

Chemical Analysis Report

NE-DIST-2023-08-17-01

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

Event Description: **Lake LVI**
Request ID: **RQ-2023-08-21-60**
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: Colin Wright, Program Administrator

Date Certified: 14-SEP-2023 08:47

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light pink rectangular background.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Lake Winnott Center

Collection Date/Time: 08/16/2023 10:40

Field ID: G3NE0006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2431907	DEP SOP: NU-094-1	Color (true)	59	A	PCU	P433993	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P434000	
	EPA 300.0 Rev. 2.1	Chloride	8.2		mg Cl/L	P434299	
		Sulfate	1.9		mg SO4/L	P434304	
	SM 2320 B-2011	Total Alkalinity	3.0		mg CaCO3/L	P434410	
	SM 2540 C-2015	TDS	47		mg/L	P434365	
	SM 2540 D-2015	TSS	2	I	mg/L	P434121	
2431908	SM 4500-F- C-2011	Fluoride	0.042	I	mg F/L	P434144	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P434434	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.80		mg N/L	P434292	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P434640	
	EPA 365.1 Rev. 2.0	Total-P	0.017		mg P/L	P434111	
2431909	SM 5310 B-2011	Organic Carbon	12		mg C/L	P434203	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P433983	
2431911	EPA 8321B	2,4-D	0.50		ug/L	P434161	
		Acesulfame K	0.10	U	ug/L	P434027	
		2,4,5-T	0.0040	U	ug/L	P434161	
		AMPA	0.10	U	ug/L	P434027	MS
		Acetaminophen	0.0080	U	ug/L	P434161	
		Endothall	0.25	U	ug/L	P434027	
		Acetamiprid	0.0020	U	ug/L	P434161	MS, RPD
		Glufosinate	0.10	U	ug/L	P434027	
		Glyphosate	0.10	U	ug/L	P434027	
		Afidopyrophen	0.0020	U	ug/L	P434161	
		Bentazon	8.0E-04	U	ug/L	P434161	
		Sucralose	0.056		ug/L	P434027	
		Benzovindiflupyr	0.0020	U	ug/L	P434161	
		Carbamazepine	8.0E-04	U	ug/L	P434161	
		Clothianidin	0.0020	U	ug/L	P434161	
		Dinotefuran	0.0020	U	ug/L	P434161	MS
		Diuron	0.0020	U	ug/L	P434161	
		Fenuron	0.032	U	ug/L	P434161	MS
		Fluridone	8.0E-04	U	ug/L	P434161	
		Imazapyr	0.0059	I	ug/L	P434161	
		Hydrocodone	0.0020	U	ug/L	P434161	
		Ibuprofen	0.080	U	ug/L	P434161	
		Imidacloprid	0.0020	U	ug/L	P434161	
		Linuron	0.0040	U	ug/L	P434161	
		Mandestrobin	0.0020	U	ug/L	P434161	
		MCPD	0.0020	U	ug/L	P434161	
		Naproxen	0.0080	U	ug/L	P434161	
		Primidone	0.0040	U	ug/L	P434161	
		Pyraclostrobin	0.0020	U	ug/L	P434161	

Field ID: G3NE0006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2431911	EPA 8321B	Silvex	0.0040	U	ug/L	P434161	
		Thiamethoxam	0.0020	U	ug/L	P434161	
		Tolfenpyrad	0.0020	U	ug/L	P434161	
		Triclopyr	0.0040	U	ug/L	P434161	
2431916	EPA 200.7 Rev. 4.4	Calcium	2.21		mg/L	P434050	
		Iron	91	I	ug/L	P434050	
		Magnesium	1.24		mg/L	P434050	
		Potassium	1.6		mg/L	P434050	
		Sodium	4.7		mg/L	P434050	
		Strontium	9.6		ug/L	P434050	
		Tin	3.0	U	ug/L	P434050	
		Titanium	0.75	U	ug/L	P434050	
		Vanadium	2.0	U	ug/L	P434050	
		Zinc	5.0	U	ug/L	P434050	
	EPA 200.8 Rev. 5.4	Aluminum	48		ug/L	P434050	
		Antimony	0.082	I	ug/L	P434050	
		Arsenic	5.74		ug/L	P434050	
		Barium	4.17		ug/L	P434050	
		Beryllium	0.010	U	ug/L	P434050	
		Boron	21.7		ug/L	P434050	
		Cadmium	0.020	U	ug/L	P434050	
		Chromium	0.40	U	ug/L	P434050	
		Cobalt	0.041	I	ug/L	P434050	
		Copper	0.77	I	ug/L	P434050	
		Lead	0.20	U	ug/L	P434050	
		Manganese	5.17		ug/L	P434050	
		Molybdenum	0.15	U	ug/L	P434050	
		Nickel	0.50	U	ug/L	P434050	
		Selenium	0.20	U	ug/L	P434050	
		Silver	0.010	U	ug/L	P434050	
		Thallium	0.10	U	ug/L	P434050	
	SM 2340 B-2011	Hardness	10.6		mg/L	P434050	
2431920	EPA 8270E	Oxybenzone**	10	U	ng/L	P434176	
		Acetochlor	0.20	U	ng/L	P434176	
		Octinoxate**	150	U	ng/L	P434176	
		Alachlor	0.41	U	ng/L	P434176	
		Avobenzone**	100	U	ng/L	P434176	
		Ametryn	1.1	U	ng/L	P434176	
		Atrazine	2.7		ng/L	P434176	
		PBDE-47**	4.1	U	ng/L	P434176	
		Atrazine Desethyl	1.3	U	ng/L	P434176	
		PBDE-99**	5.1	U	ng/L	P434176	
		Azinphos Methyl	3.1	U	ng/L	P434176	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P434176	
		Azoxystrobin	0.41	U	ng/L	P434176	

Field ID: G3NE0006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2431920	EPA 8270E	Bromacil	0.61	U	ng/L	P434176	
		2-Ethylhexyl	12	U	ng/L	P434176	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.20	U	ng/L	P434176	
		Dechlorane Plus**	31	U	ng/L	P434176	
		Caffeine**	11	I J	ng/L	P434176	LCS
		Dechlorane 602**	5.1	U	ng/L	P434176	
		Carbophenothion	0.51	U	ng/L	P434176	
		Dechlorane 603**	4.1	U	ng/L	P434176	
		Carfentrazone Ethyl	0.15	U	ng/L	P434176	
		Hexabromobenzene**	6.1	U	ng/L	P434176	
		Chlorfenapyr	0.31	U	ng/L	P434176	
		PBB-153**	8.2	U	ng/L	P434176	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P434176	
		Pentabromotoluene**	3.1	U	ng/L	P434176	
		Chlorpyrifos Methyl	0.10	U	ng/L	P434176	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P434176	
		Coumaphos	1.1	U	ng/L	P434176	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P434176	
		Cyanazine	5.1	U	ng/L	P434176	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P434176	
		Cyprodinil	0.20	U	ng/L	P434176	
		Tetradecachloro-m-terphenyl**	7.7	UJ	ng/L	P434176	LCS
		Demeton	3.6	U	ng/L	P434176	
		Diazinon	0.13	U	ng/L	P434176	
		Difenoconazole	0.61	U	ng/L	P434176	
		Dimethenamid	0.10	U	ng/L	P434176	
		Dimethomorph	0.31	UJ	ng/L	P434176	LCS, MS
		Disulfoton	0.61	U	ng/L	P434176	
		Dithiopyr	1.0	U	ng/L	P434176	
		EPTC	0.51	U	ng/L	P434176	
		Ethion	0.31	U	ng/L	P434176	
		Ethoprop	0.13	U	ng/L	P434176	
		Etridiazole	0.10	U	ng/L	P434176	
		Fenamiphos	0.46	U	ng/L	P434176	
		Fenbuconazole	0.51	U	ng/L	P434176	
		Fipronil	0.20	U	ng/L	P434176	
		Fipronil Desulfinyl**	0.10	I	ng/L	P434176	
		Fipronil Sulfide	0.10	U	ng/L	P434176	
		Fipronil Sulfone	0.10	U	ng/L	P434176	
		Fluazifop-P-butyl	0.10	U	ng/L	P434176	
		Fludioxonil	0.10	U	ng/L	P434176	
		Flumioxazin	3.1	U	ng/L	P434176	
		Flutolanil	0.10	U	ng/L	P434176	
		Fluxapyroxad	0.26	U	ng/L	P434176	

