

Chemical Analysis Report

SO-DIST-2023-02-23-01

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

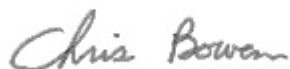
Event Description: **2022 SMP : Myakka**
Request ID: **RQ-2023-02-13-22**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: William Mullen

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Chris Bowen, Environmental Administrator

Date Certified: 14-MAR-2023 09:51



Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: BrandyBranch@NWLilyCoRd

Collection Date/Time: 02/22/2023 09:10

Field ID: G3SD0201

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389682	EPA 8270E	Aldrin	0.66	U	ng/L	P426421	LCS, MS
		Alpha-BHC	0.10	UJ	ng/L	P426421	
		Alpha-Chlordane	0.20	U	ng/L	P426421	
		PCB-1016	2.0	U	ng/L	P426421	MS
		Beta-BHC	0.10	U	ng/L	P426421	
		PCB-1221	2.0	U	ng/L	P426421	
		Beta-Cyfluthrin	1.3	U	ng/L	P426421	
		PCB-1232	2.0	U	ng/L	P426421	
		Bifenthrin	0.51	U	ng/L	P426421	
		PCB-1242	2.0	U	ng/L	P426421	
		Carbophenothion	0.92	U	ng/L	P426421	
		PCB-1248	2.0	U	ng/L	P426421	
		Chlorothalonil	3.7	U	ng/L	P426421	
		PCB-1254	2.0	U	ng/L	P426421	
		Cis-Nonachlor	0.20	U	ng/L	P426421	
		PCB-1260	2.0	U	ng/L	P426421	
		Cypermethrin	1.5	U	ng/L	P426421	
		Dacthal	0.15	U	ng/L	P426421	
		DDD-p,p'	0.25	U	ng/L	P426421	
		DDE-p,p'	0.20	U	ng/L	P426421	
		DDT-p,p'	0.25	U	ng/L	P426421	
		Delta-BHC	0.41	U	ng/L	P426421	
		Deltamethrin	1.3	U	ng/L	P426421	
		Dichlobenil	0.25	U	ng/L	P426421	
		Dicofol	1.3	U	ng/L	P426421	
		Dieldrin	0.41	U	ng/L	P426421	
		Endosulfan I	0.41	U	ng/L	P426421	
		Endosulfan II	0.41	U	ng/L	P426421	
		Endosulfan Sulfate	0.31	U	ng/L	P426421	
		Endrin	0.41	U	ng/L	P426421	
		Endrin Aldehyde	0.76	U	ng/L	P426421	
		Endrin Ketone	0.41	UJ	ng/L	P426421	
		Esfenvalerate	0.76	U	ng/L	P426421	
		Ethalfuralin	0.15	U	ng/L	P426421	
		Fenpropathrin	0.25	U	ng/L	P426421	
		Gamma-BHC	0.13	U	ng/L	P426421	
		Gamma-Chlordane	0.20	U	ng/L	P426421	
		Heptachlor	0.20	U	ng/L	P426421	
		Heptachlor Epoxide	0.25	U	ng/L	P426421	
		Hexachlorobenzene**	1.0	U	ng/L	P426421	
		Kepone	5.1	U	ng/L	P426421	
		Lambda-Cyhalothrin	0.76	U	ng/L	P426421	
		Methoprene	0.76	U	ng/L	P426421	
		Methoxychlor	0.31	U	ng/L	P426421	

Field ID: G3SD0201

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389682	EPA 8270E	MGK-264	0.20	U	ng/L	P426421	
		Mirex	0.36	U	ng/L	P426421	
		Oxychlordane	0.31	U	ng/L	P426421	
		Permethrin	1.6	U	ng/L	P426421	
		Phenothrin	0.92	U	ng/L	P426421	
		Piperonyl Butoxide	0.43	I	ng/L	P426421	
		Prallethrin	2.0	U	ng/L	P426421	
		Tau-Fluvalinate	0.25	U	ng/L	P426421	
		Tetramethrin	0.76	U	ng/L	P426421	
		Trans-Nonachlor	0.20	U	ng/L	P426421	
		Triclosan Methyl	0.15	U	ng/L	P426421	
		Trifluralin	0.20	U	ng/L	P426421	
		Chlordane	2.0	U	ng/L	P426421	
		Toxaphene	15	U	ng/L	P426421	MS
2389684	EPA 8321B	2,4-D	0.0020	U	ug/L	P426469	
		Acesulfame K	0.10	U	ug/L	P426216	
		2,4,5-T	0.0040	U	ug/L	P426469	
		AMPA	0.10	U	ug/L	P426216	
		Acetaminophen	0.0086	I	ug/L	P426469	
		Acetamiprid	0.0020	U	ug/L	P426469	
		Endothall	0.25	U	ug/L	P426216	
		Glufosinate	0.10	U	ug/L	P426216	
		Glyphosate	0.10	U	ug/L	P426216	
		Afidopyropen	0.0020	UQ	ug/L	P426586	RPD
		Bentazon	8.0E-04	U	ug/L	P426469	
		Sucralose	0.010	U	ug/L	P426216	
		Benzovindiflupyr	0.0020	U	ug/L	P426469	
		Carbamazepine	8.0E-04	U	ug/L	P426469	
		Clothianidin	0.0020	U	ug/L	P426469	
		Dinotefuran	0.0020	U	ug/L	P426469	
		Diuron	0.0020	U	ug/L	P426469	
		Fenuron	0.032	U	ug/L	P426469	
		Fluridone	8.0E-04	U	ug/L	P426469	
		Imazapyr	0.0040	U	ug/L	P426469	
		Hydrocodone	0.0020	U	ug/L	P426469	
		Ibuprofen	0.080	U	ug/L	P426469	
		Imidacloprid	0.0020	U	ug/L	P426469	
		Linuron	0.0040	U	ug/L	P426469	
		Mandestrobin	0.0020	U	ug/L	P426469	
		MCP	0.0020	U	ug/L	P426469	
		Naproxen	0.0080	U	ug/L	P426469	
		Primidone	0.0040	U	ug/L	P426469	
		Pyraclostrobin	0.0020	U	ug/L	P426469	
		Silvex	0.0040	U	ug/L	P426469	
		Thiamethoxam	0.0020	U	ug/L	P426469	

Field ID: G3SD0201

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389684	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P426469	
		Triclopyr	0.0040	U	ug/L	P426469	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8321B: Q - Sample was prepared beyond holding time for afidopyropen due to technical issues.

