

Chemical Analysis Report

NE-DIST-2023-07-13-01

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

Event Description: **LSJR Southside 2023**
Request ID: **RQ-2023-07-10-19**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Colin Wright, Program Administrator

Date Certified: 31-JUL-2023 11:45



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: BIG POTTSBURG CR BOWDEN RD

Collection Date/Time: 07/12/2023 09:35

Field ID: 20030068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2423708	EPA 8270E	Aldrin	0.66	U	ng/L	P432458	
		Alpha-BHC	0.94		ng/L	P432458	
		Alpha-Chlordane	0.21	I	ng/L	P432458	
		PCB-1016	2.0	U	ng/L	P432458	
		Beta-BHC	0.30	I J	ng/L	P432458	LCS
		PCB-1221	2.0	U	ng/L	P432458	
		Beta-Cyfluthrin	1.3	U	ng/L	P432458	
		PCB-1232	2.0	U	ng/L	P432458	
		Bifenthrin	0.51	U	ng/L	P432458	
		PCB-1242	2.0	U	ng/L	P432458	
		Carbophenothion	0.92	U	ng/L	P432458	
		PCB-1248	2.0	U	ng/L	P432458	
		Chlorothalonil	3.7	U	ng/L	P432458	
		PCB-1254	2.0	U	ng/L	P432458	
		Cis-Nonachlor	0.20	U	ng/L	P432458	
		PCB-1260	2.0	U	ng/L	P432458	
		Cypermethrin	1.5	U	ng/L	P432458	
		Dacthal	0.15	U	ng/L	P432458	
		DDD-p,p'	1.7		ng/L	P432458	
		DDE-p,p'	0.20	U	ng/L	P432458	
		DDT-p,p'	0.81	U	ng/L	P432458	
		Delta-BHC	1.6	I	ng/L	P432458	
		Deltamethrin	1.3	U	ng/L	P432458	
		Dichlobenil	0.25	U	ng/L	P432458	
		Dicofol	1.3	U	ng/L	P432458	
		Dieldrin	0.41	U	ng/L	P432458	
		Endosulfan I	0.41	U	ng/L	P432458	
		Endosulfan II	0.92	U	ng/L	P432458	
		Endosulfan Sulfate	0.31	U	ng/L	P432458	
		Endrin	0.92	U	ng/L	P432458	
		Endrin Aldehyde	0.76	U	ng/L	P432458	
		Endrin Ketone	0.41	U	ng/L	P432458	
		Esfenvalerate	0.76	U	ng/L	P432458	
		Ethalfuralin	0.15	U	ng/L	P432458	
		Fenpropathrin	0.25	U	ng/L	P432458	
		Gamma-BHC	0.77		ng/L	P432458	
		Gamma-Chlordane	0.42	I	ng/L	P432458	
		Heptachlor	0.20	U	ng/L	P432458	
		Heptachlor Epoxide	0.25	U	ng/L	P432458	
		Hexachlorobenzene**	1.0	U	ng/L	P432458	
		Kepone	14	UJ	ng/L	P432458	CCV
		Lambda-Cyhalothrin	0.76	U	ng/L	P432458	
		Methoprene	0.76	U	ng/L	P432458	
		Methoxychlor	0.31	U	ng/L	P432458	

Field ID: 20030068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2423708	EPA 8270E	MGK-264	0.20	U	ng/L	P432458	RPD
		Mirex	0.36	U	ng/L	P432458	
		Oxychlordane	0.31	U	ng/L	P432458	
		Permethrin	1.6	U	ng/L	P432458	
		Phenothrin	0.92	U	ng/L	P432458	
		Piperonyl Butoxide	1.1		ng/L	P432458	
		Prallethrin	2.0	U	ng/L	P432458	
		Tau-Fluvalinate	0.25	U	ng/L	P432458	
		Tetramethrin	0.76	U	ng/L	P432458	
		Trans-Nonachlor	0.20	U	ng/L	P432458	
		Triclosan Methyl	0.15	U	ng/L	P432458	
		Trifluralin	0.20	U	ng/L	P432458	
	EPA 8276	Chlordane	2.7	I	ng/L	P432458	
		Toxaphene	130		ng/L	P432458	

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

Sample Location: CHRISTOPHER CR AT SAN JOSE BLVD SR 13 Collection Date/Time: 07/12/2023 10:30

Field ID: 20030863

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2423696	DEP SOP: NU-094-1	Color (true)	63		PCU	P432436	
	EPA 180.1 Rev. 2.0	Turbidity	4.0		NTU	P432432	
	EPA 300.0 Rev. 2.1	Chloride	140		mg Cl/L	P433120	
		Sulfate	46		mg SO4/L	P433123	
	SM 2320 B-2011	Total Alkalinity	83		mg CaCO3/L	P432542	
	SM 2540 C-2015	TDS	385		mg/L	P433062	
	SM 2540 D-2015	TSS	5	I	mg/L	P433041	
	SM 4500-F- C-2011	Fluoride	0.13		mg F/L	P432544	
2423698	EPA 350.1 Rev. 2.0	Ammonia-N	0.18		mg N/L	P432641	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.73		mg N/L	P432904	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.21		mg N/L	P432588	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P432555	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P432602	

Ref. Method and Comment:

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

Sample Location: GOODBYS CREEK AT SANCHEZ RD

Collection Date/Time: 07/12/2023 12:00

Field ID: 20030594

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2423709	EPA 8270E	Aldrin	0.67	U	ng/L	P432458	
		Alpha-BHC	0.10	U	ng/L	P432458	
		Alpha-Chlordane	0.28	I	ng/L	P432458	
		PCB-1016	2.1	U	ng/L	P432458	
		Beta-BHC	0.10	UJ	ng/L	P432458	LCS
		PCB-1221	2.1	U	ng/L	P432458	
		Beta-Cyfluthrin	1.3	U	ng/L	P432458	
		PCB-1232	2.1	U	ng/L	P432458	
		Bifenthrin	0.54	I	ng/L	P432458	
		PCB-1242	2.1	U	ng/L	P432458	
		PCB-1248	2.1	U	ng/L	P432458	
		Chlorothalonil	3.7	U	ng/L	P432458	
		PCB-1254	2.1	U	ng/L	P432458	
		Cis-Nonachlor	0.21	U	ng/L	P432458	
		PCB-1260	2.1	U	ng/L	P432458	
		Cypermethrin	1.6	U	ng/L	P432458	
		Dacthal	0.16	U	ng/L	P432458	
		DDD-p,p'	0.26	U	ng/L	P432458	
		DDE-p,p'	0.21	U	ng/L	P432458	
		DDT-p,p'	0.83	U	ng/L	P432458	
		Delta-BHC	0.41	U	ng/L	P432458	
		Deltamethrin	1.3	U	ng/L	P432458	
		Dichlobenil	0.26	U	ng/L	P432458	
		Dicofol	1.3	U	ng/L	P432458	
		Dieldrin	0.89	I	ng/L	P432458	
		Endosulfan I	0.41	U	ng/L	P432458	
		Endosulfan II	0.93	U	ng/L	P432458	
		Endosulfan Sulfate	0.31	U	ng/L	P432458	
		Endrin	0.93	U	ng/L	P432458	
		Endrin Aldehyde	0.78	U	ng/L	P432458	
		Endrin Ketone	0.41	U	ng/L	P432458	
		Esfenvalerate	0.78	U	ng/L	P432458	
		Ethalfuralin	0.16	U	ng/L	P432458	
		Fenpropathrin	0.26	U	ng/L	P432458	
		Gamma-BHC	0.13	U	ng/L	P432458	
		Gamma-Chlordane	0.45	I	ng/L	P432458	
		Heptachlor	0.21	U	ng/L	P432458	
		Heptachlor Epoxide	0.43	I	ng/L	P432458	
		Hexachlorobenzene**	1.0	U	ng/L	P432458	
		Kepone	14	UJ	ng/L	P432458	CCV
		Lambda-Cyhalothrin	0.78	U	ng/L	P432458	
		Methoprene	0.78	U	ng/L	P432458	
		Methoxychlor	0.31	U	ng/L	P432458	
		MGK-264	0.21	U	ng/L	P432458	

Field ID: 20030594

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2423709	EPA 8270E	Mirex	0.36	U	ng/L	P432458	RPD
		Oxychlorane	0.31	U	ng/L	P432458	
		Permethrin	1.7	U	ng/L	P432458	
		Phenothrin	0.93	U	ng/L	P432458	
		Piperonyl Butoxide	31		ng/L	P432458	
		Prallethrin	2.1	U	ng/L	P432458	
		Tau-Fluvalinate	0.26	U	ng/L	P432458	
		Tetramethrin	0.78	U	ng/L	P432458	
		Trans-Nonachlor	0.21	U	ng/L	P432458	
		Triclosan Methyl	0.16	U	ng/L	P432458	
		Trifluralin	0.21	U	ng/L	P432458	
	EPA 8276	Chlordane	3.8	I	ng/L	P432458	
		Toxaphene	16	U	ng/L	P432458	

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

Sample Location: CORMORANT BRANCH AT MARBON RD

Collection Date/Time: 07/12/2023 12:30

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2423694	DEP SOP: NU-094-1	Color (true)	74	A	PCU	P432436	
	EPA 180.1 Rev. 2.0	Turbidity	3.2	A	NTU	P432432	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P432672	
		Sulfate	12		mg SO4/L	P432675	
	SM 2320 B-2011	Total Alkalinity	61	A	mg CaCO3/L	P432542	
	SM 2540 C-2015	TDS	137		mg/L	P433062	
	SM 2540 D-2015	TSS	2	I	mg/L	P433041	
2423695	SM 4500-F- C-2011	Fluoride	0.087	I	mg F/L	P432544	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.029		mg N/L	P432641	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.48		mg N/L	P432904	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P432588	
	EPA 365.1 Rev. 2.0	Total-P	0.079		mg P/L	P432555	
2423710	SM 5310 B-2011	Organic Carbon	10		mg C/L	P432602	
	EPA 8321B	2,4-D	0.020		ug/L	P432513	
		Acesulfame K	0.10	I	ug/L	P432522	
		2,4,5-T	0.0040	U	ug/L	P432513	
		AMPA	0.32	I	ug/L	P432522	
		Acetaminophen	0.0080	U	ug/L	P432513	
		Acetamiprid	0.0020	U	ug/L	P432513	
		Endothall	0.25	U	ug/L	P432522	
		Glufosinate	0.10	U	ug/L	P432522	
		Glyphosate	0.28	I	ug/L	P432522	
		Afidopyropen	0.0020	U	ug/L	P432513	
		Bentazon	0.055		ug/L	P432513	
		Sucralose	0.14		ug/L	P432522	
		Benzovindiflupyr	0.0020	U	ug/L	P432513	
		Carbamazepine	8.0E-04	U	ug/L	P432513	
		Clothianidin	0.034		ug/L	P432513	
		Dinotefuran	0.0020	U	ug/L	P432513	
		Diuron	0.011		ug/L	P432513	
		Fenuron	0.032	U	ug/L	P432513	
		Fluridone	0.010		ug/L	P432513	
		Imazapyr	0.24		ug/L	P432513	
		Hydrocodone	0.0020	U	ug/L	P432513	
		Ibuprofen	0.080	U	ug/L	P432513	
		Imidacloprid	0.018		ug/L	P432513	
		Linuron	0.0040	U	ug/L	P432513	
		Mandestrobin	0.0020	U	ug/L	P432513	
		MCPP	0.0036	I	ug/L	P432513	
		Naproxen	0.0080	U	ug/L	P432513	
		Primidone	0.0040	U	ug/L	P432513	
		Pyraclostrobin	0.0020	U	ug/L	P432513	
		Silvex	0.0040	U	ug/L	P432513	
		Thiamethoxam	0.0067	I	ug/L	P432513	

Field ID: 20030852

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2423710	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P432513	
		Triclopyr	0.0040	U	ug/L	P432513	

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

Sample Location: OLDFIELD CREEK AT TAR KILN RD

Collection Date/Time: 07/12/2023 13:10

Field ID: G2NE1174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2423697	DEP SOP: NU-094-1	Color (true)	68		PCU	P432436	
	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P432432	
	EPA 300.0 Rev. 2.1	Chloride	27		mg Cl/L	P432672	
		Sulfate	21		mg SO4/L	P432675	
	SM 2320 B-2011	Total Alkalinity	69		mg CaCO3/L	P432542	
	SM 2540 C-2015	TDS	163		mg/L	P433062	
	SM 2540 D-2015	TSS	3	I	mg/L	P433041	
	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P432544	
2423699	EPA 350.1 Rev. 2.0	Ammonia-N	0.044		mg N/L	P432641	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.53		mg N/L	P432905	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P432589	
	EPA 365.1 Rev. 2.0	Total-P	0.071		mg P/L	P432556	
	SM 5310 B-2011	Organic Carbon	9.2		mg C/L	P432602	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P432436