Field ID: G3NE0006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2431920	EPA 8270E	Fonofos	0.15	U	ng/L	P434176	
		Hexazinone	0.51	U	ng/L	P434176	
		Imazalil	0.66	U	ng/L	P434176	
		Iprodione	0.51	U	ng/L	P434176	
		Loratadine**	0.31	U	ng/L	P434176	
		Malathion	0.36	U	ng/L	P434176	
		Metalaxyl	0.51	U	ng/L	P434176	
		Metolachlor	1.0	I	ng/L	P434176	
		Metribuzin	0.41	U	ng/L	P434176	
		Mevinphos	1.0	U	ng/L	P434176	
		Molinate	0.26	U	ng/L	P434176	
		Myclobutanil	0.36	U	ng/L	P434176	
		Naled	2.6	U	ng/L	P434176	
		Napropamide	0.71	U	ng/L	P434176	
		Norflurazon	1.0	U	ng/L	P434176	
		Oxadiazon	0.36	U	ng/L	P434176	
		Oxyfluorfen	0.20	U	ng/L	P434176	
		Parathion Ethyl	0.15	U	ng/L	P434176	
		Parathion Methyl	0.20	U	ng/L	P434176	
		Pendimethalin	0.77	U	ng/L	P434176	
		Phenytol**	5.4	U	ng/L	P434176	
		Phorate	0.26	U	ng/L	P434176	
		Prodiamine	0.20	U	ng/L	P434176	
		Prometon	3.1	U	ng/L	P434176	
		Prometryn	0.36	U	ng/L	P434176	
		Pronamide	0.10	U	ng/L	P434176	
		Propanil	0.10	U	ng/L	P434176	
		Propargite	0.82	U	ng/L	P434176	
		Propiconazole	0.61	U	ng/L	P434176	
		Pyraflufen Ethyl	0.31	U	ng/L	P434176	
		Pyridaben	9.5		ng/L	P434176	
		Pyriproxyfen	0.26	U	ng/L	P434176	
		Simazine	0.26	U	ng/L	P434176	
		Stirophos	0.41	U	ng/L	P434176	
		Sulfentrazone	1.4	U	ng/L	P434176	
		Tebuconazole	1.4	U	ng/L	P434176	
		Terbufos	0.20	U	ng/L	P434176	
		Terbuthylazine	0.20	U	ng/L	P434176	
		Thiobencarb	0.51	U	ng/L	P434176	
		Triadimefon	0.15	U	ng/L	P434176	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8321B: MS accuracy for some analytes 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: P433993

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434000

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P434050

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: P434050

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: P434299

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: P434304

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434434

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434292

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434640

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434111

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P433983

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

Reference Method: EPA 8270E
Batch ID: P434176

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: P434176

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: P434176

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: P434176

Component	Result	Code	Units
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Octinoxate	150	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: P434176

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: P434027

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: P434161

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
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: P434161

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: P434410

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

Reference Method: SM 2540 C-2015

Batch ID: P434365

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P434121

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P434144

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P434203

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: P433993

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434000

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P434050

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	104		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	102		P	85 - 115
Sodium	102		P	85 - 115
Strontium	98.3		P	85 - 115
Tin	102		P	85 - 115
Titanium	98.1		P	85 - 115
Vanadium	100		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P434050

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	98.3		P	85 - 115
Arsenic	98.9		P	85 - 115
Barium	101		P	85 - 115
Beryllium	93.9		P	85 - 115
Boron	104		P	85 - 115
Cadmium	95.9		P	85 - 115
Chromium	96.7		P	85 - 115
Cobalt	97.9		P	85 - 115
Copper	98.5		P	85 - 115
Lead	92.5		P	85 - 115
Manganese	96.0		P	85 - 115
Molybdenum	97.1		P	85 - 115
Nickel	98.6		P	85 - 115
Selenium	99.3		P	85 - 115
Silver	110		P	85 - 115
Thallium	98.7		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434299

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: P434304

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434434

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434292

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434640

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	107		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434111

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P433983

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

Reference Method: EPA 8270E
Batch ID: P434176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	52.1		P	42 - 162
Acetochlor	79.1		P	69 - 123
Alachlor	82.6		P	65 - 118
Ametryn	119		P	58 - 141
Atrazine	98.9		P	73 - 118
Atrazine Desethyl	96.0		P	32 - 125
Avobenzone	91.0		P	40 - 203
Azinphos Methyl	147		P	36 - 197
Azoxystrobin	114		P	58 - 226
Bromacil	96.5		P	48 - 120
Butylate	59.0		P	27 - 85.0
Caffeine	180		F	40 - 137
Carbophenothion	95.8		P	54 - 132
Carfentrazone Ethyl	104		P	60 - 142
Chlorfenapyr	91.7		P	53 - 117
Chlorpyrifos Ethyl	78.1		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	105		P	66 - 119
Coumaphos	147		P	11 - 234
Cyanazine	117		P	61 - 248
Cyprodinil	87.0		P	50 - 147
Dechlorane 602	53.7		P	50 - 150
Dechlorane 603	69.5		P	50 - 150
Dechlorane Plus	65.8		P	47 - 182
Demeton	69.4		P	30 - 138
Diazinon	92.3		P	67 - 126
Difenoconazole	142		P	38 - 205
Dimethenamid	87.0		P	57 - 111
Dimethomorph	258		F	16 - 212
Disulfoton	95.0		P	46 - 126
Dithiopyr	81.4		P	62 - 115
EPTC	54.6		P	28 - 80.0
Ethion	58.0		P	24 - 122
Ethoprop	97.1		P	62 - 113
Etridiazole	54.2		P	28 - 92.0
Fenamiphos	95.7		P	57 - 128
Fenbuconazole	107		P	52 - 155
Fipronil	92.4		P	63 - 130
Fipronil Desulfinyl	80.5		P	61 - 130
Fipronil Sulfide	92.3		P	56 - 117
Fipronil Sulfone	80.9		P	52 - 118
Fluazifop-P-butyl	92.2		P	61 - 128
Fludioxonil	91.5		P	59 - 129
Flumioxazin	140		P	30 - 250
Flutolanil	80.3		P	53 - 127
Fluxapyroxad	81.7		P	42 - 132
Fonofos	101		P	61 - 110
Hexabromobenzene	53.6		P	50 - 150
Hexazinone	94.0		P	46 - 139
Imazalil	78.8		P	40 - 139
Iprodione	96.0		P	40 - 146
Loratadine	158		P	10 - 224
Malathion	96.1		P	61 - 135
Metaxyl	76.3		P	58 - 121
Metolachlor	111		P	64 - 118
Metribuzin	103		P	45 - 245
Mevinphos	94.7		P	49 - 118
Molinate	59.6		P	42 - 92.0
Myclobutanil	106		P	55 - 127
Naled	52.3		P	10 - 114
Napropamide	81.9		P	39 - 121
Norflurazon	87.8		P	55 - 129
Octinoxate	71.2		P	26 - 166
Oxadiazon	80.4		P	54 - 115
Oxybenzone	69.1		P	49 - 135
Oxyfluorfen	105		P	64 - 139
Parathion Ethyl	96.6		P	70 - 111
Parathion Methyl	97.0		P	76 - 136
PBB-153	59.1		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P434176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	53.7		P	41 - 148
PBDE-99	52.9		P	38 - 147
Pendimethalin	104		P	52 - 118
Pentabromotoluene	55.6		P	50 - 150
Phenytoin	40.4		P	10 - 162
Phorate	95.4		P	40 - 122
Prodiamine	48.0		P	26 - 141
Prometon	95.7		P	54 - 122
Prometryn	91.3		P	61 - 128
Pronamide	101		P	72 - 121
Propanil	117		P	45 - 144
Propargite	74.8		P	10 - 199
Propiconazole	93.7		P	56 - 127
Pyraflufen Ethyl	98.0		P	56 - 140
Pyridaben	120		P	26 - 211
Pyriproxyfen	86.6		P	33 - 194
Simazine	114		P	67 - 121
Stiophos	56.4		P	20 - 142
Sulfentrazone	78.8		P	21 - 144
Tebuconazole	70.2		P	10 - 122
Terbufos	97.3		P	60 - 129
Terbutylazine	76.8		P	69 - 113
Tetradecachloro-m-terphenyl	54.3		F	70 - 200
Thiobencarb	92.1		P	51 - 120
Tri-o-cresyl Phosphate	68.1		P	49 - 150
Triadimefon	80.1		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	70.9		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	65.3		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	71.8		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P434027