Sample Location: LAKE MYAKKA (UPPER) @ MIDDLE

Collection Date/Time: 02/22/2023 10:55

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389676	DEP SOP: NU-094-1	Color (true)	96		PCU	P426304	
	EPA 180.1 Rev. 2.0	Turbidity	14		NTU	P426310	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P426693	
		Sulfate	160		mg SO4/L	P426875	
	SM 2320 B-2011	Total Alkalinity	38		mg CaCO3/L	P426594	
	SM 2540 C-2015	TDS	336		mg/L	P426801	
	SM 2540 D-2015	TSS	16		mg/L	P426740	
2389677	SM 4500-F- C-2011	Fluoride	0.27		mg F/L	P426598	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P426544	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P426718	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P426580	
	EPA 365.1 Rev. 2.0	Total-P	0.23		mg P/L	P426451	
2389683	SM 5310 B-2011	Organic Carbon	16		mg C/L	P426788	
	EPA 8270E	Aldrin	0.66	U	ng/L	P426421	
		Alpha-BHC	0.10	UJ	ng/L	P426421	LCS, MS
		Alpha-Chlordane	0.20	U	ng/L	P426421	
		PCB-1016	2.0	U	ng/L	P426421	
		Beta-BHC	0.10	U	ng/L	P426421	MS
		PCB-1221	2.0	U	ng/L	P426421	
		Beta-Cyfluthrin	1.3	U	ng/L	P426421	
		PCB-1232	2.0	U	ng/L	P426421	
		Bifenthrin	0.51	U	ng/L	P426421	
		PCB-1242	2.0	U	ng/L	P426421	
		Carbophenothion	0.92	U	ng/L	P426421	
		PCB-1248	2.0	U	ng/L	P426421	
		Chlorothalonil	3.7	U	ng/L	P426421	
		PCB-1254	2.0	U	ng/L	P426421	
		Cis-Nonachlor	0.20	U	ng/L	P426421	
		PCB-1260	2.0	U	ng/L	P426421	
		Cypermethrin	1.5	U	ng/L	P426421	
		Dacthal	0.15	U	ng/L	P426421	
		DDD-p,p'	0.25	U	ng/L	P426421	
		DDE-p,p'	0.20	U	ng/L	P426421	
		DDT-p,p'	0.25	U	ng/L	P426421	
		Delta-BHC	0.41	U	ng/L	P426421	
		Deltamethrin	1.3	U	ng/L	P426421	
		Dichlobenil	0.25	U	ng/L	P426421	
		Dicofol	1.3	U	ng/L	P426421	
		Dieldrin	0.41	U	ng/L	P426421	
		Endosulfan I	0.41	U	ng/L	P426421	
		Endosulfan II	0.41	U	ng/L	P426421	
		Endosulfan Sulfate	0.31	U	ng/L	P426421	
		Endrin	0.41	U	ng/L	P426421	
		Endrin Aldehyde	0.76	U	ng/L	P426421	

Field ID: G3SD0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389683	EPA 8270E	Endrin Ketone	0.41	UJ	ng/L	P426421	CCV, LCS
		Esfenvalerate	0.76	U	ng/L	P426421	
		Ethalfuralin	0.15	U	ng/L	P426421	
		Fenpropathrin	0.25	U	ng/L	P426421	
		Gamma-BHC	0.13	U	ng/L	P426421	
		Gamma-Chlordane	0.20	U	ng/L	P426421	
		Heptachlor	0.20	U	ng/L	P426421	
		Heptachlor Epoxide	0.25	U	ng/L	P426421	
		Hexachlorobenzene**	1.0	U	ng/L	P426421	
		Kepone	5.1	U	ng/L	P426421	
		Lambda-Cyhalothrin	0.76	U	ng/L	P426421	
		Methoprene	0.76	U	ng/L	P426421	
		Methoxychlor	0.31	U	ng/L	P426421	
		MGK-264	0.20	U	ng/L	P426421	
		Mirex	0.36	U	ng/L	P426421	
		Oxychlordane	0.31	U	ng/L	P426421	
		Permethrin	1.6	U	ng/L	P426421	
		Phenothrin	0.92	U	ng/L	P426421	
		Piperonyl Butoxide	0.15	U	ng/L	P426421	
		Prallethrin	2.0	U	ng/L	P426421	
		Tau-Fluvalinate	0.25	U	ng/L	P426421	
		Tetramethrin	0.76	U	ng/L	P426421	
		Trans-Nonachlor	0.20	U	ng/L	P426421	
		Triclosan Methyl	0.15	U	ng/L	P426421	
		Trifluralin	0.20	U	ng/L	P426421	
	EPA 8276	Chlordane	2.0	U	ng/L	P426421	
		Toxaphene	55		ng/L	P426421	MS

Ref. Method and Comment:

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: LAKE MYAKKA (LOWER) @ MIDDLE

Collection Date/Time: 02/22/2023 12:05

Field ID: G3SD0107

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2389674	DEP SOP: NU-094-1	Color (true)	76	A	PCU	P426307	
	EPA 180.1 Rev. 2.0	Turbidity	50		NTU	P426310	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P426693	
		Sulfate	160		mg SO4/L	P426875	
	SM 2320 B-2011	Total Alkalinity	34		mg CaCO3/L	P426594	
	SM 2540 C-2015	TDS	340		mg/L	P426801	
	SM 2540 D-2015	TSS	84		mg/L	P426740	
	SM 4500-F- C-2011	Fluoride	0.27		mg F/L	P426598	
2389675	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P426544	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.0		mg N/L	P426718	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P426580	
	EPA 365.1 Rev. 2.0	Total-P	0.23		mg P/L	P426451	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P426788	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P426304