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432432

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432672

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432675

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433120

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433123

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432641

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432904

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432905

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: P432588

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432589

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432555

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432556

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

Reference Method: EPA 8270E
Batch ID: P432458

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	3.6	U	ng/L
Chlorothalonil	3.6	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'	0.80	U	ng/L
DDT-p,p'	0.80	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432458

Component	Result	Code	Units
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
Endosulfan II	0.90	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin	0.90	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	14	U	ng/L
Kepone	14	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432458

Component	Result	Code	Units
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
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: P432458

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: P432513

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P432513

Component	Result	Code	Units
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P432522

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: SM 2320 B-2011

Batch ID: P432542

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

Reference Method: SM 2540 C-2015

Batch ID: P433062

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P433041

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P432544

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P432602

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: P432436

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432432

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432672

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432675

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433120

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433123

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432641

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432904

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.1		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432905

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.6		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432588

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432589

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432555

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432556

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

Reference Method: EPA 8270E
Batch ID: P432458

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	42.0		P	30 - 96.0
Alpha-BHC	78.3		P	70 - 109
Alpha-Chlordane	61.8		P	45 - 107
Beta-BHC	48.2		F	64 - 138
Beta-Cyfluthrin	53.8		P	17 - 141
Bifenthrin	58.2		P	10 - 113
Carbophenothion	50.6		P	24 - 91.0
Chlorothalonil	73.3		P	26 - 180
Cis-Nonachlor	63.5		P	37 - 102
Cypermethrin	82.1		P	20 - 133
Dacthal	78.5		P	69 - 114
DDD-p,p'	57.0		P	42 - 105
DDE-p,p'	61.7		P	42 - 106
DDT-p,p'	62.1		P	42 - 107
Delta-BHC	71.7		P	67 - 144
Deltamethrin	64.3		P	15 - 149
Dichlobenil	57.4		P	46 - 117
Dicofol	58.9		P	34 - 114
Dieldrin	63.9		P	50 - 108
Endosulfan I	62.3		P	55 - 104
Endosulfan II	72.5		P	51 - 111
Endosulfan Sulfate	77.0		P	56 - 121
Endrin	69.4		P	10 - 106
Endrin Aldehyde	55.8		P	34 - 114
Endrin Ketone	96.3		P	63 - 177
Esfenvalerate	74.6		P	29 - 143
Ethalfuralin	59.9		P	46 - 96.0
Fenpropathrin	74.2		P	28 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432458

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-BHC	85.5		P	65 - 121
Gamma-Chlordane	64.4		P	39 - 103
Heptachlor	62.9		P	39 - 94.0
Heptachlor Epoxide	64.0		P	54 - 104
Hexachlorobenzene	51.3		P	36 - 100
Kepone	66.1		P	10 - 225
Lambda-Cyhalothrin	67.2		P	10 - 135
Methoprene	60.1		P	10 - 109
Methoxychlor	74.7		P	52 - 112
MGK-264	79.6		P	44 - 117
Mirex	48.3		P	20 - 90.0
Oxychlordane	63.2		P	44 - 102
PCB-1016	81.7		P	45 - 107
PCB-1260	72.9		P	40 - 118
Permethrin	65.9		P	18 - 135
Phenothrin	58.4		P	10 - 102
Piperonyl Butoxide	80.6		P	28 - 156
Prallethrin	67.6		P	28 - 113
Tau-Fluvalinate	73.4		P	10 - 123
Tetramethrin	80.2		P	18 - 158
Trans-Nonachlor	63.8		P	39 - 104
Triclosan Methyl	62.4		P	54 - 108
Trifluralin	62.6		P	46 - 97.0

Reference Method: EPA 8276

Batch ID: P432458

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	72.1		P	52 - 117
Toxaphene	71.3		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P432513

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	87.3		P	40 - 150
2,4,5-T	84.5		P	40 - 150
Acetaminophen	55.9		P	30 - 150
Acetamiprid	58.4		P	40 - 150
Afidopyropen	46.8		P	30 - 150
Bentazon	108		P	30 - 150
Benzovindiflupyr	72.7		P	40 - 150
Carbamazepine	68.4		P	40 - 150
Clothianidin	82.1		P	40 - 150
Dinotefuran	94.7		P	40 - 150
Diuron	47.3		P	40 - 150
Fenuron	83.7		P	40 - 150
Fluridone	75.4		P	40 - 150
Hydrocodone	85.9		P	40 - 150
Ibuprofen	63.7		P	40 - 150
Imazapyr	76.3		P	40 - 150
Imidacloprid	76.5		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P432513

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Linuron	69.0		P	40 - 150
Mandestrobin	70.9		P	40 - 150
MCPP	88.8		P	40 - 150
Naproxen	65.6		P	40 - 150
Primidone	72.7		P	40 - 150
Pyraclostrobin	76.5		P	40 - 150
Silvex	85.5		P	40 - 150
Thiamethoxam	69.7		P	40 - 150
Tolfenpyrad	53.5		P	30 - 150
Triclopyr	83.1		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P432522

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	90.2		P	40 - 150
AMPA	84.6		P	40 - 150
Endothall	87.2		P	40 - 150
Glufosinate	91.6		P	40 - 150
Glyphosate	98.1		P	40 - 150
Sucralose	89.1		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P432542

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.7		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P433062

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.5		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P433041

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	103		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P432544

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P432602

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432672

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423564	Chloride	106		P	90 - 110
2423697	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432675

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423564	Sulfate	100		P	90 - 110
2423697	Sulfate	93.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433120

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425103	Chloride	98.0		P	90 - 110
2425308	Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433123

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2425103	Sulfate	96.3		P	90 - 110
2425308	Sulfate	94.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432641

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423695	Ammonia-N	97.4	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432904

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423687	Kjeldahl Nitrogen	105	95.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423699	Kjeldahl Nitrogen	99.0	97.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432588

