

Chemical Analysis Report

NW-DIST-2023-02-28-02

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

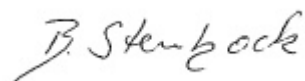
Event Description: **Pace Run**
Request ID: **RQ-2023-02-20-22**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
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Pensacola, FL 32502-5794
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 27-MAR-2023 11:09



Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: Coldwater Creek West Fork on CR 178

Collection Date/Time: 02/27/2023 12:34

Field ID: G4NW0016

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390541	DEP SOP: NU-094-1	Color (true)	20		PCU	P426481	
	EPA 180.1 Rev. 2.0	Turbidity	4.0		NTU	P426494	
	EPA 300.0 Rev. 2.1	Chloride	7.4		mg Cl/L	P426998	
		Sulfate	1.7		mg SO4/L	P427001	
	SM 2320 B-2011	Total Alkalinity	3.3		mg CaCO3/L	P426827	
	SM 2540 C-2015	TDS	39		mg/L	P426962	
	SM 2540 D-2015	TSS	5	I	mg/L	P426806	
2390542	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P426976	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P426616	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23		mg N/L	P427377	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.8		mg N/L	P426790	
	EPA 365.1 Rev. 2.0	Total-P	0.005		mg P/L	P426629	
2390549	EPA 8270E	SM 5310 B-2011	Organic Carbon	2.0	mg C/L	P426852	
		Aldrin	0.66	U	ng/L	P426832	
		Alpha-BHC	0.10	UJ	ng/L	P426832	LCS
		Alpha-Chlordane	0.20	U	ng/L	P426832	
		PCB-1016	2.0	U	ng/L	P426832	
		Beta-BHC	0.10	U	ng/L	P426832	
		PCB-1221	2.0	U	ng/L	P426832	
		Beta-Cyfluthrin	1.3	U	ng/L	P426832	
		PCB-1232	2.0	U	ng/L	P426832	
		Bifenthrin	0.51	U	ng/L	P426832	
		PCB-1242	2.0	U	ng/L	P426832	
		Carbophenothion	0.92	U	ng/L	P426832	
		PCB-1248	2.0	U	ng/L	P426832	
		Chlorothalonil	3.7	U	ng/L	P426832	
		PCB-1254	2.0	U	ng/L	P426832	
		Cis-Nonachlor	0.20	U	ng/L	P426832	
		PCB-1260	2.0	UJ	ng/L	P426832	MS
		Cypermethrin	1.5	U	ng/L	P426832	
		Dacthal	0.15	U	ng/L	P426832	
		DDD-p,p'	0.25	U	ng/L	P426832	
		DDE-p,p'	0.20	U	ng/L	P426832	
		DDT-p,p'	0.25	UJ	ng/L	P426832	LCS
		Delta-BHC	0.41	U	ng/L	P426832	
		Deltamethrin	1.3	U	ng/L	P426832	
		Dichlobenil	0.25	U	ng/L	P426832	
		Dicofol	1.3	U	ng/L	P426832	
		Dieldrin	0.91	I	ng/L	P426832	
		Endosulfan I	0.41	U	ng/L	P426832	
		Endosulfan II	0.41	U	ng/L	P426832	
		Endosulfan Sulfate	0.31	U	ng/L	P426832	
		Endrin	0.41	U	ng/L	P426832	
		Endrin Aldehyde	0.76	U	ng/L	P426832	

Field ID: G4NW0016

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390549	EPA 8270E	Endrin Ketone	0.62	I	ng/L	P426832	
		Esfenvalerate	0.76	U	ng/L	P426832	
		Ethalfuralin	0.15	U	ng/L	P426832	
		Fenpropathrin	0.25	U	ng/L	P426832	
		Gamma-BHC	0.13	U	ng/L	P426832	
		Gamma-Chlordane	0.20	U	ng/L	P426832	
		Heptachlor	0.20	U	ng/L	P426832	
		Heptachlor Epoxide	0.25	U	ng/L	P426832	
		Hexachlorobenzene**	1.0	U	ng/L	P426832	
		Kepone	5.1	UJ	ng/L	P426832	CCV
		Lambda-Cyhalothrin	0.76	U	ng/L	P426832	
		Methoprene	0.76	U	ng/L	P426832	
		Methoxychlor	0.31	U	ng/L	P426832	
		MGK-264	0.20	U	ng/L	P426832	
		Mirex	0.36	U	ng/L	P426832	
		Oxychlordane	0.31	U	ng/L	P426832	
		Permethrin	1.6	U	ng/L	P426832	
		Phenothrin	0.92	U	ng/L	P426832	
		Piperonyl Butoxide	0.15	U	ng/L	P426832	
		Prallethrin	2.0	U	ng/L	P426832	
		Tau-Fluvalinate	0.25	U	ng/L	P426832	
		Tetramethrin	0.76	U	ng/L	P426832	
		Trans-Nonachlor	0.20	U	ng/L	P426832	
		Triclosan Methyl	0.15	U	ng/L	P426832	
		Trifluralin	0.20	U	ng/L	P426832	
	EPA 8276	Chlordane	2.0	UJ	ng/L	P426832	MS, RPD
		Toxaphene	32	I J	ng/L	P426832	MS

