

Chemical Analysis Report

WAS-SECT-2018-06-28-01

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

Event Description: **Salem, Chicken, Godby, Sand, 8, Black, CDD, Swamp, Harbinwood**
Request ID: **RQ-2018-05-21-16**
Customer: **WAS-SECT**
Project ID: **SMP**

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Date Certified: 26-JUL-2018 14:30



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 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: CENTRAL DRAINAGE DITCH DOWNSTREAM OF ORANGE AVE **Collection Date/Time: 06/28/2018 10:02**

Field ID: G1WA0026

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003938	EPA 180.1 Rev. 2.0	Turbidity	69		NTU	P347706	
	EPA 300.0 Rev. 2.1	Chloride	3.3		mg Cl/L	P347953	
		Sulfate	2.7		mg SO4/L	P347959	
	SM 2120 B	Color (true)	11	A	PCU	P347694	
	SM 2320 B-97	Total Alkalinity	56		mg CaCO3/L	P348098	
	SM 2540 C-97	TDS	82		mg/L	P347932	
	SM 2540 D-97	TSS	56		mg/L	P347876	
	SM 4500 F-C-97	Fluoride	0.088	I	mg F/L	P348102	
2003945	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P348267	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.79		mg N/L	P348137	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P347830	
	EPA 365.1 Rev. 2.0	Total-P	0.30		mg P/L	P347886	
	SM 5310 B-00	Organic Carbon	4.3		mg C/L	P348328	
2003952	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.057		mg P/L	P347921	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: CENTRAL DRAINAGE DITCH DOWNSTREAM OF ORANGE AVE **Collection Date/Time: 06/28/2018 10:02**

Field ID: G1WA0026

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003983	EPA 200.7 Rev. 4.4	Calcium	20.3		mg/L	P347853	
		Iron	1.73E+03		ug/L	P347853	
		Magnesium	3.35		mg/L	P347853	
		Potassium	1.6		mg/L	P347853	
		Sodium	2.2		mg/L	P347853	
	EPA 200.8 Rev. 5.4	Zinc	9.2	I	ug/L	P347853	
		Arsenic	1.53		ug/L	P347853	
		Cadmium	0.020	U	ug/L	P347853	
		Chromium	3.1		ug/L	P347853	
		Copper	4.82		ug/L	P347853	
		Lead	2.77		ug/L	P347853	
		Nickel	0.87		ug/L	P347853	
		Silver	0.010	U	ug/L	P347853	

Ref. Method and Comment:
 EPA 200.8 Rev. 5.4: The lead result was confirmed on 07/11/2018.

Sample Location: CENTRAL DRAINAGE DITCH DOWNSTREAM OF ORANGE AVE **Collection Date/Time: 06/28/2018 10:02**

Field ID: G1WA0026

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003979	EPA 8321B	Aldicarb	0.020	U	ug/L	P347578	
		Aldicarb Sulfone	0.0020	U	ug/L	P347578	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P347578	MS
		Carbaryl	0.0020	U	ug/L	P347578	
		Carbofuran	0.0020	U	ug/L	P347578	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P347578	
		Methiocarb	0.0020	U	ug/L	P347578	
		Methomyl	0.0026	I	ug/L	P347578	
		Oxamyl	0.0020	U	ug/L	P347578	
		Propoxur	0.0020	U	ug/L	P347578	
2003980		2,4-D	0.11		ug/L	P347578	
		Sucralose**	0.074		ug/L	P347494	
		Bentazon	9.5E-04	I	ug/L	P347578	
		MCP	0.016		ug/L	P347578	MS
		Triclopyr**	0.0040	U	ug/L	P347578	MS
		Imidacloprid	0.022		ug/L	P347578	
		Diuron	0.025		ug/L	P347578	
		Pyraclostrobin**	0.0020	U	ug/L	P347578	
		Primidone**	0.0040	U	ug/L	P347578	
		Linuron	0.0040	U	ug/L	P347578	
		Acetaminophen**	0.016	I	ug/L	P347578	
		Fenuron	0.016	U	ug/L	P347578	
		Imazapyr**	0.020		ug/L	P347578	
		Carbamazepine**	4.0E-04	U	ug/L	P347578	
		Fluridone**	0.010		ug/L	P347578	
		Hydrocodone**	8.0E-04	U	ug/L	P347578	
		Glyphosate**	1.7		ug/L	P347494	
		AMPA**	0.53		ug/L	P347494	
		Endothall**	0.10	UQ	ug/L	P347494	
		Glufosinate**	0.10	U	ug/L	P347494	
2003981	EPA 8270D	Aldrin	4.2	U	ng/L	P347710	
		Alpha-BHC	2.1	U	ng/L	P347710	
		Beta-BHC	4.2	UJ	ng/L	P347710	RPD
		Delta-BHC	4.2	U	ng/L	P347710	
		Gamma-BHC	4.2	U	ng/L	P347710	
		Carbophenothion	4.2	U	ng/L	P347710	
		Chlorothalonil	2.1	U	ng/L	P347710	
		Cypermethrin	21	U	ng/L	P347710	
		DDD-p,p'	3.1	U	ng/L	P347710	
		DDE-p,p'	3.1	U	ng/L	P347710	
		DDT-p,p'	3.1	U	ng/L	P347710	
		Dieldrin	4.2	U	ng/L	P347710	
		Endosulfan I	4.2	U	ng/L	P347710	