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423508	NO2NO3-N	98.8	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432589

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P432589

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423699	NO2NO3-N	96.0	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P432555

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423614	Total-P	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P432556

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423699	Total-P	102	101	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P432458

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423733	Aldrin	51.6	40.2	P/P	24 - 81.0
2423733	Alpha-BHC	86.5	86.1	P/P	65 - 110
2423733	Alpha-Chlordane	72.1	62.3	P/P	43 - 119
2423733	Beta-BHC	57.2	54.4	P/P	54 - 165
2423733	Beta-Cyfluthrin	49.4	36.8	P/P	27 - 165
2423733	Bifenthrin	54.8	42.0	P/P	17 - 117
2423733	Carbophenothion	52.7	47.6	P/P	21 - 108
2423733	Chlorothalonil	77.6	84.3	P/P	10 - 255
2423733	Cis-Nonachlor	64.0	52.2	P/P	34 - 98.0
2423733	Cypermethrin	72.7	60.1	P/P	25 - 143
2423733	Dacthal	89.2	88.1	P/P	55 - 139
2423733	DDD-p,p'	64.3	51.6	P/P	30 - 109
2423733	DDE-p,p'	68.4	59.0	P/P	35 - 106
2423733	DDT-p,p'	63.1	57.7	P/P	41 - 101
2423733	Delta-BHC	75.1	76.7	P/P	58 - 165
2423733	Deltamethrin	58.3	52.8	P/P	10 - 194
2423733	Dichlobenil	73.4	69.2	P/P	22 - 114
2423733	Dicofol	65.5	64.4	P/P	17 - 133
2423733	Dieldrin	64.4	61.6	P/P	45 - 129
2423733	Endosulfan I	66.6	63.6	P/P	49 - 104
2423733	Endosulfan II	83.3	73.2	P/P	37 - 117
2423733	Endosulfan Sulfate	80.9	74.2	P/P	38 - 128
2423733	Endrin	75.8	71.7	P/P	35 - 116
2423733	Endrin Aldehyde	77.9	60.3	P/P	19 - 108
2423733	Endrin Ketone	109	109	P/P	44 - 134
2423733	Esfenvalerate	63.7	52.8	P/P	27 - 176
2423733	Ethalfuralin	67.9	64.4	P/P	49 - 100
2423733	Fenpropathrin	66.5	58.9	P/P	34 - 117
2423733	Gamma-BHC	104	100	P/P	59 - 129
2423733	Gamma-Chlordane	72.5	59.9	P/P	33 - 107
2423733	Heptachlor	74.9	66.1	P/P	37 - 94.0
2423733	Heptachlor Epoxide	68.7	66.2	P/P	38 - 118
2423733	Hexachlorobenzene	55.7	51.9	P/P	35 - 97.0
2423733	Kepone	65.0	48.4	P/P	10 - 221

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P432458

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423733	Lambda-Cyhalothrin	58.0	48.5	P/P	23 - 190
2423733	Methoprene	60.5	47.7	P/P	21 - 109
2423733	Methoxychlor	82.1	85.7	P/P	46 - 118
2423733	MGK-264	90.9	88.0	P/P	39 - 122
2423733	Mirex	54.4	33.4	P/P	25 - 90.0
2423733	Oxychlordane	72.5	65.6	P/P	42 - 100
2423733	Permethrin	60.3	58.1	P/P	33 - 181
2423733	Phenothrin	56.1	54.9	P/P	12 - 125
2423733	Piperonyl Butoxide	83.7	95.4	P/P	10 - 178
2423733	Prallethrin	78.0	70.7	P/P	24 - 122
2423733	Tau-Fluvalinate	60.2	48.2	P/P	13 - 151
2423733	Tetramethrin	78.7	84.1	P/P	16 - 172
2423733	Trans-Nonachlor	69.8	60.1	P/P	39 - 100
2423733	Triclosan Methyl	65.1	64.0	P/P	43 - 110
2423733	Trifluralin	64.9	62.4	P/P	45 - 94.0
2423853	PCB-1016	68.9	79.8	P/P	45 - 107
2423853	PCB-1260	56.9	60.2	P/P	40 - 112

Reference Method: EPA 8276

Batch ID: P432458

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423853	Chlordane	54.2	60.8	P/P	43 - 123
2423853	Toxaphene	63.9	62.6	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P432513

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423624	2,4-D	100	90.6	P/P	40 - 150
2423624	2,4,5-T	98.0	87.2	P/P	40 - 150
2423624	Acetaminophen	61.8	58.4	P/P	30 - 150
2423624	Acetamiprid	86.6	88.0	P/P	40 - 150
2423624	Afidopyropen	90.4	84.2	P/P	30 - 150
2423624	Bentazon	111	112	P/P	30 - 150
2423624	Benzovindiflupyr	79.8	80.5	P/P	40 - 150
2423624	Carbamazepine	75.9	64.5	P/P	40 - 150
2423624	Clothianidin	89.3	81.7	P/P	40 - 150
2423624	Dinotefuran	89.6	81.9	P/P	40 - 150
2423624	Diuron	49.9	60.2	P/P	40 - 150
2423624	Fenuron	76.8	74.5	P/P	40 - 150
2423624	Fluridone	88.2	87.6	P/P	40 - 150
2423624	Hydrocodone	82.2	83.3	P/P	40 - 150
2423624	Ibuprofen	75.2	72.0	P/P	40 - 150
2423624	Imazapyr	99.0	87.2	P/P	40 - 150
2423624	Imidacloprid	104	96.7	P/P	40 - 150
2423624	Linuron	64.4	68.5	P/P	40 - 150
2423624	Mandestrobin	85.2	78.6	P/P	40 - 150
2423624	MCP	108	101	P/P	40 - 150
2423624	Naproxen	65.9	68.3	P/P	40 - 150
2423624	Primidone	71.2	74.2	P/P	40 - 150
2423624	Pyraclostrobin	87.0	83.4	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P432513

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423624	Silvex	89.3	91.1	P/P	40 - 150
2423624	Thiamethoxam	71.6	65.3	P/P	40 - 150
2423624	Tolfenpyrad	56.4	50.9	P/P	30 - 150
2423624	Triclopyr	93.3	94.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P432522

