

Chemical Analysis Report

NW-DIST-2022-11-09-01

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

Event Description: **Western Lake Run**
Request ID: **RQ-2022-11-07-27**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
Pensacola, FL 32502-5794
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 30-NOV-2022 10:01

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored 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: 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: Pond Creek downstream of Hwy 90

Collection Date/Time: 11/07/2022 11:40

Field ID: G4NW0506

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2368801	EPA 8321B	2,4-D	0.0020	U	ug/L	P422148	
		Acesulfame K	0.10	U	ug/L	P422132	
		2,4,5-T	0.0040	U	ug/L	P422148	
		AMPA	0.10	U	ug/L	P422132	
		Acetaminophen	0.0080	U	ug/L	P422148	
		Acetamiprid	0.0020	U	ug/L	P422148	
		Endothall	0.25	U	ug/L	P422132	MS
		Glufosinate	0.10	U	ug/L	P422132	
		Glyphosate	0.10	U	ug/L	P422132	
		Afidopyropen	0.0020	U	ug/L	P422148	
		Bentazon	8.0E-04	U	ug/L	P422148	
		Sucralose	0.27		ug/L	P422132	
		Benzovindiflupyr	0.0020	U	ug/L	P422148	
		Carbamazepine	8.0E-04	U	ug/L	P422148	
		Clothianidin	0.0020	U	ug/L	P422148	
		Dinotefuran	0.0020	U	ug/L	P422148	
		Diuron	0.0020	U	ug/L	P422148	
		Fenuron	0.032	U	ug/L	P422148	
		Fluridone	8.0E-04	U	ug/L	P422148	
		Imazapyr	0.0040	U	ug/L	P422148	
		Hydrocodone	0.0020	U	ug/L	P422148	
		Ibuprofen	0.20	U	ug/L	P422148	
		Imidacloprid	0.016		ug/L	P422148	MS
		Linuron	0.0040	U	ug/L	P422148	
		Mandestrobin	0.0020	U	ug/L	P422148	
		MCPP	0.0040	U	ug/L	P422148	
		Naproxen	0.0080	U	ug/L	P422148	
		Primidone	0.0040	U	ug/L	P422148	
		Pyraclostrobin	0.0020	U	ug/L	P422148	
		Silvex	0.0040	U	ug/L	P422148	
		Thiamethoxam	0.0020	U	ug/L	P422148	MS
		Tolfenpyrad	0.0020	U	ug/L	P422148	
		Triclopyr	0.0040	U	ug/L	P422148	

Ref. Method and Comment:

EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: FB Pond Creek G4NW0506

Collection Date/Time: 11/07/2022 11:50

Field ID: FB_11072022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2368802	EPA 8321B	2,4-D	0.0020	U	ug/L	P422148	
		Acesulfame K	0.10	U	ug/L	P422132	
		2,4,5-T	0.0040	U	ug/L	P422148	
		AMPA	0.10	U	ug/L	P422132	
		Acetaminophen	0.0080	U	ug/L	P422148	
		Acetamiprid	0.0020	U	ug/L	P422148	
		Endothall	0.25	U	ug/L	P422132	MS
		Glufosinate	0.10	U	ug/L	P422132	
		Glyphosate	0.10	U	ug/L	P422132	
		Afidopyropen	0.0020	U	ug/L	P422148	
		Bentazon	8.0E-04	U	ug/L	P422148	
		Sucralose	0.010	U	ug/L	P422132	
		Benzovindiflupyr	0.0020	U	ug/L	P422148	
		Carbamazepine	8.0E-04	U	ug/L	P422148	
		Clothianidin	0.0020	U	ug/L	P422148	
		Dinotefuran	0.0020	U	ug/L	P422148	
		Diuron	0.0020	U	ug/L	P422148	
		Fenuron	0.032	U	ug/L	P422148	
		Fluridone	8.0E-04	U	ug/L	P422148	
		Imazapyr	0.0040	U	ug/L	P422148	
		Hydrocodone	0.0020	U	ug/L	P422148	
		Ibuprofen	0.20	U	ug/L	P422148	
		Imidacloprid	0.0020	U	ug/L	P422148	MS
		Linuron	0.0040	U	ug/L	P422148	
		Mandestrobin	0.0020	U	ug/L	P422148	
		MCPP	0.0040	U	ug/L	P422148	
		Naproxen	0.0080	U	ug/L	P422148	
		Primidone	0.0040	U	ug/L	P422148	
		Pyraclostrobin	0.0020	U	ug/L	P422148	
		Silvex	0.0040	U	ug/L	P422148	
		Thiamethoxam	0.0020	U	ug/L	P422148	MS
		Tolfenpyrad	0.0020	U	ug/L	P422148	
		Triclopyr	0.0040	U	ug/L	P422148	

Ref. Method and Comment:

EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: CRESCENT LAKE

Collection Date/Time: 11/07/2022 10:45

Field ID: G5NW0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2368788	DEP SOP: NU-094-1	Color (true)	13	Q	PCU	P422128	
	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P422177	
	EPA 300.0 Rev. 2.1	Chloride	10		mg Cl/L	P422650	
		Sulfate	6.6		mg SO4/L	P422653	
	SM 2320 B-2011	Total Alkalinity	22		mg CaCO3/L	P422639	
	SM 2540 C-2015	TDS	48		mg/L	P422674	
	SM 2540 D-2015	TSS	3	I	mg/L	P422562	RPD
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P422643	
2368790	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P422662	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26		mg N/L	P422685	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.35		mg N/L	P422222	
	EPA 365.1 Rev. 2.0	Total-P	0.01		mg P/L	P422383	
	SM 5310 B-2011	Organic Carbon	2.6		mg C/L	P422754	

Ref. Method and Comment:

DEP SOP: NU-094-1: The sample expired upon receipt.

EPA 180.1 Rev. 2.0: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2320 B-2011: Batch laboratory fortified blank is unavailable because of analytical difficulties.