Field ID: G1WA0026

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003981	EPA 8270D	Endosulfan II	4.2	U	ng/L	P347710	
		Endosulfan Sulfate	2.1	U	ng/L	P347710	
		Endrin	2.1	U	ng/L	P347710	
		Endrin Aldehyde	2.1	U	ng/L	P347710	
		Heptachlor	1.6	U	ng/L	P347710	
		Heptachlor Epoxide	2.1	U	ng/L	P347710	
		Methoxychlor	4.2	U	ng/L	P347710	
		Mirex	2.1	U	ng/L	P347710	
		Permethrin	10	U	ng/L	P347710	
		Trifluralin	1.0	U	ng/L	P347710	
		Alpha-Chlordane	1.0	U	ng/L	P347710	
		Gamma-Chlordane	1.0	U	ng/L	P347710	
		Endrin Ketone	2.1	U	ng/L	P347710	
		Dicofol	31	U	ng/L	P347710	
		Chlordane	2.6	U	ng/L	P347710	
		Toxaphene	31	U	ng/L	P347710	
		Alachlor	0.25	U	ng/L	P347893	
		Ametryn	0.32	U	ng/L	P347893	
		Atrazine	11		ng/L	P347893	
2003982	EPA 8270D	Atrazine Desethyl	2.6	I	ng/L	P347893	
		Azinphos Methyl	2.2	U	ng/L	P347893	
		Bromacil	0.49	U	ng/L	P347893	
		Butylate	0.39	U	ng/L	P347893	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P347893	
		Chlorpyrifos Methyl	0.098	U	ng/L	P347893	
		Demeton	2.0	U	ng/L	P347893	
		Diazinon	0.12	U	ng/L	P347893	
		Disulfoton	0.49	U	ng/L	P347893	
		EPTC	1.2	U	ng/L	P347893	
		Ethion	0.15	U	ng/L	P347893	
		Ethoprop	0.098	U	ng/L	P347893	
		Fenamiphos	0.25	U	ng/L	P347893	RPD
		Fipronil	4.4		ng/L	P347893	
		Fipronil Sulfide	0.98		ng/L	P347893	
		Fipronil Sulfone	2.3		ng/L	P347893	
		Hexazinone	0.49	U	ng/L	P347893	
		Malathion	0.34	U	ng/L	P347893	
		Metribuzin	0.20	U	ng/L	P347893	
		Mevinphos	0.49	U	ng/L	P347893	
		Molinate	0.29	U	ng/L	P347893	
		Norflurazon	0.49	U	ng/L	P347893	
		Pendimethalin	0.98	U	ng/L	P347893	
		Phorate	0.25	U	ng/L	P347893	
		Prometon	0.88	U	ng/L	P347893	
		Prometryn	0.20	U	ng/L	P347893	

Field ID: G1WA0026

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003982	EPA 8270D	Simazine	0.72	I	ng/L	P347893	
		Terbufos	0.098	U	ng/L	P347893	
		Terbuthylazine	0.42	U	ng/L	P347893	
		Fonofos	0.20	U	ng/L	P347893	
		Metalaxyl	0.81	I	ng/L	P347893	
		Metolachlor	2.6		ng/L	P347893	
		Acetochlor	1.1		ng/L	P347893	
		Cyanazine	0.49	U	ng/L	P347893	
		Parathion Ethyl	0.25	U	ng/L	P347893	
		Parathion Methyl	0.25	U	ng/L	P347893	

Ref. Method and Comment:

EPA 8321B: Q - Sample analysis for endothall expired due to technical difficulties.

EPA 8270D: Refer to the narrative for an explanation of QC Codes.

Sample Location: GODBY DRAINAGE AT PROGRESS DR

Collection Date/Time: 06/28/2018 10:46

Field ID: G1WA0061

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003939	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P347705	
	EPA 300.0 Rev. 2.1	Chloride	4.4		mg Cl/L	P347953	
		Sulfate	1.2		mg SO4/L	P347959	
	SM 2120 B	Color (true)	28		PCU	P347693	
	SM 2320 B-97	Total Alkalinity	72		mg CaCO3/L	P348098	
	SM 2540 C-97	TDS	79		mg/L	P347932	
	SM 2540 D-97	TSS	2	U	mg/L	P347876	
	SM 4500 F-C-97	Fluoride	0.11		mg F/L	P348102	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.088		mg N/L	P348267	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.36		mg N/L	P348137	MS
2003946	EPA 353.2 Rev. 2.0	NO2NO3-N	0.022		mg N/L	P347830	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P347886	
	SM 5310 B-00	Organic Carbon	4.1		mg C/L	P348373	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.12		mg P/L	P347921	
	dissolved						

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: SWAMP CREEK UPSTREAM OF RAILROAD

Collection Date/Time: 06/28/2018 12:00

Field ID: G1WA0052

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003940	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P347705	
	EPA 300.0 Rev. 2.1	Chloride	7.1		mg Cl/L	P347953	
		Sulfate	0.66		mg SO4/L	P347959	
	SM 2120 B	Color (true)	150		PCU	P347693	
	SM 2320 B-97	Total Alkalinity	26		mg CaCO3/L	P348098	
	SM 2540 C-97	TDS	77		mg/L	P347932	
	SM 2540 D-97	TSS	6	I	mg/L	P347876	
	SM 4500 F-C-97	Fluoride	0.15		mg F/L	P348102	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.032		mg N/L	P348267	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.49		mg N/L	P348137	MS
2003947	EPA 353.2 Rev. 2.0	NO2NO3-N	0.24		mg N/L	P347830	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P347886	
	SM 5310 B-00	Organic Carbon	9.6		mg C/L	P348373	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.082		mg P/L	P347921	
	dissolved						

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: CHICKEN BRANCH AT OLD PLANK RD

Collection Date/Time: 06/28/2018 07:38

Field ID: G1WA0031

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003977	EPA 8321B	2,4-D	0.0020	U	ug/L	P347578	
		Sucralose**	0.010	U	ug/L	P347494	
		Bentazon	8.0E-04	U	ug/L	P347578	
		MCPD	0.0020	U	ug/L	P347578	MS
		Triclopyr**	0.0040	U	ug/L	P347578	MS
		Imidacloprid	0.0020	U	ug/L	P347578	
		Diuron	0.0020	U	ug/L	P347578	
		Pyraclostrobin**	0.0020	U	ug/L	P347578	
		Primidone**	0.0040	U	ug/L	P347578	
		Linuron	0.0040	U	ug/L	P347578	
		Acetaminophen**	0.0080	U	ug/L	P347578	
		Fenuron	0.016	U	ug/L	P347578	
		Imazapyr**	0.0057	I	ug/L	P347578	
		Carbamazepine**	4.0E-04	U	ug/L	P347578	
		Fluridone**	4.0E-04	U	ug/L	P347578	
		Hydrocodone**	8.0E-04	U	ug/L	P347578	

Sample Location: EIGHT MILE POND MIDDLE

Collection Date/Time: 06/28/2018 08:10

Field ID: G1WA0024

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003941	EPA 180.1 Rev. 2.0	Turbidity	2.4		NTU	P347705	
	EPA 300.0 Rev. 2.1	Chloride	1.9		mg Cl/L	P347953	
		Sulfate	0.92		mg SO4/L	P347959	
	SM 2120 B	Color (true)	46	A	PCU	P347693	
	SM 2320 B-97	Total Alkalinity	35		mg CaCO3/L	P348196	RPD
	SM 2540 C-97	TDS	56		mg/L	P347932	
	SM 2540 D-97	TSS	4	I	mg/L	P347876	
	SM 4500 F-C-97	Fluoride	0.068	I	mg F/L	P348103	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.019		mg N/L	P348351	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.49		mg N/L	P348137	MS
2003948	EPA 353.2 Rev. 2.0	NO2NO3-N	0.030		mg N/L	P347830	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P347886	
	SM 5310 B-00	Organic Carbon	6.4		mg C/L	P348328	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.069		mg P/L	P347921	
	dissolved						