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P426307

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426310

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426693

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426875

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426544

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426718

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426580

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426451

Component	Result	Code	Units
Total-P	0.010	U	mg P/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P426421

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	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: P426421

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	0.35	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P426421

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: P426421

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

Reference Method: EPA 8321B

Batch ID: P426216

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P426469

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P426469

Component	Result	Code	Units
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P426586

Component	Result	Code	Units
Afidopyropen	0.0020	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P426594

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

Reference Method: SM 2540 C-2015
Batch ID: P426801

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P426740

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P426598

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P426788

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: P426304

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P426307

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426310

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426693

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	94.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426875

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426544

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426718

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426580

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426451

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P426421

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.1		P	10 - 92.0
Alpha-BHC	73.8		F	75 - 107
Alpha-Chlordane	69.9		P	50 - 108
Beta-BHC	78.4		P	36 - 138
Beta-Cyfluthrin	78.4		P	20 - 161
Bifenthrin	63.1		P	10 - 119
Carbophenothion	68.6		P	19 - 94.0
Chlorothalonil	91.3		P	26 - 186
Cis-Nonachlor	65.5		P	42 - 119
Cypermethrin	72.5		P	22 - 150
Dacthal	78.7		P	72 - 119
DDD-p,p'	65.1		P	45 - 107
DDE-p,p'	67.5		P	48 - 106
DDT-p,p'	65.4		P	48 - 110
Delta-BHC	82.4		P	54 - 140
Deltamethrin	90.7		P	22 - 189
Dichlobenil	66.4		P	36 - 117
Dicofol	67.4		P	46 - 155
Dieldrin	73.4		P	54 - 110
Endosulfan I	70.9		P	59 - 105
Endosulfan II	80.0		P	51 - 118
Endosulfan Sulfate	79.1		P	57 - 121
Endrin	72.3		P	10 - 120
Endrin Aldehyde	73.7		P	34 - 118
Endrin Ketone	67.1		F	69 - 177
Esfenvalerate	80.9		P	23 - 168
Ethalfuralin	68.0		P	49 - 99.0
Fenpropathrin	76.7		P	34 - 117
Gamma-BHC	82.0		P	72 - 117
Gamma-Chlordane	65.0		P	43 - 106
Heptachlor	57.2		P	41 - 98.0
Heptachlor Epoxide	70.7		P	57 - 106
Hexachlorobenzene	57.8		P	36 - 99.0
Kepone	55.3		P	16 - 215
Lambda-Cyhalothrin	40.3		P	21 - 177
Methoprene	65.5		P	10 - 119
Methoxychlor	73.5		P	60 - 112
MGK-264	66.8		P	26 - 122
Mirex	59.1		P	10 - 169
Oxychlordane	63.4		P	43 - 105
PCB-1016	70.6		P	48 - 112
PCB-1260	70.8		P	44 - 118
Permethrin	45.3		P	24 - 148
Phenothrin	62.2		P	10 - 106
Piperonyl Butoxide	81.8		P	10 - 139
Prallethrin	65.2		P	17 - 109
Tau-Fluvalinate	76.8		P	13 - 131
Tetramethrin	101		P	10 - 132
Trans-Nonachlor	63.5		P	44 - 106
Triclosan Methyl	74.8		P	59 - 109
Trifluralin	67.0		P	44 - 101

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P426421

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	79.1		P	53 - 126
Toxaphene	85.0		P	56 - 211

Reference Method: EPA 8321B
Batch ID: P426216

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	112		P	40 - 150
AMPA	102		P	40 - 150
Endothall	117		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	104		P	40 - 150
Sucralose	108		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426469

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	122		P	40 - 150
2,4,5-T	91.9		P	40 - 150
Acetaminophen	113		P	30 - 150
Acetamiprid	88.1		P	40 - 150
Bentazon	122		P	30 - 150
Benzovindiflupyr	89.4		P	40 - 150
Carbamazepine	85.4		P	40 - 150
Clothianidin	87.3		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	81.4		P	40 - 150
Fenuron	91.3		P	40 - 150
Fluridone	77.6		P	40 - 150
Hydrocodone	86.6		P	40 - 150
Ibuprofen	81.5		P	40 - 150
Imazapyr	98.5		P	40 - 150
Imidacloprid	104		P	40 - 150
Linuron	74.9		P	40 - 150
Mandestrobin	85.5		P	40 - 150
MCPP	107		P	40 - 150
Naproxen	110		P	40 - 150
Primidone	91.8		P	40 - 150
Pyraclostrobin	81.1		P	40 - 150
Silvex	106		P	40 - 150
Thiamethoxam	97.0		P	40 - 150
Tolfenpyrad	58.8		P	30 - 150
Triclopyr	106		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Afidopyropen	60.2		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P426594

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.8		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P426801

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.2		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P426740

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.3		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P426598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P426788

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426693

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389573	Chloride	94.4		P	90 - 110
2389625	Chloride	93.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389014	Sulfate	99.5		P	90 - 110
2390051	Sulfate	105		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426544

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389656	Ammonia-N	101	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426718

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389633	Kjeldahl Nitrogen	104	111	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426580

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389656	NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P426451

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389728	Total-P	102	100	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P426421