Sample Location: Pond Creek West of Headwaters of Blackwater Bay **Collection Date/Time: 11/07/2022 12:00**

Field ID: G4NW0277

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2368799	EPA 8270E	Aldrin	0.70	U	ng/L	P422151	
		Alpha-BHC	0.11	U	ng/L	P422151	
		Alpha-Chlordane	0.21	U	ng/L	P422151	
		PCB-1016	2.1	U	ng/L	P422151	
		Beta-BHC	0.11	U	ng/L	P422151	
		PCB-1221	2.1	U	ng/L	P422151	
		Beta-Cyfluthrin	1.3	U	ng/L	P422151	
		PCB-1232	2.1	U	ng/L	P422151	
		Bifenthrin	0.54	U	ng/L	P422151	
		PCB-1242	2.1	U	ng/L	P422151	
		Carbophenothion	0.96	U	ng/L	P422151	
		PCB-1248	2.1	U	ng/L	P422151	
		Chlorothalonil	1.3	U	ng/L	P422151	
		PCB-1254	2.1	U	ng/L	P422151	
		Cis-Nonachlor	0.21	U	ng/L	P422151	
		PCB-1260	2.1	U	ng/L	P422151	
		Cypermethrin	1.6	U	ng/L	P422151	
		Dacthal	0.16	U	ng/L	P422151	
		DDD-p,p'	0.27	U	ng/L	P422151	
		DDE-p,p'	0.21	U	ng/L	P422151	
		DDT-p,p'	0.46	I	ng/L	P422151	
		Delta-BHC	0.43	U	ng/L	P422151	
		Deltamethrin	1.3	U	ng/L	P422151	
		Dichlobenil	0.27	U	ng/L	P422151	
		Dicofol	1.3	U	ng/L	P422151	
		Dieldrin	0.43	U	ng/L	P422151	
		Endosulfan I	0.43	U	ng/L	P422151	
		Endosulfan II	0.43	U	ng/L	P422151	
		Endosulfan Sulfate	0.32	U	ng/L	P422151	
		Endrin	0.43	U	ng/L	P422151	
		Endrin Aldehyde	0.80	UJ	ng/L	P422151	LCS
		Endrin Ketone	0.43	U	ng/L	P422151	
		Esfenvalerate	0.80	U	ng/L	P422151	
		Ethalfuralin	0.16	U	ng/L	P422151	
		Fenpropathrin	0.27	U	ng/L	P422151	
		Gamma-BHC	0.13	U	ng/L	P422151	
		Gamma-Chlordane	0.21	U	ng/L	P422151	
		Heptachlor	0.21	U	ng/L	P422151	
		Heptachlor Epoxide	0.27	U	ng/L	P422151	
		Hexachlorobenzene**	1.1	U	ng/L	P422151	
		Kepone	5.4	U	ng/L	P422151	
		Lambda-Cyhalothrin	0.80	U	ng/L	P422151	
		Methoprene	0.80	U	ng/L	P422151	

Field ID: G4NW0277

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2368799	EPA 8270E	Methoxychlor	0.32	U	ng/L	P422151	
		MGK-264	0.21	U	ng/L	P422151	
		Mirex	0.37	U	ng/L	P422151	
		Oxychlordane	0.32	U	ng/L	P422151	
		Permethrin	1.7	U	ng/L	P422151	
		Phenothrin	0.96	U	ng/L	P422151	
		Piperonyl Butoxide	0.16	U	ng/L	P422151	
		Prallethrin	2.1	U	ng/L	P422151	
		Tau-Fluvalinate	0.27	U	ng/L	P422151	
		Tetramethrin	0.80	U	ng/L	P422151	
		Trans-Nonachlor	0.21	U	ng/L	P422151	
		Triclosan Methyl	0.16	U	ng/L	P422151	
		Trifluralin	0.21	U	ng/L	P422151	
		Chlordane	2.1	U	ng/L	P422151	
		Toxaphene	16	U	ng/L	P422151	
2368800	EPA 8321B	2,4-D	0.0020	U	ug/L	P422148	
		Acesulfame K	0.10	U	ug/L	P422132	
		2,4,5-T	0.0040	U	ug/L	P422148	
		AMPA	0.10	U	ug/L	P422132	
		Acetaminophen	0.0080	U	ug/L	P422148	
		Acetamiprid	0.0020	U	ug/L	P422148	
		Endothall	0.25	U	ug/L	P422132	MS
		Glufosinate	0.10	U	ug/L	P422132	
		Glyphosate	0.10	U	ug/L	P422132	
		Afidopyropen	0.0020	U	ug/L	P422148	
		Bentazon	8.0E-04	U	ug/L	P422148	
		Sucralose	0.22		ug/L	P422132	
		Benzovindiflupyr	0.0020	U	ug/L	P422148	
		Carbamazepine	8.0E-04	U	ug/L	P422148	
		Clothianidin	0.0020	U	ug/L	P422148	
		Dinotefuran	0.0020	U	ug/L	P422148	
		Diuron	0.0020	U	ug/L	P422148	
		Fenuron	0.032	U	ug/L	P422148	
		Fluridone	8.0E-04	U	ug/L	P422148	
		Imazapyr	0.0040	U	ug/L	P422148	
		Hydrocodone	0.0020	U	ug/L	P422148	
		Ibuprofen	0.20	U	ug/L	P422148	
		Imidacloprid	0.016		ug/L	P422148	MS
		Linuron	0.0040	U	ug/L	P422148	
		Mandestrobin	0.0020	U	ug/L	P422148	
		MCPP	0.0040	U	ug/L	P422148	
		Naproxen	0.0080	U	ug/L	P422148	
		Primidone	0.0040	U	ug/L	P422148	
		Pyraclostrobin	0.0020	U	ug/L	P422148	
		Silvex	0.0040	U	ug/L	P422148	

Field ID: G4NW0277

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2368800	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	P422148	MS
		Tolfenpyrad	0.0020	U	ug/L	P422148	
		Triclopyr	0.0040	U	ug/L	P422148	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Locklin Lake Center

Collection Date/Time: 11/07/2022 13:15

Field ID: G4NW0437

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2368789	DEP SOP: NU-094-1	Color (true)	28		PCU	P422128	
	EPA 180.1 Rev. 2.0	Turbidity	0.80	I	NTU	P422177	
	EPA 300.0 Rev. 2.1	Chloride	5.8		mg Cl/L	P422828	
		Sulfate	1.3		mg SO4/L	P422832	
	SM 2320 B-2011	Total Alkalinity	8.3		mg CaCO3/L	P422639	
	SM 2540 C-2015	TDS	19	I	mg/L	P422674	
	SM 2540 D-2015	TSS	2	I	mg/L	P422562	RPD
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P422643	
2368791	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P422662	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23		mg N/L	P422365	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.45		mg N/L	P422222	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P422383	
	SM 5310 B-2011	Organic Carbon	1.7		mg C/L	P422754	