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	103		P	40 - 150
AMPA	139		P	40 - 150
Endothall	85.5		P	40 - 150
Glufosinate	82.2		P	40 - 150
Glyphosate	85.3		P	40 - 150
Sucralose	111		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P434161

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	87.1		P	40 - 150
2,4,5-T	92.5		P	40 - 150
Acetaminophen	104		P	30 - 150
Acetamiprid	106		P	40 - 150
Afidopyropen	82.8		P	30 - 150
Bentazon	135		P	30 - 150
Benzovindiflupyr	119		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P434161

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	92.6		P	40 - 150
Clothianidin	104		P	40 - 150
Dinotefuran	102		P	40 - 150
Diuron	104		P	40 - 150
Fenuron	113		P	40 - 150
Fluridone	95.0		P	40 - 150
Hydrocodone	110		P	40 - 150
Ibuprofen	79.7		P	40 - 150
Imazapyr	87.9		P	40 - 150
Imidacloprid	93.9		P	40 - 150
Linuron	86.4		P	40 - 150
Mandestrobin	125		P	40 - 150
MCPP	98.8		P	40 - 150
Naproxen	75.9		P	40 - 150
Primidone	98.0		P	40 - 150
Pyraclostrobin	96.8		P	40 - 150
Silvex	92.4		P	40 - 150
Thiamethoxam	107		P	40 - 150
Tolfenpyrad	64.6		P	30 - 150
Triclopyr	110		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P434410

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.4		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P434365

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	92.7		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P434121

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.9		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P434144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.1		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P434203

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	92.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P434050

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431836	Calcium	104	103	P/P	80 - 120
2431836	Iron	106	104	P/P	80 - 120
2431836	Magnesium	106	105	P/P	80 - 120
2431836	Potassium	104	103	P/P	80 - 120
2431836	Sodium	107	104	P/P	80 - 120
2431836	Strontium	103	102	P/P	80 - 120
2431836	Tin	104	104	P/P	80 - 120
2431836	Titanium	103	101	P/P	80 - 120
2431836	Vanadium	104	102	P/P	80 - 120
2431836	Zinc	106	105	P/P	80 - 120
2431916	Calcium	103		P	80 - 120
2431916	Iron	106		P	80 - 120
2431916	Magnesium	106		P	80 - 120
2431916	Potassium	101		P	80 - 120
2431916	Sodium	106		P	80 - 120
2431916	Strontium	104		P	80 - 120
2431916	Tin	102		P	80 - 120
2431916	Titanium	102		P	80 - 120
2431916	Vanadium	105		P	80 - 120
2431916	Zinc	107		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P434050

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431836	Aluminum	99.6	100	P/P	80 - 120
2431836	Antimony	98.2	98.3	P/P	80 - 120
2431836	Arsenic	100	99.8	P/P	80 - 120
2431836	Barium	100	101	P/P	80 - 120
2431836	Beryllium	93.0	91.2	P/P	80 - 120
2431836	Boron	103	105	P/P	80 - 120
2431836	Cadmium	96.8	97.4	P/P	80 - 120
2431836	Chromium	96.7	96.0	P/P	80 - 120
2431836	Cobalt	98.4	97.7	P/P	80 - 120
2431836	Copper	99.5	99.6	P/P	80 - 120
2431836	Lead	92.7	93.2	P/P	80 - 120
2431836	Manganese	96.4	96.7	P/P	80 - 120
2431836	Molybdenum	96.3	97.0	P/P	80 - 120
2431836	Nickel	99.7	98.7	P/P	80 - 120
2431836	Selenium	101	99.2	P/P	80 - 120
2431836	Silver	108	109	P/P	80 - 120
2431836	Thallium	101	103	P/P	80 - 120
2431916	Aluminum	99.0		P	80 - 120
2431916	Antimony	97.2		P	80 - 120
2431916	Arsenic	98.2		P	80 - 120
2431916	Barium	99.1		P	80 - 120
2431916	Beryllium	93.5		P	80 - 120
2431916	Boron	106		P	80 - 120
2431916	Cadmium	96.0		P	80 - 120
2431916	Chromium	97.0		P	80 - 120
2431916	Cobalt	94.7		P	80 - 120
2431916	Copper	96.6		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P434050

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431916	Lead	92.8		P	80 - 120
2431916	Manganese	95.3		P	80 - 120
2431916	Molybdenum	97.6		P	80 - 120
2431916	Nickel	95.6		P	80 - 120
2431916	Selenium	97.1		P	80 - 120
2431916	Silver	108		P	80 - 120
2431916	Thallium	102		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434299

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431932	Chloride	103		P	90 - 110
2432064	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434304

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431932	Sulfate	98.8		P	90 - 110
2432064	Sulfate	99.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434434

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431882	Ammonia-N	96.6	98.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434640

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431908	NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434111

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431908	Total-P	108	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P433983

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431786	O-Phosphate-P	100	99.7	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P434176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	64.5	75.5	P/P	26 - 165
2431920	Acetochlor	81.1	80.5	P/P	67 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P434176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431920	Alachlor	70.6	72.1	P/P	60 - 120
2431920	Ametryn	140	128	P/P	54 - 216
2431920	Atrazine	94.9	87.3	P/P	66 - 128
2431920	Atrazine Desethyl	100	93.2	P/P	15 - 122
2431920	Avobenzone	117	121	P/P	37 - 178
2431920	Azinphos Methyl	135	134	P/P	40 - 292
2431920	Azoxystrobin	114	102	P/P	35 - 220
2431920	Bromacil	102	94.6	P/P	45 - 127
2431920	Butylate	40.4	48.4	P/P	20 - 83.0
2431920	Caffeine	134	113	P/P	10 - 194
2431920	Carbophenothion	89.8	94.6	P/P	57 - 127
2431920	Carfentrazone Ethyl	98.9	98.3	P/P	51 - 141
2431920	Chlorfenapyr	73.4	74.6	P/P	46 - 111
2431920	Chlorpyrifos Ethyl	76.7	72.4	P/P	52 - 120
2431920	Chlorpyrifos Methyl	99.5	102	P/P	63 - 119
2431920	Coumaphos	136	134	P/P	10 - 228
2431920	Cyanazine	109	119	P/P	59 - 241
2431920	Cyprodinil	77.8	68.7	P/P	47 - 146
2431920	Dechlorane 602	55.7	71.7	P/P	50 - 150
2431920	Dechlorane 603	82.5	93.2	P/P	50 - 150
2431920	Dechlorane Plus	78.2	81.6	P/P	50 - 150
2431920	Demeton	67.8	66.5	P/P	40 - 136
2431920	Diazinon	95.3	84.4	P/P	69 - 132
2431920	Difenoconazole	126	128	P/P	57 - 258
2431920	Dimethenamid	90.6	88.4	P/P	54 - 110
2431920	Dimethomorph	211	211	F/F	28 - 210
2431920	Disulfoton	93.5	98.6	P/P	43 - 133
2431920	Dithiopyr	85.8	89.1	P/P	39 - 116
2431920	EPTC	38.7	45.5	P/P	20 - 78.0
2431920	Ethion	42.0	58.3	P/P	17 - 119
2431920	Ethoprop	90.1	91.7	P/P	66 - 120
2431920	Etridiazole	49.0	51.2	P/P	28 - 96.0
2431920	Fenamiphos	78.6	74.5	P/P	41 - 126
2431920	Fenbuconazole	80.8	76.6	P/P	42 - 169
2431920	Fipronil	92.2	90.9	P/P	61 - 132
2431920	Fipronil Desulfinyl	81.1	81.3	P/P	56 - 132
2431920	Fipronil Sulfide	90.5	87.3	P/P	48 - 119
2431920	Fipronil Sulfone	88.2	82.5	P/P	42 - 131
2431920	Fluazifop-P-butyl	83.1	82.5	P/P	53 - 131
2431920	Fludioxonil	89.3	87.7	P/P	56 - 127
2431920	Flumioxazin	143	144	P/P	19 - 300
2431920	Flutolanil	84.9	75.8	P/P	41 - 127
2431920	Fluxapyroxad	74.4	83.1	P/P	42 - 172
2431920	Fonofos	90.1	83.0	P/P	59 - 113
2431920	Hexabromobenzene	58.9	70.3	P/P	50 - 150
2431920	Hexazinone	89.8	90.3	P/P	66 - 122
2431920	Imazalil	75.9	73.1	P/P	21 - 283
2431920	Iprodione	74.7	73.6	P/P	43 - 150
2431920	Loratadine	149	136	P/P	23 - 201
2431920	Malathion	86.3	84.1	P/P	58 - 136
2431920	Metalaxyl	87.8	83.0	P/P	55 - 120
2431920	Metolachlor	92.1	95.5	P/P	57 - 121

