

Chemical Analysis Report

NE-DIST-2022-03-02-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **LSJR Main 2022**
Request ID: **RQ-2022-02-28-07**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 25-MAR-2022 11:10



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: Miller Creek at Atlantic Blvd

Collection Date/Time: 03/01/2022 10:50

Field ID: G2NE0005

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309061	EPA 180.1 Rev. 2.0	Turbidity	6.0		NTU	P410584	
	SM 2320 B-2011	Total Alkalinity	88		mg CaCO3/L	P410711	
	SM 2540 D-2011	TSS	6	IA	mg/L	P411097	
	SM 4500 F-C-2011	Fluoride	0.38		mg F/L	P410715	
2309062	EPA 350.1 Rev. 2.0	Ammonia-N	0.071		mg N/L	P410685	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.75		mg N/L	P410550	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.19		mg N/L	P410966	
	EPA 365.1 Rev. 2.0	Total-P	0.087		mg P/L	P410718	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P411057	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Little Pottsburg Creek at Emerson

Collection Date/Time: 03/01/2022 11:10

Field ID: 20030070

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309064	DEP SOP: NU-094-1	Color (true)**	51	A	PCU	P410591	
	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P410584	
	EPA 300.0 Rev. 2.1	Chloride	51		mg Cl/L	P410853	
		Sulfate	53		mg SO4/L	P410858	
	SM 2320 B-2011	Total Alkalinity	148		mg CaCO3/L	P410981	
	SM 2540 C-2011	TDS	373	A	mg/L	P411088	
	SM 2540 D-2011	TSS	7	IA	mg/L	P411093	
2309065	SM 4500 F-C-2011	Fluoride	0.24		mg F/L	P410984	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.060		mg N/L	P410686	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.87		mg N/L	P410670	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.27		mg N/L	P410916	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P410720	
2309071	SM 5310 B-2011	Organic Carbon	12		mg C/L	P410859	
	EPA 200.7 Rev. 4.4	Calcium	64.4		mg/L	P410595	
		Iron	1.22E+03		ug/L	P410595	
		Magnesium	12.9		mg/L	P410595	
		Potassium	3.2		mg/L	P410595	
		Sodium	32.2		mg/L	P410595	
		Strontium	897		ug/L	P410595	
		Tin	6.0	U	ug/L	P410595	
		Titanium	3.2		ug/L	P410595	
		Vanadium	2.0	U	ug/L	P410595	
		Zinc	18	I	ug/L	P410595	
	EPA 200.8 Rev. 5.4	Aluminum	67		ug/L	P410595	
		Antimony	0.48		ug/L	P410595	
		Arsenic	0.74		ug/L	P410595	
		Barium	39.5		ug/L	P410595	
		Beryllium	0.011	I	ug/L	P410595	
		Boron**	54.3		ug/L	P410595	
		Cadmium	0.020	U	ug/L	P410595	
		Chromium	0.51	I	ug/L	P410595	
		Cobalt	0.139		ug/L	P410595	
		Copper	4.37		ug/L	P410595	
		Lead	0.88		ug/L	P410595	
		Manganese	49.9		ug/L	P410595	
		Molybdenum	1.09		ug/L	P410595	
		Nickel	0.89	I	ug/L	P410595	
		Selenium	0.20	U	ug/L	P410595	
		Silver	0.010	U	ug/L	P410595	
		Thallium	0.10	U	ug/L	P410595	
	SM 2340B	Hardness	214		mg/L	P410595	

Field ID: 20030070

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Miramir at San Jose

Collection Date/Time: 03/01/2022 11:50

Field ID: G2NE1164

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309058	DEP SOP: NU-094-1	Color (true)**	27		PCU	P410591	
	EPA 180.1 Rev. 2.0	Turbidity	4.8		NTU	P410584	
	EPA 300.0 Rev. 2.1	Chloride	1.3E+03		mg Cl/L	P410853	
		Sulfate	240		mg SO4/L	P410858	
	SM 2320 B-2011	Total Alkalinity	84		mg CaCO3/L	P410840	
	SM 2540 C-2011	TDS	2.06E+03		mg/L	P411088	
	SM 2540 D-2011	TSS	6	I	mg/L	P411093	
2309059	SM 4500 F-C-2011	Fluoride	0.18		mg F/L	P410845	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.16		mg N/L	P410685	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P410550	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.0		mg N/L	P410966	
	EPA 365.1 Rev. 2.0	Total-P	0.084		mg P/L	P410718	
2309070	SM 5310 B-2011	Organic Carbon	6.3		mg C/L	P410859	
	EPA 8270E	Aldrin	0.66	U	ng/L	P410548	
		Alpha-BHC	0.15	I	ng/L	P410548	
		Alpha-Chlordane	0.68	I	ng/L	P410548	
		PCB-1016	2.0	U	ng/L	P410548	
		Beta-BHC	0.46	I	ng/L	P410548	
		PCB-1221	2.0	U	ng/L	P410548	
		Beta-Cyfluthrin**	1.3	U	ng/L	P410548	
		PCB-1232	2.0	U	ng/L	P410548	
		Bifenthrin**	0.51	U	ng/L	P410548	
		PCB-1242	2.0	U	ng/L	P410548	
		Carbophenothion	0.92	U	ng/L	P410548	
		PCB-1248	2.0	U	ng/L	P410548	
		Chlorothalonil	1.3	U	ng/L	P410548	
		PCB-1254	2.0	U	ng/L	P410548	
		Cis-Nonachlor**	0.20	U	ng/L	P410548	
		PCB-1260	2.0	U	ng/L	P410548	
		Cypermethrin	1.5	U	ng/L	P410548	
		Dacthal**	0.15	U	ng/L	P410548	
		DDD-p,p'	0.26	U	ng/L	P410548	
		DDE-p,p'	0.20	U	ng/L	P410548	
		DDT-p,p'	0.26	U	ng/L	P410548	
		Delta-BHC	0.41	U	ng/L	P410548	
		Deltamethrin**	1.3	UJ	ng/L	P410548	CCV, RPD
		Dichlobenil**	0.26	U	ng/L	P410548	
		Dicofol	1.3	U	ng/L	P410548	
		Dieldrin	8.4		ng/L	P410548	
		Endosulfan I	0.41	U	ng/L	P410548	
		Endosulfan II	0.41	U	ng/L	P410548	
		Endosulfan Sulfate	0.31	U	ng/L	P410548	
		Endrin	0.41	U	ng/L	P410548	
		Endrin Aldehyde	0.77	U	ng/L	P410548	