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: BLACK CREEK UPSTREAM OF BLOXHAM CUTOFF

Collection Date/Time: 06/28/2018 09:25

Field ID: G1WA0023

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003942	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P347705	
	EPA 300.0 Rev. 2.1	Chloride	4.0		mg Cl/L	P347953	
		Sulfate	0.20	U	mg SO4/L	P347959	
	SM 2120 B	Color (true)	560		PCU	P347693	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P348196	RPD
	SM 2540 C-97	TDS	116		mg/L	P347932	
	SM 2540 D-97	TSS	2	U	mg/L	P347877	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P348103	
2003949	EPA 350.1 Rev. 2.0	Ammonia-N	0.042		mg N/L	P348351	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P348137	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P347830	
	EPA 365.1 Rev. 2.0	Total-P	0.030		mg P/L	P347886	
	SM 5310 B-00	Organic Carbon	48		mg C/L	P348328	
2003956	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P347921	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: SAND POND MIDDLE

Collection Date/Time: 06/28/2018 08:55

Field ID: G1WA0044

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003943	EPA 180.1 Rev. 2.0	Turbidity	2.7		NTU	P347705	
	EPA 300.0 Rev. 2.1	Chloride	2.3	A	mg Cl/L	P347954	
		Sulfate	0.24	IA	mg SO4/L	P347960	
	SM 2120 B	Color (true)	27		PCU	P347693	
	SM 2320 B-97	Total Alkalinity	0.93	I	mg CaCO3/L	P348196	RPD
	SM 2540 C-97	TDS	23	I	mg/L	P347932	
	SM 2540 D-97	TSS	6	I	mg/L	P347877	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P348103	
2003950	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P348351	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.74		mg N/L	P348137	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P347831	
	EPA 365.1 Rev. 2.0	Total-P	0.021		mg P/L	P347887	
	SM 5310 B-00	Organic Carbon	9.7		mg C/L	P348328	
2003957	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P347922	

Ref. Method and Comment:

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

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: HARBINWOOD ESTATES DRAIN

Collection Date/Time: 06/28/2018 13:40

Field ID: G1WA0034

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003944	EPA 180.1 Rev. 2.0	Turbidity	3.7	A	NTU	P347706	
	EPA 300.0 Rev. 2.1	Chloride	9.3		mg Cl/L	P347954	
		Sulfate	0.80		mg SO4/L	P347960	
	SM 2120 B	Color (true)	34		PCU	P347693	
	SM 2320 B-97	Total Alkalinity	37		mg CaCO3/L	P348196	RPD
	SM 2540 C-97	TDS	66	A	mg/L	P347933	
	SM 2540 D-97	TSS	5	IA	mg/L	P347877	
	SM 4500 F-C-97	Fluoride	0.14		mg F/L	P348103	
2003951	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P348351	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.47		mg N/L	P348137	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P347831	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P347887	
	SM 5310 B-00	Organic Carbon	5.5		mg C/L	P348374	
2003958	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.068		mg P/L	P347922	

Ref. Method and Comment:

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

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: HARBINWOOD ESTATES DRAIN

Collection Date/Time: 06/28/2018 13:40

Field ID: G1WA0034

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003978	EPA 8321B	2,4-D	0.016		ug/L	P347578	
		Sucralose**	0.23		ug/L	P347494	
		Bentazon	8.0E-04	U	ug/L	P347578	
		MCP	0.0064	I	ug/L	P347578	MS
		Triclopyr**	0.0040	U	ug/L	P347578	MS
		Imidacloprid	0.029		ug/L	P347578	
		Diuron	0.0020	U	ug/L	P347578	
		Pyraclostrobin**	0.0020	U	ug/L	P347578	
		Primidone**	0.0040	U	ug/L	P347578	
		Linuron	0.0040	U	ug/L	P347578	
		Acetaminophen**	0.0080	U	ug/L	P347578	
		Fenuron	0.016	U	ug/L	P347578	
		Imazapyr**	0.17		ug/L	P347578	
		Carbamazepine**	4.0E-04	U	ug/L	P347578	
		Fluridone**	4.0E-04	U	ug/L	P347578	
		Hydrocodone**	8.0E-04	U	ug/L	P347578	

Sample Location: HARBINWOOD ESTATES DRAIN

Collection Date/Time: 06/28/2018 13:40

Field ID: G1WA0034

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2003984	EPA 200.7 Rev. 4.4	Calcium	11.2		mg/L	P347853	
		Iron	540		ug/L	P347853	
		Magnesium	3.82		mg/L	P347853	
		Potassium	1.1	I	mg/L	P347853	
		Sodium	5.3		mg/L	P347853	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P347853	
		Arsenic	1.26		ug/L	P347853	
		Cadmium	0.020	U	ug/L	P347853	
		Chromium	0.40	U	ug/L	P347853	
		Copper	0.32	I	ug/L	P347853	
		Lead	0.14	I	ug/L	P347853	
		Nickel	0.20	U	ug/L	P347853	
		Silver	0.010	U	ug/L	P347853	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P347705

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P347706

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P347853

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
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P347853

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347953

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347954

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347959

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347960

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348267

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348351

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348137

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P347830

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P347831

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P347886

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P347887

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P347921

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P347922

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8270D

Batch ID: P347710

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	4.0	U	ng/L
Carbophenothion	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	3.0	U	ng/L
DDE-p,p'	3.0	U	ng/L
DDT-p,p'	3.0	U	ng/L
Delta-BHC	4.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Gamma-BHC	4.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Reference Method: EPA 8270D

Batch ID: P347893

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	2.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.50	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D**Batch ID: P347893**

Component	Result	Code	Units
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.25	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276**Batch ID: P347710**

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: EPA 8321B**Batch ID: P347494**

Component	Result	Code	Units
AMPA	0.10	U	ug/L
Endothall	0.10	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: P347578**

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P347578

Component	Result	Code	Units
Aldicarb Sulfoxide	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	4.0E-04	U	ug/L
Hydrocodone	8.0E-04	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B
Batch ID: P347693

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P347694

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P348098

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

Reference Method: SM 2320 B-97
Batch ID: P348196

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

Reference Method: SM 2540 C-97
Batch ID: P347932

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P347933

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P347876

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P347877

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P348102

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P348103

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P348328

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

Reference Method: SM 5310 B-00
Batch ID: P348373

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

Reference Method: SM 5310 B-00
Batch ID: P348374

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P347853

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	108		P	85 - 115
Iron	104		P	85 - 115
Magnesium	108		P	85 - 115
Potassium	102		P	85 - 115
Sodium	104		P	85 - 115
Zinc	99.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P347853