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389580	Aldrin	53.9	58.1	P/P	20 - 82.0
2389580	Alpha-BHC	67.0	70.5	F/F	71 - 109
2389580	Alpha-Chlordane	79.0	81.0	P/P	42 - 106
2389580	Beta-BHC	68.7	83.9	F/P	69 - 180
2389580	Beta-Cyfluthrin	93.3	98.3	P/P	18 - 175
2389580	Bifenthrin	81.6	78.0	P/P	21 - 128
2389580	Carbophenothion	80.6	80.1	P/P	10 - 126
2389580	Chlorothalonil	86.4	108	P/P	10 - 300
2389580	Cis-Nonachlor	76.7	75.8	P/P	34 - 106
2389580	Cypermethrin	92.6	88.5	P/P	22 - 158
2389580	Dacthal	83.0	88.5	P/P	54 - 116
2389580	DDD-p,p'	80.5	74.0	P/P	34 - 107
2389580	DDE-p,p'	78.5	77.2	P/P	33 - 110
2389580	DDT-p,p'	70.6	77.6	P/P	50 - 122

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P426421

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389580	Delta-BHC	86.0	95.2	P/P	77 - 193
2389580	Deltamethrin	113	121	P/P	10 - 195
2389580	Dichlobenil	43.3	50.0	P/P	25 - 113
2389580	Dicofol	75.2	79.7	P/P	38 - 247
2389580	Dieldrin	85.8	82.4	P/P	45 - 118
2389580	Endosulfan I	81.7	85.8	P/P	51 - 106
2389580	Endosulfan II	85.6	88.7	P/P	37 - 122
2389580	Endosulfan Sulfate	76.3	81.5	P/P	43 - 132
2389580	Endrin	82.5	87.2	P/P	29 - 101
2389580	Endrin Aldehyde	65.9	71.1	P/P	19 - 110
2389580	Endrin Ketone	68.9	74.1	P/P	60 - 140
2389580	Esfenvalerate	99.3	105	P/P	26 - 199
2389580	Ethalfuralin	66.8	71.4	P/P	45 - 99.0
2389580	Fenpropathrin	88.2	86.6	P/P	35 - 120
2389580	Gamma-BHC	75.9	80.8	P/P	63 - 128
2389580	Gamma-Chlordane	75.5	76.8	P/P	40 - 104
2389580	Heptachlor	58.3	65.6	P/P	36 - 97.0
2389580	Heptachlor Epoxide	79.1	83.1	P/P	49 - 184
2389580	Hexachlorobenzene	44.4	56.3	P/P	39 - 96.0
2389580	Kepone	78.3	83.1	P/P	10 - 217
2389580	Lambda-Cyhalothrin	53.3	50.4	P/P	21 - 193
2389580	Methoprene	74.6	77.6	P/P	20 - 106
2389580	Methoxychlor	79.9	90.9	P/P	53 - 118
2389580	MGK-264	77.7	73.6	P/P	40 - 118
2389580	Mirex	70.8	70.0	P/P	26 - 92.0
2389580	Oxychlordane	73.4	75.7	P/P	44 - 99.0
2389580	Permethrin	59.0	55.3	P/P	33 - 182
2389580	Phenothrin	76.5	77.1	P/P	10 - 129
2389580	Piperonyl Butoxide	92.5	85.4	P/P	10 - 211
2389580	Prallethrin	61.2	66.4	P/P	24 - 113
2389580	Tau-Fluvalinate	92.4	98.5	P/P	14 - 149
2389580	Tetramethrin	109	114	P/P	17 - 151
2389580	Trans-Nonachlor	82.2	80.1	P/P	42 - 102
2389580	Triclosan Methyl	82.0	86.0	P/P	48 - 108
2389580	Trifluralin	71.0	72.0	P/P	47 - 96.0
2389595	PCB-1016	54.0	58.0	P/P	46 - 111
2389595	PCB-1260	48.6	50.0	P/P	45 - 114

Reference Method: EPA 8276

Batch ID: P426421

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389595	Chlordane	59.5	60.6	P/P	53 - 126
2389595	Toxaphene	40.7	45.2	F/F	56 - 211

Reference Method: EPA 8321B

Batch ID: P426216

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389131	Acesulfame K	122	115	P/P	40 - 150
2389131	AMPA	73.1	67.5	P/P	40 - 150
2389131	Endothall	114	106	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P426216

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389131	Glufosinate	76.6	79.4	P/P	40 - 150
2389131	Glyphosate	97.1	101	P/P	40 - 150
2389131	Sucralose	98.2	105	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426469

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2390647	2,4-D	97.0	110	P/P	40 - 150
2390647	2,4,5-T	98.0	98.3	P/P	40 - 150
2390647	Acetaminophen	114	118	P/P	30 - 150
2390647	Acetamiprid	53.6	59.2	P/P	40 - 150
2390647	Bentazon	78.7	78.8	P/P	30 - 150
2390647	Benzovindiflupyr	75.4	76.0	P/P	40 - 150
2390647	Carbamazepine	58.2	60.3	P/P	40 - 150
2390647	Clothianidin	77.9	81.3	P/P	40 - 150
2390647	Dinotefuran	95.9	96.1	P/P	40 - 150
2390647	Diuron	49.0	48.0	P/P	40 - 150
2390647	Fenuron	56.5	58.0	P/P	40 - 150
2390647	Fluridone	55.8	51.4	P/P	40 - 150
2390647	Hydrocodone	73.8	74.6	P/P	40 - 150
2390647	Ibuprofen	72.2	88.4	P/P	40 - 150
2390647	Imazapyr	98.9	106	P/P	40 - 150
2390647	Imidacloprid	101	106	P/P	40 - 150
2390647	Linuron	62.1	61.3	P/P	40 - 150
2390647	Mandestrobin	68.3	77.1	P/P	40 - 150
2390647	MCPP	94.6	103	P/P	40 - 150
2390647	Naproxen	61.4	69.5	P/P	40 - 150
2390647	Primidone	78.9	79.3	P/P	40 - 150
2390647	Pyraclostrobin	70.8	71.2	P/P	40 - 150
2390647	Silvex	103	109	P/P	40 - 150
2390647	Thiamethoxam	84.1	81.4	P/P	40 - 150
2390647	Tolfenpyrad	52.6	51.0	P/P	30 - 150
2390647	Triclopyr	104	104	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P426586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2391073	Afidopyropen	73.1	39.7	P/P	30 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P426598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389872	Fluoride	99.9	99.3	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P426788