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423690	Acesulfame K	113	118	P/P	40 - 150
2423690	AMPA	93.3	73.2	P/P	40 - 150
2423690	Endothall	90.6	93.4	P/P	40 - 150
2423690	Glufosinate	67.4	73.6	P/P	40 - 150
2423690	Glyphosate	73.8	74.9	P/P	40 - 150
2423690	Sucralose	96.3	99.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P432544

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423694	Fluoride	101	103	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432602

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423687	Organic Carbon	93.2	95.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P432436

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423694	Color (true)	0.451	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432432

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423694	Turbidity	2.82	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432672

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423564	Chloride	1.43	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432675

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423564	Sulfate	1.39	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433120

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425103	Chloride	0.0914	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P433123

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2425103	Sulfate	0.286	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432641

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423695	Ammonia-N	0.256	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432904

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423687	Kjeldahl Nitrogen	8.43	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423699	Kjeldahl Nitrogen	0.791	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432588

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423508	NO2NO3-N	1.47	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432589

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423699	NO2NO3-N	1.12	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432555

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423614	Total-P	1.47	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432556

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423699	Total-P	0.168	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P432458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423733	Aldrin	25.0	Spike	P	0 - 41
2423733	Alpha-BHC	0.463	Spike	P	0 - 25
2423733	Alpha-Chlordane	14.5	Spike	P	0 - 32
2423733	Beta-BHC	5.01	Spike	P	0 - 33
2423733	Beta-Cyfluthrin	29.2	Spike	P	0 - 43
2423733	Bifenthrin	26.5	Spike	P	0 - 52
2423733	Carbophenothion	10.1	Spike	P	0 - 49
2423733	Chlorothalonil	8.21	Spike	P	0 - 82
2423733	Cis-Nonachlor	20.3	Spike	P	0 - 33
2423733	Cypermethrin	19.0	Spike	P	0 - 51
2423733	Dacthal	1.20	Spike	P	0 - 27
2423733	DDD-p,p'	21.9	Spike	P	0 - 39
2423733	DDE-p,p'	14.8	Spike	P	0 - 31
2423733	DDT-p,p'	9.04	Spike	P	0 - 29
2423733	Delta-BHC	2.05	Spike	P	0 - 35
2423733	Deltamethrin	9.99	Spike	P	0 - 100

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P432458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423733	Dichlobenil	5.96	Spike	P	0 - 40
2423733	Dicofol	1.68	Spike	P	0 - 37
2423733	Dieldrin	4.35	Spike	P	0 - 27
2423733	Endosulfan I	4.46	Spike	P	0 - 23
2423733	Endosulfan II	12.9	Spike	P	0 - 34
2423733	Endosulfan Sulfate	8.62	Spike	P	0 - 36
2423733	Endrin	5.61	Spike	P	0 - 45
2423733	Endrin Aldehyde	25.5	Spike	P	0 - 76
2423733	Endrin Ketone	0.302	Spike	P	0 - 43
2423733	Esfenvalerate	18.6	Spike	P	0 - 51
2423733	Ethalfuralin	5.28	Spike	P	0 - 22
2423733	Fenpropathrin	12.2	Spike	P	0 - 49
2423733	Gamma-BHC	4.20	Spike	P	0 - 28
2423733	Gamma-Chlordane	19.0	Spike	P	0 - 40
2423733	Heptachlor	12.5	Spike	P	0 - 29
2423733	Heptachlor Epoxide	3.82	Spike	P	0 - 33
2423733	Hexachlorobenzene	6.96	Spike	P	0 - 36
2423733	Kepone	29.4	Spike	P	0 - 85
2423733	Lambda-Cyhalothrin	17.9	Spike	P	0 - 55
2423733	Methoprene	23.6	Spike	P	0 - 53
2423733	Methoxychlor	4.26	Spike	P	0 - 50
2423733	MGK-264	3.17	Spike	P	0 - 43
2423733	Mirex	47.8	Spike	F	0 - 40
2423733	Oxychlordane	10.0	Spike	P	0 - 31
2423733	Permethrin	3.71	Spike	P	0 - 50
2423733	Phenothrin	2.16	Spike	P	0 - 58
2423733	Piperonyl Butoxide	13.1	Spike	P	0 - 100
2423733	Prallethrin	9.76	Spike	P	0 - 39
2423733	Tau-Fluvalinate	22.1	Spike	P	0 - 54
2423733	Tetramethrin	6.68	Spike	P	0 - 51
2423733	Trans-Nonachlor	14.9	Spike	P	0 - 39
2423733	Triclosan Methyl	1.73	Spike	P	0 - 31
2423733	Trifluralin	3.93	Spike	P	0 - 22
2423853	PCB-1016	14.7	Spike	P	0 - 25
2423853	PCB-1260	5.60	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P432458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423853	Chlordane	11.5	Spike	P	0 - 28
2423853	Toxaphene	2.07	Spike	P	0 - 27

Reference Method: EPA 8321B

Batch ID: P432513

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423624	2,4-D	9.87	Spike	P	0 - 30
2423624	2,4,5-T	11.7	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P432513

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423624	Acetaminophen	5.63	Spike	P	0 - 30
2423624	Acetamiprid	1.54	Spike	P	0 - 30
2423624	Afidopyropen	7.09	Spike	P	0 - 30
2423624	Bentazon	0.403	Spike	P	0 - 30
2423624	Benzovindiflupyr	0.910	Spike	P	0 - 30
2423624	Carbamazepine	16.2	Spike	P	0 - 30
2423624	Clothianidin	8.82	Spike	P	0 - 30
2423624	Dinotefuran	8.90	Spike	P	0 - 30
2423624	Diuron	18.7	Spike	P	0 - 30
2423624	Fenuron	3.12	Spike	P	0 - 30
2423624	Fluridone	0.668	Spike	P	0 - 30
2423624	Hydrocodone	1.33	Spike	P	0 - 30
2423624	Ibuprofen	4.41	Spike	P	0 - 30
2423624	Imazapyr	12.7	Spike	P	0 - 30
2423624	Imidacloprid	6.98	Spike	P	0 - 30
2423624	Linuron	6.25	Spike	P	0 - 30
2423624	Mandestrobin	8.02	Spike	P	0 - 30
2423624	MCPP	6.52	Spike	P	0 - 30
2423624	Naproxen	3.64	Spike	P	0 - 30
2423624	Primidone	4.10	Spike	P	0 - 30
2423624	Pyraclostrobin	4.19	Spike	P	0 - 30
2423624	Silvex	1.93	Spike	P	0 - 30
2423624	Thiamethoxam	9.16	Spike	P	0 - 30
2423624	Tolfenpyrad	10.3	Spike	P	0 - 30
2423624	Triclopyr	1.12	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P432522