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

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

EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB

Collection Date/Time: 02/27/2023 12:45

Field ID: FB_02272023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390543	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P426481	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P426494	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P426998	
		Sulfate	0.20	U	mg SO4/L	P427001	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P426827	
	SM 2540 C-2015	TDS	15	U	mg/L	P426961	
	SM 2540 D-2015	TSS	2	U	mg/L	P426805	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P426977	
2390544	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P426616	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P427377	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P426790	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P426629	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P426852	
2390550	EPA 8270E	Aldrin	0.66	U	ng/L	P426832	
		Alpha-BHC	0.10	UJ	ng/L	P426832	LCS
		Alpha-Chlordane	0.20	U	ng/L	P426832	
		PCB-1016	2.0	U	ng/L	P426832	
		Beta-BHC	0.10	U	ng/L	P426832	
		PCB-1221	2.0	U	ng/L	P426832	
		Beta-Cyfluthrin	1.3	U	ng/L	P426832	
		PCB-1232	2.0	U	ng/L	P426832	
		Bifenthrin	0.51	U	ng/L	P426832	
		PCB-1242	2.0	U	ng/L	P426832	
		Carbophenothion	0.92	U	ng/L	P426832	
		PCB-1248	2.0	U	ng/L	P426832	
		Chlorothalonil	3.7	U	ng/L	P426832	
		PCB-1254	2.0	U	ng/L	P426832	
		Cis-Nonachlor	0.20	U	ng/L	P426832	
		PCB-1260	2.0	U	ng/L	P426832	MS
		Cypermethrin	1.5	U	ng/L	P426832	
		Dacthal	0.15	U	ng/L	P426832	
		DDD-p,p'	0.25	U	ng/L	P426832	
		DDE-p,p'	0.20	U	ng/L	P426832	
		DDT-p,p'	0.25	UJ	ng/L	P426832	LCS
		Delta-BHC	0.41	U	ng/L	P426832	
		Deltamethrin	1.3	U	ng/L	P426832	
		Dichlobenil	0.25	U	ng/L	P426832	
		Dicofol	1.3	U	ng/L	P426832	
		Dieldrin	0.41	U	ng/L	P426832	
		Endosulfan I	0.41	U	ng/L	P426832	
		Endosulfan II	0.41	U	ng/L	P426832	
		Endosulfan Sulfate	0.31	U	ng/L	P426832	
		Endrin	0.41	U	ng/L	P426832	
		Endrin Aldehyde	0.76	U	ng/L	P426832	

Field ID: FB_02272023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390550	EPA 8270E	Endrin Ketone	0.41	U	ng/L	P426832	
		Esfenvalerate	0.76	U	ng/L	P426832	
		Ethalfuralin	0.15	U	ng/L	P426832	
		Fenpropathrin	0.25	U	ng/L	P426832	
		Gamma-BHC	0.13	U	ng/L	P426832	
		Gamma-Chlordane	0.20	U	ng/L	P426832	
		Heptachlor	0.20	U	ng/L	P426832	
		Heptachlor Epoxide	0.25	U	ng/L	P426832	
		Hexachlorobenzene**	1.0	U	ng/L	P426832	
		Kepone	5.1	UJ	ng/L	P426832	CCV
		Lambda-Cyhalothrin	0.76	U	ng/L	P426832	
		Methoprene	0.76	U	ng/L	P426832	
		Methoxychlor	0.31	U	ng/L	P426832	
		MGK-264	0.20	U	ng/L	P426832	
		Mirex	0.36	U	ng/L	P426832	
		Oxychlordane	0.31	U	ng/L	P426832	
		Permethrin	1.6	U	ng/L	P426832	
		Phenothrin	0.92	U	ng/L	P426832	
		Piperonyl Butoxide	0.15	U	ng/L	P426832	
		Prallethrin	2.0	U	ng/L	P426832	
		Tau-Fluvalinate	0.25	U	ng/L	P426832	
		Tetramethrin	0.76	U	ng/L	P426832	
		Trans-Nonachlor	0.20	U	ng/L	P426832	
		Triclosan Methyl	0.15	U	ng/L	P426832	
		Trifluralin	0.20	U	ng/L	P426832	
	EPA 8276	Chlordane	2.0	U	ng/L	P426832	MS, RPD
		Toxaphene	15	U	ng/L	P426832	MS
2390552	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P426508	
		Iron	30	U	ug/L	P426508	
		Magnesium	0.040	U	mg/L	P426508	
		Potassium	0.30	U	mg/L	P426508	
		Sodium	0.50	U	mg/L	P426508	
		Strontium	2.0	U	ug/L	P426508	
		Tin	3.0	U	ug/L	P426508	
		Titanium	0.75	U	ug/L	P426508	
		Vanadium	2.0	U	ug/L	P426508	
		Zinc	5.0	U	ug/L	P426508	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P426508	
		Antimony	0.050	U	ug/L	P426508	
		Arsenic	0.050	U	ug/L	P426508	
		Barium	0.20	U	ug/L	P426508	
		Beryllium	0.010	U	ug/L	P426508	
		Boron	2.0	U	ug/L	P426508	
		Cadmium	0.020	U	ug/L	P426508	
		Chromium	0.40	U	ug/L	P426508	

Field ID: FB_02272023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390552	EPA 200.8 Rev. 5.4	Cobalt	0.020	U	ug/L	P426508	
		Copper	0.40	U	ug/L	P426508	
		Lead	0.20	U	ug/L	P426508	
		Manganese	0.10	U	ug/L	P426508	
		Molybdenum	0.15	U	ug/L	P426508	
		Nickel	0.50	U	ug/L	P426508	
		Selenium	0.20	U	ug/L	P426508	
		Silver	0.010	U	ug/L	P426508	
		Thallium	0.10	U	ug/L	P426508	