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	96.3		P	85 - 115
Cadmium	95.8		P	85 - 115
Chromium	93.6		P	85 - 115
Copper	94.4		P	85 - 115
Lead	92.3		P	85 - 115
Nickel	96.1		P	85 - 115
Silver	92.6		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P347953

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	95.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P347954

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

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P347959

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	93.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P347960

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	94.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P348267

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P348351

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P348137

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P347830

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P347831

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P347886

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	95.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P347887

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	96.8		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P347921

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P347922

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

Reference Method: EPA 8270D
 Batch ID: P347710

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	46.3	45.8	P/P	24 - 89.0
Alpha-BHC	89.9	84.5	P/P	58 - 117
Alpha-Chlordane	70.8	66.8	P/P	56 - 115
Beta-BHC	84.6	116	P/P	55 - 137

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P347710

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbophenothion	59.4	59.5	P/P	37 - 145
Chlorothalonil	49.5	66.4	P/P	26 - 163
Cypermethrin	75.2	76.1	P/P	42 - 156
DDD-p,p'	87.4	87.6	P/P	59 - 129
DDE-p,p'	74.9	72.2	P/P	52 - 117
DDT-p,p'	86.2	82.7	P/P	48 - 128
Delta-BHC	86.9	113	P/P	59 - 158
Dicofol	77.1	77.3	P/P	19 - 124
Dieldrin	79.8	78.9	P/P	57 - 126
Endosulfan I	79.1	72.9	P/P	59 - 133
Endosulfan II	80.1	81.9	P/P	58 - 148
Endosulfan Sulfate	83.2	81.6	P/P	56 - 135
Endrin	83.3	83.9	P/P	50 - 140
Endrin Aldehyde	79.5	80.4	P/P	47 - 141
Endrin Ketone	86.4	83.6	P/P	63 - 123
Gamma-BHC	96.6	106	P/P	59 - 132
Gamma-Chlordane	67.3	64.6	P/P	55 - 112
Heptachlor	61.4	56.1	P/P	45 - 102
Heptachlor Epoxide	76.6	72.6	P/P	61 - 116
Methoxychlor	92.0	84.2	P/P	60 - 133
Mirex	65.3	62.5	P/P	40 - 98.0
Permethrin	73.8	73.6	P/P	45 - 131
Trifluralin	77.0	70.3	P/P	38 - 179

Reference Method: EPA 8270D

Batch ID: P347893

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	91.7	92.8	P/P	74 - 119
Alachlor	92.1	92.6	P/P	75 - 118
Ametryn	96.3	102	P/P	59 - 137
Atrazine	90.6	93.5	P/P	73 - 120
Atrazine Desethyl	88.2	87.1	P/P	19 - 129
Azinphos Methyl	106	103	P/P	65 - 181
Bromacil	85.5	83.4	P/P	43 - 123
Butylate	43.6	55.1	P/P	28 - 85.0
Chlorpyrifos Ethyl	79.1	90.6	P/P	55 - 112
Chlorpyrifos Methyl	83.4	91.7	P/P	35 - 124
Cyanazine	125	124	P/P	26 - 262
Demeton	69.0	76.7	P/P	43 - 122
Diazinon	99.4	101	P/P	72 - 120
Disulfoton	84.8	86.4	P/P	45 - 137
EPTC	42.5	47.4	P/P	28 - 95.0
Ethion	78.6	74.1	P/P	63 - 127
Ethoprop	76.2	78.9	P/P	63 - 109
Fenamiphos	91.3	91.4	P/P	66 - 136
Fipronil	88.7	84.9	P/P	63 - 126
Fipronil Sulfide	74.3	77.7	P/P	59 - 123
Fipronil Sulfone	73.4	70.7	P/P	56 - 122
Fonofos	82.6	89.6	P/P	64 - 114
Hexazinone	85.6	94.2	P/P	49 - 144
Malathion	78.2	86.5	P/P	68 - 131

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P347893

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metalaxyl	89.9	90.9	P/P	57 - 126
Metolachlor	90.0	90.8	P/P	75 - 118
Metribuzin	112	138	P/P	46 - 169
Mevinphos	65.9	77.1	P/P	34 - 126
Molinate	53.7	60.3	P/P	37 - 101
Norflurazon	87.7	81.7	P/P	63 - 127
Parathion Ethyl	81.6	87.0	P/P	78 - 109
Parathion Methyl	88.5	94.8	P/P	74 - 123
Pendimethalin	101	105	P/P	51 - 130
Phorate	81.3	74.3	P/P	53 - 116
Prometon	83.2	84.7	P/P	66 - 124
Prometryn	89.1	89.9	P/P	66 - 124
Simazine	90.9	97.6	P/P	62 - 134
Terbufos	81.1	89.0	P/P	59 - 115
Terbuthylazine	85.1	88.8	P/P	76 - 113

Reference Method: EPA 8276

Batch ID: P347710

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	75.3	83.1	P/P	47 - 125
Toxaphene	77.1	70.1	P/P	46 - 147

Reference Method: EPA 8321B

Batch ID: P347494

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	94.5		P	40 - 140
Endothall	66.7		P	40 - 140
Glufosinate	102		P	40 - 140
Glyphosate	84.9		P	40 - 140
Sucralose	108		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P347578

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	90.9		P	40 - 150
3-Hydroxycarbofuran	84.0		P	40 - 150
Acetaminophen	87.7		P	30 - 150
Aldicarb	83.1		P	30 - 150
Aldicarb Sulfone	87.2		P	40 - 150
Aldicarb Sulfoxide	87.8		P	40 - 150
Bentazon	88.8		P	30 - 150
Carbamazepine	90.0		P	40 - 150
Carbaryl	74.9		P	40 - 150
Carbofuran	76.2		P	40 - 150
Diuron	80.7		P	40 - 150
Fenuron	94.6		P	40 - 150
Fluridone	93.7		P	40 - 150
Hydrocodone	94.4		P	40 - 150
Imazapyr	82.4		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P347578

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Imidacloprid	95.7		P	40 - 160
Linuron	71.0		P	40 - 150
MCPP	125		P	40 - 150
Methiocarb	64.5		P	40 - 150
Methomyl	91.5		P	40 - 150
Oxamyl	92.0		P	40 - 150
Primidone	86.0		P	40 - 150
Propoxur	79.4		P	40 - 150
Pyraclostrobin	77.2		P	40 - 150
Triclopyr	112		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P347693

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	103		P	85 - 115

Reference Method: SM 2120 B
Batch ID: P347694

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

Reference Method: SM 2320 B-97
Batch ID: P348098

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 107

Reference Method: SM 2320 B-97
Batch ID: P348196

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P348102

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P348103

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P348328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.6		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P348373

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.1		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P348374