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P434176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431920	Metribuzin	100	105	P/P	58 - 294
2431920	Mevinphos	89.2	82.2	P/P	50 - 126
2431920	Molinate	48.4	52.3	P/P	42 - 93.0
2431920	Myclobutanil	92.6	91.3	P/P	55 - 125
2431920	Naled	39.6	40.2	P/P	18 - 200
2431920	Napropamide	77.1	73.9	P/P	39 - 110
2431920	Norflurazon	83.2	83.0	P/P	48 - 128
2431920	Octinoxate	97.8	99.6	P/P	21 - 159
2431920	Oxadiazon	76.6	74.9	P/P	43 - 112
2431920	Oxybenzone	104	101	P/P	41 - 142
2431920	Oxyfluorfen	93.6	99.4	P/P	64 - 153
2431920	Parathion Ethyl	83.5	90.1	P/P	69 - 114
2431920	Parathion Methyl	92.3	85.7	P/P	79 - 139
2431920	PBB-153	61.9	76.9	P/P	50 - 150
2431920	PBDE-47	69.5	81.6	P/P	27 - 144
2431920	PBDE-99	59.8	71.7	P/P	18 - 150
2431920	Pendimethalin	97.3	93.0	P/P	50 - 139
2431920	Pentabromotoluene	80.3	83.2	P/P	50 - 150
2431920	Phenytoin	55.0	73.9	P/P	10 - 146
2431920	Phorate	87.1	96.2	P/P	54 - 161
2431920	Prodiamine	35.4	31.8	P/P	30 - 161
2431920	Prometon	94.8	88.8	P/P	45 - 134
2431920	Prometryn	94.4	97.3	P/P	45 - 137
2431920	Pronamide	100	105	P/P	65 - 133
2431920	Propanil	120	116	P/P	49 - 142
2431920	Propargite	73.9	80.5	P/P	10 - 203
2431920	Propiconazole	71.8	75.9	P/P	38 - 146
2431920	Pyraflufen Ethyl	84.1	85.9	P/P	34 - 153
2431920	Pyridaben	94.4	105	P/P	12 - 192
2431920	Pyriproxyfen	61.4	86.1	P/P	33 - 180
2431920	Simazine	102	102	P/P	51 - 157
2431920	Stiropfos	45.1	51.0	P/P	10 - 128
2431920	Sulfentrazone	111	111	P/P	53 - 186
2431920	Tebuconazole	57.9	71.1	P/P	10 - 133
2431920	Terbufos	103	102	P/P	65 - 139
2431920	Terbutylazine	80.3	74.7	P/P	66 - 117
2431920	Tetradecachloro-m-terphenyl	88.3	93.0	P/P	70 - 200
2431920	Thiobencarb	89.2	84.6	P/P	51 - 119
2431920	Tri-o-cresyl Phosphate	87.1	96.0	P/P	31 - 144
2431920	Triadimefon	80.4	81.9	P/P	48 - 119
2431920	Tris(1-chloro-2-propyl) phosphate (TCPP)	113	112	P/P	50 - 150
2431920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	96.9	96.2	P/P	50 - 150
2431920	Tris(2-chloroethyl) phosphate (TCEP)	91.5	94.3	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P434027

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431835	Acesulfame K	105	90.9	P/P	40 - 150
2431835	AMPA	159	158	F/F	40 - 150
2431835	Endothall	100	91.4	P/P	40 - 150
2431835	Glufosinate	84.8	79.7	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P434027

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431835	Glyphosate	55.7	66.7	P/P	40 - 150
2431835	Sucralose	113	107	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P434161

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431707	2,4-D	84.7	87.4	P/P	40 - 150
2431707	2,4,5-T	115	128	P/P	40 - 150
2431707	Acetaminophen	68.5	72.9	P/P	30 - 150
2431707	Acetamiprid	43.8	25.6	P/F	40 - 150
2431707	Afidopyropen	76.8	59.9	P/P	30 - 150
2431707	Benzovindiflupyr	102	99.8	P/P	40 - 150
2431707	Carbamazepine	48.6	51.0	P/P	40 - 150
2431707	Clothianidin	54.3	54.3	P/P	40 - 150
2431707	Dinotefuran	31.9	33.4	F/F	40 - 150
2431707	Diuron	44.5	43.5	P/P	40 - 150
2431707	Fenuron	25.7	25.6	F/F	40 - 150
2431707	Fluridone	55.9	53.1	P/P	40 - 150
2431707	Hydrocodone	40.9	41.3	P/P	40 - 150
2431707	Ibuprofen	63.1	67.4	P/P	40 - 150
2431707	Imidacloprid	74.8	75.5	P/P	40 - 150
2431707	Linuron	59.3	50.9	P/P	40 - 150
2431707	Mandestrobin	98.6	95.0	P/P	40 - 150
2431707	MCPP	116	117	P/P	40 - 150
2431707	Naproxen	108	96.8	P/P	40 - 150
2431707	Primidone	49.1	45.8	P/P	40 - 150
2431707	Pyraclostrobin	87.5	87.4	P/P	40 - 150
2431707	Silvex	135	136	P/P	40 - 150
2431707	Thiamethoxam	45.5	46.5	P/P	40 - 150
2431707	Tolfenpyrad	55.7	62.1	P/P	30 - 150
2431707	Triclopyr	134	125	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P434144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432063	Fluoride	97.4	98.6	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P434203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431923	Organic Carbon	95.0	96.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P433993

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431907	Color (true)	0.912	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P434000

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431801	Turbidity	1.26	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P434050

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431836	Calcium	0.638	Spike	P	0 - 20
2431836	Iron	1.52	Spike	P	0 - 20
2431836	Magnesium	1.22	Spike	P	0 - 20
2431836	Potassium	1.59	Spike	P	0 - 20
2431836	Sodium	1.75	Spike	P	0 - 20
2431836	Strontium	1.76	Spike	P	0 - 20
2431836	Tin	0.340	Spike	P	0 - 20
2431836	Titanium	1.69	Spike	P	0 - 20
2431836	Vanadium	1.88	Spike	P	0 - 20
2431836	Zinc	0.620	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P434050

