L	P428433	
		Naproxen	0.0080	U	ug/L	P428433	
		Primidone	0.0040	U	ug/L	P428433	
		Pyraclostrobin	0.0020	U	ug/L	P428433	

Field ID: G5NW0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400061	EPA 8321B	Silvex	0.0040	U	ug/L	P428433	
		Thiamethoxam	0.0020	U	ug/L	P428433	
		Tolfenpyrad	0.0020	U	ug/L	P428433	
		Triclopyr	0.0040	U	ug/L	P428433	
2400062	EPA 200.7 Rev. 4.4	Calcium	1.43		mg/L	P428501	
		Iron	2.73E+03		ug/L	P428501	
		Magnesium	0.61		mg/L	P428501	
		Potassium	0.30	U	mg/L	P428501	
		Sodium	2.7		mg/L	P428501	
		Strontium	5.7	I	ug/L	P428501	
		Tin	3.0	U	ug/L	P428501	
		Titanium	1.1	I	ug/L	P428501	
		Vanadium	2.0	U	ug/L	P428501	
		Zinc	5.0	U	ug/L	P428501	
	EPA 200.8 Rev. 5.4	Aluminum	224		ug/L	P428501	
		Antimony	0.050	U	ug/L	P428501	
		Arsenic	0.51		ug/L	P428501	
		Barium	12.3		ug/L	P428501	
		Beryllium	0.038	I	ug/L	P428501	
		Boron	10.7		ug/L	P428501	
		Cadmium	0.020	U	ug/L	P428501	
		Chromium	0.52	I	ug/L	P428501	
		Cobalt	0.307		ug/L	P428501	
		Copper	0.40	U	ug/L	P428501	
		Lead	0.31	I	ug/L	P428501	
		Manganese	35.3		ug/L	P428501	
		Molybdenum	0.15	U	ug/L	P428501	
		Nickel	0.50	U	ug/L	P428501	
		Selenium	0.20	U	ug/L	P428501	
		Silver	0.010	U	ug/L	P428501	
		Thallium	0.10	U	ug/L	P428501	
		Hardness	6.1		mg/L	P428501	
2400063	SM 2340 B-2011	Oxybenzone**	11	U	ng/L	P428413	
	EPA 8270E	Acetochlor	0.22	UJ	ng/L	P428413	CCV
		Octinoxate**	22	U	ng/L	P428413	
		Alachlor	0.43	U	ng/L	P428413	
		Avobenzone**	110	U	ng/L	P428413	
		Ametryn	1.2	U	ng/L	P428413	
		Atrazine	2.9		ng/L	P428413	
		PBDE-47**	4.3	U	ng/L	P428413	
		Atrazine Desethyl	1.4	U	ng/L	P428413	
		PBDE-99**	5.4	U	ng/L	P428413	
		Azinphos Methyl	3.2	U	ng/L	P428413	
		Tri-o-cresyl Phosphate**	6.5	U	ng/L	P428413	
		Azoxystrobin	0.43	U	ng/L	P428413	

Field ID: G5NW0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400063	EPA 8270E	Bromacil	0.65	U	ng/L	P428413	RPD
		2-Ethylhexyl	13	U	ng/L	P428413	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.22	U	ng/L	P428413	
		Dechlorane Plus**	32	U	ng/L	P428413	
		Caffeine**	58		ng/L	P428413	
		Dechlorane 602**	5.4	U	ng/L	P428413	
		Carbophenothion	0.54	U	ng/L	P428413	
		Dechlorane 603**	4.3	U	ng/L	P428413	
		Carfentrazone Ethyl	0.16	U	ng/L	P428413	
		Hexabromobenzene**	6.5	U	ng/L	P428413	
		Chlorfenapyr	0.32	U	ng/L	P428413	
		PBB-153**	8.6	U	ng/L	P428413	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P428413	
		Pentabromotoluene**	3.2	U	ng/L	P428413	
		Chlorpyrifos Methyl	0.11	U	ng/L	P428413	
		Tris(2-chloroethyl) phosphate (TCEP)**	76	U	ng/L	P428413	
		Coumaphos	1.1	U	ng/L	P428413	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	16	U	ng/L	P428413	
		Cyanazine	5.4	U	ng/L	P428413	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.7	U	ng/L	P428413	
		Cyprodinil	0.22	U	ng/L	P428413	
		Tetradecachloro-m-terphenyl**	8.1	U	ng/L	P428413	
		Demeton	3.8	U	ng/L	P428413	
		Diazinon	0.13	U	ng/L	P428413	
		Difenoconazole	0.65	U	ng/L	P428413	
		Dimethenamid	0.11	U	ng/L	P428413	
		Dimethomorph	0.32	U	ng/L	P428413	
		Disulfoton	0.65	U	ng/L	P428413	
		Dithiopyr	1.1	U	ng/L	P428413	
		EPTC	0.54	U	ng/L	P428413	
		Ethion	0.32	U	ng/L	P428413	
		Ethoprop	0.13	U	ng/L	P428413	
		Etridiazole	0.11	U	ng/L	P428413	
		Fenamiphos	0.49	U	ng/L	P428413	
		Fenbuconazole	0.54	U	ng/L	P428413	
		Fipronil	0.22	U	ng/L	P428413	
		Fipronil Desulfinyl**	0.11	U	ng/L	P428413	
		Fipronil Sulfide	0.11	U	ng/L	P428413	
		Fipronil Sulfone	0.11	U	ng/L	P428413	
		Fluazifop-P-butyl	0.11	U	ng/L	P428413	
		Fludioxonil	0.11	U	ng/L	P428413	
		Flumioxazin	3.2	U	ng/L	P428413	
		Flutolanil	0.11	U	ng/L	P428413	
		Fluxapyroxad	0.27	U	ng/L	P428413	

Field ID: G5NW0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2400063	EPA 8270E	Fonofos	0.16	U	ng/L	P428413	RPD
		Hexazinone	0.54	U	ng/L	P428413	
		Imazalil	0.70	U	ng/L	P428413	
		Iprodione	0.54	U	ng/L	P428413	
		Loratadine**	0.32	U	ng/L	P428413	
		Malathion	0.38	U	ng/L	P428413	
		Metalaxyl	0.54	U	ng/L	P428413	
		Metolachlor	0.81	U	ng/L	P428413	
		Metribuzin	0.43	U	ng/L	P428413	MS, RPD
		Mevinphos	1.1	U	ng/L	P428413	
		Molinate	0.27	U	ng/L	P428413	
		Myclobutanil	0.38	U	ng/L	P428413	
		Naled	2.7	U	ng/L	P428413	
		Napropamide	0.76	UJ	ng/L	P428413	CCV
		Norflurazon	1.1	U	ng/L	P428413	
		Oxadiazon	0.38	U	ng/L	P428413	
		Oxyfluorfen	0.22	U	ng/L	P428413	
		Parathion Ethyl	0.16	U	ng/L	P428413	
		Parathion Methyl	0.22	U	ng/L	P428413	
		Pendimethalin	0.81	U	ng/L	P428413	
		Phenytol**	5.7	U	ng/L	P428413	
		Phorate	0.27	U	ng/L	P428413	
		Prodiamine	0.22	U	ng/L	P428413	
		Prometon	3.2	U	ng/L	P428413	
		Prometryn	0.38	U	ng/L	P428413	
		Pronamide	0.11	U	ng/L	P428413	
		Propanil	0.11	U	ng/L	P428413	
		Propargite	0.86	U	ng/L	P428413	
		Propiconazole	0.65	U	ng/L	P428413	
		Pyraflufen Ethyl	0.32	U	ng/L	P428413	
		Pyridaben	1.5	U	ng/L	P428413	
		Pyriproxyfen	0.27	U	ng/L	P428413	
		Simazine	0.27	U	ng/L	P428413	
		Stirophos	0.43	U	ng/L	P428413	
		Sulfentrazone	1.5	U	ng/L	P428413	
		Tebuconazole	1.5	U	ng/L	P428413	
		Terbufos	0.22	U	ng/L	P428413	
		Terbuthylazine	0.22	U	ng/L	P428413	
		Thiobencarb	0.54	U	ng/L	P428413	
		Triadimefon	0.16	UJ	ng/L	P428413	CCV