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2320 B-2011: Batch laboratory fortified blank is unavailable because of analytical difficulties.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P422128

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P422177

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422650

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422653

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422828

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422832

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422662

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422365

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422685

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422222

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422383

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

Reference Method: EPA 8270E
Batch ID: P422151

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422151

Component	Result	Code	Units
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422151

Component	Result	Code	Units
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P422151

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P422132

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: P422148

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P422148

Component	Result	Code	Units
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.20	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	0.0040	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: P422639

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

Reference Method: SM 2540 C-2015

Batch ID: P422674

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P422562

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P422643

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P422754

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: P422128

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: P422177

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422650

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422653

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422828

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	93.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422662

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422365

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422685

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P422222

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	106		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P422383

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

Reference Method: EPA 8270E

Batch ID: P422151

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	63.8		P	10 - 92.0
Alpha-BHC	94.5		P	75 - 107
Alpha-Chlordane	91.2		P	50 - 108
Beta-BHC	104		P	36 - 138
Beta-Cyfluthrin	68.6		P	20 - 161
Bifenthrin	52.8		P	10 - 119
Carbophenothion	64.8		P	19 - 94.0
Chlorothalonil	103		P	26 - 186
Cis-Nonachlor	70.8		P	42 - 119
Cypermethrin	75.9		P	22 - 150
Dacthal	94.7		P	72 - 119
DDD-p,p'	83.2		P	45 - 107
DDE-p,p'	75.6		P	48 - 106
DDT-p,p'	78.3		P	48 - 110
Delta-BHC	94.1		P	54 - 140
Deltamethrin	73.4		P	22 - 189
Dichlobenil	78.4		P	36 - 117
Dicofol	80.7		P	46 - 155
Dieldrin	75.4		P	54 - 110
Endosulfan I	78.5		P	59 - 105
Endosulfan II	79.1		P	51 - 118
Endosulfan Sulfate	86.5		P	57 - 121
Endrin	74.7		P	10 - 120
Endrin Aldehyde	25.5		F	34 - 118
Endrin Ketone	120		P	69 - 177
Esfenvalerate	63.8		P	23 - 168
Ethalfuralin	75.0		P	49 - 99.0
Fenpropathrin	70.0		P	34 - 117
Gamma-BHC	86.8		P	72 - 117
Gamma-Chlordane	89.9		P	43 - 106
Heptachlor	66.5		P	41 - 98.0
Heptachlor Epoxide	78.4		P	57 - 106
Hexachlorobenzene	78.5		P	36 - 99.0
Kepone	70.6		P	16 - 215
Lambda-Cyhalothrin	61.2		P	21 - 177
Methoprene	62.1		P	10 - 119
Methoxychlor	81.1		P	60 - 112
MGK-264	97.0		P	26 - 122
Mirex	61.5		P	10 - 169
Oxychlordane	70.0		P	43 - 105

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P422151

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PCB-1016	70.6		P	48 - 112
PCB-1260	68.1		P	44 - 118
Permethrin	71.4		P	24 - 148
Phenothrin	55.1		P	10 - 106
Piperonyl Butoxide	92.7		P	10 - 139
Prallethrin	81.5		P	17 - 109
Tau-Fluvalinate	55.1		P	13 - 131
Tetramethrin	91.6		P	10 - 132
Trans-Nonachlor	72.7		P	44 - 106
Triclosan Methyl	81.5		P	59 - 109
Trifluralin	69.2		P	44 - 101

Reference Method: EPA 8276

Batch ID: P422151

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	83.9		P	61 - 116
Toxaphene	96.1		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P422132

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	138		P	40 - 150
AMPA	94.7		P	40 - 150
Endothall	113		P	40 - 150
Glufosinate	76.5		P	40 - 150
Glyphosate	82.4		P	40 - 150
Sucralose	101		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P422148

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	104		P	40 - 150
2,4,5-T	89.5		P	40 - 150
Acetaminophen	96.6		P	30 - 150
Acetamiprid	88.3		P	40 - 150
Afidopyropen	37.4		P	30 - 150
Bentazon	97.7		P	30 - 150
Benzovindiflupyr	89.3		P	40 - 150
Carbamazepine	97.1		P	40 - 150
Clothianidin	98.8		P	40 - 150
Dinotefuran	104		P	40 - 150
Diuron	81.6		P	40 - 150
Fenuron	110		P	40 - 150
Fluridone	102		P	40 - 150
Hydrocodone	105		P	40 - 150
Ibuprofen	94.7		P	40 - 150
Imazapyr	95.8		P	40 - 150
Imidacloprid	103		P	40 - 150
Linuron	82.3		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P422148

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mandestrobin	105		P	40 - 150
MCPP	105		P	40 - 150
Naproxen	86.3		P	40 - 150
Primidone	95.2		P	40 - 150
Pyraclostrobin	86.5		P	40 - 150
Silvex	79.6		P	40 - 150
Thiamethoxam	104		P	40 - 150
Tolfenpyrad	50.5		P	30 - 150
Triclopyr	90.2		P	40 - 150

Reference Method: SM 2540 C-2015

Batch ID: P422674

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

Reference Method: SM 2540 D-2015

Batch ID: P422562

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.1		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P422643

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.9		P	96 - 104

Reference Method: SM 5310 B-2011

Batch ID: P422754

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368515	Chloride	99.2		P	90 - 110
2368724	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422653

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368515	Sulfate	99.9		P	90 - 110
2368724	Sulfate	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368824	Chloride	94.1		P	90 - 110
2368985	Chloride	96.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368824	Sulfate	95.6		P	90 - 110
2368985	Sulfate	95.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422662

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368775	Ammonia-N	96.6	95.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422365

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368791	Kjeldahl Nitrogen	107	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422685

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2370885	Kjeldahl Nitrogen	99.3	97.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422222

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368790	NO2NO3-N	99.0	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422383