Field ID: G2NE1164

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309070	EPA 8270E	Endrin Ketone	0.41	U	ng/L	P410548	MS
		Esfenvalerate**	0.77	U	ng/L	P410548	
		Ethalfuralin**	0.15	U	ng/L	P410548	
		Fenpropathrin**	0.26	U	ng/L	P410548	
		Gamma-BHC	0.48	I	ng/L	P410548	
		Gamma-Chlordane	0.63	I	ng/L	P410548	
		Heptachlor	0.20	U	ng/L	P410548	
		Heptachlor Epoxide	2.7		ng/L	P410548	
		Hexachlorobenzene	1.0	U	ng/L	P410548	
		Kepone**	5.1	U	ng/L	P410548	
		Lambda-Cyhalothrin**	0.77	U	ng/L	P410548	
		Methoprene**	0.77	U	ng/L	P410548	
		Methoxychlor	0.31	U	ng/L	P410548	
		MGK-264**	0.20	U	ng/L	P410548	
		Mirex	0.72	U	ng/L	P410548	
		Oxychlordane**	0.31	U	ng/L	P410548	
		Permethrin	1.6	U	ng/L	P410548	
		Phenothrin**	0.92	U	ng/L	P410548	
		Piperonyl Butoxide**	0.16	I	ng/L	P410548	
		Prallethrin**	2.0	U	ng/L	P410548	
		Tau-Fluvalinate**	0.26	U	ng/L	P410548	
		Tetramethrin**	0.77	U	ng/L	P410548	
		Trans-Nonachlor**	0.20	U	ng/L	P410548	
		Triclosan Methyl**	0.15	U	ng/L	P410548	
		Trifluralin	0.20	U	ng/L	P410548	
	EPA 8276	Chlordane	6.2	I	ng/L	P410548	
		Toxaphene	15	U	ng/L	P410548	

Ref. Method and Comment:

SM 2540 C-2011: The reported result is consistent with the conductivity measured in the laboratory, 4360 umhos/cm.

SM 2540 D-2011: 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: Little Pottsburg Creek at Bedford Road

Collection Date/Time: 03/01/2022 11:30

Field ID: 20030756

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309072	EPA 200.7 Rev. 4.4	Calcium	75.4		mg/L	P410595	
		Iron	790		ug/L	P410595	
		Magnesium	12.1		mg/L	P410595	
		Potassium	2.6		mg/L	P410595	
		Sodium	18.8		mg/L	P410595	
		Strontium	970		ug/L	P410595	
		Tin	6.0	U	ug/L	P410595	
		Titanium	1.2	I	ug/L	P410595	
		Vanadium	2.0	U	ug/L	P410595	
	EPA 200.8 Rev. 5.4	Zinc	7.8	I	ug/L	P410595	
		Aluminum	15	I	ug/L	P410595	
		Antimony	0.20	I	ug/L	P410595	
		Arsenic	0.70		ug/L	P410595	
		Barium	41.7		ug/L	P410595	
		Beryllium	0.010	U	ug/L	P410595	
		Boron**	46.6		ug/L	P410595	
		Cadmium	0.020	U	ug/L	P410595	
		Chromium	0.40	U	ug/L	P410595	
		Cobalt	0.106		ug/L	P410595	
		Copper	1.52		ug/L	P410595	
		Lead	0.20	U	ug/L	P410595	
		Manganese	36.5		ug/L	P410595	
		Molybdenum	1.05		ug/L	P410595	
		Nickel	0.82	I	ug/L	P410595	
		Selenium	0.20	U	ug/L	P410595	
		Silver	0.010	U	ug/L	P410595	
		Thallium	0.10	U	ug/L	P410595	
	SM 2340B	Hardness	238		mg/L	P410595	

Ref. Method and Comment:

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P410591

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410584

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P410595

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: P410595

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: P410853

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: P410858

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410685

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410686

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410550

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410670

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410916

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410966

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410718

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410720

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410548

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P410548

Component	Result	Code	Units
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P410548

Component	Result	Code	Units
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: P410548

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: SM 2320 B-2011
Batch ID: P410711

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

Reference Method: SM 2320 B-2011
Batch ID: P410840

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

Reference Method: SM 2320 B-2011
Batch ID: P410981

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

Reference Method: SM 2540 C-2011
Batch ID: P411088

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P411093

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P411097

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P411097

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P410715

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P410845

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P410984

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P410859

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-2011
Batch ID: P411057

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: P410591

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410584

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.9		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P410595

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	108		P	85 - 115
Iron	108		P	85 - 115
Magnesium	106		P	85 - 115
Potassium	106		P	85 - 115
Sodium	105		P	85 - 115
Strontium	104		P	85 - 115
Tin	105		P	85 - 115
Titanium	104		P	85 - 115
Vanadium	97.8		P	85 - 115
Zinc	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P410595

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	99.6		P	85 - 115
Arsenic	98.5		P	85 - 115
Barium	102		P	85 - 115
Beryllium	97.0		P	85 - 115
Boron	102		P	85 - 115
Cadmium	98.9		P	85 - 115
Chromium	95.7		P	85 - 115
Cobalt	97.5		P	85 - 115
Copper	96.5		P	85 - 115
Lead	95.2		P	85 - 115
Manganese	96.6		P	85 - 115
Molybdenum	98.3		P	85 - 115
Nickel	98.0		P	85 - 115
Selenium	98.5		P	85 - 115
Silver	98.8		P	85 - 115
Thallium	98.1		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410853