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: 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: P428462

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428491

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P428501

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: P428501

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: P428766

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: P428769

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428647

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428477

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428854

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428517

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P428446

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

Reference Method: EPA 8270E
Batch ID: P428413

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428413

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: P428413

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: P428413

Component	Result	Code	Units
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	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: P428413

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: P428312

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: P428433

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
Afidopyproden	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: P428433

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: P428655

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

Reference Method: SM 2540 C-2015

Batch ID: P428693

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P428803

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P428929

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P428607

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: P428462

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428491

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P428501

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	105		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	104		P	85 - 115
Sodium	104		P	85 - 115
Strontium	99.6		P	85 - 115
Tin	103		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P428501

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	105		P	85 - 115
Arsenic	101		P	85 - 115
Barium	103		P	85 - 115
Beryllium	99.1		P	85 - 115
Boron	103		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	105		P	85 - 115
Cobalt	107		P	85 - 115
Copper	103		P	85 - 115
Lead	108		P	85 - 115
Manganese	106		P	85 - 115
Molybdenum	102		P	85 - 115
Nickel	105		P	85 - 115
Selenium	97.4		P	85 - 115
Silver	109		P	85 - 115
Thallium	100		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428766

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428769

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428647

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428477

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.2		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428854

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428517

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: P428446

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.5		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P428413

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.6		P	42 - 162
Acetochlor	82.9		P	69 - 123
Alachlor	95.7		P	65 - 118
Ametryn	113		P	58 - 141
Atrazine	93.1		P	73 - 118
Atrazine Desethyl	102		P	32 - 125
Avobenzone	118		P	40 - 203
Azinphos Methyl	83.3		P	36 - 197
Azoxystrobin	118		P	58 - 226
Bromacil	106		P	48 - 120
Butylate	57.0		P	27 - 85.0
Caffeine	112		P	40 - 137
Carbophenothion	108		P	54 - 132
Carfentrazone Ethyl	106		P	60 - 142
Chlorfenapyr	92.0		P	53 - 117
Chlorpyrifos Ethyl	84.4		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P428413

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	99.8		P	66 - 119
Coumaphos	116		P	11 - 234
Cyanazine	142		P	61 - 248
Cyprodinil	97.0		P	50 - 147
Dechlorane 602	96.7		P	50 - 150
Dechlorane 603	86.9		P	50 - 150
Dechlorane Plus	114		P	47 - 182
Demeton	100		P	30 - 138
Diazinon	114		P	67 - 126
Difenoconazole	102		P	38 - 205
Dimethenamid	105		P	57 - 111
Dimethomorph	165		P	16 - 212
Disulfoton	96.9		P	46 - 126
Dithiopyr	108		P	62 - 115
EPTC	56.0		P	28 - 80.0
Ethion	47.4		P	24 - 122
Ethoprop	92.9		P	62 - 113
Etridiazole	47.5		P	28 - 92.0
Fenamiphos	77.9		P	57 - 128
Fenbuconazole	99.2		P	52 - 155
Fipronil	105		P	63 - 130
Fipronil Desulfinyl	107		P	61 - 130
Fipronil Sulfide	114		P	56 - 117
Fipronil Sulfone	101		P	52 - 118
Fluazifop-P-butyl	71.6		P	61 - 128
Fludioxonil	92.7		P	59 - 129
Flumioxazin	131		P	30 - 250
Flutolanil	91.7		P	53 - 127
Fluxapyroxad	96.3		P	42 - 132
Fonofos	105		P	61 - 110
Hexabromobenzene	116		P	50 - 150
Hexazinone	87.9		P	46 - 139
Imazalil	97.9		P	40 - 139
Iprodione	82.9		P	40 - 146
Loratadine	159		P	10 - 224
Malathion	96.4		P	61 - 135
Metalaxyl	97.8		P	58 - 121
Metolachlor	112		P	64 - 118
Metribuzin	111		P	45 - 245
Mevinphos	87.7		P	49 - 118
Molinate	57.1		P	42 - 92.0
Myclobutanil	97.8		P	55 - 127
Naled	45.5		P	10 - 114
Napropamide	78.9		P	39 - 121
Norflurazon	83.6		P	55 - 129
Octinoxate	98.6		P	26 - 166
Oxadiazon	96.1		P	54 - 115
Oxybenzone	93.0		P	49 - 135
Oxyfluorfen	106		P	64 - 139
Parathion Ethyl	95.9		P	70 - 111
Parathion Methyl	92.3		P	76 - 136
PBB-153	102		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P428413

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	97.5		P	41 - 148
PBDE-99	89.3		P	38 - 147
Pendimethalin	106		P	52 - 118
Pentabromotoluene	103		P	50 - 150
Phenytoin	40.4		P	10 - 162
Phorate	97.5		P	40 - 122
Prodiamine	70.4		P	26 - 141
Prometon	57.4		P	54 - 122
Prometryn	124		P	61 - 128
Pronamide	115		P	72 - 121
Propanil	108		P	45 - 144
Propargite	71.3		P	10 - 199
Propiconazole	60.9		P	56 - 127
Pyraflufen Ethyl	74.9		P	56 - 140
Pyridaben	103		P	26 - 211
Pyriproxyfen	93.7		P	33 - 194
Simazine	89.5		P	67 - 121
Stirophos	64.5		P	20 - 142
Sulfentrazone	73.2		P	21 - 144
Tebuconazole	57.3		P	10 - 122
Terbufos	111		P	60 - 129
Terbutylazine	86.4		P	69 - 113
Tetradecachloro-m-terphenyl	159		P	70 - 200
Thiobencarb	102		P	51 - 120
Tri-o-cresyl Phosphate	106		P	49 - 150
Triadimefon	105		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	105		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	91.7		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	102		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P428312

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.8		P	40 - 150
AMPA	118		P	40 - 150
Endothall	89.3		P	40 - 150
Glufosinate	98.7		P	40 - 150
Glyphosate	124		P	40 - 150
Sucralose	112		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P428433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	98.4		P	40 - 150
2,4,5-T	84.6		P	40 - 150
Acetaminophen	69.2		P	30 - 150
Acetamiprid	79.1		P	40 - 150
Afidopyropen	58.0		P	30 - 150
Bentazon	80.6		P	30 - 150
Benzovindiflupyr	81.4		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P428433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	78.5		P	40 - 150
Clothianidin	82.7		P	40 - 150
Dinotefuran	88.1		P	40 - 150
Diuron	99.6		P	40 - 150
Fenuron	79.1		P	40 - 150
Fluridone	64.9		P	40 - 150
Hydrocodone	83.7		P	40 - 150
Ibuprofen	59.7		P	40 - 150
Imazapyr	87.2		P	40 - 150
Imidacloprid	82.3		P	40 - 150
Linuron	70.3		P	40 - 150
Mandestrobin	83.2		P	40 - 150
MCPP	96.8		P	40 - 150
Naproxen	66.0		P	40 - 150
Primidone	83.8		P	40 - 150
Pyraclostrobin	74.4		P	40 - 150
Silvex	100		P	40 - 150
Thiamethoxam	80.2		P	40 - 150
Tolfenpyrad	53.0		P	30 - 150
Triclopyr	95.8		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P428655

