

Chemical Analysis Report

NE-DIST-2023-03-24-01

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

Event Description: **SCI Rushing Creek**
Request ID: **RQ-2023-03-20-32**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 14-APR-2023 09:31



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: Rushing Creek 250m downstream of Holstein Dr **Collection Date/Time: 03/23/2023 09:15**

Field ID: G2NE1189

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2396188	DEP SOP: NU-094-1	Color (true)	52	A	PCU	P427640	
	EPA 180.1 Rev. 2.0	Turbidity	3.5	A	NTU	P427643	
	EPA 300.0 Rev. 2.1	Chloride	37		mg Cl/L	P427892	
		Sulfate	21		mg SO4/L	P427894	
	SM 2320 B-2011	Total Alkalinity	78		mg CaCO3/L	P427850	
	SM 2540 C-2015	TDS	200	A	mg/L	P428327	
	SM 2540 D-2015	TSS	4	IA	mg/L	P428169	
	SM 4500-F- C-2011	Fluoride	0.096	I	mg F/L	P427852	MS
2396189	EPA 350.1 Rev. 2.0	Ammonia-N	0.15		mg N/L	P427760	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.69		mg N/L	P427742	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.18		mg N/L	P427972	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P427690	
	SM 5310 B-2011	Organic Carbon	9.3		mg C/L	P427906	
2396190	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.076		mg P/L	P427641	
2396202	EPA 8321B	2,4-D	0.0058	I	ug/L	P427647	
		Acesulfame K	0.10	U	ug/L	P427546	
		2,4,5-T	0.0040	U	ug/L	P427647	
		AMPA	0.28	I	ug/L	P427546	
		Acetaminophen	0.0080	U	ug/L	P427647	
		Acetamiprid	0.0020	U	ug/L	P427647	
		Endothall	0.25	U	ug/L	P427546	
		Glufosinate	0.10	U	ug/L	P427546	
		Glyphosate	1.4		ug/L	P427546	
		Afidopyropen	0.0020	U	ug/L	P427647	
		Bentazon	0.30		ug/L	P427647	
		Sucralose	0.087		ug/L	P427546	
		Benzovindiflupyr	0.0020	U	ug/L	P427647	
		Carbamazepine	8.0E-04	U	ug/L	P427647	
		Clothianidin	0.0024	I	ug/L	P427647	
		Dinotefuran	0.0020	U	ug/L	P427647	
		Diuron	0.0020	U	ug/L	P427647	
		Fenuron	0.032	U	ug/L	P427647	
		Fluridone	0.0085		ug/L	P427647	
		Imazapyr	0.29		ug/L	P427647	
		Hydrocodone	0.0020	U	ug/L	P427647	
		Ibuprofen	0.080	U	ug/L	P427647	
		Imidacloprid	0.0097		ug/L	P427647	
		Linuron	0.0040	U	ug/L	P427647	
		Mandestrobin	0.0020	U	ug/L	P427647	
		MCPD	0.0020	U	ug/L	P427647	
		Naproxen	0.0080	U	ug/L	P427647	
		Primidone	0.0040	U	ug/L	P427647	

Field ID: G2NE1189

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2396202	EPA 8321B	Pyraclostrobin	0.0020	U	ug/L	P427647	
		Silvex	0.0040	U	ug/L	P427647	
		Thiamethoxam	0.0020	U	ug/L	P427647	
		Tolfenpyrad	0.0020	U	ug/L	P427647	
		Triclopyr	0.0040	U	ug/L	P427647	
2396207	EPA 200.7 Rev. 4.4	Calcium	36.5		mg/L	P427791	
		Iron	1.25E+03		ug/L	P427791	
		Magnesium	6.90		mg/L	P427791	
		Potassium	2.2		mg/L	P427791	
		Sodium	20.7		mg/L	P427791	
		Strontium	129		ug/L	P427791	
		Tin	3.0	U	ug/L	P427791	
		Titanium	0.75	U	ug/L	P427791	
		Vanadium	2.0	U	ug/L	P427791	
		Zinc	5.0	U	ug/L	P427791	
	EPA 200.8 Rev. 5.4	Aluminum	85		ug/L	P427791	
		Antimony	0.069	I	ug/L	P427791	
		Arsenic	0.48		ug/L	P427791	
		Barium	36.6		ug/L	P427791	
		Beryllium	0.048		ug/L	P427791	
		Boron	32.3		ug/L	P427791	
		Cadmium	0.020	U	ug/L	P427791	
		Chromium	0.40	U	ug/L	P427791	
		Cobalt	0.094		ug/L	P427791	
		Copper	2.38		ug/L	P427791	
		Lead	0.26	I	ug/L	P427791	
		Manganese	37.7		ug/L	P427791	
		Molybdenum	0.31	I	ug/L	P427791	
		Nickel	0.50	U	ug/L	P427791	
		Selenium	0.20	U	ug/L	P427791	
		Silver	0.010	U	ug/L	P427791	
		Thallium	0.10	U	ug/L	P427791	
	SM 2340 B-2011	Hardness	120		mg/L	P427791	
2396208	EPA 8270E	Oxybenzone**	12	U	ng/L	P427785	
		Acetochlor	0.23	U	ng/L	P427785	
		Octinoxate**	23	U	ng/L	P427785	
		Alachlor	0.46	U	ng/L	P427785	
		Avobenzone**	120	U	ng/L	P427785	
		Ametryn	3.4	I	ng/L	P427785	
		Atrazine	780		ng/L	P427785	
		PBDE-47**	4.6	U	ng/L	P427785	
		Atrazine Desethyl	60		ng/L	P427785	
		PBDE-99**	5.8	U	ng/L	P427785	
		Azinphos Methyl	3.5	U	ng/L	P427785	
		Tri-o-cresyl Phosphate**	6.9	U	ng/L	P427785	

Field ID: G2NE1189

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2396208	EPA 8270E	Azoxystrobin	0.46	U	ng/L	P427785	CCV
		Bromacil	1.5	I	ng/L	P427785	
		2-Ethylhexyl	14	U	ng/L	P427785	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.23	U	ng/L	P427785	
		Dechlorane Plus**	47	I	ng/L	P427785	
		Caffeine**	33	I	ng/L	P427785	
		Dechlorane 602**	5.8	U	ng/L	P427785	
		Carbophenothion	0.58	U	ng/L	P427785	
		Dechlorane 603**	4.6	U	ng/L	P427785	
		Carfentrazone Ethyl	0.17	U	ng/L	P427785	
		Hexabromobenzene**	6.9	U	ng/L	P427785	
		Chlorfenapyr	0.35	U	ng/L	P427785	
		PBB-153**	9.2	U	ng/L	P427785	
		Chlorpyrifos Ethyl	0.35	U	ng/L	P427785	
		Pentabromotoluene**	3.5	U	ng/L	P427785	
		Chlorpyrifos Methyl	0.12	U	ng/L	P427785	
		Tris(2-chloroethyl) phosphate (TCEP)**	81	U	ng/L	P427785	
		Coumaphos	1.2	U	ng/L	P427785	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	39	I	ng/L	P427785	
		Cyanazine	5.8	U	ng/L	P427785	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	6.6	I	ng/L	P427785	
		Cyprodinil	0.23	U	ng/L	P427785	
		Tetradecachloro-m-terphenyl**	8.6	UJ	ng/L	P427785	
		Demeton	4.0	U	ng/L	P427785	
		Diazinon	0.14	U	ng/L	P427785	
		Difenoconazole	0.69	U	ng/L	P427785	
		Dimethenamid	0.12	U	ng/L	P427785	
		Dimethomorph	0.35	U	ng/L	P427785	
		Disulfoton	0.69	U	ng/L	P427785	
		Dithiopyr	1.2	U	ng/L	P427785	
		EPTC	0.58	U	ng/L	P427785	
		Ethion	0.35	U	ng/L	P427785	
		Ethoprop	0.14	U	ng/L	P427785	
		Etridiazole	0.12	U	ng/L	P427785	
		Fenamiphos	0.52	U	ng/L	P427785	
		Fenbuconazole	0.58	U	ng/L	P427785	
		Fipronil	0.25	I	ng/L	P427785	
		Fipronil Desulfinyl**	0.92		ng/L	P427785	
		Fipronil Sulfide	0.52	I	ng/L	P427785	
		Fipronil Sulfone	1.5		ng/L	P427785	
		Fluazifop-P-butyl	0.12	U	ng/L	P427785	
		Fludioxonil	0.12	U	ng/L	P427785	
		Flumioxazin	3.5	U	ng/L	P427785	
		Flutolanil	0.12	U	ng/L	P427785	