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

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

Sample Location: Bear Creek 40m blw Lake Dam outfall

Collection Date/Time: 02/27/2023 10:27

Field ID: G4NW0001

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2390539	DEP SOP: NU-094-1	Color (true)	35		PCU	P426481	
	EPA 180.1 Rev. 2.0	Turbidity	4.2		NTU	P426494	
	EPA 300.0 Rev. 2.1	Chloride	2.7		mg Cl/L	P426998	
		Sulfate	0.69		mg SO4/L	P427001	
	SM 2320 B-2011	Total Alkalinity	5.1		mg CaCO3/L	P426827	
	SM 2540 C-2015	TDS	15	I	mg/L	P426962	
	SM 2540 D-2015	TSS	3	I	mg/L	P426806	
2390540	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P426976	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.079		mg N/L	P426616	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.43		mg N/L	P427377	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.022		mg N/L	P426790	
	EPA 365.1 Rev. 2.0	Total-P	0.013		mg P/L	P426629	
2390551	SM 5310 B-2011	Organic Carbon	4.7		mg C/L	P426852	
	EPA 200.7 Rev. 4.4	Calcium	2.14		mg/L	P426508	
		Iron	1.41E+03		ug/L	P426508	
		Magnesium	0.89		mg/L	P426508	
		Potassium	0.30	U	mg/L	P426508	
		Sodium	1.5	I	mg/L	P426508	
		Strontium	4.4	I	ug/L	P426508	
		Tin	3.0	U	ug/L	P426508	
		Titanium	0.75	U	ug/L	P426508	
		Vanadium	2.0	U	ug/L	P426508	
		Zinc	5.0	U	ug/L	P426508	
	EPA 200.8 Rev. 5.4	Aluminum	37		ug/L	P426508	
		Antimony	0.050	U	ug/L	P426508	
		Arsenic	0.48		ug/L	P426508	
		Barium	8.68		ug/L	P426508	
		Beryllium	0.015	I	ug/L	P426508	
		Boron	9.0		ug/L	P426508	
		Cadmium	0.020	U	ug/L	P426508	
		Chromium	0.40	U	ug/L	P426508	
		Cobalt	0.175		ug/L	P426508	
		Copper	0.40	U	ug/L	P426508	
		Lead	0.20	U	ug/L	P426508	
		Manganese	44.3		ug/L	P426508	
		Molybdenum	0.15	U	ug/L	P426508	
		Nickel	0.50	U	ug/L	P426508	
		Selenium	0.20	U	ug/L	P426508	
		Silver	0.010	U	ug/L	P426508	
		Thallium	0.10	U	ug/L	P426508	
	SM 2340 B-2011	Hardness	9.0		mg/L	P426508	

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 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: P426481

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426494

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P426508

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P426508

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426998

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427001

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426616

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427377

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426790

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426629

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

Reference Method: EPA 8270E
Batch ID: P426832

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426832

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426832

Component	Result	Code	Units
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
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: P426832

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: SM 2320 B-2011
Batch ID: P426827

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P426827

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2015
Batch ID: P426961

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P426962

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P426805

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P426806

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P426976

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P426977

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P426852

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: P426481

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.6		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426494

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P426508

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	108		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	104		P	85 - 115
Sodium	102		P	85 - 115
Strontium	97.8		P	85 - 115
Tin	101		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	106		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P426508

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	80 - 120
Antimony	102		P	80 - 120
Arsenic	103		P	80 - 120
Barium	106		P	80 - 120
Beryllium	97.9		P	80 - 120
Boron	101		P	80 - 120
Cadmium	103		P	80 - 120
Chromium	101		P	80 - 120
Cobalt	101		P	80 - 120
Copper	102		P	80 - 120
Lead	99.6		P	80 - 120
Manganese	101		P	80 - 120
Molybdenum	100		P	80 - 120
Nickel	103		P	80 - 120
Selenium	102		P	80 - 120
Silver	100		P	80 - 120
Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426998

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427001

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426616

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: P427377

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426790

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426629

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

Reference Method: EPA 8270E
Batch ID: P426832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	29.8		P	10 - 92.0
Alpha-BHC	68.9		F	75 - 107
Alpha-Chlordane	58.5		P	50 - 108
Beta-BHC	75.2		P	36 - 138
Beta-Cyfluthrin	38.2		P	20 - 161
Bifenthrin	29.1		P	10 - 119
Carbophenothion	47.0		P	19 - 94.0
Chlorothalonil	69.5		P	26 - 186
Cis-Nonachlor	46.9		P	42 - 119
Cypermethrin	39.4		P	22 - 150
Dacthal	80.5		P	72 - 119
DDD-p,p'	54.2		P	45 - 107
DDE-p,p'	48.5		P	48 - 106
DDT-p,p'	44.8		F	48 - 110
Delta-BHC	78.1		P	54 - 140
Deltamethrin	45.4		P	22 - 189
Dichlobenil	44.1		P	36 - 117
Dicofol	56.3		P	46 - 155
Dieldrin	59.4		P	54 - 110
Endosulfan I	59.4		P	59 - 105
Endosulfan II	71.7		P	51 - 118
Endosulfan Sulfate	75.3		P	57 - 121

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P426832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	61.7		P	10 - 120
Endrin Aldehyde	63.0		P	34 - 118
Endrin Ketone	72.2		P	69 - 177
Esfenvalerate	38.3		P	23 - 168
Ethalfuralin	50.2		P	49 - 99.0
Fenpropathrin	40.4		P	34 - 117
Gamma-BHC	111		P	72 - 117
Gamma-Chlordane	47.3		P	43 - 106
Heptachlor	58.5		P	41 - 98.0
Heptachlor Epoxide	71.6		P	57 - 106
Hexachlorobenzene	37.3		P	36 - 99.0
Kepone	38.7		P	16 - 215
Lambda-Cyhalothrin	32.6		P	21 - 177
Methoprene	36.4		P	10 - 119
Methoxychlor	61.5		P	60 - 112
MGK-264	66.7		P	26 - 122
Mirex	31.2		P	10 - 169
Oxychlordane	47.0		P	43 - 105
PCB-1016	67.0		P	48 - 112
PCB-1260	66.7		P	44 - 118
Permethrin	38.5		P	24 - 148
Phenothrin	31.1		P	10 - 106
Piperonyl Butoxide	70.4		P	10 - 139
Prallethrin	53.7		P	17 - 109
Tau-Fluvalinate	31.2		P	13 - 131
Tetramethrin	61.3		P	10 - 132
Trans-Nonachlor	45.6		P	44 - 106
Triclosan Methyl	59.4		P	59 - 109
Trifluralin	46.4		P	44 - 101

Reference Method: EPA 8276

Batch ID: P426832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	61.1		P	61 - 116
Toxaphene	73.4		P	48 - 124

Reference Method: SM 2320 B-2011

Batch ID: P426827

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	94 - 106

Reference Method: SM 2540 C-2015

Batch ID: P426961

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	91.4		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P426962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	95.1		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P426805

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P426806

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.8		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P426976

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P426977

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.6		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P426852