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2389629	Organic Carbon	94.5	95.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P426304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389691	Color (true)	2.09	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P426307

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389674	Color (true)	0.730	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426310

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389694	Turbidity	2.37	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426693

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389573	Chloride	0.153	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P426875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389014	Sulfate	2.75	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426544

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389656	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P426718

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389633	Kjeldahl Nitrogen	4.71	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P426580

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389656	NO2NO3-N	0.496	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P426451

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389728	Total-P	1.87	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P426421

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389580	Aldrin	7.51	Spike	P	0 - 41
2389580	Alpha-BHC	5.08	Spike	P	0 - 25
2389580	Alpha-Chlordane	2.53	Spike	P	0 - 33
2389580	Beta-BHC	19.8	Spike	P	0 - 36
2389580	Beta-Cyfluthrin	5.27	Spike	P	0 - 42
2389580	Bifenthrin	4.43	Spike	P	0 - 53
2389580	Carbophenothion	0.643	Spike	P	0 - 49
2389580	Chlorothalonil	22.1	Spike	P	0 - 71
2389580	Cis-Nonachlor	1.17	Spike	P	0 - 29
2389580	Cypermethrin	4.63	Spike	P	0 - 40
2389580	Dacthal	6.38	Spike	P	0 - 26
2389580	DDD-p,p'	8.37	Spike	P	0 - 39
2389580	DDE-p,p'	1.59	Spike	P	0 - 33
2389580	DDT-p,p'	9.56	Spike	P	0 - 40
2389580	Delta-BHC	10.2	Spike	P	0 - 37
2389580	Deltamethrin	6.79	Spike	P	0 - 100
2389580	Dichlobenil	14.4	Spike	P	0 - 40
2389580	Dicofol	5.70	Spike	P	0 - 31
2389580	Dieldrin	3.98	Spike	P	0 - 27
2389580	Endosulfan I	4.84	Spike	P	0 - 23
2389580	Endosulfan II	3.56	Spike	P	0 - 28
2389580	Endosulfan Sulfate	6.55	Spike	P	0 - 38
2389580	Endrin	5.56	Spike	P	0 - 63
2389580	Endrin Aldehyde	7.70	Spike	P	0 - 60
2389580	Endrin Ketone	7.31	Spike	P	0 - 37
2389580	Esfenvalerate	5.88	Spike	P	0 - 52
2389580	Ethalfuralin	6.78	Spike	P	0 - 23
2389580	Fenpropathrin	1.80	Spike	P	0 - 32
2389580	Gamma-BHC	6.28	Spike	P	0 - 17
2389580	Gamma-Chlordane	1.81	Spike	P	0 - 40
2389580	Heptachlor	11.9	Spike	P	0 - 29
2389580	Heptachlor Epoxide	4.94	Spike	P	0 - 25
2389580	Hexachlorobenzene	23.6	Spike	P	0 - 36
2389580	Kepone	5.94	Spike	P	0 - 93
2389580	Lambda-Cyhalothrin	5.63	Spike	P	0 - 55
2389580	Methoprene	3.96	Spike	P	0 - 53
2389580	Methoxychlor	12.9	Spike	P	0 - 29
2389580	MGK-264	5.46	Spike	P	0 - 35
2389580	Mirex	1.13	Spike	P	0 - 46
2389580	Oxychlordane	3.01	Spike	P	0 - 29
2389580	Permethrin	6.56	Spike	P	0 - 44
2389580	Phenothrin	0.768	Spike	P	0 - 56
2389580	Piperonyl Butoxide	8.01	Spike	P	0 - 100
2389580	Prallethrin	8.15	Spike	P	0 - 42

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P426421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389580	Tau-Fluvalinate	6.33	Spike	P	0 - 54
2389580	Tetramethrin	4.46	Spike	P	0 - 51
2389580	Trans-Nonachlor	2.57	Spike	P	0 - 37
2389580	Triclosan Methyl	4.72	Spike	P	0 - 31
2389580	Trifluralin	1.39	Spike	P	0 - 30
2389595	PCB-1016	7.10	Spike	P	0 - 32
2389595	PCB-1260	2.90	Spike	P	0 - 31

Reference Method: EPA 8276
Batch ID: P426421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389595	Chlordane	1.81	Spike	P	0 - 25
2389595	Toxaphene	5.98	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P426216

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389131	Acesulfame K	6.12	Spike	P	0 - 30
2389131	AMPA	7.93	Spike	P	0 - 30
2389131	Endothall	7.84	Spike	P	0 - 30
2389131	Glufosinate	3.56	Spike	P	0 - 30
2389131	Glyphosate	3.84	Spike	P	0 - 30
2389131	Sucralose	6.93	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P426469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390647	2,4-D	12.5	Spike	P	0 - 30
2390647	2,4,5-T	0.264	Spike	P	0 - 30
2390647	Acetaminophen	3.77	Spike	P	0 - 30
2390647	Acetamiprid	9.88	Spike	P	0 - 30
2390647	Bentazon	0.234	Spike	P	0 - 30
2390647	Benzovindiflupyr	0.827	Spike	P	0 - 30
2390647	Carbamazepine	3.60	Spike	P	0 - 30
2390647	Clothianidin	4.19	Spike	P	0 - 30
2390647	Dinotefuran	0.234	Spike	P	0 - 30
2390647	Diuron	2.07	Spike	P	0 - 30
2390647	Fenuron	2.70	Spike	P	0 - 30
2390647	Fluridone	8.10	Spike	P	0 - 30
2390647	Hydrocodone	1.12	Spike	P	0 - 30
2390647	Ibuprofen	20.2	Spike	P	0 - 30
2390647	Imazapyr	6.28	Spike	P	0 - 30
2390647	Imidacloprid	5.33	Spike	P	0 - 30
2390647	Linuron	1.28	Spike	P	0 - 30
2390647	Mandestrobin	12.1	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P426469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2390647	MCP	8.21	Spike	P	0 - 30
2390647	Naproxen	12.4	Spike	P	0 - 30
2390647	Primidone	0.572	Spike	P	0 - 30
2390647	Pyraclostrobin	0.485	Spike	P	0 - 30
2390647	Silvex	4.93	Spike	P	0 - 30
2390647	Thiamethoxam	3.22	Spike	P	0 - 30
2390647	Tolfenpyrad	3.12	Spike	P	0 - 30
2390647	Triclopyr	0.455	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P426586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2391073	Afidopyropen	59.2	Spike	F	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P426594