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410858

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410685

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410686

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410550

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410670

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410916

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410966

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410718

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410720

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P410548

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	42.3		P	10 - 93.0
Alpha-BHC	89.2		P	75 - 106
Alpha-Chlordane	75.4		P	50 - 109
Beta-BHC	110		P	65 - 135
Beta-Cyfluthrin	68.8		P	23 - 167
Bifenthrin	61.4		P	11 - 123
Carbophenothion	39.6		P	18 - 96.0
Chlorothalonil	131		P	26 - 182
Cis-Nonachlor	63.0		P	40 - 111
Cypermethrin	65.7		P	25 - 155
Dacthal	95.6		P	73 - 112
DDD-p,p'	69.5		P	47 - 108
DDE-p,p'	77.8		P	48 - 107
DDT-p,p'	79.4		P	49 - 111
Delta-BHC	114		P	68 - 143
Deltamethrin	55.5		P	16 - 176
Dichlobenil	94.9		P	32 - 113
Dicofol	70.3		P	50 - 108
Dieldrin	78.1		P	56 - 110
Endosulfan I	85.7		P	60 - 105
Endosulfan II	74.8		P	50 - 120
Endosulfan Sulfate	86.2		P	55 - 121
Endrin	71.6		P	31 - 119
Endrin Aldehyde	63.3		P	36 - 116
Endrin Ketone	90.0		P	56 - 130
Esfenvalerate	61.2		P	10 - 179
Ethalfuralin	70.9		P	49 - 99.0
Fenpropathrin	67.9		P	35 - 119
Gamma-BHC	113		P	72 - 115
Gamma-Chlordane	70.3		P	45 - 107
Heptachlor	65.8		P	41 - 100
Heptachlor Epoxide	80.8		P	58 - 106
Hexachlorobenzene	72.8		P	39 - 100
Kepone	46.6		P	10 - 191
Lambda-Cyhalothrin	65.8		P	10 - 186
Methoprene	58.4		P	10 - 129
Methoxychlor	78.0		P	61 - 111
MGK-264	73.7		P	20 - 123
Mirex	52.7		P	10 - 182
Oxychlordane	70.3		P	39 - 110
PCB-1016	70.2		P	49 - 111
PCB-1260	78.6		P	42 - 116
Permethrin	74.2		P	26 - 152
Phenothrin	43.7		P	10 - 109
Piperonyl Butoxide	88.6		P	27 - 142
Prallethrin	62.5		P	14 - 109
Tau-Fluvalinate	52.2		P	16 - 134
Tetramethrin	65.2		P	10 - 125
Trans-Nonachlor	72.0		P	45 - 107
Triclosan Methyl	80.4		P	60 - 110
Trifluralin	70.4		P	49 - 98.0

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P410548

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	79.7		P	61 - 118
Toxaphene	65.0		P	51 - 122

Reference Method: SM 2320 B-2011
Batch ID: P410711

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	94.8		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P410840

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.0		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P410981

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.8		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P410715

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.7		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P410845

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.0		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P410984

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.2		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P410859

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.6		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P411057

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.7		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P410595

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308895	Calcium	104		P	80 - 120
2308895	Iron	104	107	P/P	80 - 120
2308895	Magnesium	103		P	80 - 120
2308895	Potassium	102	104	P/P	80 - 120
2308895	Sodium	102		P	80 - 120
2308895	Strontium	104	105	P/P	80 - 120
2308895	Tin	108	105	P/P	80 - 120
2308895	Titanium	104	105	P/P	80 - 120
2308895	Vanadium	99.7	102	P/P	80 - 120
2308895	Zinc	105	107	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P410595

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307546	Aluminum	99.5		P	75 - 125
2307546	Antimony	104		P	75 - 125
2307546	Arsenic	102		P	75 - 125
2307546	Barium	103		P	75 - 125
2307546	Beryllium	92.6		P	75 - 125
2307546	Boron	110		P	75 - 125
2307546	Cadmium	101		P	75 - 125
2307546	Chromium	101		P	75 - 125
2307546	Cobalt	100		P	75 - 125
2307546	Copper	93.5		P	75 - 125
2307546	Lead	97.7		P	75 - 125
2307546	Manganese	101		P	75 - 125
2307546	Molybdenum	105		P	75 - 125
2307546	Nickel	98.9		P	75 - 125
2307546	Selenium	99.6		P	75 - 125
2307546	Silver	95.9		P	75 - 125
2307546	Thallium	103		P	75 - 125
2308895	Aluminum	102	101	P/P	80 - 120
2308895	Antimony	100	99.5	P/P	80 - 120
2308895	Arsenic	99.5	99.2	P/P	80 - 120
2308895	Barium	101	100	P/P	80 - 120
2308895	Beryllium	97.0	97.4	P/P	80 - 120
2308895	Boron	105	106	P/P	80 - 120
2308895	Cadmium	100	100	P/P	80 - 120
2308895	Chromium	97.8	97.9	P/P	80 - 120
2308895	Cobalt	99.2	98.9	P/P	80 - 120
2308895	Copper	96.8	96.8	P/P	80 - 120
2308895	Lead	96.8	96.6	P/P	80 - 120
2308895	Molybdenum	99.6	100	P/P	80 - 120
2308895	Nickel	99.5	100	P/P	80 - 120
2308895	Selenium	98.6	97.5	P/P	80 - 120
2308895	Silver	97.2	96.6	P/P	80 - 120
2308895	Thallium	101	101	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308899	Chloride	99.9		P	90 - 110
2309274	Chloride	99.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410858

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308899	Sulfate	100		P	90 - 110
2309274	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410685