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P426508

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390150	Calcium	102		P	80 - 120
2390150	Iron	107	104	P/P	80 - 120
2390150	Magnesium	103		P	80 - 120
2390150	Potassium	103	103	P/P	80 - 120
2390150	Sodium	101	99.7	P/P	80 - 120
2390150	Strontium	95.8	98.2	P/P	80 - 120
2390150	Tin	100	98.2	P/P	80 - 120
2390150	Titanium	103	100	P/P	80 - 120
2390150	Vanadium	103	100	P/P	80 - 120
2390150	Zinc	100	97.7	P/P	80 - 120
2390625	Calcium	107		P	80 - 120
2390625	Iron	108		P	80 - 120
2390625	Magnesium	106		P	80 - 120
2390625	Potassium	112		P	80 - 120
2390625	Sodium	102		P	80 - 120
2390625	Strontium	99.2		P	80 - 120
2390625	Tin	102		P	80 - 120
2390625	Titanium	103		P	80 - 120
2390625	Vanadium	103		P	80 - 120
2390625	Zinc	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P426508

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390150	Aluminum	102	101	P/P	80 - 120
2390150	Antimony	102	103	P/P	80 - 120
2390150	Arsenic	101	102	P/P	80 - 120
2390150	Barium	103	105	P/P	80 - 120
2390150	Beryllium	99.2	97.3	P/P	80 - 120
2390150	Boron	102	102	P/P	80 - 120
2390150	Cadmium	103	103	P/P	80 - 120
2390150	Chromium	102	102	P/P	80 - 120
2390150	Cobalt	97.9	98.2	P/P	80 - 120
2390150	Copper	97.6	98.6	P/P	80 - 120
2390150	Lead	99.4	99.9	P/P	80 - 120
2390150	Manganese	102	103	P/P	80 - 120
2390150	Molybdenum	101	103	P/P	80 - 120
2390150	Nickel	99.4	99.9	P/P	80 - 120
2390150	Selenium	99.7	101	P/P	80 - 120
2390150	Silver	99.0	100	P/P	80 - 120
2390150	Thallium	104	106	P/P	80 - 120
2390625	Aluminum	100		P	80 - 120
2390625	Antimony	104		P	80 - 120
2390625	Arsenic	101		P	80 - 120
2390625	Barium	104		P	80 - 120
2390625	Beryllium	97.7		P	80 - 120
2390625	Boron	103		P	80 - 120
2390625	Cadmium	106		P	80 - 120
2390625	Chromium	98.3		P	80 - 120
2390625	Cobalt	96.8		P	80 - 120
2390625	Copper	96.4		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P426508

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390625	Lead	99.9		P	80 - 120
2390625	Manganese	101		P	80 - 120
2390625	Molybdenum	103		P	80 - 120
2390625	Nickel	100		P	80 - 120
2390625	Selenium	98.8		P	80 - 120
2390625	Silver	101		P	80 - 120
2390625	Thallium	105		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426998

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390557	Chloride	96.7		P	90 - 110
2390614	Chloride	95.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427001

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390557	Sulfate	100		P	90 - 110
2390614	Sulfate	99.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426616

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390309	Ammonia-N	99.4	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390540	Kjeldahl Nitrogen	97.8	95.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426790

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390540	NO2NO3-N	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426629

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390510	Total-P	98.6	97.6	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P426832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390549	PCB-1016	59.3	47.8	P/P	46 - 111
2390549	PCB-1260	57.0	44.8	P/F	45 - 114

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P426832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390746	Aldrin	47.0	49.9	P/P	20 - 82.0
2390746	Alpha-BHC	82.5	79.6	P/P	71 - 109
2390746	Alpha-Chlordane	70.2	71.3	P/P	42 - 106
2390746	Beta-BHC	87.3	86.7	P/P	69 - 180
2390746	Beta-Cyfluthrin	57.4	63.9	P/P	18 - 175
2390746	Bifenthrin	47.9	56.0	P/P	21 - 128
2390746	Carbophenothion	59.1	65.6	P/P	10 - 126
2390746	Chlorothalonil	54.1	58.7	P/P	10 - 300
2390746	Cis-Nonachlor	63.2	64.9	P/P	34 - 106
2390746	Cypermethrin	57.2	63.2	P/P	22 - 158
2390746	Dacthal	85.2	86.3	P/P	54 - 116
2390746	DDD-p,p'	67.8	72.4	P/P	34 - 107
2390746	DDE-p,p'	66.9	70.3	P/P	33 - 110
2390746	DDT-p,p'	64.5	65.0	P/P	50 - 122
2390746	Delta-BHC	83.8	79.9	P/P	77 - 193
2390746	Deltamethrin	64.1	70.8	P/P	10 - 195
2390746	Dichlobenil	58.3	60.8	P/P	25 - 113
2390746	Dicofol	68.8	67.6	P/P	38 - 247
2390746	Dieldrin	74.1	76.6	P/P	45 - 118
2390746	Endosulfan I	68.3	69.3	P/P	51 - 106
2390746	Endosulfan II	73.8	81.5	P/P	37 - 122
2390746	Endosulfan Sulfate	78.3	76.2	P/P	43 - 132
2390746	Endrin	75.6	78.8	P/P	29 - 101
2390746	Endrin Aldehyde	70.9	73.2	P/P	19 - 110
2390746	Endrin Ketone	83.9	108	P/P	60 - 140
2390746	Esfenvalerate	57.7	63.8	P/P	26 - 199
2390746	Ethalfuralin	68.8	68.3	P/P	45 - 99.0
2390746	Fenpropathrin	60.8	63.1	P/P	35 - 120
2390746	Gamma-BHC	87.9	84.0	P/P	63 - 128
2390746	Gamma-Chlordane	64.5	68.0	P/P	40 - 104
2390746	Heptachlor	57.1	59.3	P/P	36 - 97.0
2390746	Heptachlor Epoxide	75.0	75.2	P/P	49 - 184
2390746	Hexachlorobenzene	50.8	55.7	P/P	39 - 96.0
2390746	Kepone	58.4	57.0	P/P	10 - 217
2390746	Lambda-Cyhalothrin	51.4	58.6	P/P	21 - 193
2390746	Methoprene	54.9	62.1	P/P	20 - 106
2390746	Methoxychlor	74.6	73.4	P/P	53 - 118
2390746	MGK-264	77.0	74.7	P/P	40 - 118
2390746	Mirex	48.7	56.4	P/P	26 - 92.0
2390746	Oxychlordane	64.4	69.1	P/P	44 - 99.0
2390746	Permethrin	57.5	64.7	P/P	33 - 182
2390746	Phenothrin	48.3	59.9	P/P	10 - 129
2390746	Piperonyl Butoxide	78.2	77.0	P/P	10 - 211
2390746	Prallethrin	64.2	64.4	P/P	24 - 113
2390746	Tau-Fluvalinate	51.3	57.8	P/P	14 - 149
2390746	Tetramethrin	69.2	69.5	P/P	17 - 151
2390746	Trans-Nonachlor	64.6	67.2	P/P	42 - 102
2390746	Triclosan Methyl	73.7	75.1	P/P	48 - 108
2390746	Trifluralin	70.0	70.0	P/P	47 - 96.0