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423690	Acesulfame K	4.04	Spike	P	0 - 30
2423690	AMPA	24.1	Spike	P	0 - 30
2423690	Endothall	3.08	Spike	P	0 - 30
2423690	Glufosinate	8.77	Spike	P	0 - 30
2423690	Glyphosate	1.43	Spike	P	0 - 30
2423690	Sucralose	2.14	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P432542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423694	Total Alkalinity	1.33	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015

Batch ID: P433062

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423686	TDS	2.17	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P432544

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423694	Fluoride	1.51	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P432602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423687	Organic Carbon	1.86	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2423708
Field Sample ID: 20030068

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	74.6	P	37 - 129
EPA 8270E	Decachlorobiphenyl	88.2	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	68.7	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	66.6	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	65.9	P	28 - 102
EPA 8276	PCNB	110	P	49 - 115

Lab Sample ID: 2423709
Field Sample ID: 20030594

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	77.4	P	37 - 129
EPA 8270E	Decachlorobiphenyl	85.5	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	67.2	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	72.9	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	65.0	P	28 - 102
EPA 8276	PCNB	110	P	49 - 115

Lab Sample ID: 2423710
Field Sample ID: 20030852

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	58.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	49.6	P	30 - 160
EPA 8321B	Diuron-d6	40.8	P	30 - 160
EPA 8321B	Endothall-d6	94.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	74.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.3	P	30 - 160
EPA 8321B	Primidone-d5	72.0	P	30 - 160
EPA 8321B	Sucralose-d6	89.4	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120353

Included Lab Sample IDs: 2423694, 2423696, 2423697

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

Reference Method: DEP SOP: NU-094-1

Run ID: A120354

Included Lab Sample IDs: 2423694, 2423696, 2423697

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

Reference Method: SM 2320 B-2011

Run ID: A120412

Included Lab Sample IDs: 2423694, 2423696, 2423697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	93.7	98.5	P/P	90 - 110
Total Alkalinity	98.5	94.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A120412

Included Lab Sample IDs: 2423694, 2423696, 2423697

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

Reference Method: EPA 8321B

Run ID: A120416

Included Lab Sample IDs: 2423710

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	82.5	88.4	P/P	60 - 160
Endothall	90.9	84.1	P/P	60 - 160
Glufosinate	77.0	84.3	P/P	60 - 160
Glyphosate	89.7	92.6	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A120424

Included Lab Sample IDs: 2423710

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	115	125	P/P	60 - 160
Sucralose	92.2	89.8	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120440

Included Lab Sample IDs: 2423695, 2423698, 2423699

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A120444

Included Lab Sample IDs: 2423695, 2423698, 2423699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.1	94.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A120445

Included Lab Sample IDs: 2423710

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	101	88.5	P/P	50 - 150
2,4,5-T	96.3	98.5	P/P	50 - 150
Acetaminophen	84.7	82.2	P/P	60 - 160
Acetamiprid	114	122	P/P	50 - 150
Afidopyropen	108	104	P/P	50 - 150
Bentazon	146	129	P/P	50 - 160
Benzovindiflupyr	116	107	P/P	50 - 150
Carbamazepine	113	106	P/P	60 - 150
Clothianidin	108	105	P/P	60 - 150
Dinotefuran	122	122	P/P	50 - 150
Diuron	141	112	P/P	60 - 160
Fenuron	113	110	P/P	60 - 150
Fluridone	115	114	P/P	60 - 160
Hydrocodone	109	125	P/P	60 - 150
Ibuprofen	103	86.7	P/P	50 - 160
Imazapyr	98.2	99.4	P/P	50 - 150
Imidacloprid	98.6	98.6	P/P	60 - 150
Linuron	96.3	101	P/P	60 - 150
Mandestrobin	116	108	P/P	50 - 150
MCPP	100	101	P/P	50 - 150
Naproxen	118	134	P/P	50 - 160
Primidone	103	94.0	P/P	60 - 150
Pyraclostrobin	118	121	P/P	60 - 150
Silvex	105	104	P/P	50 - 150
Thiamethoxam	87.5	104	P/P	50 - 150
Tolfenpyrad	102	107	P/P	60 - 150
Triclopyr	99.5	92.5	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A120446

Included Lab Sample IDs: 2423695, 2423698, 2423699

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A120453

Included Lab Sample IDs: 2423695, 2423698, 2423699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	95.5	96.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A120479

Included Lab Sample IDs: 2423694, 2423697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Sulfate	99.7	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A120535

Included Lab Sample IDs: 2423708, 2423709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	104		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	104		P	80 - 120
Beta-BHC	93.9		P	80 - 120
Beta-Cyfluthrin	98.3		P	80 - 120
Bifenthrin	98.2		P	80 - 120
Carbophenothion	101		P	80 - 120
Chlorothalonil	111		P	80 - 120
Cis-Nonachlor	106		P	80 - 120
Cypermethrin	104		P	80 - 120
Dacthal	104		P	80 - 120
DDD-p,p'	105		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	104		P	80 - 120
Deltamethrin	94.8		P	80 - 120
Dichlobenil	103		P	80 - 120
Dicofol	95.2		P	80 - 120
Dieldrin	100		P	80 - 120
Endosulfan I	104		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	106		P	80 - 120
Endrin	103		P	80 - 120
Endrin Aldehyde	103		P	80 - 120
Endrin Ketone	106		P	80 - 120
Esfenvalerate	102		P	80 - 120
Ethalfuralin	94.6		P	80 - 120
Fenpropathrin	102		P	80 - 120
Gamma-BHC	104		P	80 - 120
Gamma-Chlordane	105		P	80 - 120
Heptachlor	98.5		P	80 - 120
Heptachlor Epoxide	100		P	80 - 120
Hexachlorobenzene	106		P	80 - 120
Kepone	52.2*		F	80 - 120
Lambda-Cyhalothrin	101		P	80 - 120
Methoprene	103		P	80 - 120
Methoxychlor	97.5		P	80 - 120
MGK-264	105		P	80 - 120
Mirex	105		P	80 - 120
Oxychlordane	105		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	97.5		P	80 - 120
Piperonyl Butoxide	83.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A120535