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308743	Ammonia-N	97.6	99.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410686

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308900	Ammonia-N	101	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410550

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307283	Kjeldahl Nitrogen	99.5	97.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410670

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2309065	Kjeldahl Nitrogen	92.8	91.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410916

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2309032	NO2NO3-N	96.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410966

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308276	NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410718

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307973	Total-P	103	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2309013	Total-P	98.3	102	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P410548

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2309180	Aldrin	50.3	44.4	P/P	10 - 89.0
2309180	Alpha-BHC	90.6	88.8	P/P	71 - 105
2309180	Alpha-Chlordane	75.2	80.4	P/P	43 - 107
2309180	Beta-BHC	131	121	P/P	57 - 152
2309180	Beta-Cyfluthrin	79.8	77.3	P/P	29 - 186
2309180	Bifenthrin	72.3	70.2	P/P	19 - 119
2309180	Carbophenothion	60.0	50.5	P/P	19 - 107
2309180	Chlorothalonil	132	138	P/P	10 - 245
2309180	Cis-Nonachlor	68.8	68.8	P/P	36 - 110
2309180	Cypermethrin	74.0	85.1	P/P	24 - 169
2309180	Dacthal	90.9	93.2	P/P	62 - 115
2309180	DDD-p,p'	72.1	69.9	P/P	36 - 109
2309180	DDE-p,p'	78.9	83.9	P/P	30 - 114
2309180	DDT-p,p'	99.5	81.2	P/P	42 - 108
2309180	Delta-BHC	148	126	P/P	60 - 164
2309180	Deltamethrin	57.5	18.0	P/P	10 - 210
2309180	Dichlobenil	82.4	79.1	P/P	23 - 108
2309180	Dicofol	75.7	70.2	P/P	44 - 109
2309180	Dieldrin	74.1	79.5	P/P	37 - 119
2309180	Endosulfan I	87.4	88.5	P/P	52 - 105
2309180	Endosulfan II	75.1	74.0	P/P	35 - 127
2309180	Endosulfan Sulfate	83.7	80.9	P/P	39 - 130
2309180	Endrin	73.0	68.6	P/P	30 - 116
2309180	Endrin Aldehyde	48.1	48.2	P/P	20 - 110
2309180	Endrin Ketone	91.3	87.3	P/P	48 - 134
2309180	Esfenvalerate	69.1	74.7	P/P	10 - 199
2309180	Ethalfuralin	70.2	68.1	P/P	48 - 95.0
2309180	Fenpropathrin	74.5	68.9	P/P	37 - 121
2309180	Gamma-BHC	136	123	F/P	61 - 126
2309180	Gamma-Chlordane	76.5	78.4	P/P	39 - 105
2309180	Heptachlor	58.0	56.6	P/P	38 - 96.0
2309180	Heptachlor Epoxide	76.0	80.6	P/P	42 - 114
2309180	Hexachlorobenzene	70.6	63.7	P/P	39 - 93.0
2309180	Kepone	96.0	51.7	P/P	10 - 215
2309180	Lambda-Cyhalothrin	73.2	89.3	P/P	10 - 204
2309180	Methoprene	62.0	60.2	P/P	17 - 108
2309180	Methoxychlor	75.6	73.2	P/P	56 - 115
2309180	MGK-264	71.6	75.9	P/P	35 - 120
2309180	Mirex	64.7	62.8	P/P	10 - 178
2309180	Oxychlordane	63.1	65.1	P/P	47 - 91.0
2309180	Permethrin	81.2	86.5	P/P	27 - 170
2309180	Phenothrin	58.1	54.9	P/P	10 - 133
2309180	Piperonyl Butoxide	96.4	91.2	P/P	23 - 150
2309180	Prallethrin	60.8	72.0	P/P	21 - 113
2309180	Tau-Fluvalinate	66.7	62.6	P/P	16 - 158
2309180	Tetramethrin	78.5	74.3	P/P	22 - 132

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P410548

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2309180	Trans-Nonachlor	74.6	78.1	P/P	43 - 102
2309180	Triclosan Methyl	79.2	81.2	P/P	49 - 109
2309180	Trifluralin	72.6	67.7	P/P	48 - 93.0
2310052	PCB-1016	79.2	83.1	P/P	46 - 110
2310052	PCB-1260	77.9	95.2	P/P	42 - 111

Reference Method: EPA 8276

Batch ID: P410548

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310052	Chlordane	81.6	102	P/P	55 - 128
2310052	Toxaphene	61.1	64.1	P/P	57 - 211

Reference Method: SM 4500 F-C-2011

Batch ID: P410715

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307282	Fluoride	98.9	99.7	P/P	92 - 107

Reference Method: SM 4500 F-C-2011

Batch ID: P410845

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308962	Fluoride	98.0	95.6	P/P	92 - 107

Reference Method: SM 5310 B-2011

Batch ID: P410859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2309029	Organic Carbon	98.6	102	P/P	85 - 115

Reference Method: SM 5310 B-2011

Batch ID: P411057

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2309062	Organic Carbon	97.9	97.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P410591

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309064	Color (true)	18.3	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P410584

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309025	Turbidity	7.33	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P410595

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308895	Calcium	1.48	Spike	P	0 - 20
2308895	Iron	2.22	Spike	P	0 - 20
2308895	Magnesium	1.34	Spike	P	0 - 20
2308895	Potassium	1.24	Spike	P	0 - 20
2308895	Sodium	1.44	Spike	P	0 - 20
2308895	Strontium	0.454	Spike	P	0 - 20
2308895	Tin	2.00	Spike	P	0 - 20
2308895	Titanium	0.919	Spike	P	0 - 20
2308895	Vanadium	2.04	Spike	P	0 - 20
2308895	Zinc	1.96	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P410595