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P426832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390549	Chlordane	46.2	34.0	F/F	53 - 126
2390549	Toxaphene	54.6	41.2	F/F	56 - 211

Reference Method: SM 4500-F- C-2011
Batch ID: P426976

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390237	Fluoride	97.2	97.2	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P426977

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390782	Fluoride	98.7	97.3	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P426852

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390617	Organic Carbon	96.2	99.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P426481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390298	Color (true)	1.59	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P426508

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390150	Calcium	1.71	Spike	P	0 - 20
2390150	Iron	3.18	Spike	P	0 - 20
2390150	Magnesium	3.70	Spike	P	0 - 20
2390150	Potassium	0.0623	Spike	P	0 - 20
2390150	Sodium	0.478	Spike	P	0 - 20
2390150	Strontium	2.35	Spike	P	0 - 20
2390150	Tin	1.77	Spike	P	0 - 20
2390150	Titanium	2.25	Spike	P	0 - 20
2390150	Vanadium	2.45	Spike	P	0 - 20
2390150	Zinc	2.45	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P426508

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390150	Aluminum	1.10	Spike	P	0 - 20
2390150	Antimony	0.985	Spike	P	0 - 20
2390150	Arsenic	1.80	Spike	P	0 - 20
2390150	Barium	1.09	Spike	P	0 - 20
2390150	Beryllium	1.99	Spike	P	0 - 20
2390150	Boron	0.319	Spike	P	0 - 20
2390150	Cadmium	0.407	Spike	P	0 - 20
2390150	Chromium	0.0243	Spike	P	0 - 20
2390150	Cobalt	0.315	Spike	P	0 - 20
2390150	Copper	1.04	Spike	P	0 - 20
2390150	Lead	0.501	Spike	P	0 - 20
2390150	Manganese	0.825	Spike	P	0 - 20
2390150	Molybdenum	1.33	Spike	P	0 - 20
2390150	Nickel	0.524	Spike	P	0 - 20
2390150	Selenium	1.74	Spike	P	0 - 20
2390150	Silver	1.29	Spike	P	0 - 20
2390150	Thallium	1.67	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426998

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390557	Chloride	0.00877	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426616

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390309	Ammonia-N	0.873	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390540	Kjeldahl Nitrogen	1.76	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426790

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390540	NO2NO3-N	0.438	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426629

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390510	Total-P	0.890	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P426832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390549	PCB-1016	22.2	Spike	P	0 - 32
2390549	PCB-1260	24.5	Spike	P	0 - 31
2390746	Aldrin	6.11	Spike	P	0 - 41
2390746	Alpha-BHC	3.60	Spike	P	0 - 25
2390746	Alpha-Chlordane	1.58	Spike	P	0 - 33
2390746	Beta-BHC	0.677	Spike	P	0 - 36
2390746	Beta-Cyfluthrin	10.8	Spike	P	0 - 42
2390746	Bifenthrin	15.5	Spike	P	0 - 53
2390746	Carbophenothion	10.5	Spike	P	0 - 49
2390746	Chlorothalonil	8.10	Spike	P	0 - 71
2390746	Cis-Nonachlor	2.66	Spike	P	0 - 29
2390746	Cypermethrin	10.0	Spike	P	0 - 40
2390746	Dacthal	1.27	Spike	P	0 - 26
2390746	DDD-p,p'	6.57	Spike	P	0 - 39
2390746	DDE-p,p'	4.90	Spike	P	0 - 33
2390746	DDT-p,p'	0.794	Spike	P	0 - 40
2390746	Delta-BHC	4.72	Spike	P	0 - 37
2390746	Deltamethrin	9.96	Spike	P	0 - 100
2390746	Dichlobenil	4.34	Spike	P	0 - 40
2390746	Dicofol	1.74	Spike	P	0 - 31
2390746	Dieldrin	2.61	Spike	P	0 - 27
2390746	Endosulfan I	1.42	Spike	P	0 - 23
2390746	Endosulfan II	10.0	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P426832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390746	Endosulfan Sulfate	2.82	Spike	P	0 - 38
2390746	Endrin	4.20	Spike	P	0 - 63
2390746	Endrin Aldehyde	3.18	Spike	P	0 - 60
2390746	Endrin Ketone	25.2	Spike	P	0 - 37
2390746	Esfenvalerate	10.1	Spike	P	0 - 52
2390746	Ethalfuralin	0.732	Spike	P	0 - 23
2390746	Fenpropathrin	3.60	Spike	P	0 - 32
2390746	Gamma-BHC	4.56	Spike	P	0 - 17
2390746	Gamma-Chlordane	5.37	Spike	P	0 - 40
2390746	Heptachlor	3.89	Spike	P	0 - 29
2390746	Heptachlor Epoxide	0.358	Spike	P	0 - 25
2390746	Hexachlorobenzene	9.14	Spike	P	0 - 36
2390746	Kepone	2.51	Spike	P	0 - 93
2390746	Lambda-Cyhalothrin	13.1	Spike	P	0 - 55
2390746	Methoprene	12.4	Spike	P	0 - 53
2390746	Methoxychlor	1.65	Spike	P	0 - 29
2390746	MGK-264	3.06	Spike	P	0 - 35
2390746	Mirex	14.6	Spike	P	0 - 46
2390746	Oxychlordane	7.02	Spike	P	0 - 29
2390746	Permethrin	11.8	Spike	P	0 - 44
2390746	Phenothrin	21.4	Spike	P	0 - 56
2390746	Piperonyl Butoxide	1.51	Spike	P	0 - 100
2390746	Prallethrin	0.390	Spike	P	0 - 42
2390746	Tau-Fluvalinate	11.9	Spike	P	0 - 54
2390746	Tetramethrin	0.314	Spike	P	0 - 51
2390746	Trans-Nonachlor	3.95	Spike	P	0 - 37
2390746	Triclosan Methyl	1.87	Spike	P	0 - 31
2390746	Trifluralin	0.0592	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P426832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390549	Chlordane	30.9	Spike	F	0 - 25
2390549	Toxaphene	23.4	Spike	P	0 - 26