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.4		P	94 - 106

Reference Method: SM 2540 C-2015

Batch ID: P428693

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.7		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P428803

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.9		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P428929

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

Reference Method: SM 5310 B-2011

Batch ID: P428607

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P428501

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400047	Calcium	101		P	80 - 120
2400047	Iron	105	105	P/P	80 - 120
2400047	Magnesium	103		P	80 - 120
2400047	Potassium	101	103	P/P	80 - 120
2400047	Sodium	104	107	P/P	80 - 120
2400047	Strontium	98.6	100	P/P	80 - 120
2400047	Tin	98.8	101	P/P	80 - 120
2400047	Titanium	101	101	P/P	80 - 120
2400047	Vanadium	101	102	P/P	80 - 120
2400047	Zinc	100	99.9	P/P	80 - 120
2400258	Calcium	103		P	80 - 120
2400258	Iron	103		P	80 - 120
2400258	Magnesium	106		P	80 - 120
2400258	Potassium	102		P	80 - 120
2400258	Sodium	105		P	80 - 120
2400258	Strontium	100		P	80 - 120
2400258	Tin	99.4		P	80 - 120
2400258	Titanium	103		P	80 - 120
2400258	Vanadium	103		P	80 - 120
2400258	Zinc	105		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P428501

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400047	Aluminum	103	105	P/P	80 - 120
2400047	Antimony	108	109	P/P	80 - 120
2400047	Arsenic	102	103	P/P	80 - 120
2400047	Barium	102	104	P/P	80 - 120
2400047	Beryllium	96.1	93.7	P/P	80 - 120
2400047	Boron	106	104	P/P	80 - 120
2400047	Cadmium	105	104	P/P	80 - 120
2400047	Chromium	106	105	P/P	80 - 120
2400047	Cobalt	104	103	P/P	80 - 120
2400047	Copper	99.9	101	P/P	80 - 120
2400047	Lead	106	107	P/P	80 - 120
2400047	Manganese	104	106	P/P	80 - 120
2400047	Molybdenum	104	105	P/P	80 - 120
2400047	Nickel	101	103	P/P	80 - 120
2400047	Selenium	96.3	97.4	P/P	80 - 120
2400047	Silver	110	109	P/P	80 - 120
2400047	Thallium	99.1	106	P/P	80 - 120
2400258	Aluminum	101		P	80 - 120
2400258	Antimony	105		P	80 - 120
2400258	Arsenic	101		P	80 - 120
2400258	Barium	99.6		P	80 - 120
2400258	Beryllium	95.8		P	80 - 120
2400258	Boron	106		P	80 - 120
2400258	Cadmium	104		P	80 - 120
2400258	Chromium	108		P	80 - 120
2400258	Cobalt	107		P	80 - 120
2400258	Copper	105		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P428501

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400258	Lead	108		P	80 - 120
2400258	Manganese	103		P	80 - 120
2400258	Molybdenum	102		P	80 - 120
2400258	Nickel	104		P	80 - 120
2400258	Selenium	96.5		P	80 - 120
2400258	Silver	108		P	80 - 120
2400258	Thallium	99.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P428766

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400028	Chloride	104		P	90 - 110
2400031	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P428769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400028	Sulfate	102		P	90 - 110
2400031	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P428647

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400043	Ammonia-N	97.0	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P428477

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399944	Kjeldahl Nitrogen	100	89.8	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P428854

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400032	NO2NO3-N	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P428517

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400056	Total-P	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P428446

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399968	O-Phosphate-P	102	102	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P428413

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400163	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	81.0	90.3	P/P	26 - 165
2400163	Acetochlor	69.8	72.5	P/P	67 - 124
2400163	Alachlor	105	111	P/P	60 - 120
2400163	Ametryn	115	107	P/P	54 - 216
2400163	Atrazine	80.4	69.8	P/P	66 - 128
2400163	Atrazine Desethyl	95.5	101	P/P	15 - 122
2400163	Avobenzone	81.0	105	P/P	37 - 178
2400163	Azinphos Methyl	54.6	69.6	P/P	40 - 292
2400163	Azoxystrobin	111	130	P/P	35 - 220
2400163	Bromacil	93.1	96.4	P/P	45 - 127
2400163	Butylate	66.2	70.8	P/P	20 - 83.0
2400163	Caffeine	129	112	P/P	10 - 194
2400163	Carbophenothion	85.9	100	P/P	57 - 127
2400163	Carfentrazone Ethyl	90.4	94.4	P/P	51 - 141
2400163	Chlorfenapyr	68.4	84.8	P/P	46 - 111
2400163	Chlorpyrifos Ethyl	57.4	56.3	P/P	52 - 120
2400163	Chlorpyrifos Methyl	85.5	96.7	P/P	63 - 119
2400163	Coumaphos	106	101	P/P	10 - 228
2400163	Cyanazine	131	124	P/P	59 - 241
2400163	Cyprodinil	82.6	92.1	P/P	47 - 146
2400163	Dechlorane 602	74.3	77.2	P/P	50 - 150
2400163	Dechlorane 603	76.3	80.4	P/P	50 - 150
2400163	Dechlorane Plus	89.8	88.2	P/P	50 - 150
2400163	Demeton	83.0	88.3	P/P	40 - 136
2400163	Diazinon	113	107	P/P	69 - 132
2400163	Difenoconazole	122	104	P/P	57 - 258
2400163	Dimethenamid	81.0	92.0	P/P	54 - 110
2400163	Dimethomorph	146	130	P/P	28 - 210
2400163	Disulfoton	92.5	83.7	P/P	43 - 133
2400163	Dithiopyr	91.7	105	P/P	39 - 116
2400163	EPTC	59.7	69.9	P/P	20 - 78.0
2400163	Ethion	25.9	38.5	P/P	17 - 119
2400163	Ethoprop	93.8	99.0	P/P	66 - 120
2400163	Etridiazole	57.9	58.8	P/P	28 - 96.0
2400163	Fenamiphos	50.8	50.7	P/P	41 - 126
2400163	Fenbuconazole	88.3	94.1	P/P	42 - 169
2400163	Fipronil	86.5	87.9	P/P	61 - 132
2400163	Fipronil Desulfinyl	84.2	92.4	P/P	56 - 132
2400163	Fipronil Sulfide	96.5	105	P/P	48 - 119
2400163	Fipronil Sulfone	81.5	96.8	P/P	42 - 131
2400163	Fluazifop-P-butyl	96.8	110	P/P	53 - 131
2400163	Fludioxonil	68.4	75.5	P/P	56 - 127
2400163	Flumioxazin	123	91.2	P/P	19 - 300
2400163	Flutolanil	111	127	P/P	41 - 127
2400163	Fluxapyroxad	60.4	69.2	P/P	42 - 172
2400163	Fonofos	88.8	65.4	P/P	59 - 113
2400163	Hexabromobenzene	126	110	P/P	50 - 150
2400163	Hexazinone	82.3	86.8	P/P	66 - 122
2400163	Imazalil	110	67.6	P/P	21 - 283
2400163	Iprodione	61.7	69.1	P/P	43 - 150
2400163	Loratadine	89.2	86.8	P/P	23 - 201
2400163	Malathion	77.0	87.5	P/P	58 - 136