Included Lab Sample IDs: 2423708, 2423709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prallethrin	103		P	80 - 120
Tau-Fluvalinate	101		P	80 - 120
Tetramethrin	94.8		P	80 - 120
Trans-Nonachlor	103		P	80 - 120
Triclosan Methyl	100		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8270E

Run ID: A120536

Included Lab Sample IDs: 2423708, 2423709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	104		P	80 - 120
PCB-1260	95.2		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A120625

Included Lab Sample IDs: 2423695, 2423698, 2423699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	108	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A120638

Included Lab Sample IDs: 2423708, 2423709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.2		P	80 - 120
Toxaphene	100		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A120686

Included Lab Sample IDs: 2423696

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.9	100	P/P	90 - 110
Sulfate	98.7	99.8	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		Precision	
					LCS	MS
DEP SOP: NU-094-1	Color (true)	101			0.451	
EPA 180.1 Rev. 2.0	Turbidity	99.6			2.82	
EPA 300.0 Rev. 2.1	Chloride	103	102	106	1.43	
	Chloride	99.3	98.0	99.3	0.0914	
	Sulfate	99.6	100	93.1	1.39	
	Sulfate	97.1	96.3	94.2	0.286	
EPA 350.1 Rev. 2.0	Ammonia-N	93.6	97.4	97.8		0.256
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.1	105	95.1		8.43
	Kjeldahl Nitrogen	98.6	99.0	97.9		0.791
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	98.8	100		1.47
	NO2NO3-N	99.5	96.0	98.0		1.12
EPA 365.1 Rev. 2.0	Total-P	98.7	103	102		1.47
	Total-P	100	102	101		0.168
EPA 8270E	Aldrin	42.0	51.6	40.2		25.0
	Alpha-BHC	78.3	86.5	86.1		0.463
	Alpha-Chlordane	61.8	72.1	62.3		14.5
	Beta-BHC	48.2	57.2	54.4		5.01
	Beta-Cyfluthrin	53.8	49.4	36.8		29.2
	Bifenthrin	58.2	54.8	42.0		26.5
	Carbophenothion	50.6	52.7	47.6		10.1
	Chlorothalonil	73.3	77.6	84.3		8.21
	Cis-Nonachlor	63.5	64.0	52.2		20.3
	Cypermethrin	82.1	72.7	60.1		19.0
	Dacthal	78.5	89.2	88.1		1.20
	DDD-p,p'	57.0	64.3	51.6		21.9
	DDE-p,p'	61.7	68.4	59.0		14.8
	DDT-p,p'	62.1	63.1	57.7		9.04
	Delta-BHC	71.7	75.1	76.7		2.05
	Deltamethrin	64.3	52.8	58.3		9.99
	Dichlobenil	57.4	73.4	69.2		5.96
	Dicofol	58.9	65.5	64.4		1.68
	Dieldrin	63.9	64.4	61.6		4.35
	Endosulfan I	62.3	66.6	63.6		4.46
	Endosulfan II	72.5	83.3	73.2		12.9
	Endosulfan Sulfate	77.0	80.9	74.2		8.62
	Endrin	69.4	75.8	71.7		5.61
	Endrin Aldehyde	55.8	77.9	60.3		25.5
	Endrin Ketone	96.3	109	109		0.302
	Esfenvalerate	74.6	63.7	52.8		18.6
	Ethalfuralin	59.9	67.9	64.4		5.28
	Fenpropathrin	74.2	66.5	58.9		12.2
	Gamma-BHC	85.5	104	100		4.20
	Gamma-Chlordane	64.4	72.5	59.9		19.0
	Heptachlor	62.9	74.9	66.1		12.5
	Heptachlor Epoxide	64.0	68.7	66.2		3.82
	Hexachlorobenzene	51.3	55.7	51.9		6.96
	Kepone	66.1	65.0	48.4		29.4
	Lambda-Cyhalothrin	67.2	58.0	48.5		17.9
	Methoprene	60.1	60.5	47.7		23.6
	Methoxychlor	74.7	82.1	85.7		4.26
	MGK-264	79.6	90.9	88.0		3.17
	Mirex	48.3	54.4	33.4		47.8
	Oxychlordane	63.2	72.5	65.6		10.0
	PCB-1016	81.7	68.9	79.8		14.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	PCB-1260	72.9	56.9	60.2		5.60
	Permethrin	65.9	60.3	58.1		3.71
	Phenothrin	58.4	56.1	54.9		2.16
	Piperonyl Butoxide	80.6	83.7	95.4		13.1
	Prallethrin	67.6	78.0	70.7		9.76
	Tau-Fluvalinate	73.4	60.2	48.2		22.1
	Tetramethrin	80.2	78.7	84.1		6.68
	Trans-Nonachlor	63.8	69.8	60.1		14.9
	Triclosan Methyl	62.4	65.1	64.0		1.73
	Trifluralin	62.6	64.9	62.4		3.93
EPA 8276	Chlordane	72.1	54.2	60.8		11.5
	Toxaphene	71.3	63.9	62.6		2.07
EPA 8321B	2,4-D	87.3	100	90.6		9.87
	2,4,5-T	84.5	98.0	87.2		11.7
	Acesulfame K	90.2	113	118		4.04
	Acetaminophen	55.9	61.8	58.4		5.63
	Acetamiprid	58.4	86.6	88.0		1.54
	Afidopyropen	46.8	90.4	84.2		7.09
	AMPA	84.6	93.3	73.2		24.1
	Bentazon	108	111	112		0.403
	Benzovindiflupyr	72.7	79.8	80.5		0.910
	Carbamazepine	68.4	75.9	64.5		16.2
	Clothianidin	82.1	89.3	81.7		8.82
	Dinotefuran	94.7	89.6	81.9		8.90
	Diuron	47.3	49.9	60.2		18.7
	Endothall	87.2	90.6	93.4		3.08
	Fenuron	83.7	76.8	74.5		3.12
	Fluridone	75.4	88.2	87.6		0.668
	Glufosinate	91.6	67.4	73.6		8.77
	Glyphosate	98.1	73.8	74.9		1.43
	Hydrocodone	85.9	82.2	83.3		1.33
	Ibuprofen	63.7	75.2	72.0		4.41
	Imazapyr	76.3	99.0	87.2		12.7
	Imidacloprid	76.5	104	96.7		6.98
	Linuron	69.0	64.4	68.5		6.25
	Mandestrobin	70.9	85.2	78.6		8.02
	MCPP	88.8	108	101		6.52
	Naproxen	65.6	65.9	68.3		3.64
	Primidone	72.7	71.2	74.2		4.10
	Pyraclostrobin	76.5	87.0	83.4		4.19
	Silvex	85.5	89.3	91.1		1.93
	Sucralose	89.1	96.3	99.5		2.14
	Thiamethoxam	69.7	71.6	65.3		9.16
	Tolfenpyrad	53.5	56.4	50.9		10.3
	Triclopyr	83.1	93.3	94.3		1.12
SM 2320 B-2011	Total Alkalinity	97.7			1.33	
SM 2540 C-2015	TDS	96.5			2.17	
SM 2540 D-2015	TSS	103				
SM 4500-F- C-2011	Fluoride	101	101	103		1.51
SM 5310 B-2011	Organic Carbon	93.0	93.2	95.5		1.86