Reference Method: SM 2320 B-2011

Batch ID: P426827

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390783	Total Alkalinity	0.447	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P426961

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389918	TDS	2.65	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P426962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390237	TDS	4.56	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P426976

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390237	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P426977

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390782	Fluoride	0.986	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P426852

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390617	Organic Carbon	3.02	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2390549

Field Sample ID: G4NW0016

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	52.2	P	29 - 130
EPA 8270E	Decachlorobiphenyl	41.2	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	35.7	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	35.9	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	33.7	P	30 - 101
EPA 8276	PCNB	48.2	P	48 - 121

Lab Sample ID: 2390550

Field Sample ID: FB_02272023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	81.9	P	29 - 130
EPA 8270E	Decachlorobiphenyl	71.1	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	69.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	64.8	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	51.8	P	30 - 101
EPA 8276	PCNB	70.5	P	48 - 121

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A117707

Included Lab Sample IDs: 2390539, 2390541, 2390543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.2	98.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117712

Included Lab Sample IDs: 2390539, 2390541, 2390543

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117761

Included Lab Sample IDs: 2390540, 2390542, 2390544

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	99.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A117773

Included Lab Sample IDs: 2390551, 2390552

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	100	102	P/P	90 - 110
Aluminum	102	101	P/P	90 - 110
Antimony	101	100	P/P	90 - 110
Antimony	99.9	101	P/P	90 - 110
Arsenic	101	100	P/P	90 - 110
Arsenic	100	98.6	P/P	90 - 110
Barium	101	102	P/P	90 - 110
Barium	102	101	P/P	90 - 110
Beryllium	98.2	96.5	P/P	90 - 110
Beryllium	99.8	98.2	P/P	90 - 110
Boron	102	100	P/P	90 - 110
Boron	99.1	102	P/P	90 - 110
Cadmium	101	102	P/P	90 - 110
Cadmium	102	100	P/P	90 - 110
Chromium	97.5	95.2	P/P	90 - 110
Chromium	99.3	97.5	P/P	90 - 110
Cobalt	95.8	95.0	P/P	90 - 110
Cobalt	97.9	95.8	P/P	90 - 110
Copper	97.3	97.9	P/P	90 - 110
Copper	98.6	97.3	P/P	90 - 110
Lead	97.9	98.3	P/P	90 - 110
Lead	98.3	97.4	P/P	90 - 110
Manganese	101	95.6	P/P	90 - 110
Manganese	102	101	P/P	90 - 110
Molybdenum	98.8	99.9	P/P	90 - 110
Molybdenum	99.9	97.8	P/P	90 - 110
Nickel	97.5	97.9	P/P	90 - 110
Nickel	99.9	97.5	P/P	90 - 110
Selenium	101	100	P/P	90 - 110
Selenium	101	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A117773

Included Lab Sample IDs: 2390551, 2390552

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	99.4	99.6	P/P	90 - 110
Silver	99.6	98.7	P/P	90 - 110
Thallium	102	102	P/P	90 - 110
Thallium	102	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117820

Included Lab Sample IDs: 2390540, 2390542, 2390544

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	103	P/P	90 - 110
NO2NO3-N	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117829

Included Lab Sample IDs: 2390540, 2390542, 2390544

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	99.2	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A117833

Included Lab Sample IDs: 2390539, 2390541, 2390543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.6	96.9	P/P	90 - 110
Sulfate	101	99.5	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A117858

Included Lab Sample IDs: 2390539, 2390541, 2390543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.5	97.2	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A117865

Included Lab Sample IDs: 2390540, 2390542, 2390544

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.3	99.6	P/P	90 - 110
Organic Carbon	97.8	97.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A117917

Included Lab Sample IDs: 2390539, 2390541, 2390543

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A117926

Included Lab Sample IDs: 2390549, 2390550

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	103		P	80 - 120
PCB-1260	111		P	80 - 120

Reference Method: EPA 8276

Run ID: A117934

Included Lab Sample IDs: 2390550

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	94.7		P	80 - 120
Toxaphene	90.4		P	80 - 120

Reference Method: EPA 8270E

Run ID: A117940

Included Lab Sample IDs: 2390549, 2390550

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.8		P	80 - 120
Alpha-BHC	99.7		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	106		P	80 - 120
Beta-Cyfluthrin	101		P	80 - 120
Bifenthrin	101		P	80 - 120
Carbophenothion	105		P	80 - 120
Chlorothalonil	118		P	80 - 120
Cis-Nonachlor	97.5		P	80 - 120
Cypermethrin	96.0		P	80 - 120
Dacthal	98.5		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	97.5		P	80 - 120
DDT-p,p'	98.7		P	80 - 120
Delta-BHC	108		P	80 - 120
Deltamethrin	101		P	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	99.6		P	80 - 120
Endosulfan I	95.7		P	80 - 120
Endosulfan II	109		P	80 - 120
Endosulfan Sulfate	101		P	80 - 120
Endrin	95.8		P	80 - 120
Endrin Aldehyde	90.9		P	80 - 120
Endrin Ketone	96.5		P	80 - 120
Esfenvalerate	102		P	80 - 120
Ethalfuralin	98.3		P	80 - 120
Fenpropathrin	101		P	80 - 120
Gamma-BHC	99.5		P	80 - 120
Gamma-Chlordane	97.1		P	80 - 120
Heptachlor	98.4		P	80 - 120
Heptachlor Epoxide	94.8		P	80 - 120
Hexachlorobenzene	94.5		P	80 - 120
Kepone	64.1*		F	80 - 120
Lambda-Cyhalothrin	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A117940