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308895	Aluminum	0.594	Spike	P	0 - 20
2308895	Antimony	0.926	Spike	P	0 - 20
2308895	Arsenic	0.306	Spike	P	0 - 20
2308895	Barium	0.588	Spike	P	0 - 20
2308895	Beryllium	0.354	Spike	P	0 - 20
2308895	Boron	0.185	Spike	P	0 - 20
2308895	Cadmium	0.136	Spike	P	0 - 20
2308895	Chromium	0.187	Spike	P	0 - 20
2308895	Cobalt	0.383	Spike	P	0 - 20
2308895	Copper	0.0692	Spike	P	0 - 20
2308895	Lead	0.203	Spike	P	0 - 20
2308895	Manganese	1.23	Spike	P	0 - 20
2308895	Molybdenum	0.326	Spike	P	0 - 20
2308895	Nickel	0.481	Spike	P	0 - 20
2308895	Selenium	1.09	Spike	P	0 - 20
2308895	Silver	0.574	Spike	P	0 - 20
2308895	Thallium	0.411	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410853

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308899	Chloride	0.132	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308899	Sulfate	0.548	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410685

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308743	Ammonia-N	1.20	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410686

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308900	Ammonia-N	1.97	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410550

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307283	Kjeldahl Nitrogen	1.49	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410670

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309065	Kjeldahl Nitrogen	1.05	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410916

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309032	NO2NO3-N	0.178	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308276	NO2NO3-N	0.986	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P410718

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307973	Total-P	0.258	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P410720

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309013	Total-P	2.01	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P410548

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309180	Aldrin	12.4	Spike	P	0 - 37
2309180	Alpha-BHC	2.04	Spike	P	0 - 16
2309180	Alpha-Chlordane	6.69	Spike	P	0 - 28
2309180	Beta-BHC	8.26	Spike	P	0 - 32
2309180	Beta-Cyfluthrin	3.22	Spike	P	0 - 41
2309180	Bifenthrin	2.98	Spike	P	0 - 36
2309180	Carbophenothion	17.1	Spike	P	0 - 30
2309180	Chlorothalonil	3.84	Spike	P	0 - 54
2309180	Cis-Nonachlor	0.0863	Spike	P	0 - 33
2309180	Cypermethrin	14.0	Spike	P	0 - 38
2309180	Dacthal	2.51	Spike	P	0 - 23
2309180	DDD-p,p'	3.03	Spike	P	0 - 35
2309180	DDE-p,p'	6.07	Spike	P	0 - 27
2309180	DDT-p,p'	20.2	Spike	P	0 - 31
2309180	Delta-BHC	16.2	Spike	P	0 - 30
2309180	Deltamethrin	105	Spike	F	0 - 76
2309180	Dichlobenil	4.08	Spike	P	0 - 33
2309180	Dicofol	7.50	Spike	P	0 - 24
2309180	Dieldrin	7.10	Spike	P	0 - 35
2309180	Endosulfan I	1.29	Spike	P	0 - 25
2309180	Endosulfan II	1.42	Spike	P	0 - 31
2309180	Endosulfan Sulfate	3.37	Spike	P	0 - 38
2309180	Endrin	6.28	Spike	P	0 - 53
2309180	Endrin Aldehyde	0.138	Spike	P	0 - 81
2309180	Endrin Ketone	4.44	Spike	P	0 - 33
2309180	Esfenvalerate	7.75	Spike	P	0 - 46
2309180	Ethalfuralin	3.01	Spike	P	0 - 22
2309180	Fenpropathrin	7.89	Spike	P	0 - 29
2309180	Gamma-BHC	10.1	Spike	P	0 - 17
2309180	Gamma-Chlordane	2.54	Spike	P	0 - 28
2309180	Heptachlor	2.31	Spike	P	0 - 28
2309180	Heptachlor Epoxide	5.86	Spike	P	0 - 23
2309180	Hexachlorobenzene	10.3	Spike	P	0 - 22
2309180	Kepone	59.9	Spike	P	0 - 61
2309180	Lambda-Cyhalothrin	19.8	Spike	P	0 - 52
2309180	Methoprene	2.94	Spike	P	0 - 38
2309180	Methoxychlor	3.14	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P410548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309180	MGK-264	5.72	Spike	P	0 - 41
2309180	Mirex	3.01	Spike	P	0 - 39
2309180	Oxychlordane	3.02	Spike	P	0 - 33
2309180	Permethrin	6.32	Spike	P	0 - 39
2309180	Phenothrin	5.76	Spike	P	0 - 52
2309180	Piperonyl Butoxide	5.58	Spike	P	0 - 91
2309180	Prallethrin	16.8	Spike	P	0 - 34
2309180	Tau-Fluvalinate	6.38	Spike	P	0 - 41
2309180	Tetramethrin	5.50	Spike	P	0 - 43
2309180	Trans-Nonachlor	4.69	Spike	P	0 - 31
2309180	Triclosan Methyl	2.46	Spike	P	0 - 24
2309180	Trifluralin	6.91	Spike	P	0 - 23
2310052	PCB-1016	4.86	Spike	P	0 - 22
2310052	PCB-1260	19.9	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P410548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310052	Chlordane	21.9	Spike	P	0 - 25
2310052	Toxaphene	4.85	Spike	P	0 - 24

Reference Method: SM 2320 B-2011
Batch ID: P410711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307282	Total Alkalinity	1.50	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P410840

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308962	Total Alkalinity	0.538	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P410981

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310485	Total Alkalinity	4.61	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P411088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309064	TDS	3.22	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-2011
Batch ID: P410715

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307282	Fluoride	0.516	Spike	P	0 - 2.1

Reference Method: SM 4500 F-C-2011
Batch ID: P410845

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308962	Fluoride	1.47	Spike	P	0 - 2.1

Reference Method: SM 4500 F-C-2011
Batch ID: P410984

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310485	Fluoride	0.483	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309029	Organic Carbon	2.09	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P411057