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P422383

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368777	Total-P	98.8	99.6	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P422151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368153	PCB-1016	56.5	62.4	P/P	46 - 111
2368153	PCB-1260	48.1	56.7	P/P	45 - 114
2368799	Aldrin	57.4	53.1	P/P	20 - 82.0
2368799	Alpha-BHC	81.9	78.3	P/P	71 - 109
2368799	Alpha-Chlordane	72.7	68.1	P/P	42 - 106
2368799	Beta-BHC	87.0	92.7	P/P	69 - 180
2368799	Beta-Cyfluthrin	81.5	74.8	P/P	18 - 175
2368799	Bifenthrin	64.2	63.8	P/P	21 - 128
2368799	Carbophenothion	61.5	59.9	P/P	10 - 126
2368799	Chlorothalonil	127	118	P/P	10 - 300
2368799	Cis-Nonachlor	68.0	64.0	P/P	34 - 106
2368799	Cypermethrin	86.2	77.6	P/P	22 - 158
2368799	Dacthal	84.9	84.2	P/P	54 - 116
2368799	DDD-p,p'	79.2	73.4	P/P	34 - 107
2368799	DDE-p,p'	68.9	66.5	P/P	33 - 110
2368799	DDT-p,p'	63.0	66.6	P/P	50 - 122
2368799	Delta-BHC	112	101	P/P	77 - 193
2368799	Deltamethrin	90.8	86.4	P/P	10 - 195
2368799	Dichlobenil	75.7	79.8	P/P	25 - 113
2368799	Dicofol	71.5	75.7	P/P	38 - 247
2368799	Dieldrin	73.9	70.8	P/P	45 - 118
2368799	Endosulfan I	73.4	68.1	P/P	51 - 106
2368799	Endosulfan II	78.9	72.6	P/P	37 - 122
2368799	Endosulfan Sulfate	86.0	76.9	P/P	43 - 132
2368799	Endrin	69.6	67.1	P/P	29 - 101
2368799	Endrin Aldehyde	56.5	53.8	P/P	19 - 110
2368799	Endrin Ketone	106	105	P/P	60 - 140
2368799	Esfenvalerate	81.8	76.6	P/P	26 - 199
2368799	Ethalfuralin	66.8	63.7	P/P	45 - 99.0
2368799	Fenpropathrin	78.5	72.2	P/P	35 - 120
2368799	Gamma-BHC	87.9	85.3	P/P	63 - 128
2368799	Gamma-Chlordane	69.9	69.4	P/P	40 - 104
2368799	Heptachlor	59.5	58.0	P/P	36 - 97.0
2368799	Heptachlor Epoxide	73.1	67.5	P/P	49 - 184
2368799	Hexachlorobenzene	73.9	71.4	P/P	39 - 96.0
2368799	Kepone	65.2	57.5	P/P	10 - 217
2368799	Lambda-Cyhalothrin	80.2	78.1	P/P	21 - 193
2368799	Methoprene	75.8	73.3	P/P	20 - 106
2368799	Methoxychlor	76.4	73.9	P/P	53 - 118
2368799	MGK-264	95.8	85.0	P/P	40 - 118
2368799	Mirex	62.8	59.1	P/P	26 - 92.0
2368799	Oxychlordane	65.3	57.7	P/P	44 - 99.0
2368799	Permethrin	81.1	75.7	P/P	33 - 182
2368799	Phenothrin	70.7	68.1	P/P	10 - 129
2368799	Piperonyl Butoxide	100	81.8	P/P	10 - 211
2368799	Prallethrin	84.4	80.0	P/P	24 - 113

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P422151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368799	Tau-Fluvalinate	77.8	73.1	P/P	14 - 149
2368799	Tetramethrin	101	102	P/P	17 - 151
2368799	Trans-Nonachlor	66.1	60.9	P/P	42 - 102
2368799	Triclosan Methyl	73.1	68.9	P/P	48 - 108
2368799	Trifluralin	59.4	58.8	P/P	47 - 96.0

Reference Method: EPA 8276

Batch ID: P422151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368153	Chlordane	55.9	59.2	P/P	53 - 126
2368153	Toxaphene	79.6	81.2	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P422132

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368761	Acesulfame K	78.7	67.9	P/P	40 - 150
2368761	AMPA	75.8	80.1	P/P	40 - 150
2368761	Endothall	203	207	F/F	40 - 150
2368761	Glufosinate	84.2	84.3	P/P	40 - 150
2368761	Glyphosate	103	99.3	P/P	40 - 150
2368761	Sucralose	109	104	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P422148

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368036	2,4,5-T	80.6	79.5	P/P	40 - 150
2368036	Acetaminophen	110	115	P/P	30 - 150
2368036	Acetamiprid	97.8	93.4	P/P	40 - 150
2368036	Afidopyropen	41.9	39.2	P/P	30 - 150
2368036	Bentazon	88.1	90.8	P/P	30 - 150
2368036	Benzovindiflupyr	92.0	96.1	P/P	40 - 150
2368036	Carbamazepine	97.7	99.8	P/P	40 - 150
2368036	Clothianidin	125	125	P/P	40 - 150
2368036	Dinotefuran	133	137	P/P	40 - 150
2368036	Diuron	79.6	80.9	P/P	40 - 150
2368036	Fenuron	99.8	105	P/P	40 - 150
2368036	Fluridone	99.8	103	P/P	40 - 150
2368036	Hydrocodone	123	131	P/P	40 - 150
2368036	Ibuprofen	97.2	92.1	P/P	40 - 150
2368036	Imazapyr	108	113	P/P	40 - 150
2368036	Imidacloprid	164	174	F/F	40 - 150
2368036	Linuron	81.1	80.7	P/P	40 - 150
2368036	Mandestrobin	107	109	P/P	40 - 150
2368036	MCPP	104	109	P/P	40 - 150
2368036	Naproxen	76.9	84.6	P/P	40 - 150
2368036	Primidone	118	117	P/P	40 - 150
2368036	Pyraclostrobin	96.5	98.6	P/P	40 - 150
2368036	Silvex	90.6	93.7	P/P	40 - 150
2368036	Thiamethoxam	158	165	F/F	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P422148

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368036	Tolfenpyrad	55.3	56.0	P/P	30 - 150
2368036	Triclopyr	86.5	84.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P422643