Included Lab Sample IDs: 2390549, 2390550

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoprene	97.6		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	96.2		P	80 - 120
Oxychlordane	97.8		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	99.4		P	80 - 120
Piperonyl Butoxide	103		P	80 - 120
Prallethrin	95.9		P	80 - 120
Tau-Fluvalinate	104		P	80 - 120
Tetramethrin	103		P	80 - 120
Trans-Nonachlor	95.9		P	80 - 120
Triclosan Methyl	96.6		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A117956

Included Lab Sample IDs: 2390551, 2390552

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	100	P/P	90 - 110
Calcium	105	105	P/P	90 - 110
Iron	103	102	P/P	90 - 110
Iron	108	107	P/P	90 - 110
Magnesium	102	100	P/P	90 - 110
Magnesium	107	106	P/P	90 - 110
Potassium	101	99.2	P/P	90 - 110
Potassium	105	103	P/P	90 - 110
Sodium	100	98.7	P/P	90 - 110
Sodium	95.8	93.5	P/P	90 - 110
Strontium	101	99.3	P/P	90 - 110
Tin	100	100	P/P	90 - 110
Tin	91.9	103	P/P	90 - 110
Titanium	91.4	100	P/P	90 - 110
Titanium	99.2	99.7	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110
Vanadium	91.7	103	P/P	90 - 110
Zinc	106	104	P/P	90 - 110
Zinc	94.1	105	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A117959

Included Lab Sample IDs: 2390549

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.8		P	80 - 120
Toxaphene	92.7		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A117977

Included Lab Sample IDs: 2390551

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Strontium	96.6	99.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A118158

Included Lab Sample IDs: 2390540, 2390542, 2390544

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.5	101	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	98.6					1.59	
EPA 180.1 Rev. 2.0	Turbidity	99.1						
EPA 200.7 Rev. 4.4	Calcium	104	102	107				1.71
	Iron	108	107	104	108			3.18
	Magnesium	104	103	106				3.70
	Potassium	104	103	103	112			0.0623
	Sodium	102	101	99.7	102			0.478
	Strontium	97.8	95.8	98.2	99.2			2.35
	Tin	101	100	98.2	102			1.77
	Titanium	103	103	100	103			2.25
	Vanadium	103	103	100	103			2.45
	Zinc	106	100	97.7	102			2.45
EPA 200.8 Rev. 5.4	Aluminum	103	102	101	100			1.10
	Antimony	102	103	104	102			0.985
	Arsenic	103	101	102	101			1.80
	Barium	106	103	105	104			1.09
	Beryllium	97.9	99.2	97.3	97.7			1.99
	Boron	101	102	102	103			0.319
	Cadmium	103	103	103	106			0.407
	Chromium	101	102	102	98.3			0.0243
	Cobalt	101	97.9	98.2	96.8			0.315
	Copper	102	97.6	98.6	96.4			1.04
	Lead	99.6	99.4	99.9	99.9			0.501
	Manganese	101	102	103	101			0.825
	Molybdenum	100	101	103	103			1.33
	Nickel	103	99.4	99.9	100			0.524
	Selenium	102	99.7	101	98.8			1.74
	Silver	100	99.0	100	101			1.29
	Thallium	104	104	106	105			1.67
EPA 300.0 Rev. 2.1	Chloride	98.1	96.7	95.8			0.0087	
	Sulfate	103	100	99.7				
EPA 350.1 Rev. 2.0	Ammonia-N	99.2	99.4	98.4				0.873
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.3	97.8	95.6				1.76
EPA 353.2 Rev. 2.0	NO2NO3-N	102	103	104				0.438
EPA 365.1 Rev. 2.0	Total-P	101	98.6	97.6				0.890
EPA 8270E	Aldrin	29.8	47.0	49.9				6.11
	Alpha-BHC	68.9	82.5	79.6				3.60
	Alpha-Chlordane	58.5	70.2	71.3				1.58
	Beta-BHC	75.2	87.3	86.7				0.677
	Beta-Cyfluthrin	38.2	57.4	63.9				10.8
	Bifenthrin	29.1	47.9	56.0				15.5
	Carbophenothion	47.0	59.1	65.6				10.5
	Chlorothalonil	69.5	54.1	58.7				8.10
	Cis-Nonachlor	46.9	63.2	64.9				2.66
	Cypermethrin	39.4	57.2	63.2				10.0
	Dacthal	80.5	85.2	86.3				1.27
	DDD-p,p'	54.2	67.8	72.4				6.57
	DDE-p,p'	48.5	66.9	70.3				4.90
	DDT-p,p'	44.8	64.5	65.0				0.794
	Delta-BHC	78.1	83.8	79.9				4.72
	Deltamethrin	45.4	64.1	70.8				9.96
	Dichlobenil	44.1	58.3	60.8				4.34
	Dicofol	56.3	68.8	67.6				1.74
	Dieldrin	59.4	74.1	76.6				2.61

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8270E	Endosulfan I	59.4	68.3	69.3		
	Endosulfan II	71.7	73.8	81.5		
	Endosulfan Sulfate	75.3	78.3	76.2		
	Endrin	61.7	75.6	78.8		
	Endrin Aldehyde	63.0	73.2	70.9		
	Endrin Ketone	72.2	108	83.9		
	Esfenvalerate	38.3	63.8	57.7		
	Ethalfuralin	50.2	68.3	68.8		
	Fenpropathrin	40.4	63.1	60.8		
	Gamma-BHC	111	84.0	87.9		
	Gamma-Chlordane	47.3	68.0	64.5		
	Heptachlor	58.5	59.3	57.1		
	Heptachlor Epoxide	71.6	75.2	75.0		
	Hexachlorobenzene	37.3	55.7	50.8		
	Kepone	38.7	57.0	58.4		
	Lambda-Cyhalothrin	32.6	58.6	51.4		
	Methoprene	36.4	62.1	54.9		
	Methoxychlor	61.5	73.4	74.6		
	MGK-264	66.7	74.7	77.0		
	Mirex	31.2	56.4	48.7		
	Oxychlordane	47.0	69.1	64.4		
	PCB-1016	67.0	59.3	47.8		
	PCB-1260	66.7	57.0	44.8		
	Permethrin	38.5	64.7	57.5		
	Phenothrin	31.1	59.9	48.3		
	Piperonyl Butoxide	70.4	77.0	78.2		
	Prallethrin	53.7	64.4	64.2		
	Tau-Fluvalinate	31.2	57.8	51.3		
	Tetramethrin	61.3	69.5	69.2		
	Trans-Nonachlor	45.6	67.2	64.6		
	Triclosan Methyl	59.4	75.1	73.7		
	Trifluralin	46.4	70.0	70.0		
EPA 8276	Chlordane	61.1	46.2	34.0		
	Toxaphene	73.4	54.6	41.2		
SM 2320 B-2011	Total Alkalinity	100				0.447
SM 2540 C-2015	TDS	91.4				2.65
	TDS	95.1				4.56
SM 2540 D-2015	TSS	102				
	TSS	93.8				
SM 4500-F- C-2011	Fluoride	99.0	97.2	97.2		0.0
	Fluoride	98.6	98.7	97.3		0.986
SM 5310 B-2011	Organic Carbon	94.5	96.2	99.2		3.02