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431836	Aluminum	0.703	Spike	P	0 - 20
2431836	Antimony	0.180	Spike	P	0 - 20
2431836	Arsenic	0.655	Spike	P	0 - 20
2431836	Barium	0.798	Spike	P	0 - 20
2431836	Beryllium	1.87	Spike	P	0 - 20
2431836	Boron	1.63	Spike	P	0 - 20
2431836	Cadmium	0.626	Spike	P	0 - 20
2431836	Chromium	0.719	Spike	P	0 - 20
2431836	Cobalt	0.722	Spike	P	0 - 20
2431836	Copper	0.123	Spike	P	0 - 20
2431836	Lead	0.503	Spike	P	0 - 20
2431836	Manganese	0.363	Spike	P	0 - 20
2431836	Molybdenum	0.682	Spike	P	0 - 20
2431836	Nickel	0.946	Spike	P	0 - 20
2431836	Selenium	1.75	Spike	P	0 - 20
2431836	Silver	0.200	Spike	P	0 - 20
2431836	Thallium	1.31	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431932	Chloride	1.49	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431932	Sulfate	1.27	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431882	Ammonia-N	1.19	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434292

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431902	Kjeldahl Nitrogen	7.78	Sample	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434640

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431908	NO2NO3-N	0.952	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P434111

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431908	Total-P	8.03	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P433983

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431786	O-Phosphate-P	0.500	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P434176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	15.8	Spike	P	0 - 37
2431920	Acetochlor	0.758	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P434176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431920	Alachlor	2.20	Spike	P	0 - 30
2431920	Ametryn	8.67	Spike	P	0 - 32
2431920	Atrazine	5.70	Spike	P	0 - 41
2431920	Atrazine Desethyl	7.41	Spike	P	0 - 36
2431920	Avobenzone	2.76	Spike	P	0 - 36
2431920	Azinphos Methyl	0.581	Spike	P	0 - 75
2431920	Azoxystrobin	11.3	Spike	P	0 - 39
2431920	Bromacil	7.90	Spike	P	0 - 33
2431920	Butylate	18.1	Spike	P	0 - 44
2431920	Caffeine	15.4	Spike	P	0 - 74
2431920	Carbophenothion	5.23	Spike	P	0 - 25
2431920	Carfentrazone Ethyl	0.602	Spike	P	0 - 27
2431920	Chlorfenapyr	1.61	Spike	P	0 - 24
2431920	Chlorpyrifos Ethyl	5.80	Spike	P	0 - 26
2431920	Chlorpyrifos Methyl	2.37	Spike	P	0 - 26
2431920	Coumaphos	1.64	Spike	P	0 - 28
2431920	Cyanazine	9.22	Spike	P	0 - 48
2431920	Cyprodinil	12.5	Spike	P	0 - 29
2431920	Dechlorane 602	25.1	Spike	P	0 - 30
2431920	Dechlorane 603	12.2	Spike	P	0 - 30
2431920	Dechlorane Plus	4.21	Spike	P	0 - 30
2431920	Demeton	1.99	Spike	P	0 - 33
2431920	Diazinon	12.1	Spike	P	0 - 29
2431920	Difenoconazole	1.63	Spike	P	0 - 34
2431920	Dimethenamid	2.43	Spike	P	0 - 39
2431920	Dimethomorph	0.0575	Spike	P	0 - 51
2431920	Disulfoton	5.28	Spike	P	0 - 30
2431920	Dithiopyr	3.82	Spike	P	0 - 26
2431920	EPTC	16.1	Spike	P	0 - 43
2431920	Ethion	32.3	Spike	P	0 - 79
2431920	Ethoprop	1.74	Spike	P	0 - 29
2431920	Etridiazole	4.27	Spike	P	0 - 33
2431920	Fenamiphos	5.37	Spike	P	0 - 40
2431920	Fenbuconazole	5.31	Spike	P	0 - 74
2431920	Fipronil	1.48	Spike	P	0 - 29
2431920	Fipronil Desulfinyl	0.285	Spike	P	0 - 32
2431920	Fipronil Sulfide	3.59	Spike	P	0 - 30
2431920	Fipronil Sulfone	6.75	Spike	P	0 - 33
2431920	Fluazifop-P-butyl	0.744	Spike	P	0 - 38
2431920	Fludioxonil	1.78	Spike	P	0 - 29
2431920	Flumioxazin	0.583	Spike	P	0 - 51
2431920	Flutolanil	11.4	Spike	P	0 - 25
2431920	Fluxapyroxad	11.0	Spike	P	0 - 45
2431920	Fonofos	8.19	Spike	P	0 - 27
2431920	Hexabromobenzene	17.6	Spike	P	0 - 30
2431920	Hexazinone	0.596	Spike	P	0 - 30
2431920	Imazalil	3.77	Spike	P	0 - 100
2431920	Iprodione	1.49	Spike	P	0 - 33
2431920	Loratadine	9.12	Spike	P	0 - 56
2431920	Malathion	2.52	Spike	P	0 - 37
2431920	Metalaxyl	5.57	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P434176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431920	Metolachlor	3.33	Spike	P	0 - 29
2431920	Metribuzin	3.98	Spike	P	0 - 45
2431920	Mevinphos	8.26	Spike	P	0 - 29
2431920	Molinate	7.83	Spike	P	0 - 33
2431920	Myclobutanil	1.38	Spike	P	0 - 26
2431920	Naled	1.51	Spike	P	0 - 37
2431920	Napropamide	4.21	Spike	P	0 - 44
2431920	Norflurazon	0.246	Spike	P	0 - 30
2431920	Octinoxate	1.78	Spike	P	0 - 45
2431920	Oxadiazon	2.26	Spike	P	0 - 28
2431920	Oxybenzone	3.12	Spike	P	0 - 46
2431920	Oxyfluorfen	6.04	Spike	P	0 - 28
2431920	Parathion Ethyl	7.67	Spike	P	0 - 31
2431920	Parathion Methyl	7.52	Spike	P	0 - 29
2431920	PBB-153	21.6	Spike	P	0 - 30
2431920	PBDE-47	16.0	Spike	P	0 - 36
2431920	PBDE-99	18.0	Spike	P	0 - 40
2431920	Pendimethalin	4.52	Spike	P	0 - 33
2431920	Pentabromotoluene	3.57	Spike	P	0 - 30
2431920	Phenytoin	29.2	Spike	P	0 - 100
2431920	Phorate	10.0	Spike	P	0 - 36
2431920	Prodiamine	10.7	Spike	P	0 - 71
2431920	Prometon	6.55	Spike	P	0 - 36
2431920	Prometryn	3.01	Spike	P	0 - 28
2431920	Pronamide	5.12	Spike	P	0 - 24
2431920	Propanil	3.64	Spike	P	0 - 28
2431920	Propargite	8.62	Spike	P	0 - 43
2431920	Propiconazole	5.57	Spike	P	0 - 33
2431920	Pyraflufen Ethyl	2.22	Spike	P	0 - 29
2431920	Pyridaben	5.99	Spike	P	0 - 30
2431920	Pyriproxyfen	33.5	Spike	P	0 - 79
2431920	Simazine	0.454	Spike	P	0 - 29
2431920	Stirophos	12.2	Spike	P	0 - 61
2431920	Sulfentrazone	0.178	Spike	P	0 - 33
2431920	Tebuconazole	20.4	Spike	P	0 - 69
2431920	Terbufos	0.307	Spike	P	0 - 29
2431920	Terbuthylazine	7.31	Spike	P	0 - 32
2431920	Tetradecachloro-m-terphenyl	5.18	Spike	P	0 - 30
2431920	Thiobencarb	5.30	Spike	P	0 - 26
2431920	Tri-o-cresyl Phosphate	9.74	Spike	P	0 - 33
2431920	Triadimefon	1.87	Spike	P	0 - 28
2431920	Tris(1-chloro-2-propyl) phosphate (TCPP)	1.15	Spike	P	0 - 30
2431920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	0.682	Spike	P	0 - 30
2431920	Tris(2-chloroethyl) phosphate (TCEP)	3.02	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P434027

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431835	Acesulfame K	14.1	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P434027

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431835	AMPA	0.213	Spike	P	0 - 30
2431835	Endothall	9.39	Spike	P	0 - 30
2431835	Glufosinate	6.29	Spike	P	0 - 30
2431835	Glyphosate	17.9	Spike	P	0 - 30
2431835	Sucralose	6.09	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P434161