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368966	Fluoride	102	100	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P422754

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368640	Organic Carbon	97.6	95.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P422128

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368509	Color (true)	0.793	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368515	Chloride	0.591	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368515	Sulfate	0.588	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368824	Chloride	0.210	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422662

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368775	Ammonia-N	0.964	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422365

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368791	Kjeldahl Nitrogen	5.90	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422685

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2370885	Kjeldahl Nitrogen	1.30	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368790	NO2NO3-N	0.672	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P422383

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368777	Total-P	0.795	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P422151

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368153	PCB-1016	10.0	Spike	P	0 - 32
2368153	PCB-1260	16.4	Spike	P	0 - 31
2368799	Aldrin	7.87	Spike	P	0 - 41
2368799	Alpha-BHC	4.43	Spike	P	0 - 25
2368799	Alpha-Chlordane	6.57	Spike	P	0 - 33
2368799	Beta-BHC	6.41	Spike	P	0 - 36
2368799	Beta-Cyfluthrin	8.61	Spike	P	0 - 42
2368799	Bifenthrin	0.657	Spike	P	0 - 53
2368799	Carbophenothion	2.60	Spike	P	0 - 30
2368799	Chlorothalonil	7.28	Spike	P	0 - 71
2368799	Cis-Nonachlor	6.03	Spike	P	0 - 29
2368799	Cypermethrin	10.4	Spike	P	0 - 40
2368799	Dacthal	0.872	Spike	P	0 - 26
2368799	DDD-p,p'	7.57	Spike	P	0 - 39
2368799	DDE-p,p'	3.58	Spike	P	0 - 33
2368799	DDT-p,p'	5.03	Spike	P	0 - 40
2368799	Delta-BHC	10.4	Spike	P	0 - 37
2368799	Deltamethrin	4.88	Spike	P	0 - 100
2368799	Dichlobenil	5.25	Spike	P	0 - 40
2368799	Dicofol	5.69	Spike	P	0 - 31
2368799	Dieldrin	4.35	Spike	P	0 - 27
2368799	Endosulfan I	7.50	Spike	P	0 - 23
2368799	Endosulfan II	8.39	Spike	P	0 - 28
2368799	Endosulfan Sulfate	11.1	Spike	P	0 - 38
2368799	Endrin	3.70	Spike	P	0 - 63
2368799	Endrin Aldehyde	4.90	Spike	P	0 - 60
2368799	Endrin Ketone	0.965	Spike	P	0 - 37
2368799	Esfenvalerate	6.62	Spike	P	0 - 52
2368799	Ethalfuralin	4.73	Spike	P	0 - 23
2368799	Fenpropathrin	8.48	Spike	P	0 - 32
2368799	Gamma-BHC	3.01	Spike	P	0 - 17
2368799	Gamma-Chlordane	0.758	Spike	P	0 - 40
2368799	Heptachlor	2.58	Spike	P	0 - 29
2368799	Heptachlor Epoxide	8.04	Spike	P	0 - 25
2368799	Hexachlorobenzene	3.36	Spike	P	0 - 36
2368799	Kepone	12.6	Spike	P	0 - 93
2368799	Lambda-Cyhalothrin	2.58	Spike	P	0 - 55
2368799	Methoprene	3.41	Spike	P	0 - 53
2368799	Methoxychlor	3.23	Spike	P	0 - 29
2368799	MGK-264	11.9	Spike	P	0 - 35
2368799	Mirex	6.13	Spike	P	0 - 46
2368799	Oxychlordane	12.4	Spike	P	0 - 29
2368799	Permethrin	6.84	Spike	P	0 - 44
2368799	Phenothrin	3.66	Spike	P	0 - 56

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P422151

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368799	Piperonyl Butoxide	20.4	Spike	P	0 - 100
2368799	Prallethrin	5.44	Spike	P	0 - 42
2368799	Tau-Fluvalinate	6.26	Spike	P	0 - 54
2368799	Tetramethrin	0.460	Spike	P	0 - 51
2368799	Trans-Nonachlor	8.15	Spike	P	0 - 37
2368799	Triclosan Methyl	5.94	Spike	P	0 - 31
2368799	Trifluralin	0.918	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P422151

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368153	Chlordane	5.66	Spike	P	0 - 25
2368153	Toxaphene	2.10	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P422132

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368761	Acesulfame K	14.7	Spike	P	0 - 30
2368761	AMPA	4.66	Spike	P	0 - 30
2368761	Endothall	1.64	Spike	P	0 - 30
2368761	Glufosinate	0.132	Spike	P	0 - 30
2368761	Glyphosate	3.62	Spike	P	0 - 30
2368761	Sucralose	4.51	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P422148

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368036	2,4-D	3.46	Spike	P	0 - 30
2368036	2,4,5-T	1.43	Spike	P	0 - 30
2368036	Acetaminophen	4.72	Spike	P	0 - 30
2368036	Acetamiprid	4.59	Spike	P	0 - 30
2368036	Afidopyropen	6.75	Spike	P	0 - 30
2368036	Bentazon	3.09	Spike	P	0 - 30
2368036	Benzovindiflupyr	4.35	Spike	P	0 - 30
2368036	Carbamazepine	2.12	Spike	P	0 - 30
2368036	Clothianidin	0.201	Spike	P	0 - 30
2368036	Dinotefuran	2.98	Spike	P	0 - 30
2368036	Diuron	0.799	Spike	P	0 - 30
2368036	Fenuron	4.64	Spike	P	0 - 30
2368036	Fluridone	2.96	Spike	P	0 - 30
2368036	Hydrocodone	5.87	Spike	P	0 - 30
2368036	Ibuprofen	5.38	Spike	P	0 - 30
2368036	Imazapyr	4.47	Spike	P	0 - 30
2368036	Imidacloprid	6.07	Spike	P	0 - 30
2368036	Linuron	0.461	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P422148

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368036	Mandestrobin	1.35	Spike	P	0 - 30
2368036	MCCP	4.77	Spike	P	0 - 30
2368036	Naproxen	9.54	Spike	P	0 - 30
2368036	Primidone	0.482	Spike	P	0 - 30
2368036	Pyraclostrobin	2.10	Spike	P	0 - 30
2368036	Silvex	3.39	Spike	P	0 - 30
2368036	Thiamethoxam	4.23	Spike	P	0 - 30
2368036	Tolfenpyrad	1.09	Spike	P	0 - 30
2368036	Triclopyr	2.01	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P422639