Field ID: G2NE1189

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2396208	EPA 8270E	Fluxapyroxad	0.29	UJ	ng/L	P427785	CCV
		Fonofos	0.17	U	ng/L	P427785	
		Hexazinone	0.58	U	ng/L	P427785	
		Imazalil	0.75	U	ng/L	P427785	
		Iprodione	0.58	UJ	ng/L	P427785	CCV
		Loratadine**	0.35	U	ng/L	P427785	
		Malathion	0.40	U	ng/L	P427785	
		Metaxyl	0.58	U	ng/L	P427785	
		Metolachlor	0.86	U	ng/L	P427785	
		Metribuzin	0.46	U	ng/L	P427785	
		Mevinphos	1.2	U	ng/L	P427785	
		Molinate	0.29	U	ng/L	P427785	
		Myclobutanil	10		ng/L	P427785	
		Naled	2.9	U	ng/L	P427785	
		Napropamide	0.81	U	ng/L	P427785	
		Norflurazon	1.2	U	ng/L	P427785	
		Oxadiazon	0.69	I	ng/L	P427785	
		Oxyfluorfen	0.23	U	ng/L	P427785	
		Parathion Ethyl	0.17	U	ng/L	P427785	
		Parathion Methyl	0.23	U	ng/L	P427785	
		Pendimethalin	0.86	U	ng/L	P427785	
		Phenytol**	6.1	U	ng/L	P427785	
		Phorate	0.29	U	ng/L	P427785	
		Prodiamine	0.23	U	ng/L	P427785	
		Prometon	3.5	U	ng/L	P427785	
		Prometryn	0.40	U	ng/L	P427785	
		Pronamide	0.12	U	ng/L	P427785	
		Propanil	0.12	U	ng/L	P427785	
		Propargite	0.92	U	ng/L	P427785	
		Propiconazole	3.6		ng/L	P427785	
		Pyraflufen Ethyl	0.35	U	ng/L	P427785	
		Pyridaben	1.6	U	ng/L	P427785	
		Pyriproxyfen	0.29	U	ng/L	P427785	
		Simazine	66		ng/L	P427785	
		Stirophos	0.46	U	ng/L	P427785	
		Sulfentrazone	5.1	IJ	ng/L	P427785	CCV
		Tebuconazole	1.6	U	ng/L	P427785	
		Terbufos	0.23	U	ng/L	P427785	
		Terbuthylazine	0.23	U	ng/L	P427785	
		Thiobencarb	0.58	U	ng/L	P427785	
		Triadimefon	0.17	U	ng/L	P427785	

Ref. Method and Comment:

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

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P427640

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427643

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P427791

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: P427791

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: P427892

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: P427894

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427760

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427742

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427972

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427690

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P427641

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

Reference Method: EPA 8270E
Batch ID: P427785

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: P427785

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: P427785

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: P427785

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
Phenytol	5.3	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiatone	0.20	U	ng/L
Prodiatone	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: P427785

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: P427546

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: P427647

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyopen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P427647

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: P427850

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

Reference Method: SM 2540 C-2015

Batch ID: P428327

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P428169

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P427852

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P427906

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: P427640

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	96.9		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427643

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P427791

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	108		P	80 - 120
Iron	107		P	80 - 120
Magnesium	104		P	80 - 120
Potassium	102		P	80 - 120
Sodium	102		P	80 - 120
Strontium	100		P	80 - 120
Tin	104		P	80 - 120
Titanium	103		P	80 - 120
Vanadium	101		P	80 - 120
Zinc	99.2		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427791

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	107		P	85 - 115
Arsenic	102		P	85 - 115
Barium	104		P	85 - 115
Beryllium	93.3		P	85 - 115
Boron	102		P	85 - 115
Cadmium	104		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	104		P	85 - 115
Copper	103		P	85 - 115
Lead	103		P	85 - 115
Manganese	100		P	85 - 115
Molybdenum	100		P	85 - 115
Nickel	103		P	85 - 115
Selenium	100		P	85 - 115
Silver	106		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427892

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427894

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427760

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427742

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.9		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427972

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427690

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P427641

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.4		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P427785

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.6		P	42 - 162
Acetochlor	82.1		P	69 - 123
Alachlor	91.7		P	65 - 118
Ametryn	97.7		P	58 - 141
Atrazine	99.0		P	73 - 118
Atrazine Desethyl	74.8		P	32 - 125
Avobenzone	118		P	40 - 203
Azinphos Methyl	59.7		P	36 - 197
Azoxystrobin	98.1		P	58 - 226
Bromacil	80.3		P	48 - 120
Butylate	51.5		P	27 - 85.0
Caffeine	110		P	40 - 137
Carbophenothion	88.3		P	54 - 132
Carfentrazone Ethyl	84.8		P	60 - 142
Chlorfenapyr	88.7		P	53 - 117
Chlorpyrifos Ethyl	96.8		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P427785

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	97.8		P	66 - 119
Coumaphos	129		P	11 - 234
Cyanazine	97.6		P	61 - 248
Cyprodinil	92.4		P	50 - 147
Dechlorane 602	89.6		P	50 - 150
Dechlorane 603	102		P	50 - 150
Dechlorane Plus	85.9		P	47 - 182
Demeton	70.3		P	30 - 138
Diazinon	120		P	67 - 126
Difenoconazole	81.5		P	38 - 205
Dimethenamid	98.7		P	57 - 111
Dimethomorph	90.0		P	16 - 212
Disulfoton	74.7		P	46 - 126
Dithiopyr	98.2		P	62 - 115
EPTC	48.4		P	28 - 80.0
Ethion	95.4		P	24 - 122
Ethoprop	92.2		P	62 - 113
Etridiazole	50.3		P	28 - 92.0
Fenamiphos	94.5		P	57 - 128
Fenbuconazole	108		P	52 - 155
Fipronil	96.4		P	63 - 130
Fipronil Desulfinyl	87.5		P	61 - 130
Fipronil Sulfide	84.2		P	56 - 117
Fipronil Sulfone	92.5		P	52 - 118
Fluazifop-P-butyl	77.3		P	61 - 128
Fludioxonil	113		P	59 - 129
Flumioxazin	133		P	30 - 250
Flutolanil	99.5		P	53 - 127
Fluxapyroxad	102		P	42 - 132
Fonofos	103		P	61 - 110
Hexabromobenzene	109		P	50 - 150
Hexazinone	101		P	46 - 139
Imazalil	117		P	40 - 139
Iprodione	76.3		P	40 - 146
Loratadine	66.3		P	10 - 224
Malathion	100		P	61 - 135
Metaxyl	103		P	58 - 121
Metolachlor	81.6		P	64 - 118
Metribuzin	98.1		P	45 - 245
Mevinphos	87.9		P	49 - 118
Molinate	64.3		P	42 - 92.0
Myclobutanil	78.6		P	55 - 127
Naled	107		P	10 - 114
Napropamide	100		P	39 - 121
Norflurazon	90.9		P	55 - 129
Octinoxate	94.2		P	26 - 166
Oxadiazon	94.5		P	54 - 115
Oxybenzone	92.5		P	49 - 135
Oxyfluorfen	89.6		P	64 - 139
Parathion Ethyl	93.7		P	70 - 111
Parathion Methyl	113		P	76 - 136
PBB-153	112		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P427785