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P347853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003929	Calcium	99.5		P	80 - 120
2003929	Iron	103		P	80 - 120
2003929	Magnesium	101		P	80 - 120
2003929	Potassium	101		P	80 - 120
2003929	Sodium	100		P	80 - 120
2003929	Zinc	99.2		P	80 - 120
2004004	Calcium	106	104	P/P	80 - 120
2004004	Iron	103	101	P/P	80 - 120
2004004	Magnesium	106	104	P/P	80 - 120
2004004	Potassium	105	103	P/P	80 - 120
2004004	Sodium	104	100	P/P	80 - 120
2004004	Zinc	101	99.8	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P347853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003929	Arsenic	97.0		P	80 - 120
2003929	Cadmium	100		P	80 - 120
2003929	Chromium	93.6		P	80 - 120
2003929	Copper	91.0		P	80 - 120
2003929	Lead	92.0		P	80 - 120
2003929	Nickel	94.5		P	80 - 120
2003929	Silver	94.4		P	80 - 120
2004004	Arsenic	94.4	95.5	P/P	80 - 120
2004004	Cadmium	95.8	96.2	P/P	80 - 120
2004004	Chromium	94.1	95.7	P/P	80 - 120
2004004	Copper	93.0	93.9	P/P	80 - 120
2004004	Lead	93.2	93.4	P/P	80 - 120
2004004	Nickel	94.9	96.4	P/P	80 - 120
2004004	Silver	92.6	92.4	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347953

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003913	Chloride	93.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347954

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003943	Chloride	96.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347959

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003913	Sulfate	93.7		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347960

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003943	Sulfate	95.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348267

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003870	Ammonia-N	97.9	96.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348351

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003948	Ammonia-N	101	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348137

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2004000	Kjeldahl Nitrogen	83.8	84.1	F/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P347830

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003947	NO2NO3-N	99.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P347831

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003950	NO2NO3-N	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P347886

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003919	Total-P	92.4	94.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P347887

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003951	Total-P	96.8	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P347922

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003957	O-Phosphate-P	90.6	91.8	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P347710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2004495	Aldrin	61.0	54.5	P/P	26 - 96.0
2004495	Alpha-BHC	96.1	96.2	P/P	51 - 123
2004495	Alpha-Chlordane	81.4	68.2	P/P	45 - 120
2004495	Beta-BHC	116	103	P/P	43 - 146
2004495	Carbophenothion	75.1	63.5	P/P	26 - 179
2004495	Chlorothalonil	47.6	39.6	P/P	10 - 215
2004495	Cypermethrin	96.8	91.2	P/P	35 - 169
2004495	DDD-p,p'	96.0	85.2	P/P	49 - 131
2004495	DDE-p,p'	85.9	71.3	P/P	39 - 127
2004495	DDT-p,p'	98.0	95.9	P/P	49 - 120
2004495	Delta-BHC	112	99.4	P/P	49 - 187
2004495	Dicofol	87.9	84.6	P/P	10 - 129
2004495	Dieldrin	101	85.1	P/P	46 - 132
2004495	Endosulfan I	89.9	67.8	P/P	57 - 130
2004495	Endosulfan II	88.5	70.3	P/P	52 - 148
2004495	Endosulfan Sulfate	85.7	86.3	P/P	55 - 129
2004495	Endrin	87.5	79.0	P/P	45 - 133
2004495	Endrin Aldehyde	83.2	66.7	P/P	26 - 140
2004495	Endrin Ketone	99.4	97.5	P/P	60 - 125
2004495	Gamma-BHC	120	93.6	P/P	50 - 145
2004495	Gamma-Chlordane	78.4	66.1	P/P	44 - 118
2004495	Heptachlor	65.2	60.9	P/P	35 - 106
2004495	Heptachlor Epoxide	94.5	81.5	P/P	52 - 123
2004495	Methoxychlor	91.1	94.6	P/P	54 - 132
2004495	Mirex	79.4	76.7	P/P	36 - 107
2004495	Permethrin	98.1	90.3	P/P	47 - 135
2004495	Trifluralin	80.4	83.8	P/P	32 - 228

Reference Method: EPA 8270D

Batch ID: P347893

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003743	Acetochlor	91.7	91.4	P/P	67 - 125
2003743	Alachlor	98.8	93.4	P/P	69 - 123
2003743	Ametryn	101	90.2	P/P	52 - 151
2003743	Atrazine	102	97.7	P/P	71 - 125
2003743	Atrazine Desethyl	73.9	63.1	P/P	10 - 129
2003743	Azinphos Methyl	111	110	P/P	48 - 200
2003743	Bromacil	80.3	68.8	P/P	46 - 130
2003743	Butylate	52.2	56.0	P/P	10 - 85.0
2003743	Chlorpyrifos Ethyl	89.0	89.3	P/P	54 - 115
2003743	Chlorpyrifos Methyl	83.6	83.7	P/P	44 - 117
2003743	Cyanazine	114	89.3	P/P	10 - 262
2003743	Demeton	75.8	77.4	P/P	24 - 145
2003743	Diazinon	107	101	P/P	66 - 129
2003743	Disulfoton	93.3	88.5	P/P	45 - 139
2003743	EPTC	47.3	52.0	P/P	10 - 86.0
2003743	Ethion	69.9	67.8	P/P	59 - 133
2003743	Ethoprop	90.2	82.8	P/P	54 - 116
2003743	Fenamiphos	86.8	123	P/P	55 - 140
2003743	Fipronil	84.3	76.7	P/P	37 - 142
2003743	Fipronil Sulfide	70.0	63.8	P/P	37 - 130

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P347893

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003743	Fipronil Sulfone	62.2	52.3	P/P	18 - 143
2003743	Fonofos	97.0	95.3	P/P	55 - 118
2003743	Hexazinone	94.9	82.9	P/P	62 - 140
2003743	Malathion	75.7	73.4	P/P	64 - 132
2003743	Metalaxyl	89.5	85.7	P/P	55 - 129
2003743	Metolachlor	90.2	87.7	P/P	56 - 137
2003743	Metribuzin	144	139	P/P	16 - 218
2003743	Mevinphos	83.4	83.5	P/P	34 - 129
2003743	Molinate	66.5	67.2	P/P	16 - 99.0
2003743	Norflurazon	66.7	53.1	P/P	43 - 135
2003743	Parathion Ethyl	85.5	79.6	P/P	71 - 112
2003743	Parathion Methyl	91.9	89.3	P/P	65 - 127
2003743	Pendimethalin	112	106	P/P	35 - 159
2003743	Phorate	86.4	91.8	P/P	41 - 129
2003743	Prometon	97.8	95.5	P/P	56 - 140
2003743	Prometryn	95.7	91.8	P/P	65 - 130
2003743	Simazine	101	93.0	P/P	54 - 148
2003743	Terbufos	98.2	94.1	P/P	53 - 126
2003743	Terbuthylazine	93.4	89.1	P/P	73 - 114