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309062	Organic Carbon	0.630	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2309070
Field Sample ID: G2NE1164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	68.5	P	38 - 115
EPA 8270E	Decachlorobiphenyl	75.8	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	51.9	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	56.9	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	64.3	P	30 - 97.0
EPA 8276	PCNB	74.5	P	45 - 119

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110714

Included Lab Sample IDs: 2309058, 2309061, 2309064

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: A110718

Included Lab Sample IDs: 2309058, 2309064

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	101	P/P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110761

Included Lab Sample IDs: 2309059, 2309062, 2309065

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	97.8	P/P	90 - 110
Ammonia-N	98.3	98.2	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110775

Included Lab Sample IDs: 2309071, 2309072

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.9	100	P/P	90 - 110
Antimony	94.0	95.7	P/P	90 - 110
Arsenic	96.5	93.9	P/P	90 - 110
Barium	97.8	97.6	P/P	90 - 110
Beryllium	94.1	94.2	P/P	90 - 110
Boron	103	104	P/P	90 - 110
Cadmium	97.2	98.5	P/P	90 - 110
Chromium	94.5	96.1	P/P	90 - 110
Cobalt	96.5	95.0	P/P	90 - 110
Copper	95.9	94.0	P/P	90 - 110
Lead	92.5	93.0	P/P	90 - 110
Manganese	96.4	96.3	P/P	90 - 110
Molybdenum	96.7	95.1	P/P	90 - 110
Nickel	97.4	95.1	P/P	90 - 110
Selenium	96.8	95.6	P/P	90 - 110
Silver	94.5	93.5	P/P	90 - 110
Thallium	98.6	97.5	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A110777

Included Lab Sample IDs: 2309061

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.2	96.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-2011

Run ID: A110777

Included Lab Sample IDs: 2309061

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110781

Included Lab Sample IDs: 2309059, 2309062

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.4	99.2	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110800

Included Lab Sample IDs: 2309071, 2309072

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	101	P/P	90 - 110
Iron	103	100	P/P	90 - 110
Magnesium	103	99.8	P/P	90 - 110
Potassium	101	98.2	P/P	90 - 110
Sodium	104	101	P/P	90 - 110
Strontium	98.2	95.7	P/P	90 - 110
Titanium	96.9	94.4	P/P	90 - 110
Vanadium	97.6	95.1	P/P	90 - 110
Zinc	99.7	97.6	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A110825

Included Lab Sample IDs: 2309070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	94.8		P	80 - 120
Toxaphene	96.0		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110829

Included Lab Sample IDs: 2309065

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.4	98.0	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A110830

Included Lab Sample IDs: 2309058

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.8	99.4	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110830

Included Lab Sample IDs: 2309058

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

Reference Method: SM 4500 F-C-2011

Run ID: A110830

Included Lab Sample IDs: 2309058

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110831

Included Lab Sample IDs: 2309058, 2309064

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

Reference Method: SM 5310 B-2011

Run ID: A110833

Included Lab Sample IDs: 2309059, 2309065

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.6	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110834

Included Lab Sample IDs: 2309070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	119		P	80 - 120
PCB-1260	105		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110846

Included Lab Sample IDs: 2309071, 2309072

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tin	96.2	95.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110854

Included Lab Sample IDs: 2309065

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110870

Included Lab Sample IDs: 2309059, 2309062

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

Reference Method: SM 2320 B-2011

Run ID: A110877

Included Lab Sample IDs: 2309064

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

Reference Method: SM 2320 B-2011

Run ID: A110877

Included Lab Sample IDs: 2309064

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.9	94.0	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110877

Included Lab Sample IDs: 2309064

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	104	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110886

Included Lab Sample IDs: 2309070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.3		P	80 - 120
Alpha-BHC	95.3		P	80 - 120
Alpha-Chlordane	95.3		P	80 - 120
Beta-BHC	93.6		P	80 - 120
Beta-Cyfluthrin	84.1		P	80 - 120
Bifenthrin	96.4		P	80 - 120
Carbophenothion	101		P	80 - 120
Chlorothalonil	99.2		P	80 - 120
Cis-Nonachlor	105		P	80 - 120
Cypermethrin	92.2		P	80 - 120
Dacthal	98.1		P	80 - 120
DDD-p,p'	102		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	94.3		P	80 - 120
Delta-BHC	94.7		P	80 - 120
Deltamethrin	78.7*		F	80 - 120
Dichlobenil	95.9		P	80 - 120
Dicofol	97.5		P	80 - 120
Dieldrin	91.5		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	106		P	80 - 120
Endosulfan Sulfate	101		P	80 - 120
Endrin	108		P	80 - 120
Endrin Aldehyde	98.2		P	80 - 120
Endrin Ketone	103		P	80 - 120
Esfenvalerate	85.9		P	80 - 120
Ethalfuralin	99.8		P	80 - 120
Fenpropathrin	92.4		P	80 - 120
Gamma-BHC	95.6		P	80 - 120
Gamma-Chlordane	100		P	80 - 120
Heptachlor	96.4		P	80 - 120
Heptachlor Epoxide	97.1		P	80 - 120
Hexachlorobenzene	98.3		P	80 - 120
Kepone	96.4		P	80 - 120
Lambda-Cyhalothrin	87.4		P	80 - 120
Methoprene	90.7		P	80 - 120
Methoxychlor	89.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A110886
Included Lab Sample IDs: 2309070

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
MGK-264	94.0		P	80 - 120
Mirex	102		P	80 - 120
Oxychlordane	89.8		P	80 - 120
Permethrin	91.0		P	80 - 120
Phenothrin	89.6		P	80 - 120
Piperonyl Butoxide	95.8		P	80 - 120
Prallethrin	105		P	80 - 120
Tau-Fluvalinate	83.3		P	80 - 120
Tetramethrin	96.2		P	80 - 120
Trans-Nonachlor	98.5		P	80 - 120
Triclosan Methyl	95.3		P	80 - 120
Trifluralin	96.3		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A110890
Included Lab Sample IDs: 2309065