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389872	Total Alkalinity	0.146	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P426801

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389380	TDS	4.49	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P426598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389872	Fluoride	0.482	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P426788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2389629	Organic Carbon	0.996	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2389682
Field Sample ID: G3SD0201

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	63.0	P	29 - 130
EPA 8270E	Decachlorobiphenyl	66.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	30.0	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	40.7	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	46.5	P	30 - 101
EPA 8276	PCNB	63.5	P	48 - 121

Lab Sample ID: 2389683
Field Sample ID: G3SD0133

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	63.6	P	29 - 130
EPA 8270E	Decachlorobiphenyl	65.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	58.9	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	58.6	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	49.9	P	30 - 101
EPA 8276	PCNB	70.3	P	48 - 121

Lab Sample ID: 2389684
Field Sample ID: G3SD0201

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.5	P	30 - 160
EPA 8321B	2,4-D-d3	89.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	117	P	30 - 160
EPA 8321B	Acetaminophen-d4	121	P	30 - 160
EPA 8321B	Carbamazepine-d10	49.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	50.9	P	30 - 160
EPA 8321B	Diuron-d6	39.1	P	30 - 160
EPA 8321B	Diuron-d6	49.5	P	30 - 160
EPA 8321B	Endothall-d6	128	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	90.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	56.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	74.3	P	30 - 160
EPA 8321B	Primidone-d5	96.4	P	30 - 160
EPA 8321B	Primidone-d5	59.2	P	30 - 160
EPA 8321B	Sucralose-d6	118	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A117629

Included Lab Sample IDs: 2389676

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

Reference Method: DEP SOP: NU-094-1

Run ID: A117631

Included Lab Sample IDs: 2389674

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A117632

Included Lab Sample IDs: 2389674, 2389676

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

Reference Method: EPA 8321B

Run ID: A117674

Included Lab Sample IDs: 2389684

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	106	97.9	P/P	60 - 160
Endothall	108	105	P/P	60 - 160
Glufosinate	93.9	93.6	P/P	60 - 160
Glyphosate	103	107	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A117677

Included Lab Sample IDs: 2389684

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	119	117	P/P	60 - 160
Sucralose	108	108	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A117687

Included Lab Sample IDs: 2389674, 2389676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	95.6	96.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A117738

Included Lab Sample IDs: 2389675, 2389677

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A117755

Included Lab Sample IDs: 2389675, 2389677

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

Reference Method: SM 2320 B-2011

Run ID: A117758

Included Lab Sample IDs: 2389674, 2389676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.0	96.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A117758

Included Lab Sample IDs: 2389674, 2389676

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A117799

Included Lab Sample IDs: 2389675, 2389677

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

Reference Method: EPA 8276

Run ID: A117816

Included Lab Sample IDs: 2389682, 2389683

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.6		P	80 - 120
Toxaphene	95.1		P	80 - 120

Reference Method: EPA 8270E

Run ID: A117817

Included Lab Sample IDs: 2389682, 2389683

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.1		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	95.3		P	80 - 120
Beta-Cyfluthrin	93.7		P	80 - 120
Bifenthrin	96.2		P	80 - 120
Carbophenothion	98.8		P	80 - 120
Chlorothalonil	107		P	80 - 120
Cis-Nonachlor	103		P	80 - 120
Cypermethrin	92.8		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	97.2		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	99.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A117817

Included Lab Sample IDs: 2389682, 2389683

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Deltamethrin	96.8		P	80 - 120
Dichlobenil	98.3		P	80 - 120
Dicofol	98.1		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	103		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	96.6		P	80 - 120
Endrin	103		P	80 - 120
Endrin Aldehyde	103		P	80 - 120
Endrin Ketone	129*		F	80 - 120
Esfenvalerate	99.3		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	97.1		P	80 - 120
Gamma-BHC	104		P	80 - 120
Gamma-Chlordane	100		P	80 - 120
Heptachlor	97.8		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	99.3		P	80 - 120
Kepone	84.9		P	80 - 120
Lambda-Cyhalothrin	97.1		P	80 - 120
Methoprene	101		P	80 - 120
Methoxychlor	99.5		P	80 - 120
MGK-264	98.7		P	80 - 120
Mirex	100		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	98.0		P	80 - 120
Phenothrin	94.7		P	80 - 120
Piperonyl Butoxide	102		P	80 - 120
Prallethrin	99.9		P	80 - 120
Tau-Fluvalinate	95.8		P	80 - 120
Tetramethrin	102		P	80 - 120
Trans-Nonachlor	104		P	80 - 120
Triclosan Methyl	104		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A117833

Included Lab Sample IDs: 2389674, 2389676

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfate	102	105	P/P	90 - 110
Sulfate	105	103	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A117844

Included Lab Sample IDs: 2389675, 2389677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.4	95.4	P/P	90 - 110
Organic Carbon	95.4	96.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A117849
Included Lab Sample IDs: 2389684