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431707	2,4-D	2.90	Spike	P	0 - 30
2431707	2,4,5-T	10.7	Spike	P	0 - 30
2431707	Acetaminophen	6.23	Spike	P	0 - 30
2431707	Acetamiprid	52.3	Spike	F	0 - 30
2431707	Afidopyropen	24.7	Spike	P	0 - 30
2431707	Bentazon	4.63	Spike	P	0 - 30
2431707	Benzovindiflupyr	2.55	Spike	P	0 - 30
2431707	Carbamazepine	4.99	Spike	P	0 - 30
2431707	Clothianidin	0.0186	Spike	P	0 - 30
2431707	Dinotefuran	4.63	Spike	P	0 - 30
2431707	Diuron	2.30	Spike	P	0 - 30
2431707	Fenuron	0.216	Spike	P	0 - 30
2431707	Fluridone	5.00	Spike	P	0 - 30
2431707	Hydrocodone	0.866	Spike	P	0 - 30
2431707	Ibuprofen	6.53	Spike	P	0 - 30
2431707	Imazapyr	0.0360	Spike	P	0 - 30
2431707	Imidacloprid	0.853	Spike	P	0 - 30
2431707	Linuron	15.3	Spike	P	0 - 30
2431707	Mandestrobin	3.69	Spike	P	0 - 30
2431707	MCPP	0.802	Spike	P	0 - 30
2431707	Naproxen	10.6	Spike	P	0 - 30
2431707	Primidone	7.02	Spike	P	0 - 30
2431707	Pyraclostrobin	0.173	Spike	P	0 - 30
2431707	Silvex	0.931	Spike	P	0 - 30
2431707	Thiamethoxam	2.07	Spike	P	0 - 30
2431707	Tolfenpyrad	10.9	Spike	P	0 - 30
2431707	Triclopyr	7.27	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P434410

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432171	Total Alkalinity	1.63	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P434365

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: P434365

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431922	TDS	2.43	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P434144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432063	Fluoride	1.01	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P434203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431923	Organic Carbon	1.11	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2431911
Field Sample ID: G3NE0006

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	117	P	30 - 160
EPA 8321B	Acetaminophen-d4	91.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	66.4	P	30 - 160
EPA 8321B	Diuron-d6	43.7	P	30 - 160
EPA 8321B	Endothall-d6	106	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	65.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.7	P	30 - 160
EPA 8321B	Primidone-d5	61.7	P	30 - 160
EPA 8321B	Sucralose-d6	121	P	30 - 160

Lab Sample ID: 2431920
Field Sample ID: G3NE0006

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	83.4	P	20 - 200
EPA 8270E	Simazine-d10	90.4	P	62 - 142
EPA 8270E	Terbufos-d10	93.1	P	58 - 132
EPA 8270E	Terphenyl-d14	87.6	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A121095

Included Lab Sample IDs: 2431909

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.7	97.3	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A121099

Included Lab Sample IDs: 2431907

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121101

Included Lab Sample IDs: 2431907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	97.5	P/P	95 - 105

Reference Method: SM 4500-F- C-2011

Run ID: A121155

Included Lab Sample IDs: 2431907

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121158

Included Lab Sample IDs: 2431916

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.5	99.6	P/P	90 - 110
Antimony	96.9	97.2	P/P	90 - 110
Arsenic	99.4	96.3	P/P	90 - 110
Barium	99.0	98.0	P/P	90 - 110
Beryllium	95.8	94.8	P/P	90 - 110
Boron	97.9	103	P/P	90 - 110
Cadmium	96.9	97.4	P/P	90 - 110
Chromium	96.4	97.9	P/P	90 - 110
Cobalt	95.8	95.0	P/P	90 - 110
Copper	97.2	95.2	P/P	90 - 110
Lead	91.2	91.2	P/P	90 - 110
Manganese	95.2	97.5	P/P	90 - 110
Molybdenum	97.3	97.0	P/P	90 - 110
Nickel	97.4	95.1	P/P	90 - 110
Selenium	97.9	96.6	P/P	90 - 110
Silver	94.3	94.9	P/P	90 - 110
Thallium	97.0	96.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121176

Included Lab Sample IDs: 2431908

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121176

Included Lab Sample IDs: 2431908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	99.2	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121182

Included Lab Sample IDs: 2431907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.9	99.9	P/P	90 - 110
Sulfate	99.0	99.4	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A121186

Included Lab Sample IDs: 2431908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.4	95.4	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121187

Included Lab Sample IDs: 2431911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	100	115	P/P	60 - 160
Sucralose	119	120	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A121190

Included Lab Sample IDs: 2431911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	79.0	88.6	P/P	60 - 160
Endothall	84.0	89.6	P/P	60 - 160
Glufosinate	105	91.4	P/P	60 - 160
Glyphosate	77.8	83.1	P/P	60 - 160

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A121191

Included Lab Sample IDs: 2431916

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	103	P/P	90 - 110
Iron	103	104	P/P	90 - 110
Magnesium	103	104	P/P	90 - 110
Potassium	102	102	P/P	90 - 110
Sodium	103	104	P/P	90 - 110
Strontium	97.4	104	P/P	90 - 110
Tin	96.8	98.7	P/P	90 - 110
Titanium	94.5	97.7	P/P	90 - 110
Vanadium	95.0	98.5	P/P	90 - 110
Zinc	94.8	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A121247

Included Lab Sample IDs: 2431908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	92.7	93.9	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121272

Included Lab Sample IDs: 2431907

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.6	99.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121289

Included Lab Sample IDs: 2431908

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

Reference Method: EPA 8270E

Run ID: A121296

Included Lab Sample IDs: 2431920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	90.0		P	80 - 120
Avobenzene	94.4		P	80 - 120
Dechlorane 602	97.6		P	80 - 120
Dechlorane 603	90.6		P	80 - 120
Dechlorane Plus	92.1		P	80 - 120
Hexabromobenzene	86.7		P	80 - 120
Octinoxate	93.3		P	80 - 120
Oxybenzone	95.0		P	80 - 120
PBB-153	86.9		P	80 - 120
PBDE-47	87.1		P	80 - 120
PBDE-99	89.9		P	80 - 120
Pentabromotoluene	93.3		P	80 - 120
Tetradecachloro-m-terphenyl	94.4		P	80 - 120
Tri-o-cresyl Phosphate	93.1		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	88.4		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.7		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.2		P	80 - 120

Reference Method: EPA 8321B

Run ID: A121350

Included Lab Sample IDs: 2431911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	84.8	82.7	P/P	50 - 150
2,4,5-T	90.2	91.5	P/P	50 - 150
Acetaminophen	109	105	P/P	60 - 160
Acetamiprid	120	119	P/P	50 - 150
Afidopyropen	120	120	P/P	50 - 150
Bentazon	128	132	P/P	50 - 160
Benzovindiflupyr	115	117	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121350
Included Lab Sample IDs: 2431911