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368966	Total Alkalinity	2.49	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P422674

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368619	TDS	5.91	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P422562

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368619	TSS	10.9	Sample	F	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P422643

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368966	Fluoride	0.972	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P422754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368640	Organic Carbon	1.25	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2368799

Field Sample ID: G4NW0277

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	92.4	P	29 - 130
EPA 8270E	Decachlorobiphenyl	86.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	74.4	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	70.8	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	57.8	P	30 - 101
EPA 8276	PCNB	87.5	P	48 - 121

Lab Sample ID: 2368800

Field Sample ID: G4NW0277

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	108	P	30 - 160
EPA 8321B	Acetaminophen-d4	94.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	96.5	P	30 - 160
EPA 8321B	Diuron-d6	90.3	P	30 - 160
EPA 8321B	Endothall-d6	97.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	80.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	90.6	P	30 - 160
EPA 8321B	Primidone-d5	109	P	30 - 160
EPA 8321B	Sucralose-d6	137	P	30 - 160

Lab Sample ID: 2368801

Field Sample ID: G4NW0506

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	97.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	103	P	30 - 160
EPA 8321B	Diuron-d6	96.8	P	30 - 160
EPA 8321B	Endothall-d6	99.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	85.4	P	30 - 160
EPA 8321B	Primidone-d5	98.5	P	30 - 160
EPA 8321B	Sucralose-d6	122	P	30 - 160

Lab Sample ID: 2368802

Field Sample ID: FB_11072022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	98.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	86.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	103	P	30 - 160
EPA 8321B	Diuron-d6	78.3	P	30 - 160
EPA 8321B	Endothall-d6	102	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	95.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	92.3	P	30 - 160
EPA 8321B	Primidone-d5	90.6	P	30 - 160
EPA 8321B	Sucralose-d6	148	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A115825

Included Lab Sample IDs: 2368788, 2368789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A115843

Included Lab Sample IDs: 2368788, 2368789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.0	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115863

Included Lab Sample IDs: 2368790, 2368791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	106	107	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115877

Included Lab Sample IDs: 2368800, 2368801, 2368802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	91.3	86.7	P/P	60 - 160
AMPA	93.5	91.3	P/P	60 - 160
Endothall	112	113	P/P	60 - 160
Endothall	113	116	P/P	60 - 160
Glufosinate	78.3	86.9	P/P	60 - 160
Glufosinate	87.0	78.3	P/P	60 - 160
Glyphosate	86.8	90.0	P/P	60 - 160
Glyphosate	90.0	97.3	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A115879

Included Lab Sample IDs: 2368800, 2368801, 2368802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	138	145	P/P	60 - 160
Acesulfame K	145	150	P/P	60 - 160
Sucralose	71.3	78.1	P/P	60 - 160
Sucralose	96.8	71.3	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A115912

Included Lab Sample IDs: 2368800, 2368801, 2368802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	89.0	75.3	P/P	50 - 150
2,4,5-T	104	88.6	P/P	50 - 150
Acetaminophen	92.2	92.0	P/P	60 - 160
Acetamiprid	95.5	93.7	P/P	50 - 150
Afidopyropen	93.3	88.1	P/P	50 - 150
Bentazon	104	94.9	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A115912

Included Lab Sample IDs: 2368800, 2368801, 2368802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Benzovindiflupyr	90.6	88.9	P/P	50 - 150
Carbamazepine	105	102	P/P	60 - 150
Clothianidin	99.1	97.6	P/P	60 - 150
Dinotefuran	103	101	P/P	50 - 150
Diuron	92.8	88.9	P/P	60 - 160
Fenuron	95.5	93.2	P/P	60 - 150
Fluridone	94.1	96.6	P/P	60 - 160
Hydrocodone	95.5	98.3	P/P	60 - 150
Ibuprofen	108	120	P/P	50 - 160
Imazapyr	94.6	91.1	P/P	50 - 150
Imidacloprid	92.5	92.9	P/P	60 - 150
Linuron	78.0	88.7	P/P	60 - 150
Mandestrobin	96.5	99.6	P/P	50 - 150
MCPP	100	92.2	P/P	50 - 150
Naproxen	113	78.3	P/P	50 - 160
Primidone	85.0	85.9	P/P	60 - 150
Pyraclostrobin	88.9	88.9	P/P	60 - 150
Silvex	84.4	88.7	P/P	50 - 150
Thiamethoxam	99.1	100	P/P	50 - 150
Tolfenpyrad	79.0	81.3	P/P	60 - 150
Triclopyr	93.2	97.6	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A115939

Included Lab Sample IDs: 2368788

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	99.3	P/P	90 - 110
Sulfate	105	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115970

Included Lab Sample IDs: 2368799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	92.3		P	80 - 120
PCB-1260	97.5		P	80 - 120

Reference Method: EPA 8270E

Run ID: A115986

Included Lab Sample IDs: 2368799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	98.7		P	80 - 120
Beta-BHC	109		P	80 - 120
Beta-Cyfluthrin	109		P	80 - 120
Bifenthrin	103		P	80 - 120
Carbophenothion	106		P	80 - 120
Chlorothalonil	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A115986
 Included Lab Sample IDs: 2368799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cis-Nonachlor	104		P	80 - 120
Cypermethrin	111		P	80 - 120
Dacthal	110		P	80 - 120
DDD-p,p'	112		P	80 - 120
DDE-p,p'	111		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	102		P	80 - 120
Deltamethrin	103		P	80 - 120
Dichlobenil	101		P	80 - 120
Dicofol	99.0		P	80 - 120
Dieldrin	110		P	80 - 120
Endosulfan I	107		P	80 - 120
Endosulfan II	108		P	80 - 120
Endosulfan Sulfate	115		P	80 - 120
Endrin	106		P	80 - 120
Endrin Aldehyde	110		P	80 - 120
Endrin Ketone	92.9		P	80 - 120
Esfenvalerate	108		P	80 - 120
Ethalfuralin	102		P	80 - 120
Fenpropathrin	106		P	80 - 120
Gamma-BHC	116		P	80 - 120
Gamma-Chlordane	98.8		P	80 - 120
Heptachlor	106		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Hexachlorobenzene	99.9		P	80 - 120
Kepone	99.3		P	80 - 120
Lambda-Cyhalothrin	106		P	80 - 120
Methoprene	107		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	105		P	80 - 120
Mirex	103		P	80 - 120
Oxychlordane	104		P	80 - 120
Permethrin	106		P	80 - 120
Phenothrin	99.2		P	80 - 120
Piperonyl Butoxide	101		P	80 - 120
Prallethrin	106		P	80 - 120
Tau-Fluvalinate	109		P	80 - 120
Tetramethrin	105		P	80 - 120
Trans-Nonachlor	103		P	80 - 120
Triclosan Methyl	102		P	80 - 120
Trifluralin	97.1		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
 Run ID: A116026
 Included Lab Sample IDs: 2368791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276
Run ID: A116027
Included Lab Sample IDs: 2368799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.4		P	80 - 120
Toxaphene	98.8		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A116030
Included Lab Sample IDs: 2368790, 2368791