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.1	96.1	P/P	50 - 150
2,4,5-T	82.1	99.8	P/P	50 - 150
Acetaminophen	116	126	P/P	60 - 160
Acetamiprid	99.0	99.0	P/P	50 - 150
Bentazon	121	113	P/P	50 - 160
Benzovindiflupyr	106	104	P/P	50 - 150
Carbamazepine	102	103	P/P	60 - 150
Clothianidin	93.6	100	P/P	60 - 150
Dinotefuran	112	114	P/P	50 - 150
Diuron	110	114	P/P	60 - 160
Fenuron	98.6	104	P/P	60 - 150
Fluridone	97.8	114	P/P	60 - 160
Hydrocodone	105	101	P/P	60 - 150
Ibuprofen	122	60.3	P/P	50 - 160
Imazapyr	98.3	94.8	P/P	50 - 150
Imidacloprid	98.3	94.5	P/P	60 - 150
Linuron	100	108	P/P	60 - 150
Mandestrobin	99.1	91.5	P/P	50 - 150
MCPP	99.7	103	P/P	50 - 150
Naproxen	95.7	127	P/P	50 - 160
Primidone	83.2	86.5	P/P	60 - 150
Pyraclostrobin	108	105	P/P	60 - 150
Silvex	92.8	88.5	P/P	50 - 150
Thiamethoxam	103	105	P/P	50 - 150
Tolfenpyrad	97.2	99.1	P/P	60 - 150
Triclopyr	103	90.7	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A117850
Included Lab Sample IDs: 2389684

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	112	96.3	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A117867
Included Lab Sample IDs: 2389682, 2389683

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	96.6		P	80 - 120
PCB-1260	97.9		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A117914
Included Lab Sample IDs: 2389675, 2389677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	92.6	95.8	P/P	90 - 110

Quality Assurance Report

Calibration Verification

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
DEP SOP: NU-094-1	Color (true)	101			2.09	
	Color (true)	101			0.730	
EPA 180.1 Rev. 2.0	Turbidity	101			2.37	
EPA 300.0 Rev. 2.1	Chloride	94.5	94.4	93.8	0.153	
	Sulfate	107	99.5	105	2.75	
EPA 350.1 Rev. 2.0	Ammonia-N	102	101	101		0.0
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	104	111		4.71
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	104	101	100		0.496
EPA 365.1 Rev. 2.0	Total-P	102	102	100		1.87
EPA 8270E	Aldrin	49.1	53.9	58.1		7.51
	Alpha-BHC	73.8	67.0	70.5		5.08
	Alpha-Chlordane	69.9	79.0	81.0		2.53
	Beta-BHC	78.4	68.7	83.9		19.8
	Beta-Cyfluthrin	78.4	93.3	98.3		5.27
	Bifenthrin	63.1	81.6	78.0		4.43
	Carbophenothion	68.6	80.6	80.1		0.643
	Chlorothalonil	91.3	86.4	108		22.1
	Cis-Nonachlor	65.5	76.7	75.8		1.17
	Cypermethrin	72.5	92.6	88.5		4.63
	Dacthal	78.7	83.0	88.5		6.38
	DDD-p,p'	65.1	80.5	74.0		8.37
	DDE-p,p'	67.5	78.5	77.2		1.59
	DDT-p,p'	65.4	70.6	77.6		9.56
	Delta-BHC	82.4	86.0	95.2		10.2
	Deltamethrin	90.7	113	121		6.79
	Dichlobenil	66.4	43.3	50.0		14.4
	Dicofol	67.4	75.2	79.7		5.70
	Dieldrin	73.4	85.8	82.4		3.98
	Endosulfan I	70.9	81.7	85.8		4.84
	Endosulfan II	80.0	85.6	88.7		3.56
	Endosulfan Sulfate	79.1	76.3	81.5		6.55
	Endrin	72.3	82.5	87.2		5.56
	Endrin Aldehyde	73.7	65.9	71.1		7.70
	Endrin Ketone	67.1	68.9	74.1		7.31
	Esfenvalerate	80.9	99.3	105		5.88
	Ethalfuralin	68.0	66.8	71.4		6.78
	Fenpropathrin	76.7	88.2	86.6		1.80
	Gamma-BHC	82.0	75.9	80.8		6.28
	Gamma-Chlordane	65.0	75.5	76.8		1.81
	Heptachlor	57.2	58.3	65.6		11.9
	Heptachlor Epoxide	70.7	79.1	83.1		4.94
	Hexachlorobenzene	57.8	44.4	56.3		23.6
	Kepone	55.3	78.3	83.1		5.94
	Lambda-Cyhalothrin	40.3	53.3	50.4		5.63
	Methoprene	65.5	74.6	77.6		3.96
	Methoxychlor	73.5	79.9	90.9		12.9
	MGK-264	66.8	77.7	73.6		5.46
	Mirex	59.1	70.8	70.0		1.13
	Oxychlordane	63.4	73.4	75.7		3.01
	PCB-1016	70.6	54.0	58.0		7.10
	PCB-1260	70.8	48.6	50.0		2.90
	Permethrin	45.3	59.0	55.3		6.56
	Phenothrin	62.2	76.5	77.1		0.768
	Piperonyl Butoxide	81.8	92.5	85.4		8.01