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P428413

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400163	Metalaxyl	83.2	83.3	P/P	55 - 120
2400163	Metolachlor	95.1	101	P/P	57 - 121
2400163	Metribuzin	47.1	78.9	F/P	58 - 294
2400163	Mevinphos	89.0	90.6	P/P	50 - 126
2400163	Molinate	61.4	63.6	P/P	42 - 93.0
2400163	Myclobutanil	79.0	92.2	P/P	55 - 125
2400163	Naled	46.6	50.9	P/P	18 - 200
2400163	Napropamide	49.9	61.4	P/P	39 - 110
2400163	Norflurazon	65.6	84.9	P/P	48 - 128
2400163	Octinoxate	77.5	80.0	P/P	21 - 159
2400163	Oxadiazon	73.1	82.3	P/P	43 - 112
2400163	Oxybenzone	81.2	81.8	P/P	41 - 142
2400163	Oxyfluorfen	101	108	P/P	64 - 153
2400163	Parathion Ethyl	92.2	103	P/P	69 - 114
2400163	Parathion Methyl	96.2	95.7	P/P	79 - 139
2400163	PBB-153	81.7	88.4	P/P	50 - 150
2400163	PBDE-47	78.6	82.7	P/P	27 - 144
2400163	PBDE-99	69.2	74.3	P/P	18 - 150
2400163	Pendimethalin	127	136	P/P	50 - 139
2400163	Pentabromotoluene	106	108	P/P	50 - 150
2400163	Phenytoin	33.0	35.4	P/P	10 - 146
2400163	Phorate	147	130	P/P	54 - 161
2400163	Prodiamine	62.5	67.4	P/P	30 - 161
2400163	Prometon	55.4	57.3	P/P	45 - 134
2400163	Prometryn	134	109	P/P	45 - 137
2400163	Pronamide	107	109	P/P	65 - 133
2400163	Propanil	99.6	109	P/P	49 - 142
2400163	Propargite	35.7	35.3	P/P	10 - 203
2400163	Propiconazole	58.8	69.3	P/P	38 - 146
2400163	Pyraflufen Ethyl	71.9	77.8	P/P	34 - 153
2400163	Pyridaben	89.0	83.5	P/P	12 - 192
2400163	Pyriproxyfen	53.2	67.4	P/P	33 - 180
2400163	Simazine	74.6	81.3	P/P	51 - 157
2400163	Stirophos	43.3	58.4	P/P	10 - 128
2400163	Sulfentrazone	70.9	92.4	P/P	53 - 186
2400163	Tebuconazole	33.3	38.7	P/P	10 - 133
2400163	Terbufos	121	115	P/P	65 - 139
2400163	Terbutylazine	84.7	79.7	P/P	66 - 117
2400163	Tetradecachloro-m-terphenyl	152	97.0	P/P	70 - 200
2400163	Thiobencarb	82.2	92.2	P/P	51 - 119
2400163	Tri-o-cresyl Phosphate	110	107	P/P	31 - 144
2400163	Triadimefon	83.2	91.7	P/P	48 - 119
2400163	Tris(1-chloro-2-propyl) phosphate (TCPP)	77.2	78.6	P/P	50 - 150
2400163	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	74.4	76.4	P/P	50 - 150
2400163	Tris(2-chloroethyl) phosphate (TCEP)	103	100	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P428312

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399392	Acesulfame K	93.0	93.7	P/P	40 - 150
2399392	AMPA	118	117	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P428312

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399392	Endothall	96.7	98.9	P/P	40 - 150
2399392	Glufosinate	95.9	99.4	P/P	40 - 150
2399392	Glyphosate	110	107	P/P	40 - 150
2399392	Sucralose	97.5	93.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P428433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399997	2,4-D	89.5	92.4	P/P	40 - 150
2399997	2,4,5-T	103	108	P/P	40 - 150
2399997	Acetaminophen	94.4	95.1	P/P	30 - 150
2399997	Acetamiprid	49.8	44.5	P/P	40 - 150
2399997	Afidopyropen	72.9	79.0	P/P	30 - 150
2399997	Benzovindiflupyr	89.0	82.6	P/P	40 - 150
2399997	Carbamazepine	57.5	59.8	P/P	40 - 150
2399997	Clothianidin	73.2	74.9	P/P	40 - 150
2399997	Dinotefuran	49.4	49.6	P/P	40 - 150
2399997	Diuron	71.7	71.2	P/P	40 - 150
2399997	Fenuron	38.4	40.6	F/P	40 - 150
2399997	Fluridone	69.0	57.7	P/P	40 - 150
2399997	Hydrocodone	46.2	44.4	P/P	40 - 150
2399997	Ibuprofen	61.7	55.7	P/P	40 - 150
2399997	Imazapyr	71.1	68.9	P/P	40 - 150
2399997	Imidacloprid	99.4	102	P/P	40 - 150
2399997	Linuron	74.8	68.0	P/P	40 - 150
2399997	Mandestrobin	89.1	83.9	P/P	40 - 150
2399997	MCPP	104	121	P/P	40 - 150
2399997	Naproxen	66.7	59.6	P/P	40 - 150
2399997	Primidone	69.6	78.0	P/P	40 - 150
2399997	Pyraclostrobin	80.2	77.9	P/P	40 - 150
2399997	Silvex	114	106	P/P	40 - 150
2399997	Thiamethoxam	53.9	58.6	P/P	40 - 150
2399997	Tolfenpyrad	49.2	55.9	P/P	30 - 150
2399997	Triclopyr	123	117	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P428929

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400031	Fluoride	101	102	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P428607

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2400124	Organic Carbon	87.4	94.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P428462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400077	Color (true)	1.05	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428491

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399940	Turbidity	8.60	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P428501

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400047	Calcium	1.77	Spike	P	0 - 20
2400047	Iron	0.694	Spike	P	0 - 20
2400047	Magnesium	1.51	Spike	P	0 - 20
2400047	Potassium	1.40	Spike	P	0 - 20
2400047	Sodium	1.89	Spike	P	0 - 20
2400047	Strontium	1.50	Spike	P	0 - 20
2400047	Tin	2.49	Spike	P	0 - 20
2400047	Titanium	0.770	Spike	P	0 - 20
2400047	Vanadium	1.02	Spike	P	0 - 20
2400047	Zinc	0.194	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P428501

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400047	Aluminum	1.73	Spike	P	0 - 20
2400047	Antimony	1.44	Spike	P	0 - 20
2400047	Arsenic	1.55	Spike	P	0 - 20
2400047	Barium	2.22	Spike	P	0 - 20
2400047	Beryllium	2.51	Spike	P	0 - 20
2400047	Boron	2.24	Spike	P	0 - 20
2400047	Cadmium	1.15	Spike	P	0 - 20
2400047	Chromium	1.43	Spike	P	0 - 20
2400047	Cobalt	0.899	Spike	P	0 - 20
2400047	Copper	1.32	Spike	P	0 - 20
2400047	Lead	1.50	Spike	P	0 - 20
2400047	Manganese	2.04	Spike	P	0 - 20
2400047	Molybdenum	0.841	Spike	P	0 - 20
2400047	Nickel	1.97	Spike	P	0 - 20
2400047	Selenium	1.16	Spike	P	0 - 20
2400047	Silver	0.892	Spike	P	0 - 20
2400047	Thallium	6.56	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400028	Chloride	1.37	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400028	Sulfate	1.83	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428647

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400043	Ammonia-N	0.745	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428477

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399944	Kjeldahl Nitrogen	7.86	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428854

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400032	NO2NO3-N	0.966	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400056	Total-P	0.143	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P428446