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

Reference Method: SM 2320 B-2011
Run ID: A116057
Included Lab Sample IDs: 2368788, 2368789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.9	97.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A116057
Included Lab Sample IDs: 2368788, 2368789

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A116064
Included Lab Sample IDs: 2368790, 2368791

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A116108
Included Lab Sample IDs: 2368789

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.3	101	P/P	90 - 110
Sulfate	97.2	100	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A116128
Included Lab Sample IDs: 2368790, 2368791

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A116143
Included Lab Sample IDs: 2368790

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

Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A116143

Included Lab Sample IDs: 2368790

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.3	92.2	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	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	100				0.793	
EPA 180.1 Rev. 2.0	Turbidity	99.3					
EPA 300.0 Rev. 2.1	Chloride	101	99.2	102		0.591	
	Chloride	96.3	94.1	96.9		0.210	
	Sulfate	101	99.9	103		0.588	
	Sulfate	93.8	95.6	95.3			
	Ammonia-N	99.2	96.6	95.6			0.964
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.5	107	100			5.90
	Kjeldahl Nitrogen	103	99.3	97.4			1.30
EPA 353.2 Rev. 2.0	NO2NO3-N	106	99.0	100			0.672
EPA 365.1 Rev. 2.0	Total-P	101	98.8	99.6			0.795
EPA 8270E	Aldrin	63.8	57.4	53.1			7.87
	Alpha-BHC	94.5	81.9	78.3			4.43
	Alpha-Chlordane	91.2	72.7	68.1			6.57
	Beta-BHC	104	87.0	92.7			6.41
	Beta-Cyfluthrin	68.6	81.5	74.8			8.61
	Bifenthrin	52.8	64.2	63.8			0.657
	Carbophenothion	64.8	61.5	59.9			2.60
	Chlorothalonil	103	127	118			7.28
	Cis-Nonachlor	70.8	68.0	64.0			6.03
	Cypermethrin	75.9	86.2	77.6			10.4
	Dacthal	94.7	84.9	84.2			0.872
	DDD-p,p'	83.2	79.2	73.4			7.57
	DDE-p,p'	75.6	66.5	68.9			3.58
	DDT-p,p'	78.3	66.6	63.0			5.03
	Delta-BHC	94.1	101	112			10.4
	Deltamethrin	73.4	86.4	90.8			4.88
	Dichlobenil	78.4	79.8	75.7			5.25
	Dicofol	80.7	75.7	71.5			5.69
	Dieldrin	75.4	70.8	73.9			4.35
	Endosulfan I	78.5	68.1	73.4			7.50
	Endosulfan II	79.1	72.6	78.9			8.39
	Endosulfan Sulfate	86.5	76.9	86.0			11.1
	Endrin	74.7	67.1	69.6			3.70
	Endrin Aldehyde	25.5	53.8	56.5			4.90
	Endrin Ketone	120	105	106			0.965
	Esfenvalerate	63.8	76.6	81.8			6.62
	Ethalfuralin	75.0	63.7	66.8			4.73
	Fenpropathrin	70.0	72.2	78.5			8.48
	Gamma-BHC	86.8	85.3	87.9			3.01
	Gamma-Chlordane	89.9	69.4	69.9			0.758
	Heptachlor	66.5	58.0	59.5			2.58
	Heptachlor Epoxide	78.4	67.5	73.1			8.04
	Hexachlorobenzene	78.5	71.4	73.9			3.36
	Kepone	70.6	57.5	65.2			12.6
	Lambda-Cyhalothrin	61.2	78.1	80.2			2.58
	Methoprene	62.1	73.3	75.8			3.41
	Methoxychlor	81.1	73.9	76.4			3.23
	MGK-264	97.0	85.0	95.8			11.9
	Mirex	61.5	59.1	62.8			6.13
	Oxychlordane	70.0	57.7	65.3			12.4
	PCB-1016	70.6	56.5	62.4			10.0
	PCB-1260	68.1	48.1	56.7			16.4
	Permethrin	71.4	75.7	81.1			6.84