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Prallethrin	65.2	61.2	66.4			8.15
	Tau-Fluvalinate	76.8	92.4	98.5			6.33
	Tetramethrin	101	109	114			4.46
	Trans-Nonachlor	63.5	82.2	80.1			2.57
	Triclosan Methyl	74.8	82.0	86.0			4.72
EPA 8276	Trifluralin	67.0	71.0	72.0			1.39
	Chlordane	79.1	59.5	60.6			1.81
	Toxaphene	85.0	40.7	45.2			5.98
EPA 8321B	2,4-D	122	97.0	110			12.5
	2,4,5-T	91.9	98.0	98.3			0.264
	Acesulfame K	112	122	115			6.12
	Acetaminophen	113	114	118			3.77
	Acetamiprid	88.1	53.6	59.2			9.88
	Afidopyropen	60.2	73.1	39.7			59.2
	AMPA	102	73.1	67.5			7.93
	Bentazon	122	78.7	78.8			0.234
	Benzovindiflupyr	89.4	75.4	76.0			0.827
	Carbamazepine	85.4	58.2	60.3			3.60
	Clothianidin	87.3	77.9	81.3			4.19
	Dinotefuran	108	95.9	96.1			0.234
	Diuron	81.4	49.0	48.0			2.07
	Endothall	117	114	106			7.84
	Fenuron	91.3	56.5	58.0			2.70
	Fluridone	77.6	55.8	51.4			8.10
	Glufosinate	105	76.6	79.4			3.56
	Glyphosate	104	97.1	101			3.84
	Hydrocodone	86.6	73.8	74.6			1.12
	Ibuprofen	81.5	72.2	88.4			20.2
	Imazapyr	98.5	98.9	106			6.28
	Imidacloprid	104	101	106			5.33
	Linuron	74.9	62.1	61.3			1.28
	Mandestrobin	85.5	68.3	77.1			12.1
	MCPP	107	94.6	103			8.21
	Naproxen	110	61.4	69.5			12.4
	Primidone	91.8	78.9	79.3			0.572
	Pyraclostrobin	81.1	70.8	71.2			0.485
	Silvex	106	103	109			4.93
	Sucralose	108	98.2	105			6.93
	Thiamethoxam	97.0	84.1	81.4			3.22
	Tolfenpyrad	58.8	52.6	51.0			3.12
	Triclopyr	106	104	104			0.455
SM 2320 B-2011	Total Alkalinity	97.8				0.146	
SM 2540 C-2015	TDS	94.2				4.49	
SM 2540 D-2015	TSS	93.3					
SM 4500-F- C-2011	Fluoride	100	99.9	99.3			0.482
SM 5310 B-2011	Organic Carbon	94.1	94.5	95.9			0.996

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2389674, 2389676
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2389674, 2389676
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2389674, 2389676

Reference Method Descriptions

Method	Description	Associated Samples
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2389674, 2389676
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2389675, 2389677
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2389675, 2389677
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2389675, 2389677
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2389675, 2389677
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2389682, 2389683
EPA 8270E	PCBs in water matrices by GC/MS/MS	2389682, 2389683
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2389682, 2389683
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2389684
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2389674, 2389676
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2389674, 2389676
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2389674, 2389676
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2389674, 2389676
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2389675, 2389677

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	02/23/2023			02/23/2023 14:21	Alexis Price	2389676
	02/23/2023			02/23/2023 15:19	Alexis Price	2389674
EPA 180.1 Rev. 2.0	02/23/2023			02/23/2023 14:50	Khloe J Berg	2389676
	02/23/2023			02/23/2023 15:20	Khloe J Berg	2389674
EPA 300.0 Rev. 2.1	02/23/2023			03/04/2023 05:54	Judith K. Clark	2389674
	02/23/2023			03/04/2023 06:09	Judith K. Clark	2389676
	02/23/2023			03/08/2023 14:02	Judith K. Clark	2389674
	02/23/2023			03/08/2023 14:47	Judith K. Clark	2389676
EPA 350.1 Rev. 2.0	02/23/2023			03/01/2023 11:43	Khloe J Berg	2389675
	02/23/2023			03/01/2023 11:44	Khloe J Berg	2389677
EPA 351.2 Rev. 2.0	02/23/2023	03/07/2023 09:18	Simonne.V. Calhoun	03/09/2023 18:01	Judith K. Clark	2389675
	02/23/2023	03/07/2023 09:18	Simonne.V. Calhoun	03/09/2023 18:02	Judith K. Clark	2389677
EPA 353.2 Rev. 2.0	02/23/2023			03/01/2023 09:47	Beverly Y. Sanders	2389675
	02/23/2023			03/01/2023 09:48	Beverly Y. Sanders	2389677
EPA 365.1 Rev. 2.0	02/23/2023	02/28/2023 17:21	Adam P Silver	03/04/2023 09:37	James L Waggeberby	2389675
	02/23/2023	02/28/2023 17:21	Adam P Silver	03/04/2023 09:38	James L Waggeberby	2389677
EPA 8270E	02/23/2023	02/28/2023 09:00	Julie Wi	03/02/2023 21:07	Vandana T. Nagar	2389682
	02/23/2023	02/28/2023 09:00	Julie Wi	03/02/2023 21:36	Vandana T. Nagar	2389683
	02/23/2023	02/28/2023 09:00	Julie Wi	03/02/2023 23:38	Vandana T. Nagar	2389682
	02/23/2023	02/28/2023 09:00	Julie Wi	03/03/2023 00:08	Vandana T. Nagar	2389683
EPA 8276	02/23/2023	02/28/2023 09:00	Julie Wi	03/04/2023 12:26	Lipi Saha	2389682
	02/23/2023	02/28/2023 09:00	Julie Wi	03/04/2023 13:22	Lipi Saha	2389683
EPA 8321B	02/23/2023	02/24/2023 10:00	Manjita Shrestha	02/24/2023 14:03	Manjita Shrestha	2389684
	02/23/2023	02/24/2023 10:00	Manjita Shrestha	02/24/2023 20:26	Manjita Shrestha	2389684
	02/23/2023	03/01/2023 09:00	Hoor Shaik	03/01/2023 18:24	Juyoung Kim	2389684
	02/23/2023	03/03/2023 09:00	Hoor Shaik	03/04/2023 00:53	Juyoung Kim	2389684
SM 2320 B-2011	02/23/2023			03/02/2023 01:01	Dale L. Simmons	2389674
	02/23/2023			03/02/2023 01:14	Dale L. Simmons	2389676
SM 2540 C-2015	02/23/2023			02/27/2023 16:17	Yijie Li	2389674, 2389676
SM 2540 D-2015	02/23/2023			02/27/2023 16:17	Yijie Li	2389674, 2389676
SM 4500-F- C-2011	02/23/2023			03/02/2023 01:01	Dale L. Simmons	2389674
	02/23/2023			03/02/2023 01:14	Dale L. Simmons	2389676
SM 5310 B-2011	02/23/2023			03/06/2023 19:06	Elise M. Gillis	2389675
	02/23/2023			03/06/2023 19:47	Elise M. Gillis	2389677