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	95.1		P	41 - 148
PBDE-99	89.0		P	38 - 147
Pendimethalin	92.7		P	52 - 118
Pentabromotoluene	97.1		P	50 - 150
Phenytoin	66.4		P	10 - 162
Phorate	74.1		P	40 - 122
Prodiamine	53.6		P	26 - 141
Prometon	106		P	54 - 122
Prometryn	103		P	61 - 128
Pronamide	101		P	72 - 121
Propanil	101		P	45 - 144
Propargite	87.0		P	10 - 199
Propiconazole	83.1		P	56 - 127
Pyraflufen Ethyl	110		P	56 - 140
Pyridaben	113		P	26 - 211
Pyriproxyfen	46.5		P	33 - 194
Simazine	112		P	67 - 121
Stirophos	83.8		P	20 - 142
Sulfentrazone	85.7		P	21 - 144
Tebuconazole	116		P	10 - 122
Terbufos	98.4		P	60 - 129
Terbutylazine	104		P	69 - 113
Tetradecachloro-m-terphenyl	122		P	70 - 200
Thiobencarb	94.2		P	51 - 120
Tri-o-cresyl Phosphate	96.9		P	49 - 150
Triadimefon	75.3		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	98.8		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	90.7		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	101		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P427546

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	88.7		P	40 - 150
AMPA	104		P	40 - 150
Endothall	103		P	40 - 150
Glufosinate	92.3		P	40 - 150
Glyphosate	101		P	40 - 150
Sucralose	86.8		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P427647

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	106		P	40 - 150
2,4,5-T	107		P	40 - 150
Acetaminophen	92.7		P	30 - 150
Acetamiprid	85.4		P	40 - 150
Afidopyropen	71.5		P	30 - 150
Bentazon	91.6		P	30 - 150
Benzovindiflupyr	95.2		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P427647

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	95.2		P	40 - 150
Clothianidin	115		P	40 - 150
Dinotefuran	118		P	40 - 150
Diuron	89.1		P	40 - 150
Fenuron	109		P	40 - 150
Fluridone	76.7		P	40 - 150
Hydrocodone	126		P	40 - 150
Ibuprofen	66.0		P	40 - 150
Imazapyr	123		P	40 - 150
Imidacloprid	98.0		P	40 - 150
Linuron	89.6		P	40 - 150
Mandestrobin	87.5		P	40 - 150
MCPPP	101		P	40 - 150
Naproxen	95.7		P	40 - 150
Primidone	103		P	40 - 150
Pyraclostrobin	79.6		P	40 - 150
Silvex	107		P	40 - 150
Thiamethoxam	117		P	40 - 150
Tolfenpyrad	54.8		P	30 - 150
Triclopyr	98.0		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P427850

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.9		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P428327

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

Reference Method: SM 2540 D-2015
Batch ID: P428169

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.7		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P427852

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

Reference Method: SM 5310 B-2011
Batch ID: P427906

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P427791

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396455	Calcium	101		P	80 - 120
2396455	Iron	106	105	P/P	80 - 120
2396455	Magnesium	99.7		P	80 - 120
2396455	Potassium	101	99.4	P/P	80 - 120
2396455	Sodium	98.0		P	80 - 120
2396455	Strontium	99.8	98.7	P/P	80 - 120
2396455	Tin	103	102	P/P	80 - 120
2396455	Titanium	103	101	P/P	80 - 120
2396455	Vanadium	100	99.1	P/P	80 - 120
2396455	Zinc	95.5	92.9	P/P	80 - 120
2396470	Calcium	102		P	80 - 120
2396470	Iron	105		P	80 - 120
2396470	Magnesium	103		P	80 - 120
2396470	Potassium	100		P	80 - 120
2396470	Sodium	98.5		P	80 - 120
2396470	Strontium	98.8		P	80 - 120
2396470	Tin	104		P	80 - 120
2396470	Titanium	101		P	80 - 120
2396470	Vanadium	98.9		P	80 - 120
2396470	Zinc	94.0		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P427791

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396455	Aluminum	101	99.4	P/P	80 - 120
2396455	Antimony	107	105	P/P	80 - 120
2396455	Arsenic	101	100	P/P	80 - 120
2396455	Barium	103	101	P/P	80 - 120
2396455	Beryllium	94.5	94.3	P/P	80 - 120
2396455	Boron	106	105	P/P	80 - 120
2396455	Cadmium	105	104	P/P	80 - 120
2396455	Chromium	99.9	97.8	P/P	80 - 120
2396455	Cobalt	100	98.3	P/P	80 - 120
2396455	Copper	96.9	95.6	P/P	80 - 120
2396455	Lead	102	102	P/P	80 - 120
2396455	Manganese	101	99.4	P/P	80 - 120
2396455	Molybdenum	102	102	P/P	80 - 120
2396455	Nickel	98.9	96.3	P/P	80 - 120
2396455	Selenium	98.2	97.8	P/P	80 - 120
2396455	Silver	104	103	P/P	80 - 120
2396455	Thallium	102	102	P/P	80 - 120
2396470	Aluminum	101		P	80 - 120
2396470	Antimony	105		P	80 - 120
2396470	Arsenic	99.8		P	80 - 120
2396470	Barium	102		P	80 - 120
2396470	Beryllium	91.6		P	80 - 120
2396470	Boron	109		P	80 - 120
2396470	Cadmium	103		P	80 - 120
2396470	Chromium	97.6		P	80 - 120
2396470	Cobalt	97.8		P	80 - 120
2396470	Copper	94.8		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427791

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396470	Lead	102		P	80 - 120
2396470	Manganese	100		P	80 - 120
2396470	Molybdenum	101		P	80 - 120
2396470	Nickel	95.7		P	80 - 120
2396470	Selenium	96.4		P	80 - 120
2396470	Silver	104		P	80 - 120
2396470	Thallium	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427892

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395895	Chloride	101		P	90 - 110
2396077	Chloride	94.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427894

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395895	Sulfate	99.0		P	90 - 110
2396077	Sulfate	96.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427760

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396078	Ammonia-N	106	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427742

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396172	Kjeldahl Nitrogen	99.9	96.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427972

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396123	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427690

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396243	Total-P	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P427641

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396159	O-Phosphate-P	97.8	98.0	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P427785

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396558	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	83.6	87.2	P/P	26 - 165
2396558	Acetochlor	85.0	82.3	P/P	67 - 124
2396558	Alachlor	73.3	71.8	P/P	60 - 120
2396558	Ametryn	83.4	86.9	P/P	54 - 216
2396558	Atrazine	90.2	91.0	P/P	66 - 128
2396558	Atrazine Desethyl	73.3	80.5	P/P	15 - 122
2396558	Avobenzone	112	117	P/P	37 - 178
2396558	Azinphos Methyl	49.6	49.6	P/P	40 - 292
2396558	Azoxystrobin	88.5	88.4	P/P	35 - 220
2396558	Butylate	22.9	31.7	P/P	20 - 83.0
2396558	Caffeine	84.3	99.1	P/P	10 - 194
2396558	Carbophenothion	79.2	81.5	P/P	57 - 127
2396558	Carfentrazone Ethyl	70.3	63.7	P/P	51 - 141
2396558	Chlorfenapyr	78.8	81.4	P/P	46 - 111
2396558	Chlorpyrifos Ethyl	102	91.4	P/P	52 - 120
2396558	Chlorpyrifos Methyl	91.8	89.7	P/P	63 - 119
2396558	Coumaphos	108	138	P/P	10 - 228
2396558	Cyanazine	105	119	P/P	59 - 241
2396558	Cyprodinil	84.4	95.2	P/P	47 - 146
2396558	Dechlorane 602	70.8	74.0	P/P	50 - 150
2396558	Dechlorane 603	84.7	84.9	P/P	50 - 150
2396558	Dechlorane Plus	56.9	55.0	P/P	50 - 150
2396558	Demeton	87.4	101	P/P	40 - 136
2396558	Diazinon	126	125	P/P	69 - 132
2396558	Difenoconazole	72.5	70.5	P/P	57 - 258
2396558	Dimethenamid	75.6	88.8	P/P	54 - 110
2396558	Dimethomorph	97.4	95.0	P/P	28 - 210
2396558	Disulfoton	88.7	81.0	P/P	43 - 133
2396558	Dithiopyr	75.7	85.3	P/P	39 - 116
2396558	EPTC	24.4	25.5	P/P	20 - 78.0
2396558	Ethion	71.9	72.7	P/P	17 - 119
2396558	Ethoprop	82.6	91.7	P/P	66 - 120
2396558	Etridiazole	32.8	36.5	P/P	28 - 96.0
2396558	Fenamiphos	85.6	96.6	P/P	41 - 126
2396558	Fenbuconazole	113	131	P/P	42 - 169
2396558	Fipronil	84.3	99.6	P/P	61 - 132
2396558	Fipronil Desulfinyl	72.0	71.6	P/P	56 - 132
2396558	Fipronil Sulfide	76.5	83.7	P/P	48 - 119
2396558	Fipronil Sulfone	74.9	84.7	P/P	42 - 131
2396558	Fluazifop-P-butyl	63.9	60.8	P/P	53 - 131
2396558	Fludioxonil	111	112	P/P	56 - 127
2396558	Flumioxazin	140	174	P/P	19 - 300
2396558	Flutolanil	102	107	P/P	41 - 127
2396558	Fluxapyroxad	104	113	P/P	42 - 172
2396558	Fonofos	106	83.8	P/P	59 - 113
2396558	Hexabromobenzene	98.3	103	P/P	50 - 150
2396558	Hexazinone	105	103	P/P	66 - 122
2396558	Imazalil	119	98.2	P/P	21 - 283
2396558	Iprodione	72.4	63.7	P/P	43 - 150
2396558	Loratadine	70.2	57.8	P/P	23 - 201
2396558	Malathion	76.0	77.9	P/P	58 - 136
2396558	Metalaxyl	92.9	67.3	P/P	55 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P427785