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Phenothrin	55.1	68.1	70.7			3.66
	Piperonyl Butoxide	92.7	81.8	100			20.4
	Prallethrin	81.5	80.0	84.4			5.44
	Tau-Fluvalinate	55.1	73.1	77.8			6.26
	Tetramethrin	91.6	102	101			0.460
	Trans-Nonachlor	72.7	60.9	66.1			8.15
	Triclosan Methyl	81.5	68.9	73.1			5.94
	Trifluralin	69.2	58.8	59.4			0.918
EPA 8276	Chlordane	83.9	55.9	59.2			5.66
	Toxaphene	96.1	79.6	81.2			2.10
EPA 8321B	2,4-D	104					3.46
	2,4,5-T	89.5	80.6	79.5			1.43
	Acesulfame K	138	78.7	67.9			14.7
	Acetaminophen	96.6	110	115			4.72
	Acetamiprid	88.3	97.8	93.4			4.59
	Afidopyropen	37.4	41.9	39.2			6.75
	AMPA	94.7	75.8	80.1			4.66
	Bentazon	97.7	88.1	90.8			3.09
	Benzovindiflupyr	89.3	92.0	96.1			4.35
	Carbamazepine	97.1	97.7	99.8			2.12
	Clothianidin	98.8	125	125			0.201
	Dinotefuran	104	133	137			2.98
	Diuron	81.6	79.6	80.9			0.799
	Endothall	113	203	207			1.64
	Fenuron	110	99.8	105			4.64
	Fluridone	102	99.8	103			2.96
	Glufosinate	76.5	84.2	84.3			0.132
	Glyphosate	82.4	103	99.3			3.62
	Hydrocodone	105	123	131			5.87
	Ibuprofen	94.7	97.2	92.1			5.38
	Imazapyr	95.8	108	113			4.47
	Imidacloprid	103	164	174			6.07
	Linuron	82.3	81.1	80.7			0.461
	Mandestrobin	105	107	109			1.35
	MCPP	105	104	109			4.77
	Naproxen	86.3	76.9	84.6			9.54
	Primidone	95.2	118	117			0.482
	Pyraclostrobin	86.5	96.5	98.6			2.10
	Silvex	79.6	90.6	93.7			3.39
	Sucralose	101	109	104			4.51
	Thiamethoxam	104	158	165			4.23
	Tolfenpyrad	50.5	55.3	56.0			1.09
	Triclopyr	90.2	86.5	84.8			2.01
SM 2320 B-2011	Total Alkalinity					2.49	
SM 2540 C-2015	TDS	97.7				5.91	
SM 2540 D-2015	TSS	93.1				10.9	
SM 4500-F- C-2011	Fluoride	99.9	102	100			0.972
SM 5310 B-2011	Organic Carbon	95.6	97.6	95.9			1.25

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2368788, 2368789

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2368788, 2368789
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2368788, 2368789
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2368788, 2368789
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2368790, 2368791
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2368790, 2368791
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2368790, 2368791
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2368790, 2368791
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2368799
EPA 8270E	PCBs in water matrices by GC/MS/MS	2368799
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2368799
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2368800, 2368801, 2368802
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2368788, 2368789
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2368788, 2368789
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2368788, 2368789
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2368788, 2368789
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2368790, 2368791

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	11/09/2022			11/09/2022 10:55	Samantha L Bates	2368788, 2368789
EPA 180.1 Rev. 2.0	11/09/2022			11/09/2022 10:29	Chandler E Cox	2368789
	11/09/2022			11/09/2022 10:30	Chandler E Cox	2368788
EPA 300.0 Rev. 2.1	11/09/2022			11/19/2022 11:28	Anna M. Plaviak	2368788
	11/09/2022			11/22/2022 16:09	James L Waggeberby	2368789
EPA 350.1 Rev. 2.0	11/09/2022			11/21/2022 12:47	Ping Hua	2368790
	11/09/2022			11/21/2022 12:50	Ping Hua	2368791
EPA 351.2 Rev. 2.0	11/09/2022	11/16/2022 13:04	Alexandra J Mattheus	11/18/2022 11:19	Samantha L Bates	2368791
	11/09/2022	11/22/2022 09:10	Simonne.V. Calhoun	11/28/2022 10:28	Judith K. Clark	2368790
EPA 353.2 Rev. 2.0	11/09/2022			11/10/2022 12:19	Beverly Y. Sanders	2368790
	11/09/2022			11/10/2022 12:20	Beverly Y. Sanders	2368791
EPA 365.1 Rev. 2.0	11/09/2022	11/16/2022 13:00	Simonne.V. Calhoun	11/18/2022 13:03	Simonne.V. Calhoun	2368790
	11/09/2022	11/16/2022 13:00	Simonne.V. Calhoun	11/18/2022 13:04	Simonne.V. Calhoun	2368791
EPA 8270E	11/09/2022	11/10/2022 08:30	Rasheda Ghaffari	11/15/2022 21:33	Julie Wi	2368799
	11/09/2022	11/10/2022 08:30	Rasheda Ghaffari	11/15/2022 21:55	Vandana T. Nagar	2368799
EPA 8276	11/09/2022	11/10/2022 08:30	Rasheda Ghaffari	11/15/2022 10:22	Lipi Saha	2368799
EPA 8321B	11/09/2022	11/10/2022 09:30	June Rhew	11/11/2022 02:07	Juyoung Kim	2368800
	11/09/2022	11/10/2022 09:30	June Rhew	11/11/2022 02:27	Juyoung Kim	2368801
	11/09/2022	11/10/2022 09:30	June Rhew	11/11/2022 02:48	Juyoung Kim	2368802
	11/09/2022	11/10/2022 10:20	Manjita Shrestha	11/10/2022 11:51	Manjita Shrestha	2368800
	11/09/2022	11/10/2022 10:20	Manjita Shrestha	11/10/2022 12:06	Manjita Shrestha	2368801
	11/09/2022	11/10/2022 10:20	Manjita Shrestha	11/10/2022 12:36	Manjita Shrestha	2368802
	11/09/2022	11/10/2022 10:20	Manjita Shrestha	11/10/2022 17:19	Manjita Shrestha	2368800
	11/09/2022	11/10/2022 10:20	Manjita Shrestha	11/10/2022 17:32	Manjita Shrestha	2368801
	11/09/2022	11/10/2022 10:20	Manjita Shrestha	11/10/2022 17:58	Manjita Shrestha	2368802
SM 2320 B-2011	11/09/2022			11/19/2022 12:05	Dale L. Simmons	2368788
	11/09/2022			11/19/2022 12:17	Dale L. Simmons	2368789
SM 2540 C-2015	11/09/2022			11/14/2022 10:21	Yijie Li	2368788
	11/09/2022			11/14/2022 10:26	Yijie Li	2368789
SM 2540 D-2015	11/09/2022			11/14/2022 10:21	Yijie Li	2368788
	11/09/2022			11/14/2022 10:29	Yijie Li	2368789
SM 4500-F- C-2011	11/09/2022			11/19/2022 12:05	Dale L. Simmons	2368788
	11/09/2022			11/19/2022 12:17	Dale L. Simmons	2368789
SM 5310 B-2011	11/09/2022			11/21/2022 23:36	Khloe J Berg	2368790
	11/09/2022			11/21/2022 23:49	Khloe J Berg	2368791