Reference Method: EPA 8276

Batch ID: P347710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003981	Chlordane	64.0	63.2	P/P	41 - 134
2003981	Toxaphene	51.2	51.6	P/P	39 - 158

Reference Method: EPA 8321B

Batch ID: P347494

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003557	AMPA	109	101	P/P	40 - 140
2003557	Endothall	90.3	86.7	P/P	40 - 140
2003557	Glufosinate	97.3	103	P/P	40 - 140
2003557	Glyphosate	67.3	70.5	P/P	40 - 140
2003557	Sucralose	110	127	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P347578

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003556	3-Hydroxycarbofuran	83.0	79.8	P/P	40 - 150
2003556	Aldicarb	74.8	69.9	P/P	30 - 150
2003556	Aldicarb Sulfone	93.5	89.1	P/P	40 - 150
2003556	Aldicarb Sulfoxide	38.1	36.2	F/F	40 - 150
2003556	Carbaryl	61.6	62.6	P/P	40 - 150
2003556	Carbofuran	64.0	63.0	P/P	40 - 150
2003556	Methiocarb	61.8	53.8	P/P	40 - 150
2003556	Methomyl	80.6	80.7	P/P	40 - 150
2003556	Oxamyl	84.8	85.5	P/P	40 - 150
2003556	Propoxur	67.8	66.6	P/P	40 - 150
2003741	2,4-D	116	139	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P347578

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003741	Acetaminophen	70.3	71.7	P/P	30 - 150
2003741	Bentazon	39.9	48.0	P/P	30 - 150
2003741	Carbamazepine	62.2	62.4	P/P	40 - 150
2003741	Diuron	51.4	53.0	P/P	40 - 150
2003741	Fenuron	58.1	59.0	P/P	40 - 150
2003741	Fluridone	75.2	78.2	P/P	40 - 150
2003741	Hydrocodone	63.4	61.6	P/P	40 - 150
2003741	Imazapyr	64.2	67.5	P/P	40 - 150
2003741	Imidacloprid	113	113	P/P	40 - 160
2003741	Linuron	52.4	53.6	P/P	40 - 150
2003741	MCPP	145	159	P/F	40 - 150
2003741	Primidone	60.5	67.4	P/P	40 - 150
2003741	Pyraclostrobin	80.6	78.3	P/P	40 - 150
2003741	Triclopyr	177	192	F/F	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P348102

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003915	Fluoride	104	104	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P348103

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2004379	Fluoride	98.4	97.8	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P348328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2003948	Organic Carbon	100	102	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P348373

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2004306	Organic Carbon	101		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P348374

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2004267	Organic Carbon	97.3	98.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P347705

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003914	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P347706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003944	Turbidity	5.14	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P347853

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2004004	Calcium	1.38	Spike	P	0 - 20
2004004	Iron	1.72	Spike	P	0 - 20
2004004	Magnesium	1.65	Spike	P	0 - 20
2004004	Potassium	1.53	Spike	P	0 - 20
2004004	Sodium	2.43	Spike	P	0 - 20
2004004	Zinc	1.39	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P347853

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2004004	Arsenic	1.06	Spike	P	0 - 20
2004004	Cadmium	0.367	Spike	P	0 - 20
2004004	Chromium	1.61	Spike	P	0 - 20
2004004	Copper	0.951	Spike	P	0 - 20
2004004	Lead	0.216	Spike	P	0 - 20
2004004	Nickel	1.49	Spike	P	0 - 20
2004004	Silver	0.148	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347953

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003913	Chloride	2.24	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003943	Chloride	2.81	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347959

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003913	Sulfate	2.35	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348267

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003870	Ammonia-N	0.985	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348351

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003948	Ammonia-N	0.0893	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2004000	Kjeldahl Nitrogen	0.222	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P347830

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003947	NO2NO3-N	0.229	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P347831

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003950	NO2NO3-N	0.971	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P347886

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003919	Total-P	2.12	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P347887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003951	Total-P	1.85	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P347921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003923	O-Phosphate-P	0.133	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P347922

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003957	O-Phosphate-P	1.32	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P347710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2004495	Aldrin	11.1	Spike	P	0 - 30
2004495	Alpha-BHC	0.0268	Spike	P	0 - 30
2004495	Alpha-Chlordane	17.7	Spike	P	0 - 30
2004495	Beta-BHC	11.9	Spike	P	0 - 30
2004495	Carbophenothion	16.6	Spike	P	0 - 30
2004495	Chlorothalonil	18.4	Spike	P	0 - 30
2004495	Cypermethrin	5.91	Spike	P	0 - 30
2004495	DDD-p,p'	12.0	Spike	P	0 - 30
2004495	DDE-p,p'	18.6	Spike	P	0 - 30
2004495	DDT-p,p'	2.12	Spike	P	0 - 30
2004495	Delta-BHC	12.3	Spike	P	0 - 30
2004495	Dicofol	3.85	Spike	P	0 - 30
2004495	Dieldrin	17.4	Spike	P	0 - 30
2004495	Endosulfan I	28.1	Spike	P	0 - 30
2004495	Endosulfan II	23.0	Spike	P	0 - 30
2004495	Endosulfan Sulfate	0.616	Spike	P	0 - 30
2004495	Endrin	10.3	Spike	P	0 - 30
2004495	Endrin Aldehyde	22.0	Spike	P	0 - 30
2004495	Endrin Ketone	1.92	Spike	P	0 - 30
2004495	Gamma-BHC	24.8	Spike	P	0 - 30
2004495	Gamma-Chlordane	16.9	Spike	P	0 - 30
2004495	Heptachlor	6.80	Spike	P	0 - 30
2004495	Heptachlor Epoxide	14.8	Spike	P	0 - 30
2004495	Methoxychlor	3.85	Spike	P	0 - 30
2004495	Mirex	3.49	Spike	P	0 - 30
2004495	Permethrin	8.30	Spike	P	0 - 30
2004495	Trifluralin	4.20	Spike	P	0 - 30
LFB	Aldrin	1.05	LCS	P	0 - 30
LFB	Alpha-BHC	6.23	LCS	P	0 - 30
LFB	Alpha-Chlordane	5.80	LCS	P	0 - 30
LFB	Beta-BHC	31.5	LCS	F	0 - 30
LFB	Carbophenothion	0.118	LCS	P	0 - 30
LFB	Chlorothalonil	29.3	LCS	P	0 - 30
LFB	Cypermethrin	1.19	LCS	P	0 - 30
LFB	DDD-p,p'	0.240	LCS	P	0 - 30
LFB	DDE-p,p'	3.63	LCS	P	0 - 30
LFB	DDT-p,p'	4.20	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P347710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Delta-BHC	25.9	LCS	P	0 - 30
LFB	Dicofol	0.362	LCS	P	0 - 30
LFB	Dieldrin	1.21	LCS	P	0 - 30
LFB	Endosulfan I	8.16	LCS	P	0 - 30
LFB	Endosulfan II	2.20	LCS	P	0 - 30
LFB	Endosulfan Sulfate	1.88	LCS	P	0 - 30
LFB	Endrin	0.737	LCS	P	0 - 30
LFB	Endrin Aldehyde	1.08	LCS	P	0 - 30
LFB	Endrin Ketone	3.27	LCS	P	0 - 30
LFB	Gamma-BHC	9.44	LCS	P	0 - 30
LFB	Gamma-Chlordane	4.07	LCS	P	0 - 30
LFB	Heptachlor	9.06	LCS	P	0 - 30
LFB	Heptachlor Epoxide	5.43	LCS	P	0 - 30
LFB	Methoxychlor	8.83	LCS	P	0 - 30
LFB	Mirex	4.38	LCS	P	0 - 30
LFB	Permethrin	0.269	LCS	P	0 - 30
LFB	Trifluralin	9.09	LCS	P	0 - 30