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399968	O-Phosphate-P	0.588	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P428413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400163	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	10.8	Spike	P	0 - 37
2400163	Acetochlor	3.77	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P428413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400163	Alachlor	5.95	Spike	P	0 - 30
2400163	Ametryn	7.47	Spike	P	0 - 32
2400163	Atrazine	6.71	Spike	P	0 - 41
2400163	Atrazine Desethyl	5.31	Spike	P	0 - 36
2400163	Avobenzone	25.8	Spike	P	0 - 36
2400163	Azinphos Methyl	24.3	Spike	P	0 - 75
2400163	Azoxystrobin	16.1	Spike	P	0 - 39
2400163	Bromacil	3.50	Spike	P	0 - 33
2400163	Butylate	6.70	Spike	P	0 - 44
2400163	Caffeine	10.5	Spike	P	0 - 74
2400163	Carbophenothion	15.7	Spike	P	0 - 25
2400163	Carfentrazone Ethyl	4.32	Spike	P	0 - 27
2400163	Chlorfenapyr	21.5	Spike	P	0 - 24
2400163	Chlorpyrifos Ethyl	1.93	Spike	P	0 - 26
2400163	Chlorpyrifos Methyl	12.3	Spike	P	0 - 26
2400163	Coumaphos	5.46	Spike	P	0 - 28
2400163	Cyanazine	5.59	Spike	P	0 - 48
2400163	Cyprodinil	10.9	Spike	P	0 - 29
2400163	Dechlorane 602	3.80	Spike	P	0 - 30
2400163	Dechlorane 603	5.31	Spike	P	0 - 30
2400163	Dechlorane Plus	1.84	Spike	P	0 - 30
2400163	Demeton	6.20	Spike	P	0 - 33
2400163	Diazinon	5.40	Spike	P	0 - 29
2400163	Difenoconazole	15.4	Spike	P	0 - 34
2400163	Dimethenamid	12.8	Spike	P	0 - 39
2400163	Dimethomorph	11.9	Spike	P	0 - 51
2400163	Disulfoton	9.94	Spike	P	0 - 30
2400163	Dithiopyr	13.4	Spike	P	0 - 26
2400163	EPTC	15.7	Spike	P	0 - 43
2400163	Ethion	39.3	Spike	P	0 - 79
2400163	Ethoprop	5.32	Spike	P	0 - 29
2400163	Etridiazole	1.55	Spike	P	0 - 33
2400163	Fenamiphos	0.175	Spike	P	0 - 40
2400163	Fenbuconazole	6.36	Spike	P	0 - 74
2400163	Fipronil	1.65	Spike	P	0 - 29
2400163	Fipronil Desulfinyl	8.84	Spike	P	0 - 32
2400163	Fipronil Sulfide	8.42	Spike	P	0 - 30
2400163	Fipronil Sulfone	17.1	Spike	P	0 - 33
2400163	Fluazifop-P-butyl	12.5	Spike	P	0 - 38
2400163	Fludioxonil	9.86	Spike	P	0 - 29
2400163	Flumioxazin	29.7	Spike	P	0 - 51
2400163	Flutolanil	13.6	Spike	P	0 - 25
2400163	Fluxapyroxad	13.6	Spike	P	0 - 45
2400163	Fonofos	30.5	Spike	F	0 - 27
2400163	Hexabromobenzene	13.2	Spike	P	0 - 30
2400163	Hexazinone	5.29	Spike	P	0 - 30
2400163	Imazalil	47.8	Spike	P	0 - 100
2400163	Iprodione	11.3	Spike	P	0 - 33
2400163	Loratadine	2.75	Spike	P	0 - 56
2400163	Malathion	12.8	Spike	P	0 - 37
2400163	Metalaxyl	0.194	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P428413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400163	Metolachlor	6.13	Spike	P	0 - 29
2400163	Metribuzin	50.5	Spike	F	0 - 45
2400163	Mevinphos	1.83	Spike	P	0 - 29
2400163	Molinate	3.54	Spike	P	0 - 33
2400163	Myclobutanil	15.4	Spike	P	0 - 26
2400163	Naled	8.82	Spike	P	0 - 37
2400163	Napropamide	20.6	Spike	P	0 - 44
2400163	Norflurazon	25.8	Spike	P	0 - 30
2400163	Octinoxate	3.20	Spike	P	0 - 45
2400163	Oxadiazon	11.8	Spike	P	0 - 28
2400163	Oxybenzone	0.787	Spike	P	0 - 46
2400163	Oxyfluorfen	6.72	Spike	P	0 - 28
2400163	Parathion Ethyl	11.2	Spike	P	0 - 31
2400163	Parathion Methyl	0.511	Spike	P	0 - 29
2400163	PBB-153	7.86	Spike	P	0 - 30
2400163	PBDE-47	5.17	Spike	P	0 - 36
2400163	PBDE-99	7.16	Spike	P	0 - 40
2400163	Pendimethalin	7.06	Spike	P	0 - 33
2400163	Pentabromotoluene	1.29	Spike	P	0 - 30
2400163	Phenytoin	6.90	Spike	P	0 - 100
2400163	Phorate	12.4	Spike	P	0 - 36
2400163	Prodiamine	7.51	Spike	P	0 - 71
2400163	Prometon	3.40	Spike	P	0 - 36
2400163	Prometryn	20.2	Spike	P	0 - 28
2400163	Pronamide	1.91	Spike	P	0 - 24
2400163	Propanil	9.24	Spike	P	0 - 28
2400163	Propargite	1.00	Spike	P	0 - 43
2400163	Propiconazole	16.5	Spike	P	0 - 33
2400163	Pyraflufen Ethyl	7.80	Spike	P	0 - 29
2400163	Pyridaben	6.37	Spike	P	0 - 30
2400163	Pyriproxyfen	23.6	Spike	P	0 - 79
2400163	Simazine	7.81	Spike	P	0 - 29
2400163	Stirophos	29.7	Spike	P	0 - 61
2400163	Sulfentrazone	26.4	Spike	P	0 - 33
2400163	Tebuconazole	14.9	Spike	P	0 - 69
2400163	Terbufos	5.60	Spike	P	0 - 29
2400163	Terbuthylazine	6.08	Spike	P	0 - 32
2400163	Tetradecachloro-m-terphenyl	44.4	Spike	F	0 - 30
2400163	Thiobencarb	11.5	Spike	P	0 - 26
2400163	Tri-o-cresyl Phosphate	2.84	Spike	P	0 - 33
2400163	Triadimefon	9.79	Spike	P	0 - 28
2400163	Tris(1-chloro-2-propyl) phosphate (TCPP)	1.87	Spike	P	0 - 30
2400163	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.56	Spike	P	0 - 30
2400163	Tris(2-chloroethyl) phosphate (TCEP)	2.48	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P428312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399392	Acesulfame K	0.734	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P428312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399392	AMPA	0.933	Spike	P	0 - 30
2399392	Endothall	2.21	Spike	P	0 - 30
2399392	Glufosinate	3.67	Spike	P	0 - 30
2399392	Glyphosate	2.04	Spike	P	0 - 30
2399392	Sucralose	3.51	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P428433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399997	2,4-D	3.19	Spike	P	0 - 30
2399997	2,4,5-T	4.27	Spike	P	0 - 30
2399997	Acetaminophen	0.756	Spike	P	0 - 30
2399997	Acetamiprid	11.2	Spike	P	0 - 30
2399997	Afidopyropen	8.09	Spike	P	0 - 30
2399997	Bentazon	15.7	Spike	P	0 - 30
2399997	Benzovindiflupyr	7.52	Spike	P	0 - 30
2399997	Carbamazepine	3.77	Spike	P	0 - 30
2399997	Clothianidin	2.22	Spike	P	0 - 30
2399997	Dinotefuran	0.350	Spike	P	0 - 30
2399997	Diuron	0.710	Spike	P	0 - 30
2399997	Fenuron	5.54	Spike	P	0 - 30
2399997	Fluridone	17.7	Spike	P	0 - 30
2399997	Hydrocodone	4.08	Spike	P	0 - 30
2399997	Ibuprofen	10.2	Spike	P	0 - 30
2399997	Imazapyr	1.33	Spike	P	0 - 30
2399997	Imidacloprid	2.33	Spike	P	0 - 30
2399997	Linuron	9.50	Spike	P	0 - 30
2399997	Mandestrobin	5.91	Spike	P	0 - 30
2399997	MCPP	15.0	Spike	P	0 - 30
2399997	Naproxen	11.3	Spike	P	0 - 30
2399997	Primidone	11.3	Spike	P	0 - 30
2399997	Pyraclostrobin	2.87	Spike	P	0 - 30
2399997	Silvex	6.71	Spike	P	0 - 30
2399997	Thiamethoxam	8.31	Spike	P	0 - 30
2399997	Tolfenpyrad	12.8	Spike	P	0 - 30
2399997	Triclopyr	5.12	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P428655