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbamazepine	110	112	P/P	60 - 150
Clothianidin	106	114	P/P	60 - 150
Dinotefuran	107	112	P/P	50 - 150
Diuron	105	108	P/P	60 - 160
Fenuron	113	113	P/P	60 - 150
Fluridone	108	106	P/P	60 - 160
Hydrocodone	126	128	P/P	60 - 150
Ibuprofen	102	91.0	P/P	50 - 160
Imazapyr	98.9	99.0	P/P	50 - 150
Imidacloprid	99.7	99.0	P/P	60 - 150
Linuron	100	109	P/P	60 - 150
Mandestrobin	116	124	P/P	50 - 150
MCPP	84.3	88.5	P/P	50 - 150
Naproxen	67.6	121	P/P	50 - 160
Primidone	99.3	105	P/P	60 - 150
Pyraclostrobin	118	120	P/P	60 - 150
Silvex	90.7	94.4	P/P	50 - 150
Thiamethoxam	118	121	P/P	50 - 150
Tolfenpyrad	105	106	P/P	60 - 150
Triclopyr	86.6	79.8	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A121374
Included Lab Sample IDs: 2431920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	89.3		P	80 - 120
Alachlor	85.8		P	80 - 120
Ametryn	100		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	98.3		P	80 - 120
Azinphos Methyl	96.2		P	80 - 120
Azoxystrobin	98.4		P	80 - 120
Bromacil	96.4		P	80 - 120
Butylate	104		P	80 - 120
Caffeine	96.0		P	80 - 120
Carbophenothion	100		P	80 - 120
Carfentrazone Ethyl	99.9		P	80 - 120
Chlorfenapyr	89.3		P	80 - 120
Chlorpyrifos Ethyl	89.5		P	80 - 120
Chlorpyrifos Methyl	97.9		P	80 - 120
Coumaphos	99.2		P	80 - 120
Cyanazine	102		P	80 - 120
Cyprodinil	90.7		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	103		P	80 - 120
Difenoconazole	98.7		P	80 - 120
Dimethenamid	95.8		P	80 - 120
Dimethomorph	108		P	80 - 120
Disulfoton	102		P	80 - 120
Dithiopyr	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A121374
 Included Lab Sample IDs: 2431920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
EPTC	103		P	80 - 120
Ethion	88.7		P	80 - 120
Ethoprop	109		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	99.1		P	80 - 120
Fenbuconazole	84.9		P	80 - 120
Fipronil	86.3		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	95.9		P	80 - 120
Fluazifop-P-butyl	93.5		P	80 - 120
Fludioxonil	105		P	80 - 120
Flumioxazin	95.9		P	80 - 120
Flutolanil	97.2		P	80 - 120
Fluxapyroxad	96.1		P	80 - 120
Fonofos	100		P	80 - 120
Hexazinone	99.4		P	80 - 120
Imazalil	99.2		P	80 - 120
Iprodione	80.7		P	80 - 120
Loratadine	89.3		P	80 - 120
Malathion	85.7		P	80 - 120
Metalaxyl	92.0		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	90.3		P	80 - 120
Molinate	87.6		P	80 - 120
Myclobutanil	95.2		P	80 - 120
Naled	97.1		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	102		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	87.5		P	80 - 120
Parathion Ethyl	96.3		P	80 - 120
Parathion Methyl	85.6		P	80 - 120
Pendimethalin	109		P	80 - 120
Phenytol	98.3		P	80 - 120
Phorate	101		P	80 - 120
Prodiamine	97.1		P	80 - 120
Prometon	92.8		P	80 - 120
Prometryn	92.2		P	80 - 120
Pronamide	108		P	80 - 120
Propanil	90.5		P	80 - 120
Propargite	98.6		P	80 - 120
Propiconazole	84.1		P	80 - 120
Pyraflufen Ethyl	102		P	80 - 120
Pyridaben	99.8		P	80 - 120
Pyriproxyfen	103		P	80 - 120
Simazine	120		P	80 - 120
Stirophos	84.5		P	80 - 120
Sulfentrazone	98.2		P	80 - 120
Tebuconazole	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121374
Included Lab Sample IDs: 2431920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Terbufos	92.2		P	80 - 120
Terbutylazine	89.5		P	80 - 120
Thiobencarb	106		P	80 - 120
Triadimefon	95.0		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A121386
Included Lab Sample IDs: 2431908

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	102	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	100					0.912	
EPA 180.1 Rev. 2.0	Turbidity	98.1					1.26	
EPA 200.7 Rev. 4.4	Calcium	104	104	103	103			0.638
	Iron	104	106	104	106			1.52
	Magnesium	104	106	105	106			1.22
	Potassium	102	104	103	101			1.59
	Sodium	102	107	104	106			1.75
	Strontium	98.3	103	102	104			1.76
	Tin	102	104	104	102			0.340
	Titanium	98.1	103	101	102			1.69
	Vanadium	100	104	102	105			1.88
	Zinc	102	106	105	107			0.620
EPA 200.8 Rev. 5.4	Aluminum	100	99.6	100	99.0			0.703
	Antimony	98.3	98.2	98.3	97.2			0.180
	Arsenic	98.9	100	99.8	98.2			0.655
	Barium	101	100	101	99.1			0.798
	Beryllium	93.9	93.0	91.2	93.5			1.87
	Boron	104	103	105	106			1.63
	Cadmium	95.9	96.8	97.4	96.0			0.626
	Chromium	96.7	96.7	96.0	97.0			0.719
	Cobalt	97.9	98.4	97.7	94.7			0.722
	Copper	98.5	99.5	99.6	96.6			0.123
	Lead	92.5	92.7	93.2	92.8			0.503
	Manganese	96.0	96.4	96.7	95.3			0.363
	Molybdenum	97.1	96.3	97.0	97.6			0.682
	Nickel	98.6	99.7	98.7	95.6			0.946
	Selenium	99.3	101	99.2	97.1			1.75
	Silver	110	108	109	108			0.200
	Thallium	98.7	101	103	102			1.31
EPA 300.0 Rev. 2.1	Chloride	102	103	102			1.49	
	Sulfate	99.1	98.8	99.0			1.27	
EPA 350.1 Rev. 2.0	Ammonia-N	101	96.6	98.2				1.19
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105					7.78	
EPA 353.2 Rev. 2.0	NO2NO3-N	107	102	103				0.952
EPA 365.1 Rev. 2.0	Total-P	103	108	99.8				8.03
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	100	99.7				0.500
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	52.1	64.5	75.5				15.8
	Acetochlor	79.1	81.1	80.5				0.758
	Alachlor	82.6	70.6	72.1				2.20
	Ametryn	119	140	128				8.67
	Atrazine	98.9	94.9	87.3				5.70
	Atrazine Desethyl	96.0	100	93.2				7.41
	Avobenzone	91.0	117	121				2.76
	Azinphos Methyl	147	135	134				0.581
	Azoxystrobin	114	114	102				11.3
	Bromacil	96.5	102	94.6				7.90
	Butylate	59.0	40.4	48.4				18.1
	Caffeine	180	134	113				15.4
	Carbophenothion	95.8	89.8	94.6				5.23
	Carfentrazone Ethyl	104	98.9	98.3				0.602
	Chlorfenapyr	91.7	73.4	74.6				1.61
	Chlorpyrifos Ethyl	78.1	76.7	72.4				5.80