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2390539, 2390541, 2390543
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2390539, 2390541, 2390543
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2390551, 2390552
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2390551, 2390552
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2390539, 2390541, 2390543

Reference Method Descriptions

Method	Description	Associated Samples
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2390539, 2390541, 2390543
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2390540, 2390542, 2390544
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2390540, 2390542, 2390544
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2390540, 2390542, 2390544
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2390540, 2390542, 2390544
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2390549, 2390550
EPA 8270E	PCBs in water matrices by GC/MS/MS	2390549, 2390550
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2390549, 2390550
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2390539, 2390541, 2390543
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2390551
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2390539, 2390541, 2390543
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2390539, 2390541, 2390543
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2390539, 2390541, 2390543
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2390540, 2390542, 2390544

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	02/28/2023			02/28/2023 14:03	Alexis Price	2390539, 2390541
	02/28/2023			02/28/2023 14:04	Alexis Price	2390543
EPA 180.1 Rev. 2.0	02/28/2023			02/28/2023 14:53	Khloe J Berg	2390539
	02/28/2023			02/28/2023 14:54	Khloe J Berg	2390541
	02/28/2023			02/28/2023 14:55	Khloe J Berg	2390543
EPA 200.7 Rev. 4.4	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/10/2023 18:34	McKinley C Carter	2390552
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/10/2023 21:48	McKinley C Carter	2390551
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/14/2023 12:32	Chase Roberts	2390551
EPA 200.8 Rev. 5.4	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/02/2023 15:52	Conrad Hartmann	2390552
	02/28/2023	03/01/2023 11:15	Vijayalakshmi Reddy	03/02/2023 17:57	Conrad Hartmann	2390551
EPA 300.0 Rev. 2.1	02/28/2023			03/09/2023 13:37	Judith K. Clark	2390539
	02/28/2023			03/09/2023 13:52	Judith K. Clark	2390541
	02/28/2023			03/09/2023 14:07	Judith K. Clark	2390543
EPA 350.1 Rev. 2.0	02/28/2023			03/02/2023 13:39	Ping Hua	2390540
	02/28/2023			03/02/2023 13:40	Ping Hua	2390542
	02/28/2023			03/02/2023 13:42	Ping Hua	2390544
EPA 351.2 Rev. 2.0	02/28/2023	03/21/2023 13:00	Simonne.V. Calhoun	03/23/2023 09:34	Judith K. Clark	2390540
	02/28/2023	03/21/2023 13:00	Simonne.V. Calhoun	03/23/2023 09:39	Judith K. Clark	2390542
	02/28/2023	03/21/2023 13:00	Simonne.V. Calhoun	03/23/2023 09:41	Judith K. Clark	2390544
EPA 353.2 Rev. 2.0	02/28/2023			03/06/2023 10:26	Beverly Y. Sanders	2390540
	02/28/2023			03/06/2023 11:39	Beverly Y. Sanders	2390542
	02/28/2023			03/06/2023 11:40	Beverly Y. Sanders	2390544
EPA 365.1 Rev. 2.0	02/28/2023	03/02/2023 15:47	Adam P Silver	03/06/2023 15:52	James L Waggeberby	2390544
	02/28/2023	03/02/2023 15:47	Adam P Silver	03/06/2023 15:54	James L Waggeberby	2390540
	02/28/2023	03/02/2023 15:47	Adam P Silver	03/06/2023 15:55	James L Waggeberby	2390542
EPA 8270E	02/28/2023	03/03/2023 09:00	Julie Wi	03/08/2023 21:56	Julie Wi	2390549
	02/28/2023	03/03/2023 09:00	Julie Wi	03/08/2023 22:25	Julie Wi	2390550
	02/28/2023	03/03/2023 09:00	Julie Wi	03/09/2023 22:30	Julie Wi	2390549
	02/28/2023	03/03/2023 09:00	Julie Wi	03/09/2023 23:00	Julie Wi	2390550
EPA 8276	02/28/2023	03/03/2023 09:00	Julie Wi	03/08/2023 04:38	Lipi Saha	2390550
	02/28/2023	03/03/2023 09:00	Julie Wi	03/11/2023 16:12	Lipi Saha	2390549
SM 2320 B-2011	02/28/2023			03/07/2023 21:17	Chandler E Cox	2390539
	02/28/2023			03/07/2023 21:27	Chandler E Cox	2390541
	02/28/2023			03/07/2023 21:36	Chandler E Cox	2390543
SM 2340 B-2011	02/28/2023			03/10/2023 21:48	McKinley C Carter	2390551
SM 2540 C-2015	02/28/2023			03/01/2023 16:46	Yijie Li	2390539, 2390541, 2390543
SM 2540 D-2015	02/28/2023			03/01/2023 16:46	Yijie Li	2390539, 2390541, 2390543
SM 4500-F- C-2011	02/28/2023			03/10/2023 05:12	Dale L. Simmons	2390539
	02/28/2023			03/10/2023 05:18	Dale L. Simmons	2390541
	02/28/2023			03/10/2023 06:05	Dale L. Simmons	2390543

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-2011	02/28/2023			03/08/2023 04:38	Elise M. Gillis	2390540
	02/28/2023			03/08/2023 05:24	Elise M. Gillis	2390542
	02/28/2023			03/08/2023 05:43	Elise M. Gillis	2390544