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396558	Metolachlor	75.8	84.5	P/P	57 - 121
2396558	Metribuzin	91.4	90.2	P/P	58 - 294
2396558	Mevinphos	78.1	90.8	P/P	50 - 126
2396558	Molinate	52.7	57.3	P/P	42 - 93.0
2396558	Myclobutanil	70.5	69.3	P/P	55 - 125
2396558	Naled	69.5	81.3	P/P	18 - 200
2396558	Napropamide	97.5	95.0	P/P	39 - 110
2396558	Octinoxate	77.1	81.7	P/P	21 - 159
2396558	Oxadiazon	97.5	102	P/P	43 - 112
2396558	Oxybenzone	85.3	89.2	P/P	41 - 142
2396558	Oxyfluorfen	79.5	84.4	P/P	64 - 153
2396558	Parathion Ethyl	90.1	86.7	P/P	69 - 114
2396558	Parathion Methyl	100	98.0	P/P	79 - 139
2396558	PBB-153	98.4	103	P/P	50 - 150
2396558	PBDE-47	87.8	89.1	P/P	27 - 144
2396558	PBDE-99	82.0	83.7	P/P	18 - 150
2396558	Pendimethalin	110	125	P/P	50 - 139
2396558	Pentabromotoluene	83.3	87.9	P/P	50 - 150
2396558	Phenytoin	55.7	60.8	P/P	10 - 146
2396558	Phorate	68.2	81.2	P/P	54 - 161
2396558	Prodiamine	51.8	60.8	P/P	30 - 161
2396558	Prometon	98.7	106	P/P	45 - 134
2396558	Prometryn	91.9	102	P/P	45 - 137
2396558	Pronamide	99.9	97.3	P/P	65 - 133
2396558	Propanil	85.1	94.9	P/P	49 - 142
2396558	Propargite	71.7	67.4	P/P	10 - 203
2396558	Propiconazole	85.8	91.9	P/P	38 - 146
2396558	Pyraflufen Ethyl	114	123	P/P	34 - 153
2396558	Pyridaben	105	123	P/P	12 - 192
2396558	Pyriproxyfen	40.7	35.5	P/P	33 - 180
2396558	Simazine	146	149	P/P	51 - 157
2396558	Stiropfos	72.0	75.3	P/P	10 - 128
2396558	Sulfentrazone	77.1	96.6	P/P	53 - 186
2396558	Tebuconazole	122	121	P/P	10 - 133
2396558	Terbufos	99.2	89.0	P/P	65 - 139
2396558	Terbuthylazine	97.0	93.9	P/P	66 - 117
2396558	Tetradecachloro-m-terphenyl	128	120	P/P	70 - 200
2396558	Thiobencarb	84.2	92.5	P/P	51 - 119
2396558	Tri-o-cresyl Phosphate	90.8	93.0	P/P	31 - 144
2396558	Triadimefon	66.8	72.3	P/P	48 - 119
2396558	Tris(1-chloro-2-propyl) phosphate (TCPP)	78.8	81.6	P/P	50 - 150
2396558	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	84.7	86.3	P/P	50 - 150
2396558	Tris(2-chloroethyl) phosphate (TCEP)	87.1	90.7	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P427546

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395861	Acesulfame K	95.5	95.8	P/P	40 - 150
2395861	AMPA	114	111	P/P	40 - 150
2395861	Endothall	99.9	107	P/P	40 - 150
2395861	Glufosinate	88.5	87.3	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P427546

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395861	Glyphosate	92.7	88.0	P/P	40 - 150
2395861	Sucralose	87.3	87.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P427647

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395840	2,4-D	105	98.5	P/P	40 - 150
2395840	2,4,5-T	100	96.1	P/P	40 - 150
2395840	Acetaminophen	87.8	88.4	P/P	30 - 150
2395840	Acetamiprid	90.7	95.7	P/P	40 - 150
2395840	Afidopyropen	74.2	61.6	P/P	30 - 150
2395840	Bentazon	93.6	99.4	P/P	30 - 150
2395840	Benzovindiflupyr	88.7	83.8	P/P	40 - 150
2395840	Carbamazepine	95.1	97.0	P/P	40 - 150
2395840	Clothianidin	118	102	P/P	40 - 150
2395840	Dinotefuran	126	135	P/P	40 - 150
2395840	Diuron	90.9	76.6	P/P	40 - 150
2395840	Fenuron	101	89.4	P/P	40 - 150
2395840	Fluridone	83.0	78.8	P/P	40 - 150
2395840	Hydrocodone	137	131	P/P	40 - 150
2395840	Ibuprofen	72.8	74.6	P/P	40 - 150
2395840	Imazapyr	142	129	P/P	40 - 150
2395840	Imidacloprid	107	92.5	P/P	40 - 150
2395840	Linuron	79.9	90.8	P/P	40 - 150
2395840	Mandestrobin	86.3	81.7	P/P	40 - 150
2395840	MCPP	101	101	P/P	40 - 150
2395840	Naproxen	82.9	107	P/P	40 - 150
2395840	Primidone	101	106	P/P	40 - 150
2395840	Pyraclostrobin	70.2	68.7	P/P	40 - 150
2395840	Silvex	99.6	104	P/P	40 - 150
2395840	Thiamethoxam	128	110	P/P	40 - 150
2395840	Tolfenpyrad	44.9	46.2	P/P	30 - 150
2395840	Triclopyr	96.8	92.9	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P427852

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2396122	Fluoride	108	106	F/F	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P427906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2395708	Organic Carbon	97.4	96.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P427640

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396188	Color (true)	1.64	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P427643

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396188	Turbidity	4.58	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P427791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396455	Calcium	1.14	Spike	P	0 - 20
2396455	Iron	0.888	Spike	P	0 - 20
2396455	Magnesium	0.804	Spike	P	0 - 20
2396455	Potassium	1.31	Spike	P	0 - 20
2396455	Sodium	1.17	Spike	P	0 - 20
2396455	Strontium	1.05	Spike	P	0 - 20
2396455	Tin	1.10	Spike	P	0 - 20
2396455	Titanium	1.65	Spike	P	0 - 20
2396455	Vanadium	1.26	Spike	P	0 - 20
2396455	Zinc	2.76	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P427791