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2423694, 2423696, 2423697
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2423694, 2423696, 2423697
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2423694, 2423696, 2423697
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2423694, 2423696, 2423697
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2423695, 2423698, 2423699
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2423695, 2423698, 2423699
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2423695, 2423698, 2423699
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2423695, 2423698, 2423699
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2423708, 2423709
EPA 8270E	PCBs in water matrices by GC/MS/MS	2423708, 2423709
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2423708, 2423709
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2423710
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2423694, 2423696, 2423697
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2423694, 2423696, 2423697
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2423694, 2423696, 2423697
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2423694, 2423696, 2423697
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2423695, 2423698, 2423699

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	07/13/2023			07/13/2023 14:52	Samantha L Bates	2423694, 2423696
	07/13/2023			07/13/2023 14:53	Samantha L Bates	2423697
EPA 180.1 Rev. 2.0	07/13/2023			07/13/2023 13:04	Alexis Price	2423694, 2423696
	07/13/2023			07/13/2023 13:05	Alexis Price	2423697
EPA 300.0 Rev. 2.1	07/13/2023			07/18/2023 03:07	James L Waggeberby	2423697
	07/13/2023			07/18/2023 05:07	James L Waggeberby	2423694
	07/13/2023			07/25/2023 17:15	James L Waggeberby	2423696
EPA 350.1 Rev. 2.0	07/13/2023			07/18/2023 12:54	Khloe J Berg	2423695
	07/13/2023			07/18/2023 13:06	Khloe J Berg	2423698
	07/13/2023			07/18/2023 13:08	Khloe J Berg	2423699
EPA 351.2 Rev. 2.0	07/13/2023	07/24/2023 16:09	Dana G. Hughes	07/25/2023 14:31	Samantha L Bates	2423695
	07/13/2023	07/24/2023 16:09	Dana G. Hughes	07/25/2023 14:33	Samantha L Bates	2423698
	07/13/2023	07/24/2023 16:09	Dana G. Hughes	07/25/2023 14:41	Samantha L Bates	2423699
EPA 353.2 Rev. 2.0	07/13/2023			07/17/2023 14:13	Judith K. Clark	2423695
	07/13/2023			07/17/2023 14:14	Judith K. Clark	2423698
	07/13/2023			07/17/2023 14:21	Judith K. Clark	2423699
EPA 365.1 Rev. 2.0	07/13/2023	07/17/2023 13:00	Alexis Price	07/18/2023 09:53	Simonne.V. Calhoun	2423695
	07/13/2023	07/17/2023 13:00	Alexis Price	07/18/2023 09:54	Simonne.V. Calhoun	2423698
	07/13/2023	07/17/2023 13:00	Alexis Price	07/18/2023 09:57	Simonne.V. Calhoun	2423699
EPA 8270E	07/13/2023	07/17/2023 08:00	Fe-Val Siddell	07/19/2023 21:44	Michael Poppell	2423708
	07/13/2023	07/17/2023 08:00	Fe-Val Siddell	07/19/2023 22:16	Michael Poppell	2423709
	07/13/2023	07/17/2023 08:00	Fe-Val Siddell	07/20/2023 23:27	Lipi Saha	2423708
	07/13/2023	07/17/2023 08:00	Fe-Val Siddell	07/20/2023 23:57	Lipi Saha	2423709
EPA 8276	07/13/2023	07/17/2023 08:00	Fe-Val Siddell	07/25/2023 20:53	Arthur Maknenko	2423708
	07/13/2023	07/17/2023 08:00	Fe-Val Siddell	07/25/2023 21:49	Arthur Maknenko	2423709
EPA 8321B	07/13/2023	07/15/2023 10:00	Hana Lee	07/15/2023 22:50	Tae K Lee	2423710
	07/13/2023	07/15/2023 10:00	Hana Lee	07/17/2023 00:18	Tae K Lee	2423710
	07/13/2023	07/17/2023 09:00	Hoor Shaik	07/18/2023 10:09	Juyoung Kim	2423710
SM 2320 B-2011	07/13/2023			07/14/2023 22:56	Dale L. Simmons	2423694
	07/13/2023			07/15/2023 02:46	Dale L. Simmons	2423696
	07/13/2023			07/15/2023 03:00	Dale L. Simmons	2423697
SM 2540 C-2015	07/13/2023			07/18/2023 16:04	Yijie Li	2423694, 2423696, 2423697
SM 2540 D-2015	07/13/2023			07/18/2023 16:04	Yijie Li	2423694, 2423696, 2423697
SM 4500-F- C-2011	07/13/2023			07/14/2023 22:46	Dale L. Simmons	2423694
	07/13/2023			07/15/2023 02:46	Dale L. Simmons	2423696
	07/13/2023			07/15/2023 03:00	Dale L. Simmons	2423697
SM 5310 B-2011	07/13/2023			07/17/2023 18:37	Elise M. Gillis	2423695
	07/13/2023			07/17/2023 18:53	Elise M. Gillis	2423698
	07/13/2023			07/17/2023 19:08	Elise M. Gillis	2423699