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400031	Total Alkalinity	1.68	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P428693

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: P428693

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400030	TDS	2.60	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P428929

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400031	Fluoride	0.470	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P428607

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2400124	Organic Carbon	7.56	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2400061

Field Sample ID: G5NW0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	121	P	30 - 160
EPA 8321B	Acetaminophen-d4	89.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	86.8	P	30 - 160
EPA 8321B	Diuron-d6	94.7	P	30 - 160
EPA 8321B	Endothall-d6	85.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	90.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.4	P	30 - 160
EPA 8321B	Primidone-d5	97.3	P	30 - 160
EPA 8321B	Sucralose-d6	96.5	P	30 - 160

Lab Sample ID: 2400063

Field Sample ID: G5NW0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	126	P	20 - 200
EPA 8270E	Simazine-d10	115	P	62 - 142
EPA 8270E	Terbufos-d10	70.6	P	58 - 132
EPA 8270E	Terphenyl-d14	84.1	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A118556

Included Lab Sample IDs: 2400057

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.5	98.6	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A118558

Included Lab Sample IDs: 2400055

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A118570

Included Lab Sample IDs: 2400055

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A118606

Included Lab Sample IDs: 2400061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	99.5	99.0	P/P	60 - 160
Sucralose	90.3	98.6	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118615

Included Lab Sample IDs: 2400056

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	97.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A118625

Included Lab Sample IDs: 2400061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	120	113	P/P	60 - 160
Endothall	98.5	95.7	P/P	60 - 160
Glufosinate	106	98.4	P/P	60 - 160
Glyphosate	116	113	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A118628

Included Lab Sample IDs: 2400056

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.2	99.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118631
Included Lab Sample IDs: 2400063

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	120*		F	80 - 120
Alachlor	115		P	80 - 120
Ametryn	111		P	80 - 120
Atrazine	106		P	80 - 120
Atrazine Desethyl	106		P	80 - 120
Azinphos Methyl	114		P	80 - 120
Azoxystrobin	104		P	80 - 120
Bromacil	112		P	80 - 120
Butylate	98.4		P	80 - 120
Caffeine	94.0		P	80 - 120
Carbophenothion	95.8		P	80 - 120
Carfentrazone Ethyl	106		P	80 - 120
Chlorfenapyr	101		P	80 - 120
Chlorpyrifos Ethyl	103		P	80 - 120
Chlorpyrifos Methyl	112		P	80 - 120
Coumaphos	93.2		P	80 - 120
Cyanazine	119		P	80 - 120
Cyprodinil	96.7		P	80 - 120
Demeton	99.5		P	80 - 120
Diazinon	99.6		P	80 - 120
Difenoconazole	110		P	80 - 120
Dimethenamid	115		P	80 - 120
Dimethomorph	105		P	80 - 120
Disulfoton	95.9		P	80 - 120
Dithiopyr	109		P	80 - 120
EPTC	107		P	80 - 120
Ethion	114		P	80 - 120
Ethoprop	105		P	80 - 120
Etridiazole	102		P	80 - 120
Fenamiphos	115		P	80 - 120
Fenbuconazole	98.1		P	80 - 120
Fipronil	118		P	80 - 120
Fipronil Desulfinyl	104		P	80 - 120
Fipronil Sulfide	112		P	80 - 120
Fipronil Sulfone	116		P	80 - 120
Fluazifop-P-butyl	98.2		P	80 - 120
Fludioxonil	115		P	80 - 120
Flumioxazin	108		P	80 - 120
Flutolanil	111		P	80 - 120
Fluxapyroxad	95.9		P	80 - 120
Fonofos	94.6		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	114		P	80 - 120
Iprodione	97.8		P	80 - 120
Loratadine	106		P	80 - 120
Malathion	114		P	80 - 120
Metalaxyl	112		P	80 - 120
Metolachlor	117		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	110		P	80 - 120
Molinate	97.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118631
Included Lab Sample IDs: 2400063

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Myclobutanil	116		P	80 - 120
Naled	96.3		P	80 - 120
Napropamide	129*		F	80 - 120
Norflurazon	109		P	80 - 120
Oxadiazon	107		P	80 - 120
Oxyfluorfen	112		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	118		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytoin	108		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	110		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	119		P	80 - 120
Pronamide	107		P	80 - 120
Propanil	115		P	80 - 120
Propargite	92.1		P	80 - 120
Propiconazole	92.4		P	80 - 120
Pyraflufen Ethyl	88.2		P	80 - 120
Pyridaben	114		P	80 - 120
Pyriproxyfen	106		P	80 - 120
Simazine	96.5		P	80 - 120
Stiophos	120		P	80 - 120
Sulfentrazone	98.2		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	97.9		P	80 - 120
Terbuthylazine	104		P	80 - 120
Thiobencarb	112		P	80 - 120
Triadimefon	125*		F	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A118632
Included Lab Sample IDs: 2400056

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	109	108	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A118640
Included Lab Sample IDs: 2400056

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.5	98.9	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A118641
Included Lab Sample IDs: 2400055

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.7	98.3	P/P	90 - 110
Sulfate	99.0	99.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A118645

Included Lab Sample IDs: 2400055

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.8	93.9	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118647

Included Lab Sample IDs: 2400062

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	101	P/P	90 - 110
Antimony	105	105	P/P	90 - 110
Arsenic	99.1	99.9	P/P	90 - 110
Barium	98.9	98.1	P/P	90 - 110
Cadmium	101	101	P/P	90 - 110
Copper	101	102	P/P	90 - 110
Lead	104	104	P/P	90 - 110
Manganese	103	106	P/P	90 - 110
Molybdenum	99.7	99.4	P/P	90 - 110
Nickel	102	103	P/P	90 - 110
Selenium	98.0	96.9	P/P	90 - 110
Silver	106	107	P/P	90 - 110
Thallium	103	103	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A118648

Included Lab Sample IDs: 2400063

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	89.9		P	80 - 120
Avobenzone	91.0		P	80 - 120
Dechlorane 602	98.7		P	80 - 120
Dechlorane 603	86.7		P	80 - 120
Dechlorane Plus	89.7		P	80 - 120
Hexabromobenzene	98.7		P	80 - 120
Octinoxate	84.9		P	80 - 120
Oxybenzone	89.6		P	80 - 120
PBB-153	85.6		P	80 - 120
PBDE-47	87.3		P	80 - 120
PBDE-99	89.5		P	80 - 120
Pentabromotoluene	96.6		P	80 - 120
Tetradecachloro-m-terphenyl	95.5		P	80 - 120
Tri-o-cresyl Phosphate	99.5		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	87.1		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	86.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	95.2		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118672