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396455	Aluminum	1.48	Spike	P	0 - 20
2396455	Antimony	1.21	Spike	P	0 - 20
2396455	Arsenic	0.995	Spike	P	0 - 20
2396455	Barium	1.01	Spike	P	0 - 20
2396455	Beryllium	0.219	Spike	P	0 - 20
2396455	Boron	0.907	Spike	P	0 - 20
2396455	Cadmium	1.24	Spike	P	0 - 20
2396455	Chromium	2.06	Spike	P	0 - 20
2396455	Cobalt	2.02	Spike	P	0 - 20
2396455	Copper	1.30	Spike	P	0 - 20
2396455	Lead	0.134	Spike	P	0 - 20
2396455	Manganese	1.41	Spike	P	0 - 20
2396455	Molybdenum	0.191	Spike	P	0 - 20
2396455	Nickel	2.67	Spike	P	0 - 20
2396455	Selenium	0.421	Spike	P	0 - 20
2396455	Silver	1.58	Spike	P	0 - 20
2396455	Thallium	0.0645	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427892

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395895	Chloride	0.546	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395895	Sulfate	1.52	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P427760

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396078	Ammonia-N	4.00	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427742

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396172	Kjeldahl Nitrogen	2.54	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427972

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396123	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427690

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396243	Total-P	0.138	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P427641

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396159	O-Phosphate-P	0.204	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P427785

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396558	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	4.16	Spike	P	0 - 37
2396558	Acetochlor	3.29	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P427785

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396558	Alachlor	2.01	Spike	P	0 - 30
2396558	Ametryn	4.11	Spike	P	0 - 32
2396558	Atrazine	0.794	Spike	P	0 - 41
2396558	Atrazine Desethyl	9.49	Spike	P	0 - 36
2396558	Avobenzone	3.89	Spike	P	0 - 36
2396558	Azinphos Methyl	0.100	Spike	P	0 - 75
2396558	Azoxystrobin	0.0132	Spike	P	0 - 39
2396558	Bromacil	13.4	Spike	P	0 - 33
2396558	Butylate	32.4	Spike	P	0 - 44
2396558	Caffeine	12.9	Spike	P	0 - 74
2396558	Carbophenothion	2.83	Spike	P	0 - 25
2396558	Carfentrazone Ethyl	9.92	Spike	P	0 - 27
2396558	Chlorfenapyr	3.24	Spike	P	0 - 24
2396558	Chlorpyrifos Ethyl	10.7	Spike	P	0 - 26
2396558	Chlorpyrifos Methyl	2.33	Spike	P	0 - 26
2396558	Coumaphos	24.4	Spike	P	0 - 28
2396558	Cyanazine	12.6	Spike	P	0 - 48
2396558	Cyprodinil	11.9	Spike	P	0 - 29
2396558	Dechlorane 602	4.43	Spike	P	0 - 30
2396558	Dechlorane 603	0.247	Spike	P	0 - 30
2396558	Dechlorane Plus	2.76	Spike	P	0 - 30
2396558	Demeton	14.3	Spike	P	0 - 33
2396558	Diazinon	1.39	Spike	P	0 - 29
2396558	Difenoconazole	2.70	Spike	P	0 - 34
2396558	Dimethenamid	16.0	Spike	P	0 - 39
2396558	Dimethomorph	2.53	Spike	P	0 - 51
2396558	Disulfoton	9.00	Spike	P	0 - 30
2396558	Dithiopyr	11.9	Spike	P	0 - 26
2396558	EPTC	4.33	Spike	P	0 - 43
2396558	Ethion	1.02	Spike	P	0 - 79
2396558	Ethoprop	10.5	Spike	P	0 - 29
2396558	Etridiazole	10.5	Spike	P	0 - 33
2396558	Fenamiphos	12.1	Spike	P	0 - 40
2396558	Fenbuconazole	14.6	Spike	P	0 - 74
2396558	Fipronil	16.6	Spike	P	0 - 29
2396558	Fipronil Desulfinyl	0.572	Spike	P	0 - 32
2396558	Fipronil Sulfide	8.98	Spike	P	0 - 30
2396558	Fipronil Sulfone	12.3	Spike	P	0 - 33
2396558	Fluazifop-P-butyl	4.96	Spike	P	0 - 38
2396558	Fludioxonil	0.848	Spike	P	0 - 29
2396558	Flumioxazin	21.4	Spike	P	0 - 51
2396558	Flutolanil	4.85	Spike	P	0 - 25
2396558	Fluxapyroxad	8.37	Spike	P	0 - 45
2396558	Fonofos	23.2	Spike	P	0 - 27
2396558	Hexabromobenzene	4.74	Spike	P	0 - 30
2396558	Hexazinone	1.78	Spike	P	0 - 30
2396558	Imazalil	18.7	Spike	P	0 - 100
2396558	Iprodione	12.8	Spike	P	0 - 33
2396558	Loratadine	19.3	Spike	P	0 - 56
2396558	Malathion	2.10	Spike	P	0 - 37
2396558	Metalaxyl	27.7	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P427785

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396558	Metolachlor	10.9	Spike	P	0 - 29
2396558	Metribuzin	1.41	Spike	P	0 - 45
2396558	Mevinphos	15.0	Spike	P	0 - 29
2396558	Molinate	8.41	Spike	P	0 - 33
2396558	Myclobutanil	1.76	Spike	P	0 - 26
2396558	Naled	15.7	Spike	P	0 - 37
2396558	Napropamide	2.58	Spike	P	0 - 44
2396558	Norflurazon	9.04	Spike	P	0 - 30
2396558	Octinoxate	5.77	Spike	P	0 - 45
2396558	Oxadiazon	4.56	Spike	P	0 - 28
2396558	Oxybenzone	4.46	Spike	P	0 - 46
2396558	Oxyfluorfen	5.96	Spike	P	0 - 28
2396558	Parathion Ethyl	3.77	Spike	P	0 - 31
2396558	Parathion Methyl	2.28	Spike	P	0 - 29
2396558	PBB-153	4.09	Spike	P	0 - 30
2396558	PBDE-47	1.38	Spike	P	0 - 36
2396558	PBDE-99	2.12	Spike	P	0 - 40
2396558	Pendimethalin	13.1	Spike	P	0 - 33
2396558	Pentabromotoluene	5.29	Spike	P	0 - 30
2396558	Phenytoin	8.86	Spike	P	0 - 100
2396558	Phorate	17.4	Spike	P	0 - 36
2396558	Prodiamine	16.1	Spike	P	0 - 71
2396558	Prometon	6.75	Spike	P	0 - 36
2396558	Prometryn	10.4	Spike	P	0 - 28
2396558	Pronamide	2.67	Spike	P	0 - 24
2396558	Propanil	10.9	Spike	P	0 - 28
2396558	Propargite	6.12	Spike	P	0 - 43
2396558	Propiconazole	6.91	Spike	P	0 - 33
2396558	Pyraflufen Ethyl	7.08	Spike	P	0 - 29
2396558	Pyridaben	15.3	Spike	P	0 - 30
2396558	Pyriproxyfen	13.7	Spike	P	0 - 79
2396558	Simazine	1.88	Spike	P	0 - 29
2396558	Stirophos	4.46	Spike	P	0 - 61
2396558	Sulfentrazone	22.4	Spike	P	0 - 33
2396558	Tebuconazole	0.783	Spike	P	0 - 69
2396558	Terbufos	10.9	Spike	P	0 - 29
2396558	Terbuthylazine	3.28	Spike	P	0 - 32
2396558	Tetradecachloro-m-terphenyl	6.73	Spike	P	0 - 30
2396558	Thiobencarb	9.36	Spike	P	0 - 26
2396558	Tri-o-cresyl Phosphate	2.34	Spike	P	0 - 33
2396558	Triadimefon	7.90	Spike	P	0 - 28
2396558	Tris(1-chloro-2-propyl) phosphate (TCPP)	2.76	Spike	P	0 - 30
2396558	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	1.83	Spike	P	0 - 30
2396558	Tris(2-chloroethyl) phosphate (TCEP)	4.04	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P427546

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395861	Acesulfame K	0.404	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P427546

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395861	AMPA	2.09	Spike	P	0 - 30
2395861	Endothall	6.67	Spike	P	0 - 30
2395861	Glufosinate	1.38	Spike	P	0 - 30
2395861	Glyphosate	5.22	Spike	P	0 - 30
2395861	Sucralose	0.184	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P427647