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	105	99.5	102		2.37
	Coumaphos	147	136	134		1.64
	Cyanazine	117	109	119		9.22
	Cyprodinil	87.0	77.8	68.7		12.5
	Dechlorane 602	53.7	55.7	71.7		25.1
	Dechlorane 603	69.5	82.5	93.2		12.2
	Dechlorane Plus	65.8	78.2	81.6		4.21
	Demeton	69.4	67.8	66.5		1.99
	Diazinon	92.3	95.3	84.4		12.1
	Difenoconazole	142	126	128		1.63
	Dimethenamid	87.0	90.6	88.4		2.43
	Dimethomorph	258	211	211		0.0575
	Disulfoton	95.0	93.5	98.6		5.28
	Dithiopyr	81.4	85.8	89.1		3.82
	EPTC	54.6	38.7	45.5		16.1
	Ethion	58.0	42.0	58.3		32.3
	Ethoprop	97.1	90.1	91.7		1.74
	Etridiazole	54.2	49.0	51.2		4.27
	Fenamiphos	95.7	78.6	74.5		5.37
	Fenbuconazole	107	80.8	76.6		5.31
	Fipronil	92.4	92.2	90.9		1.48
	Fipronil Desulfinyl	80.5	81.1	81.3		0.285
	Fipronil Sulfide	92.3	90.5	87.3		3.59
	Fipronil Sulfone	80.9	88.2	82.5		6.75
	Fluazifop-P-butyl	92.2	83.1	82.5		0.744
	Fludioxonil	91.5	89.3	87.7		1.78
	Flumioxazin	140	143	144		0.583
	Flutolanil	80.3	84.9	75.8		11.4
	Fluxapyroxad	81.7	74.4	83.1		11.0
	Fonofos	101	90.1	83.0		8.19
	Hexabromobenzene	53.6	58.9	70.3		17.6
	Hexazinone	94.0	89.8	90.3		0.596
	Imazalil	78.8	75.9	73.1		3.77
	Iprodione	96.0	74.7	73.6		1.49
	Loratadine	158	149	136		9.12
	Malathion	96.1	86.3	84.1		2.52
	Metalaxyl	76.3	87.8	83.0		5.57
	Metolachlor	111	92.1	95.5		3.33
	Metribuzin	103	100	105		3.98
	Mevinphos	94.7	89.2	82.2		8.26
	Molinate	59.6	48.4	52.3		7.83
	Myclobutanil	106	92.6	91.3		1.38
	Naled	52.3	39.6	40.2		1.51
	Napropamide	81.9	77.1	73.9		4.21
	Norflurazon	87.8	83.2	83.0		0.246
	Octinoxate	71.2	97.8	99.6		1.78
	Oxadiazon	80.4	76.6	74.9		2.26
	Oxybenzone	69.1	104	101		3.12
	Oxyfluorfen	105	93.6	99.4		6.04
	Parathion Ethyl	96.6	83.5	90.1		7.67
	Parathion Methyl	97.0	92.3	85.7		7.52
	PBB-153	59.1	61.9	76.9		21.6
	PBDE-47	53.7	69.5	81.6		16.0
	PBDE-99	52.9	59.8	71.7		18.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	104	97.3	93.0		4.52
	Pentabromotoluene	55.6	80.3	83.2		3.57
	Phenytoin	40.4	55.0	73.9		29.2
	Phorate	95.4	87.1	96.2		10.0
	Prodiamine	48.0	35.4	31.8		10.7
	Prometon	95.7	94.8	88.8		6.55
	Prometryn	91.3	94.4	97.3		3.01
	Pronamide	101	100	105		5.12
	Propanil	117	120	116		3.64
	Propargite	74.8	73.9	80.5		8.62
	Propiconazole	93.7	71.8	75.9		5.57
	Pyraflufen Ethyl	98.0	84.1	85.9		2.22
	Pyridaben	120	94.4	105		5.99
	Pyriproxyfen	86.6	61.4	86.1		33.5
	Simazine	114	102	102		0.454
	Stiropfos	56.4	45.1	51.0		12.2
	Sulfentrazone	78.8	111	111		0.178
	Tebuconazole	70.2	57.9	71.1		20.4
	Terbufos	97.3	103	102		0.307
	Terbutylazine	76.8	80.3	74.7		7.31
	Tetradecachloro-m-terphenyl	54.3	88.3	93.0		5.18
	Thiobencarb	92.1	89.2	84.6		5.30
	Tri-o-cresyl Phosphate	68.1	87.1	96.0		9.74
	Triadimefon	80.1	80.4	81.9		1.87
	Tris(1-chloro-2-propyl) phosphate (TCPP)	70.9	113	112		1.15
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	65.3	96.9	96.2		0.682
	Tris(2-chloroethyl) phosphate (TCEP)	71.8	91.5	94.3		3.02
EPA 8321B	2,4-D	87.1	84.7	87.4		2.90
	2,4,5-T	92.5	115	128		10.7
	Acesulfame K	103	105	90.9		14.1
	Acetaminophen	104	68.5	72.9		6.23
	Acetamiprid	106	43.8	25.6		52.3
	Afidopyropen	82.8	76.8	59.9		24.7
	AMPA	139	159	158		0.213
	Bentazon	135				4.63
	Benzovindiflupyr	119	102	99.8		2.55
	Carbamazepine	92.6	48.6	51.0		4.99
	Clothianidin	104	54.3	54.3		0.0186
	Dinotefuran	102	31.9	33.4		4.63
	Diuron	104	44.5	43.5		2.30
	Endothall	85.5	100	91.4		9.39
	Fenuron	113	25.7	25.6		0.216
	Fluridone	95.0	55.9	53.1		5.00
	Glufosinate	82.2	84.8	79.7		6.29
	Glyphosate	85.3	55.7	66.7		17.9
	Hydrocodone	110	40.9	41.3		0.866
	Ibuprofen	79.7	63.1	67.4		6.53
	Imazapyr	87.9				0.0360
	Imidacloprid	93.9	74.8	75.5		0.853
	Linuron	86.4	59.3	50.9		15.3
	Mandestrobin	125	98.6	95.0		3.69

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	MCCP	98.8	116	117		0.802
	Naproxen	75.9	108	96.8		10.6
	Primidone	98.0	49.1	45.8		7.02
	Pyraclostrobin	96.8	87.5	87.4		0.173
	Silvex	92.4	135	136		0.931
	Sucralose	111	113	107		6.09
	Thiamethoxam	107	45.5	46.5		2.07
	Tolfenpyrad	64.6	55.7	62.1		10.9
	Triclopyr	110	134	125		7.27
SM 2320 B-2011	Total Alkalinity	96.4				1.63
SM 2540 C-2015	TDS	92.7				2.43
SM 2540 D-2015	TSS	93.9				
SM 4500-F- C-2011	Fluoride	97.1	97.4	98.6		1.01
SM 5310 B-2011	Organic Carbon	92.8	95.0	96.5		1.11

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2431907
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2431907
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2431916
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2431916
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2431907
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2431907
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2431908
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2431908
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2431908
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2431908
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2431909
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2431920
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2431920
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2431911
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2431907
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2431916
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2431907
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2431907
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2431907
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2431908

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	08/17/2023			08/17/2023 15:24	Alexis Price	2431907
EPA 180.1 Rev. 2.0	08/17/2023			08/17/2023 14:10	Khloe J Berg	2431907
EPA 200.7 Rev. 4.4	08/17/2023	08/18/2023 13:25	George D Taylor	08/22/2023 17:16	McKinley C Carter	2431916
EPA 200.8 Rev. 5.4	08/17/2023	08/18/2023 13:25	George D Taylor	08/21/2023 17:55	Conrad Hartmann	2431916
EPA 300.0 Rev. 2.1	08/17/2023			08/24/2023 06:43	James L Waggeberby	2431907
EPA 350.1 Rev. 2.0	08/17/2023			08/28/2023 13:30	Khloe J Berg	2431908
EPA 351.2 Rev. 2.0	08/17/2023	08/24/2023 12:32	Dana G. Hughes	08/25/2023 10:39	Samantha L Bates	2431908
EPA 353.2 Rev. 2.0	08/17/2023			09/06/2023 15:56	Anna M. Plaviak	2431908
EPA 365.1 Rev. 2.0	08/17/2023	08/21/2023 16:54	Adam P Silver	08/22/2023 13:31	James L Waggeberby	2431908
EPA 365.1 Rev. 2.0 dissolved	08/17/2023			08/17/2023 12:29	Elise M. Gillis	2431909
EPA 8270E	08/17/2023	08/23/2023 08:30	Rasheda Ghaffari	08/25/2023 16:14	Vandana T. Nagar	2431920
	08/17/2023	08/23/2023 08:30	Rasheda Ghaffari	08/28/2023 19:32	Arthur Maknenko	2431920
EPA 8321B	08/17/2023	08/22/2023 08:00	Hana Lee	08/22/2023 09:35	Tae K Lee	2431911
	08/17/2023	08/22/2023 08:00	Hana Lee	08/22/2023 19:16	Tae K Lee	2431911
	08/17/2023	08/23/2023 09:00	Hoor Shaik	09/01/2023 22:52	Juyoung Kim	2431911
SM 2320 B-2011	08/17/2023			08/27/2023 16:03	Dale L. Simmons	2431907
SM 2340 B-2011	08/17/2023			08/22/2023 17:16	McKinley C Carter	2431916
SM 2540 C-2015	08/17/2023			08/21/2023 11:15	Dana G. Hughes	2431907
SM 2540 D-2015	08/17/2023			08/18/2023 12:51	Dana G. Hughes	2431907
SM 4500-F- C-2011	08/17/2023			08/21/2023 23:28	Dale L. Simmons	2431907
SM 5310 B-2011	08/17/2023			08/22/2023 15:02	Elise M. Gillis	2431908