Included Lab Sample IDs: 2400062

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	97.3	97.0	P/P	90 - 110
Boron	93.5	99.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118672

Included Lab Sample IDs: 2400062

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	103	104	P/P	90 - 110
Cobalt	102	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118722

Included Lab Sample IDs: 2400056

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A118729

Included Lab Sample IDs: 2400062

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	101	P/P	90 - 110
Iron	104	102	P/P	90 - 110
Magnesium	103	101	P/P	90 - 110
Potassium	102	101	P/P	90 - 110
Sodium	99.9	102	P/P	90 - 110
Strontium	98.4	100	P/P	90 - 110
Tin	99.3	99.2	P/P	90 - 110
Titanium	100	99.4	P/P	90 - 110
Vanadium	100	101	P/P	90 - 110
Zinc	102	102	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A118753

Included Lab Sample IDs: 2400055

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

Reference Method: EPA 8321B

Run ID: A118768

Included Lab Sample IDs: 2400061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.0	89.4	P/P	50 - 150
2,4,5-T	83.4	79.4	P/P	50 - 150
Acetaminophen	90.7	85.2	P/P	60 - 160
Acetamiprid	115	115	P/P	50 - 150
Afidopyropen	87.6	109	P/P	50 - 150
Bentazon	102	101	P/P	50 - 160
Benzovindiflupyr	103	105	P/P	50 - 150
Carbamazepine	98.5	105	P/P	60 - 150
Clothianidin	94.4	101	P/P	60 - 150
Dinotefuran	98.2	97.3	P/P	50 - 150
Diuron	123	121	P/P	60 - 160
Fenuron	101	99.3	P/P	60 - 150
Fluridone	90.5	91.6	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A118768
Included Lab Sample IDs: 2400061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hydrocodone	107	105	P/P	60 - 150
Ibuprofen	71.8	65.8	P/P	50 - 160
Imazapyr	106	107	P/P	50 - 150
Imidacloprid	96.8	93.1	P/P	60 - 150
Linuron	87.4	101	P/P	60 - 150
Mandestrobin	103	106	P/P	50 - 150
MCPP	102	99.5	P/P	50 - 150
Naproxen	64.4	106	P/P	50 - 160
Primidone	101	103	P/P	60 - 150
Pyraclostrobin	106	107	P/P	60 - 150
Silvex	106	108	P/P	50 - 150
Thiamethoxam	105	107	P/P	50 - 150
Tolfenpyrad	102	99.0	P/P	60 - 150
Triclopyr	93.2	85.4	P/P	50 - 150

* 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)	99.9					1.05	
EPA 180.1 Rev. 2.0	Turbidity	99.5					8.60	
EPA 200.7 Rev. 4.4	Calcium	103	101	103				1.77
	Iron	105	105	105	103			0.694
	Magnesium	103	103	106				1.51
	Potassium	104	101	103	102			1.40
	Sodium	104	104	107	105			1.89
	Strontium	99.6	98.6	100	100			1.50
	Tin	103	98.8	101	99.4			2.49
	Titanium	102	101	101	103			0.770
	Vanadium	102	101	102	103			1.02
	Zinc	102	100	99.9	105			0.194
EPA 200.8 Rev. 5.4	Aluminum	103	103	105	101			1.73
	Antimony	105	108	109	105			1.44
	Arsenic	101	102	103	101			1.55
	Barium	103	102	104	99.6			2.22
	Beryllium	99.1	96.1	93.7	95.8			2.51
	Boron	103	106	104	106			2.24
	Cadmium	102	105	104	104			1.15
	Chromium	105	106	105	108			1.43
	Cobalt	107	104	103	107			0.899
	Copper	103	99.9	101	105			1.32
	Lead	108	106	107	108			1.50
	Manganese	106	104	106	103			2.04
	Molybdenum	102	104	105	102			0.841
	Nickel	105	101	103	104			1.97
	Selenium	97.4	96.3	97.4	96.5			1.16
	Silver	109	110	109	108			0.892
	Thallium	100	99.1	106	99.6			6.56
EPA 300.0 Rev. 2.1	Chloride	102	104	104			1.37	
	Sulfate	103	102	102			1.83	
EPA 350.1 Rev. 2.0	Ammonia-N	98.2	97.0	97.8				0.745
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.2	100	89.8				7.86
EPA 353.2 Rev. 2.0	NO2NO3-N	102	103	104				0.966
EPA 365.1 Rev. 2.0	Total-P	102	102	102				0.143
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.5	102	102				0.588
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.6	81.0	90.3				10.8
	Acetochlor	82.9	69.8	72.5				3.77
	Alachlor	95.7	105	111				5.95
	Ametryn	113	115	107				7.47
	Atrazine	93.1	80.4	69.8				6.71
	Atrazine Desethyl	102	95.5	101				5.31
	Avobenzone	118	81.0	105				25.8
	Azinphos Methyl	83.3	54.6	69.6				24.3
	Azoxystrobin	118	111	130				16.1
	Bromacil	106	93.1	96.4				3.50
	Butylate	57.0	66.2	70.8				6.70
	Caffeine	112	129	112				10.5
	Carbophenothion	108	85.9	100				15.7
	Carfentrazone Ethyl	106	90.4	94.4				4.32
	Chlorfenapyr	92.0	68.4	84.8				21.5
	Chlorpyrifos Ethyl	84.4	57.4	56.3				1.93

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	99.8	85.5	96.7		12.3
	Coumaphos	116	106	101		5.46
	Cyanazine	142	131	124		5.59
	Cyprodinil	97.0	82.6	92.1		10.9
	Dechlorane 602	96.7	74.3	77.2		3.80
	Dechlorane 603	86.9	76.3	80.4		5.31
	Dechlorane Plus	114	89.8	88.2		1.84
	Demeton	100	83.0	88.3		6.20
	Diazinon	114	113	107		5.40
	Difenoconazole	102	122	104		15.4
	Dimethenamid	105	81.0	92.0		12.8
	Dimethomorph	165	146	130		11.9
	Disulfoton	96.9	92.5	83.7		9.94
	Dithiopyr	108	91.7	105		13.4
	EPTC	56.0	59.7	69.9		15.7
	Ethion	47.4	25.9	38.5		39.3
	Ethoprop	92.9	93.8	99.0		5.32
	Etridiazole	47.5	57.9	58.8		1.55
	Fenamiphos	77.9	50.8	50.7		0.175
	Fenbuconazole	99.2	88.3	94.1		6.36
	Fipronil	105	86.5	87.9		1.65
	Fipronil Desulfinyl	107	84.2	92.4		8.84
	Fipronil Sulfide	114	96.5	105		8.42
	Fipronil Sulfone	101	81.5	96.8		17.1
	Fluazifop-P-butyl	71.6	96.8	110		12.5
	Fludioxonil	92.7	68.4	75.5		9.86
	Flumioxazin	131	123	91.2		29.7
	Flutolanil	91.7	111	127		13.6
	Fluxapyroxad	96.3	60.4	69.2		13.6
	Fonofos	105	88.8	65.4		30.5
	Hexabromobenzene	116	126	110		13.2
	Hexazinone	87.9	82.3	86.8		5.29
	Imazalil	97.9	110	67.6		47.8
	Iprodione	82.9	61.7	69.1		11.3
	Loratadine	159	89.2	86.8		2.75
	Malathion	96.4	77.0	87.5		12.8
	Metalaxyl	97.8	83.2	83.3		0.194
	Metolachlor	112	95.1	101		6.13
	Metribuzin	111	47.1	78.9		50.5
	Mevinphos	87.7	89.0	90.6		1.83
	Molinate	57.1	61.4	63.6		3.54
	Myclobutanil	97.8	79.0	92.2		15.4
	Naled	45.5	46.6	50.9		8.82
	Napropamide	78.9	49.9	61.4		20.6
	Norflurazon	83.6	65.6	84.9		25.8
	Octinoxate	98.6	77.5	80.0		3.20
	Oxadiazon	96.1	73.1	82.3		11.8
	Oxybenzone	93.0	81.2	81.8		0.787
	Oxyfluorfen	106	101	108		6.72
	Parathion Ethyl	95.9	92.2	103		11.2
	Parathion Methyl	92.3	96.2	95.7		0.511
	PBB-153	102	81.7	88.4		7.86
	PBDE-47	97.5	78.6	82.7		5.17
	PBDE-99	89.3	69.2	74.3		7.16