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395840	2,4-D	6.46	Spike	P	0 - 30
2395840	2,4,5-T	4.13	Spike	P	0 - 30
2395840	Acetaminophen	0.713	Spike	P	0 - 30
2395840	Acetamiprid	5.39	Spike	P	0 - 30
2395840	Afidopyropen	18.6	Spike	P	0 - 30
2395840	Bentazon	6.03	Spike	P	0 - 30
2395840	Benzovindiflupyr	5.76	Spike	P	0 - 30
2395840	Carbamazepine	1.94	Spike	P	0 - 30
2395840	Clothianidin	14.6	Spike	P	0 - 30
2395840	Dinotefuran	6.91	Spike	P	0 - 30
2395840	Diuron	17.1	Spike	P	0 - 30
2395840	Fenuron	12.6	Spike	P	0 - 30
2395840	Fluridone	5.13	Spike	P	0 - 30
2395840	Hydrocodone	4.58	Spike	P	0 - 30
2395840	Ibuprofen	2.47	Spike	P	0 - 30
2395840	Imazapyr	9.58	Spike	P	0 - 30
2395840	Imidacloprid	14.2	Spike	P	0 - 30
2395840	Linuron	12.8	Spike	P	0 - 30
2395840	Mandestrobin	5.53	Spike	P	0 - 30
2395840	MCP	0.560	Spike	P	0 - 30
2395840	Naproxen	25.4	Spike	P	0 - 30
2395840	Primidone	4.16	Spike	P	0 - 30
2395840	Pyraclostrobin	2.26	Spike	P	0 - 30
2395840	Silvex	4.74	Spike	P	0 - 30
2395840	Thiamethoxam	14.9	Spike	P	0 - 30
2395840	Tolfenpyrad	2.88	Spike	P	0 - 30
2395840	Triclopyr	4.07	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P427850

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396122	Total Alkalinity	0.125	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P428327

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: P428327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396188	TDS	1.50	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P427852

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2396122	Fluoride	1.01	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P427906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2395708	Organic Carbon	0.722	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2396202
Field Sample ID: G2NE1189

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	94.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	94.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.3	P	30 - 160
EPA 8321B	Diuron-d6	64.4	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	82.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.5	P	30 - 160
EPA 8321B	Primidone-d5	101	P	30 - 160
EPA 8321B	Sucralose-d6	65.6	P	30 - 160

Lab Sample ID: 2396208
Field Sample ID: G2NE1189

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	71.5	P	20 - 200
EPA 8270E	Simazine-d10	99.7	P	62 - 142
EPA 8270E	Terbufos-d10	104	P	58 - 132
EPA 8270E	Terphenyl-d14	95.8	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A118185

Included Lab Sample IDs: 2396188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A118187

Included Lab Sample IDs: 2396190

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	98.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A118188

Included Lab Sample IDs: 2396188

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118228

Included Lab Sample IDs: 2396189

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A118236

Included Lab Sample IDs: 2396189

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A118247

Included Lab Sample IDs: 2396188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.7	98.1	P/P	90 - 110
Sulfate	97.7	96.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A118252

Included Lab Sample IDs: 2396202

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	101	101	P/P	60 - 160
Endothall	116	104	P/P	60 - 160
Glufosinate	102	103	P/P	60 - 160
Glyphosate	117	105	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A118253
Included Lab Sample IDs: 2396202

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	91.3	92.1	P/P	60 - 160
Sucralose	106	92.5	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A118258
Included Lab Sample IDs: 2396189

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	91.7	98.7	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A118280
Included Lab Sample IDs: 2396188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.7	96.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A118280
Included Lab Sample IDs: 2396188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	108	107	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A118307
Included Lab Sample IDs: 2396207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	101	P/P	90 - 110
Antimony	105	105	P/P	90 - 110
Arsenic	101	99.9	P/P	90 - 110
Barium	101	101	P/P	90 - 110
Beryllium	96.9	95.9	P/P	90 - 110
Boron	104	106	P/P	90 - 110
Cadmium	101	102	P/P	90 - 110
Chromium	98.6	97.4	P/P	90 - 110
Cobalt	101	99.2	P/P	90 - 110
Copper	98.6	97.1	P/P	90 - 110
Lead	103	102	P/P	90 - 110
Manganese	100	99.6	P/P	90 - 110
Molybdenum	99.6	99.2	P/P	90 - 110
Nickel	98.1	96.7	P/P	90 - 110
Selenium	101	101	P/P	90 - 110
Silver	103	103	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A118309
Included Lab Sample IDs: 2396202

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

Reference Method: EPA 8321B
Run ID: A118309
Included Lab Sample IDs: 2396202

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.6	95.2	P/P	50 - 150
2,4,5-T	97.6	93.7	P/P	50 - 150
Acetaminophen	104	105	P/P	60 - 160
Acetamiprid	117	119	P/P	50 - 150
Afidopyropen	93.8	124	P/P	50 - 150
Bentazon	130	113	P/P	50 - 160
Benzovindiflupyr	103	110	P/P	50 - 150
Carbamazepine	114	122	P/P	60 - 150
Clothianidin	131	131	P/P	60 - 150
Dinotefuran	134	149	P/P	50 - 150
Diuron	123	116	P/P	60 - 160
Fenuron	123	123	P/P	60 - 150
Fluridone	106	101	P/P	60 - 160
Hydrocodone	145	145	P/P	60 - 150
Ibuprofen	105	86.8	P/P	50 - 160
Imazapyr	135	134	P/P	50 - 150
Imidacloprid	104	107	P/P	60 - 150
Linuron	107	112	P/P	60 - 150
Mandestrobin	103	112	P/P	50 - 150
MCPP	95.8	87.7	P/P	50 - 150
Naproxen	101	131	P/P	50 - 160
Primidone	112	113	P/P	60 - 150
Pyraclostrobin	102	101	P/P	60 - 150
Silvex	93.1	104	P/P	50 - 150
Thiamethoxam	138	134	P/P	50 - 150
Tolfenpyrad	97.5	98.4	P/P	60 - 150
Triclopyr	107	105	P/P	50 - 150

Reference Method: SM 5310 B-2011
Run ID: A118311
Included Lab Sample IDs: 2396189

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.0	99.6	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A118326
Included Lab Sample IDs: 2396208

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.2		P	80 - 120
Avobenzene	94.3		P	80 - 120
Dechlorane 602	101		P	80 - 120
Dechlorane 603	107		P	80 - 120
Dechlorane Plus	95.3		P	80 - 120
Hexabromobenzene	99.0		P	80 - 120
Octinoxate	97.1		P	80 - 120
Oxybenzone	96.2		P	80 - 120
PBB-153	97.9		P	80 - 120
PBDE-47	95.3		P	80 - 120
PBDE-99	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118326
Included Lab Sample IDs: 2396208

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pentabromotoluene	97.0		P	80 - 120
Tetradecachloro-m-terphenyl	78.0*		F	80 - 120
Tri-o-cresyl Phosphate	92.9		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	94.0		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	96.6		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A118335
Included Lab Sample IDs: 2396207

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A118342
Included Lab Sample IDs: 2396189

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A118359
Included Lab Sample IDs: 2396207

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	104	P/P	90 - 110
Iron	105	104	P/P	90 - 110
Magnesium	103	101	P/P	90 - 110
Potassium	101	99.6	P/P	90 - 110
Sodium	98.5	98.7	P/P	90 - 110
Strontium	100	99.9	P/P	90 - 110
Tin	101	101	P/P	90 - 110
Titanium	101	101	P/P	90 - 110
Vanadium	100	99.6	P/P	90 - 110
Zinc	98.8	97.7	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A118515
Included Lab Sample IDs: 2396208

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	105		P	80 - 120
Alachlor	93.8		P	80 - 120
Ametryn	96.7		P	80 - 120
Atrazine Desethyl	90.1		P	80 - 120
Azinphos Methyl	112		P	80 - 120
Azoxystrobin	99.1		P	80 - 120
Bromacil	106		P	80 - 120
Butylate	115		P	80 - 120
Caffeine	96.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118515
Included Lab Sample IDs: 2396208