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.1	97.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A110898
Included Lab Sample IDs: 2309059, 2309062

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

Reference Method: SM 5310 B-2011
Run ID: A110920
Included Lab Sample IDs: 2309062

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.4	93.4	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)	101					18.3	
EPA 180.1 Rev. 2.0	Turbidity	96.9					7.33	
EPA 200.7 Rev. 4.4	Calcium	108		104				1.48
	Iron	108		104	107			2.22
	Magnesium	106		103				1.34
	Potassium	106		102	104			1.24
	Sodium	105		102				1.44
	Strontium	104		104	105			0.454
	Tin	105		108	105			2.00
	Titanium	104		104	105			0.919
	Vanadium	97.8		99.7	102			2.04
	Zinc	105		105	107			1.96
EPA 200.8 Rev. 5.4	Aluminum	100		102	101	99.5		0.594
	Antimony	99.6		100	99.5	104		0.926
	Arsenic	98.5		99.5	99.2	102		0.306
	Barium	102		101	100	103		0.588
	Beryllium	97.0		97.0	97.4	92.6		0.354
	Boron	102		105	106	110		0.185
	Cadmium	98.9		100	100	101		0.136
	Chromium	95.7		97.8	97.9	101		0.187
	Cobalt	97.5		99.2	98.9	100		0.383
	Copper	96.5		96.8	96.8	93.5		0.0692
	Lead	95.2		96.8	96.6	97.7		0.203
	Manganese	96.6		101				1.23
	Molybdenum	98.3		99.6	100	105		0.326
	Nickel	98.0		99.5	100	98.9		0.481
	Selenium	98.5		98.6	97.5	99.6		1.09
	Silver	98.8		97.2	96.6	95.9		0.574
	Thallium	98.1		101	101	103		0.411
EPA 300.0 Rev. 2.1	Chloride	102		99.9	99.6		0.132	
	Sulfate	103		100	101		0.548	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6		97.6	99.4			1.20
	Ammonia-N	98.4		101	98.4			1.97
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.6		99.5	97.3			1.49
	Kjeldahl Nitrogen	91.7		92.8	91.1			1.05
EPA 353.2 Rev. 2.0	NO2NO3-N	100		96.0				0.178
	NO2NO3-N	101		102	101			0.986
EPA 365.1 Rev. 2.0	Total-P	105		103	102			0.258
	Total-P	103		98.3	102			2.01
EPA 8270E	Aldrin	42.3		44.4	50.3			12.4
	Alpha-BHC	89.2		88.8	90.6			2.04
	Alpha-Chlordane	75.4		80.4	75.2			6.69
	Beta-BHC	110		121	131			8.26
	Beta-Cyfluthrin	68.8		77.3	79.8			3.22
	Bifenthrin	61.4		70.2	72.3			2.98
	Carbophenothion	39.6		50.5	60.0			17.1
	Chlorothalonil	131		138	132			3.84
	Cis-Nonachlor	63.0		68.8	68.8			0.0863
	Cypermethrin	65.7		85.1	74.0			14.0
	Dacthal	95.6		93.2	90.9			2.51
	DDD-p,p'	69.5		69.9	72.1			3.03
	DDE-p,p'	77.8		83.9	78.9			6.07
	DDT-p,p'	79.4		81.2	99.5			20.2
	Delta-BHC	114		126	148			16.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Deltamethrin	55.5	18.0	57.5			105
	Dichlobenil	94.9	79.1	82.4			4.08
	Dicofol	70.3	70.2	75.7			7.50
	Dieldrin	78.1	79.5	74.1			7.10
	Endosulfan I	85.7	88.5	87.4			1.29
	Endosulfan II	74.8	74.0	75.1			1.42
	Endosulfan Sulfate	86.2	83.7	80.9			3.37
	Endrin	71.6	73.0	68.6			6.28
	Endrin Aldehyde	63.3	48.1	48.2			0.138
	Endrin Ketone	90.0	91.3	87.3			4.44
	Esfenvalerate	61.2	69.1	74.7			7.75
	Ethalfuralin	70.9	70.2	68.1			3.01
	Fenpropathrin	67.9	74.5	68.9			7.89
	Gamma-BHC	113	136	123			10.1
	Gamma-Chlordane	70.3	76.5	78.4			2.54
	Heptachlor	65.8	58.0	56.6			2.31
	Heptachlor Epoxide	80.8	76.0	80.6			5.86
	Hexachlorobenzene	72.8	70.6	63.7			10.3
	Kepone	46.6	96.0	51.7			59.9
	Lambda-Cyhalothrin	65.8	73.2	89.3			19.8
	Methoprene	58.4	62.0	60.2			2.94
	Methoxychlor	78.0	75.6	73.2			3.14
	MGK-264	73.7	71.6	75.9			5.72
	Mirex	52.7	64.7	62.8			3.01
	Oxychlordane	70.3	63.1	65.1			3.02
	PCB-1016	70.2	79.2	83.1			4.86
	PCB-1260	78.6	77.9	95.2			19.9
	Permethrin	74.2	81.2	86.5			6.32
	Phenothrin	43.7	58.1	54.9			5.76
	Piperonyl Butoxide	88.6	96.4	91.2			5.58
	Prallethrin	62.5	60.8	72.0			16.8
	Tau-Fluvalinate	52.2	66.7	62.6			6.38
	Tetramethrin	65.2	78.5	74.3			5.50
	Trans-Nonachlor	72.0	74.6	78.1			4.69
	Triclosan Methyl	80.4	79.2	81.2			2.46
	Trifluralin	70.4	72.6	67.7			6.91
EPA 8276	Chlordane	79.7	81.6	102			21.9
	Toxaphene	65.0	61.1	64.1			4.85
SM 2320 B-2011	Total Alkalinity	94.8				1.50	
	Total Alkalinity	99.0				0.538	
	Total Alkalinity	98.8				4.61	
SM 2540 C-2011	TDS					3.22	
SM 4500 F-C-2011	Fluoride	98.7	98.9	99.7			0.516
	Fluoride	98.0	98.0	95.6			1.47
	Fluoride	99.2					0.483
SM 5310 B-2011	Organic Carbon	94.6	98.6	102			2.09
	Organic Carbon	97.7	97.9	97.2			0.630