Reference Method: EPA 8270D

Batch ID: P347893

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003743	Acetochlor	0.345	Spike	P	0 - 30
2003743	Alachlor	5.57	Spike	P	0 - 30
2003743	Ametryn	11.4	Spike	P	0 - 30
2003743	Atrazine	3.86	Spike	P	0 - 30
2003743	Atrazine Desethyl	15.8	Spike	P	0 - 30
2003743	Azinphos Methyl	1.57	Spike	P	0 - 30
2003743	Bromacil	15.5	Spike	P	0 - 30
2003743	Butylate	7.02	Spike	P	0 - 30
2003743	Chlorpyrifos Ethyl	0.384	Spike	P	0 - 30
2003743	Chlorpyrifos Methyl	0.147	Spike	P	0 - 30
2003743	Cyanazine	23.9	Spike	P	0 - 30
2003743	Demeton	2.00	Spike	P	0 - 30
2003743	Diazinon	6.24	Spike	P	0 - 30
2003743	Disulfoton	5.30	Spike	P	0 - 30
2003743	EPTC	9.37	Spike	P	0 - 30
2003743	Ethion	3.11	Spike	P	0 - 30
2003743	Ethoprop	8.63	Spike	P	0 - 30
2003743	Fenamiphos	34.8	Spike	F	0 - 30
2003743	Fipronil	9.46	Spike	P	0 - 30
2003743	Fipronil Sulfide	9.26	Spike	P	0 - 30
2003743	Fipronil Sulfone	17.3	Spike	P	0 - 30
2003743	Fonofos	1.83	Spike	P	0 - 30
2003743	Hexazinone	13.5	Spike	P	0 - 30
2003743	Malathion	2.96	Spike	P	0 - 30
2003743	Metaxyl	4.31	Spike	P	0 - 30
2003743	Metolachlor	2.70	Spike	P	0 - 30
2003743	Metribuzin	3.72	Spike	P	0 - 30
2003743	Mevinphos	0.0651	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P347893

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003743	Molinate	1.09	Spike	P	0 - 30
2003743	Norflurazon	22.6	Spike	P	0 - 30
2003743	Parathion Ethyl	7.10	Spike	P	0 - 30
2003743	Parathion Methyl	2.84	Spike	P	0 - 30
2003743	Pendimethalin	5.54	Spike	P	0 - 30
2003743	Phorate	6.07	Spike	P	0 - 30
2003743	Prometon	2.39	Spike	P	0 - 30
2003743	Prometryn	4.18	Spike	P	0 - 30
2003743	Simazine	8.21	Spike	P	0 - 30
2003743	Terbufos	4.19	Spike	P	0 - 30
2003743	Terbuthylazine	4.62	Spike	P	0 - 30
LFB	Acetochlor	1.13	LCS	P	0 - 30
LFB	Alachlor	0.570	LCS	P	0 - 30
LFB	Ametryn	5.36	LCS	P	0 - 30
LFB	Atrazine	3.16	LCS	P	0 - 30
LFB	Atrazine Desethyl	1.17	LCS	P	0 - 30
LFB	Azinphos Methyl	2.35	LCS	P	0 - 30
LFB	Bromacil	2.47	LCS	P	0 - 30
LFB	Butylate	23.3	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	13.4	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	9.40	LCS	P	0 - 30
LFB	Cyanazine	1.20	LCS	P	0 - 30
LFB	Demeton	10.7	LCS	P	0 - 30
LFB	Diazinon	1.56	LCS	P	0 - 30
LFB	Disulfoton	1.95	LCS	P	0 - 30
LFB	EPTC	10.8	LCS	P	0 - 30
LFB	Ethion	5.97	LCS	P	0 - 30
LFB	Ethoprop	3.44	LCS	P	0 - 30
LFB	Fenamiphos	0.0315	LCS	P	0 - 30
LFB	Fipronil	4.42	LCS	P	0 - 30
LFB	Fipronil Sulfide	4.53	LCS	P	0 - 30
LFB	Fipronil Sulfone	3.63	LCS	P	0 - 30
LFB	Fonofos	8.16	LCS	P	0 - 30
LFB	Hexazinone	9.51	LCS	P	0 - 30
LFB	Malathion	10.1	LCS	P	0 - 30
LFB	Metalaxyl	1.08	LCS	P	0 - 30
LFB	Metolachlor	0.804	LCS	P	0 - 30
LFB	Metribuzin	20.7	LCS	P	0 - 30
LFB	Mevinphos	15.6	LCS	P	0 - 30
LFB	Molinate	11.5	LCS	P	0 - 30
LFB	Norflurazon	7.15	LCS	P	0 - 30
LFB	Parathion Ethyl	6.42	LCS	P	0 - 30
LFB	Parathion Methyl	6.93	LCS	P	0 - 30
LFB	Pendimethalin	4.38	LCS	P	0 - 30
LFB	Phorate	8.94	LCS	P	0 - 30
LFB	Prometon	1.87	LCS	P	0 - 30
LFB	Prometryn	0.938	LCS	P	0 - 30
LFB	Simazine	7.08	LCS	P	0 - 30
LFB	Terbufos	9.35	LCS	P	0 - 30
LFB	Terbuthylazine	4.25	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P347710

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003981	Chlordane	1.39	Spike	P	0 - 30
2003981	Toxaphene	0.816	Spike	P	0 - 30
LFB	Chlordane	9.87	LCS	P	0 - 30
LFB	Toxaphene	9.56	LCS	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P347494