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbophenothion	119		P	80 - 120
Carfentrazone Ethyl	97.3		P	80 - 120
Chlorfenapyr	118		P	80 - 120
Chlorpyrifos Ethyl	115		P	80 - 120
Chlorpyrifos Methyl	105		P	80 - 120
Coumaphos	111		P	80 - 120
Cyanazine	101		P	80 - 120
Cyprodinil	108		P	80 - 120
Demeton	115		P	80 - 120
Diazinon	95.7		P	80 - 120
Difenoconazole	102		P	80 - 120
Dimethenamid	102		P	80 - 120
Dimethomorph	100		P	80 - 120
Disulfoton	95.1		P	80 - 120
Dithiopyr	111		P	80 - 120
EPTC	89.8		P	80 - 120
Ethion	115		P	80 - 120
Ethoprop	109		P	80 - 120
Etridiazole	98.7		P	80 - 120
Fenamiphos	106		P	80 - 120
Fenbuconazole	108		P	80 - 120
Fipronil	118		P	80 - 120
Fipronil Desulfinyl	116		P	80 - 120
Fipronil Sulfide	117		P	80 - 120
Fipronil Sulfone	108		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120
Fludioxonil	114		P	80 - 120
Flumioxazin	106		P	80 - 120
Flutolanil	109		P	80 - 120
Fluxapyroxad	135*		F	80 - 120
Fonofos	115		P	80 - 120
Hexazinone	98.4		P	80 - 120
Imazalil	115		P	80 - 120
Iprodione	123*		F	80 - 120
Loratadine	93.1		P	80 - 120
Malathion	116		P	80 - 120
Metalaxyl	114		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	97.1		P	80 - 120
Mevinphos	110		P	80 - 120
Molinate	106		P	80 - 120
Myclobutanil	108		P	80 - 120
Naled	102		P	80 - 120
Napropamide	115		P	80 - 120
Norflurazon	99.2		P	80 - 120
Oxadiazon	105		P	80 - 120
Oxyfluorfen	107		P	80 - 120
Parathion Ethyl	87.6		P	80 - 120
Parathion Methyl	110		P	80 - 120
Pendimethalin	114		P	80 - 120
Phenytain	99.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118515
Included Lab Sample IDs: 2396208

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Phorate	97.0		P	80 - 120
Prodiamine	115		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	111		P	80 - 120
Pronamide	91.4		P	80 - 120
Propanil	98.2		P	80 - 120
Propargite	80.7		P	80 - 120
Propiconazole	103		P	80 - 120
Pyraflufen Ethyl	114		P	80 - 120
Pyridaben	94.1		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	105		P	80 - 120
Stiropfos	114		P	80 - 120
Sulfentrazone	126*		F	80 - 120
Tebuconazole	107		P	80 - 120
Terbufos	107		P	80 - 120
Terbutylazine	96.6		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	114		P	80 - 120

Reference Method: EPA 8270E
Run ID: A118523
Included Lab Sample IDs: 2396208

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	94.5		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)	96.9					1.64	
EPA 180.1 Rev. 2.0	Turbidity	99.6					4.58	
EPA 200.7 Rev. 4.4	Calcium	108	101	102				1.14
	Iron	107	106	105	105			0.888
	Magnesium	104	99.7	103				0.804
	Potassium	102	101	99.4	100			1.31
	Sodium	102	98.0	98.5				1.17
	Strontium	100	99.8	98.7	98.8			1.05
	Tin	104	103	102	104			1.10
	Titanium	103	103	101	101			1.65
	Vanadium	101	100	99.1	98.9			1.26
	Zinc	99.2	95.5	92.9	94.0			2.76
EPA 200.8 Rev. 5.4	Aluminum	102	101	99.4	101			1.48
	Antimony	107	107	105	105			1.21
	Arsenic	102	101	100	99.8			0.995
	Barium	104	103	101	102			1.01
	Beryllium	93.3	94.5	94.3	91.6			0.219
	Boron	102	106	105	109			0.907
	Cadmium	104	105	104	103			1.24
	Chromium	101	99.9	97.8	97.6			2.06
	Cobalt	104	100	98.3	97.8			2.02
	Copper	103	96.9	95.6	94.8			1.30
	Lead	103	102	102	102			0.134
	Manganese	100	101	99.4	100			1.41
	Molybdenum	100	102	102	101			0.191
	Nickel	103	98.9	96.3	95.7			2.67
	Selenium	100	98.2	97.8	96.4			0.421
	Silver	106	104	103	104			1.58
	Thallium	101	103	102	102			0.0645
EPA 300.0 Rev. 2.1	Chloride	98.7	101	94.8			0.546	
	Sulfate	96.7	99.0	96.4			1.52	
EPA 350.1 Rev. 2.0	Ammonia-N	104	106	101				4.00
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.9	99.9	96.3				2.54
EPA 353.2 Rev. 2.0	NO2NO3-N	103	104	104				0.0
EPA 365.1 Rev. 2.0	Total-P	99.7	102	102				0.138
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.4	97.8	98.0				0.204
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.6	83.6	87.2				4.16
	Acetochlor	82.1	85.0	82.3				3.29
	Alachlor	91.7	73.3	71.8				2.01
	Ametryn	97.7	83.4	86.9				4.11
	Atrazine	99.0	90.2	91.0				0.794
	Atrazine Desethyl	74.8	73.3	80.5				9.49
	Avobenzone	118	117	112				3.89
	Azinphos Methyl	59.7	49.6	49.6				0.100
	Azoxystrobin	98.1	88.5	88.4				0.0132
	Bromacil	80.3						13.4
	Butylate	51.5	22.9	31.7				32.4
	Caffeine	110	84.3	99.1				12.9
	Carbophenothion	88.3	79.2	81.5				2.83
	Carfentrazone Ethyl	84.8	70.3	63.7				9.92
	Chlorfenapyr	88.7	78.8	81.4				3.24
	Chlorpyrifos Ethyl	96.8	102	91.4				10.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	97.8	91.8	89.7		2.33
	Coumaphos	129	108	138		24.4
	Cyanazine	97.6	105	119		12.6
	Cyprodinil	92.4	84.4	95.2		11.9
	Dechlorane 602	89.6	70.8	74.0		4.43
	Dechlorane 603	102	84.7	84.9		0.247
	Dechlorane Plus	85.9	56.9	55.0		2.76
	Demeton	70.3	87.4	101		14.3
	Diazinon	120	126	125		1.39
	Difenoconazole	81.5	72.5	70.5		2.70
	Dimethenamid	98.7	75.6	88.8		16.0
	Dimethomorph	90.0	97.4	95.0		2.53
	Disulfoton	74.7	88.7	81.0		9.00
	Dithiopyr	98.2	75.7	85.3		11.9
	EPTC	48.4	24.4	25.5		4.33
	Ethion	95.4	71.9	72.7		1.02
	Ethoprop	92.2	82.6	91.7		10.5
	Etridiazole	50.3	32.8	36.5		10.5
	Fenamiphos	94.5	85.6	96.6		12.1
	Fenbuconazole	108	113	131		14.6
	Fipronil	96.4	84.3	99.6		16.6
	Fipronil Desulfinyl	87.5	72.0	71.6		0.572
	Fipronil Sulfide	84.2	76.5	83.7		8.98
	Fipronil Sulfone	92.5	74.9	84.7		12.3
	Fluazifop-P-butyl	77.3	63.9	60.8		4.96
	Fludioxonil	113	111	112		0.848
	Flumioxazin	133	140	174		21.4
	Flutolanil	99.5	102	107		4.85
	Fluxapyroxad	102	104	113		8.37
	Fonofos	103	106	83.8		23.2
	Hexabromobenzene	109	98.3	103		4.74
	Hexazinone	101	105	103		1.78
	Imazalil	117	119	98.2		18.7
	Iprodione	76.3	72.4	63.7		12.8
	Loratadine	66.3	70.2	57.8		19.3
	Malathion	100	76.0	77.9		2.10
	Metalaxyl	103	92.9	67.3		27.7
	Metolachlor	81.6	75.8	84.5		10.9
	Metribuzin	98.1	91.4	90.2		1.41
	Mevinphos	87.9	78.1	90.8		15.0
	Molinate	64.3	52.7	57.3		8.41
	Myclobutanil	78.6	70.5	69.3		1.76
	Naled	107	69.5	81.3		15.7
	Napropamide	100	97.5	95.0		2.58
	Norflurazon	90.9				9.04
	Octinoxate	94.2	81.7	77.1		5.77
	Oxadiazon	94.5	97.5	102		4.56
	Oxybenzone	92.5	89.2	85.3		4.46
	Oxyfluorfen	89.6	79.5	84.4		5.96
	Parathion Ethyl	93.7	90.1	86.7		3.77
	Parathion Methyl	113	100	98.0		2.28
	PBB-153	112	98.4	103		4.09
	PBDE-47	95.1	89.1	87.8		1.38
	PBDE-99	89.0	82.0	83.7		2.12