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2309058, 2309064
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2309058, 2309061, 2309064

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2309071, 2309072
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2309071, 2309072
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2309058, 2309064
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2309058, 2309064
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2309059, 2309062, 2309065
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2309059, 2309062, 2309065
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2309059, 2309062, 2309065
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2309059, 2309062, 2309065
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2309070
EPA 8270E	PCBs in water matrices by GC/MS/MS	2309070
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2309070
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2309058, 2309061, 2309064
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2309071, 2309072
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2309058, 2309064
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2309058, 2309061, 2309064
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2309058, 2309061, 2309064
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2309059, 2309062, 2309065

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	03/02/2022			03/02/2022 16:02	Anna M. Plaviak	2309058
	03/02/2022			03/02/2022 16:03	Anna M. Plaviak	2309064
	03/02/2022			03/02/2022 14:38	Khloe J Berg	2309058
EPA 180.1 Rev. 2.0	03/02/2022			03/02/2022 14:45	Khloe J Berg	2309061
	03/02/2022			03/02/2022 14:47	Khloe J Berg	2309064
	03/02/2022	03/03/2022 10:15	Megan Whitefoot	03/07/2022 17:04	Josef B Mick	2309071
EPA 200.7 Rev. 4.4	03/02/2022	03/03/2022 10:15	Megan Whitefoot	03/07/2022 17:12	Josef B Mick	2309072
	03/02/2022	03/03/2022 10:15	Megan Whitefoot	03/09/2022 23:28	Josef B Mick	2309071
	03/02/2022	03/03/2022 10:15	Megan Whitefoot	03/09/2022 23:36	Josef B Mick	2309072
EPA 200.8 Rev. 5.4	03/02/2022	03/03/2022 10:15	Megan Whitefoot	03/04/2022 16:02	Alexander Thompson	2309071
	03/02/2022	03/03/2022 10:15	Megan Whitefoot	03/04/2022 16:11	Alexander Thompson	2309072
	03/02/2022			03/08/2022 09:07	James L Waggeberby	2309058
EPA 300.0 Rev. 2.1	03/02/2022			03/08/2022 09:20	James L Waggeberby	2309064
	03/02/2022			03/04/2022 11:46	Judith K. Clark	2309059
	03/02/2022			03/04/2022 11:48	Judith K. Clark	2309062
EPA 350.1 Rev. 2.0	03/02/2022			03/04/2022 12:17	Judith K. Clark	2309065
	03/02/2022	03/03/2022 12:56	Samantha L Bates	03/04/2022 16:16	Alexandra J Mattheus	2309059
	03/02/2022	03/03/2022 12:56	Samantha L Bates	03/04/2022 16:18	Alexandra J Mattheus	2309062
EPA 351.2 Rev. 2.0	03/02/2022	03/07/2022 10:55	Alexandra J Mattheus	03/08/2022 15:46	Alexandra J Mattheus	2309065
	03/02/2022			03/10/2022 10:06	Beverly Y. Sanders	2309065
	03/02/2022			03/10/2022 18:01	Nathaniel J Jones	2309062
EPA 353.2 Rev. 2.0	03/02/2022			03/10/2022 18:02	Nathaniel J Jones	2309059
	03/02/2022	03/10/2022 14:40	Simonne.V. Calhoun	03/11/2022 12:47	Sarah A Nixon	2309065
	03/02/2022	03/10/2022 14:40	Simonne.V. Calhoun	03/11/2022 15:51	Sarah A Nixon	2309059
EPA 365.1 Rev. 2.0	03/02/2022	03/10/2022 14:40	Simonne.V. Calhoun	03/11/2022 15:52	Sarah A Nixon	2309062
	03/02/2022	03/04/2022 08:00	Fe-Val Siddell	03/08/2022 19:10	Julie Wi	2309070
	03/02/2022	03/04/2022 08:00	Fe-Val Siddell	03/10/2022 19:24	Vandana T. Nagar	2309070
EPA 8270E	03/02/2022	03/04/2022 08:00	Fe-Val Siddell	03/08/2022 17:48	Arthur Maknenko	2309070
EPA 8276	03/02/2022	03/04/2022 08:00	Fe-Val Siddell	03/04/2022 07:24	Dale L. Simmons	2309061
SM 2320 B-2011	03/02/2022			03/08/2022 21:51	Dale L. Simmons	2309058
	03/02/2022			03/10/2022 01:21	Dale L. Simmons	2309064
	03/02/2022			03/07/2022 17:04	Josef B Mick	2309071
SM 2340B	03/02/2022			03/07/2022 17:12	Josef B Mick	2309072
SM 2540 C-2011	03/02/2022			03/07/2022 14:02	Yijie Li	2309058, 2309064
SM 2540 D-2011	03/02/2022			03/07/2022 14:02	Yijie Li	2309058, 2309061, 2309064
SM 4500 F-C-2011	03/02/2022			03/04/2022 03:38	Dale L. Simmons	2309061
	03/02/2022			03/08/2022 21:51	Dale L. Simmons	2309058
	03/02/2022			03/10/2022 01:21	Dale L. Simmons	2309064
SM 5310 B-2011	03/02/2022			03/08/2022 03:46	Khloe J Berg	2309065
	03/02/2022			03/08/2022 04:01	Khloe J Berg	2309059

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-2011	03/02/2022			03/10/2022 14:30	Khloe J Berg	2309062