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	106	127	136		7.06
	Pentabromotoluene	103	106	108		1.29
	Phenytoin	40.4	33.0	35.4		6.90
	Phorate	97.5	147	130		12.4
	Prodiamine	70.4	62.5	67.4		7.51
	Prometon	57.4	55.4	57.3		3.40
	Prometryn	124	134	109		20.2
	Pronamide	115	107	109		1.91
	Propanil	108	99.6	109		9.24
	Propargite	71.3	35.7	35.3		1.00
	Propiconazole	60.9	58.8	69.3		16.5
	Pyraflufen Ethyl	74.9	71.9	77.8		7.80
	Pyridaben	103	89.0	83.5		6.37
	Pyriproxyfen	93.7	53.2	67.4		23.6
	Simazine	89.5	74.6	81.3		7.81
	Stiropfos	64.5	43.3	58.4		29.7
	Sulfentrazone	73.2	70.9	92.4		26.4
	Tebuconazole	57.3	33.3	38.7		14.9
	Terbufos	111	121	115		5.60
	Terbutylazine	86.4	84.7	79.7		6.08
	Tetradecachloro-m-terphenyl	159	152	97.0		44.4
	Thiobencarb	102	82.2	92.2		11.5
	Tri-o-cresyl Phosphate	106	110	107		2.84
	Triadimefon	105	83.2	91.7		9.79
	Tris(1-chloro-2-propyl) phosphate (TCPP)	105	77.2	78.6		1.87
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	91.7	74.4	76.4		2.56
	Tris(2-chloroethyl) phosphate (TCEP)	102	103	100		2.48
EPA 8321B	2,4-D	98.4	89.5	92.4		3.19
	2,4,5-T	84.6	103	108		4.27
	Acesulfame K	98.8	93.0	93.7		0.734
	Acetaminophen	69.2	94.4	95.1		0.756
	Acetamiprid	79.1	49.8	44.5		11.2
	Afidopyropen	58.0	72.9	79.0		8.09
	AMPA	118	118	117		0.933
	Bentazon	80.6				15.7
	Benzovindiflupyr	81.4	89.0	82.6		7.52
	Carbamazepine	78.5	57.5	59.8		3.77
	Clothianidin	82.7	73.2	74.9		2.22
	Dinotefuran	88.1	49.4	49.6		0.350
	Diuron	99.6	71.7	71.2		0.710
	Endothall	89.3	96.7	98.9		2.21
	Fenuron	79.1	38.4	40.6		5.54
	Fluridone	64.9	69.0	57.7		17.7
	Glufosinate	98.7	95.9	99.4		3.67
	Glyphosate	124	110	107		2.04
	Hydrocodone	83.7	46.2	44.4		4.08
	Ibuprofen	59.7	61.7	55.7		10.2
	Imazapyr	87.2	71.1	68.9		1.33
	Imidacloprid	82.3	99.4	102		2.33
	Linuron	70.3	74.8	68.0		9.50
	Mandestrobin	83.2	89.1	83.9		5.91

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	MCCP	96.8	104	121			15.0
	Naproxen	66.0	66.7	59.6			11.3
	Primidone	83.8	69.6	78.0			11.3
	Pyraclostrobin	74.4	80.2	77.9			2.87
	Silvex	100	114	106			6.71
	Sucralose	112	97.5	93.3			3.51
	Thiamethoxam	80.2	53.9	58.6			8.31
	Tolfenpyrad	53.0	49.2	55.9			12.8
	Triclopyr	95.8	123	117			5.12
SM 2320 B-2011	Total Alkalinity	95.4				1.68	
SM 2540 C-2015	TDS	97.7				2.60	
SM 2540 D-2015	TSS	96.9					
SM 4500-F- C-2011	Fluoride	99.3	101	102			0.470
SM 5310 B-2011	Organic Carbon	95.2	87.4	94.5			7.56

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2400055
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2400055
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2400062
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2400062
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2400055
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2400055
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2400056
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2400056
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2400056
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2400056
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2400057
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2400063
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2400063
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2400061
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2400055
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2400062
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2400055
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2400055
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2400055
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2400056

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	04/13/2023			04/13/2023 15:31	Alexis Price	2400055
EPA 180.1 Rev. 2.0	04/13/2023			04/13/2023 14:11	Anna M. Plaviak	2400055
EPA 200.7 Rev. 4.4	04/13/2023	04/14/2023 13:20	George D Taylor	04/21/2023 17:26	McKinley C Carter	2400062
EPA 200.8 Rev. 5.4	04/13/2023	04/14/2023 13:20	George D Taylor	04/18/2023 20:32	Conrad Hartmann	2400062
	04/13/2023	04/14/2023 13:20	George D Taylor	04/19/2023 14:57	Conrad Hartmann	2400062
EPA 300.0 Rev. 2.1	04/13/2023			04/20/2023 07:23	James L Waggeberby	2400055
EPA 350.1 Rev. 2.0	04/13/2023			04/18/2023 15:02	Khloe J Berg	2400056
EPA 351.2 Rev. 2.0	04/13/2023	04/14/2023 11:35	Simonne.V. Calhoun	04/18/2023 12:10	Samantha L Bates	2400056
EPA 353.2 Rev. 2.0	04/13/2023			04/21/2023 09:47	Beverly Y. Sanders	2400056
EPA 365.1 Rev. 2.0	04/13/2023	04/14/2023 14:15	Alexis Price	04/17/2023 15:26	James L Waggeberby	2400056
EPA 365.1 Rev. 2.0 dissolved	04/13/2023			04/13/2023 13:31	Elise M. Gillis	2400057
EPA 8270E	04/13/2023	04/14/2023 08:00	Fe-Val Siddell	04/18/2023 00:32	Vandana T. Nagar	2400063
	04/13/2023	04/14/2023 08:00	Fe-Val Siddell	04/18/2023 18:25	Arthur Maknenko	2400063
EPA 8321B	04/13/2023	04/14/2023 09:00	Hoor Shaik	04/18/2023 12:18	Juyoung Kim	2400061
	04/13/2023	04/14/2023 10:00	Manjita Shrestha	04/14/2023 14:59	Manjita Shrestha	2400061
	04/13/2023	04/14/2023 10:00	Manjita Shrestha	04/15/2023 08:30	Manjita Shrestha	2400061
SM 2320 B-2011	04/13/2023			04/18/2023 16:36	Dale L. Simmons	2400055
SM 2340 B-2011	04/13/2023			04/21/2023 17:26	McKinley C Carter	2400062
SM 2540 C-2015	04/13/2023			04/14/2023 13:00	Dana G. Hughes	2400055
SM 2540 D-2015	04/13/2023			04/14/2023 13:00	Dana G. Hughes	2400055
SM 4500-F- C-2011	04/13/2023			04/24/2023 20:31	Dale L. Simmons	2400055
SM 5310 B-2011	04/13/2023			04/18/2023 01:27	Elise M. Gillis	2400056