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Pendimethalin	92.7	110	125			13.1
	Pentabromotoluene	97.1	83.3	87.9			5.29
	Phenytoin	66.4	55.7	60.8			8.86
	Phorate	74.1	68.2	81.2			17.4
	Prodiamine	53.6	51.8	60.8			16.1
	Prometon	106	98.7	106			6.75
	Prometryn	103	91.9	102			10.4
	Pronamide	101	99.9	97.3			2.67
	Propanil	101	85.1	94.9			10.9
	Propargite	87.0	71.7	67.4			6.12
	Propiconazole	83.1	85.8	91.9			6.91
	Pyraflufen Ethyl	110	114	123			7.08
	Pyridaben	113	105	123			15.3
	Pyriproxyfen	46.5	40.7	35.5			13.7
	Simazine	112	146	149			1.88
	Stiophos	83.8	72.0	75.3			4.46
	Sulfentrazone	85.7	77.1	96.6			22.4
	Tebuconazole	116	122	121			0.783
	Terbufos	98.4	99.2	89.0			10.9
	Terbutylazine	104	97.0	93.9			3.28
	Tetradecachloro-m-terphenyl	122	128	120			6.73
	Thiobencarb	94.2	84.2	92.5			9.36
	Tri-o-cresyl Phosphate	96.9	90.8	93.0			2.34
	Triadimefon	75.3	66.8	72.3			7.90
	Tris(1-chloro-2-propyl) phosphate (TCPP)	98.8	78.8	81.6			2.76
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	90.7	84.7	86.3			1.83
	Tris(2-chloroethyl) phosphate (TCEP)	101	87.1	90.7			4.04
EPA 8321B	2,4-D	106	105	98.5			6.46
	2,4,5-T	107	100	96.1			4.13
	Acesulfame K	88.7	95.5	95.8			0.404
	Acetaminophen	92.7	87.8	88.4			0.713
	Acetamiprid	85.4	90.7	95.7			5.39
	Afidopyropen	71.5	74.2	61.6			18.6
	AMPA	104	114	111			2.09
	Bentazon	91.6	93.6	99.4			6.03
	Benzovindiflupyr	95.2	88.7	83.8			5.76
	Carbamazepine	95.2	95.1	97.0			1.94
	Clothianidin	115	118	102			14.6
	Dinotefuran	118	126	135			6.91
	Diuron	89.1	90.9	76.6			17.1
	Endothall	103	99.9	107			6.67
	Fenuron	109	101	89.4			12.6
	Fluridone	76.7	83.0	78.8			5.13
	Glufosinate	92.3	88.5	87.3			1.38
	Glyphosate	101	92.7	88.0			5.22
	Hydrocodone	126	137	131			4.58
	Ibuprofen	66.0	72.8	74.6			2.47
	Imazapyr	123	142	129			9.58
	Imidacloprid	98.0	107	92.5			14.2
	Linuron	89.6	79.9	90.8			12.8
	Mandestrobin	87.5	86.3	81.7			5.53

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 8321B	MCCP	101	101	101			0.560
	Naproxen	95.7	82.9	107			25.4
	Primidone	103	101	106			4.16
	Pyraclostrobin	79.6	70.2	68.7			2.26
	Silvex	107	99.6	104			4.74
	Sucralose	86.8	87.3	87.5			0.184
	Thiamethoxam	117	128	110			14.9
	Tolfenpyrad	54.8	44.9	46.2			2.88
	Triclopyr	98.0	96.8	92.9			4.07
SM 2320 B-2011	Total Alkalinity	96.9				0.125	
SM 2540 C-2015	TDS	105				1.50	
SM 2540 D-2015	TSS	92.7					
SM 4500-F- C-2011	Fluoride	104	108	106			1.01
SM 5310 B-2011	Organic Carbon	95.8	97.4	96.6			0.722

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2396188
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2396188
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2396207
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2396207
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2396188
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2396188
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2396189
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2396189
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2396189
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2396189
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2396190
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2396208
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2396208
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2396202
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2396188
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2396207
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2396188
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2396188
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2396188
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2396189

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	03/24/2023			03/24/2023 13:58	Anna M. Plaviak	2396188
EPA 180.1 Rev. 2.0	03/24/2023			03/24/2023 14:08	Khloe J Berg	2396188
EPA 200.7 Rev. 4.4	03/24/2023	03/29/2023 10:50	Vijayalakshmi Reddy	04/03/2023 19:32	McKinley C Carter	2396207
EPA 200.8 Rev. 5.4	03/24/2023	03/29/2023 10:50	Vijayalakshmi Reddy	03/30/2023 17:08	Conrad Hartmann	2396207
	03/24/2023	03/29/2023 10:50	Vijayalakshmi Reddy	03/31/2023 22:24	Conrad Hartmann	2396207
EPA 300.0 Rev. 2.1	03/24/2023			03/30/2023 16:02	James L Waggeberby	2396188
EPA 350.1 Rev. 2.0	03/24/2023			03/28/2023 12:48	Khloe J Berg	2396189
EPA 351.2 Rev. 2.0	03/24/2023	03/28/2023 11:05	Simonne.V. Calhoun	03/29/2023 09:52	Judith K. Clark	2396189
EPA 353.2 Rev. 2.0	03/24/2023			04/03/2023 09:57	Beverly Y. Sanders	2396189
EPA 365.1 Rev. 2.0	03/24/2023	03/27/2023 13:30	Alexis Price	03/28/2023 10:27	James L Waggeberby	2396189
EPA 365.1 Rev. 2.0 dissolved	03/24/2023			03/24/2023 14:51	Elise M. Gillis	2396190
EPA 8270E	03/24/2023	03/30/2023 08:30	Rasheda Ghaffari	03/31/2023 20:50	Arthur Maknenko	2396208
	03/24/2023	03/30/2023 08:30	Rasheda Ghaffari	04/03/2023 16:02	Vandana T. Nagar	2396208
	03/24/2023	03/30/2023 08:30	Rasheda Ghaffari	04/06/2023 16:34	Vandana T. Nagar	2396208
EPA 8321B	03/24/2023	03/24/2023 13:00	Manjita Shrestha	03/24/2023 23:18	Manjita Shrestha	2396202
	03/24/2023	03/24/2023 13:00	Manjita Shrestha	03/25/2023 07:28	Manjita Shrestha	2396202
	03/24/2023	03/28/2023 09:00	Hoor Shaik	03/31/2023 01:01	Juyoung Kim	2396202
	03/24/2023	03/28/2023 09:00	Hoor Shaik	03/31/2023 11:03	Juyoung Kim	2396202
SM 2320 B-2011	03/24/2023			03/30/2023 01:30	Dale L. Simmons	2396188
SM 2340 B-2011	03/24/2023			04/03/2023 19:32	McKinley C Carter	2396207
SM 2540 C-2015	03/24/2023			03/29/2023 16:02	Yijie Li	2396188
SM 2540 D-2015	03/24/2023			03/29/2023 16:02	Yijie Li	2396188
SM 4500-F- C-2011	03/24/2023			03/30/2023 01:30	Dale L. Simmons	2396188
SM 5310 B-2011	03/24/2023			03/30/2023 21:41	Elise M. Gillis	2396189