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003557	AMPA	8.26	Spike	P	0 - 30
2003557	Endothall	4.08	Spike	P	0 - 30
2003557	Glufosinate	6.14	Spike	P	0 - 30
2003557	Glyphosate	4.71	Spike	P	0 - 30
2003557	Sucralose	13.8	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P347578

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003556	3-Hydroxycarbofuran	3.94	Spike	P	0 - 30
2003556	Aldicarb	6.67	Spike	P	0 - 30
2003556	Aldicarb Sulfone	4.86	Spike	P	0 - 30
2003556	Aldicarb Sulfoxide	5.29	Spike	P	0 - 30
2003556	Carbaryl	1.59	Spike	P	0 - 30
2003556	Carbofuran	1.54	Spike	P	0 - 30
2003556	Methiocarb	13.9	Spike	P	0 - 30
2003556	Methomyl	0.202	Spike	P	0 - 30
2003556	Oxamyl	0.754	Spike	P	0 - 30
2003556	Propoxur	1.82	Spike	P	0 - 30
2003741	2,4-D	17.7	Spike	P	0 - 30
2003741	Acetaminophen	1.92	Spike	P	0 - 30
2003741	Bentazon	18.4	Spike	P	0 - 30
2003741	Carbamazepine	0.334	Spike	P	0 - 30
2003741	Diuron	3.13	Spike	P	0 - 30
2003741	Fenuron	1.62	Spike	P	0 - 30
2003741	Fluridone	3.79	Spike	P	0 - 30
2003741	Hydrocodone	2.89	Spike	P	0 - 30
2003741	Imazapyr	4.06	Spike	P	0 - 30
2003741	Imidacloprid	0.103	Spike	P	0 - 30
2003741	Linuron	2.31	Spike	P	0 - 30
2003741	MCP	9.22	Spike	P	0 - 30
2003741	Primidone	10.8	Spike	P	0 - 30
2003741	Pyraclostrobin	2.89	Spike	P	0 - 30
2003741	Triclopyr	8.06	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P347693

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003941	Color (true)	1.03	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P347694

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003938	Color (true)	5.45	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P348098

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003915	Total Alkalinity	0.730	Sample	P	0 - 1.6

Reference Method: SM 2320 B-97
Batch ID: P348196

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2004379	Total Alkalinity	3.62	Sample	F	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P347932

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003917	TDS	2.05	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P347933

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003944	TDS	7.52	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P348102

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003915	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 4500 F-C-97
Batch ID: P348103

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2004379	Fluoride	0.509	Spike	P	0 - 3.5

Quality Assurance Report Precision

Reference Method: SM 5310 B-00
Batch ID: P348328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2003948	Organic Carbon	0.975	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P348373

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2004306	Organic Carbon	1.70	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P348374

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2004267	Organic Carbon	0.804	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Surrogates

Lab Sample ID: 2003977
Field Sample ID: G1WA0031

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	139	P	30 - 160
EPA 8321B	Acetaminophen-d4	83.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	75.7	P	30 - 160
EPA 8321B	Diuron-d6	66.1	P	30 - 160
EPA 8321B	Primidone-d5	85.1	P	30 - 160
EPA 8321B	Sucralose-d6	79.1	P	40 - 160

Lab Sample ID: 2003978
Field Sample ID: G1WA0034

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	118	P	30 - 160
EPA 8321B	Acetaminophen-d4	69.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	65.0	P	30 - 160
EPA 8321B	Diuron-d6	57.5	P	30 - 160
EPA 8321B	Primidone-d5	74.1	P	30 - 160
EPA 8321B	Sucralose-d6	79.0	P	40 - 160

Lab Sample ID: 2003979
Field Sample ID: G1WA0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	48.6	P	30 - 160

Lab Sample ID: 2003980
Field Sample ID: G1WA0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	108	P	30 - 160
EPA 8321B	Acetaminophen-d4	60.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	56.1	P	30 - 160
EPA 8321B	Diuron-d6	41.3	P	30 - 160
EPA 8321B	Endothall-d6	120	P	40 - 160
EPA 8321B	Endothall-d6	120	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	108	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	108	P	40 - 160
EPA 8321B	Primidone-d5	69.7	P	30 - 160
EPA 8321B	Sucralose-d6	87.8	P	40 - 160
EPA 8321B	Sucralose-d6	87.8	P	40 - 160

Lab Sample ID: 2003981
Field Sample ID: G1WA0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	67.4	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	48.6	P	34 - 101
EPA 8276	Decachlorobiphenyl	60.4	P	31 - 108
EPA 8276	PCNB	79.7	P	62 - 142

Quality Assurance Report Surrogates

Lab Sample ID: 2003982
Field Sample ID: G1WA0026

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	96.3	P	71 - 126
EPA 8270D	Terbufos-d10	106	P	59 - 149

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A84913

Included Lab Sample IDs: 2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	102	P/P	90 - 115
Color (true)	102	102	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A84917

Included Lab Sample IDs: 2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.5	P/P	95 - 105
Turbidity	98.5	99.0	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A84966

Included Lab Sample IDs: 2003945, 2003946, 2003947, 2003948, 2003949, 2003950, 2003951

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110
NO2NO3-N	99.0	99.0	P/P	90 - 110
NO2NO3-N	99.5	99.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A84988

Included Lab Sample IDs: 2003977, 2003978, 2003980

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	103	110	P/P	50 - 150
3-Hydroxycarbofuran	94.7	91.8	P/P	50 - 150
Acetaminophen	108	108	P/P	60 - 160
Aldicarb	117	107	P/P	60 - 150
Aldicarb Sulfone	95.6	89.3	P/P	50 - 150
Aldicarb Sulfoxide	101	101	P/P	50 - 150
Bentazon	135	137	P/P	50 - 150
Carbamazepine	97.8	105	P/P	60 - 160
Carbaryl	96.7	93.1	P/P	60 - 150
Carbofuran	96.2	95.5	P/P	50 - 150
Diuron	102	99.6	P/P	60 - 150
Fenuron	96.7	98.9	P/P	60 - 150
Fluridone	105	110	P/P	60 - 160
Hydrocodone	102	98.9	P/P	60 - 150
Imazapyr	92.8	80.0	P/P	50 - 150
Imidacloprid	92.0	92.3	P/P	60 - 150
Linuron	86.9	92.3	P/P	60 - 150
MCPP	124	119	P/P	50 - 150
Methiocarb	84.0	89.2	P/P	50 - 150
Methomyl	98.6	98.3	P/P	50 - 150
Oxamyl	98.2	97.2	P/P	50 - 150
Primidone	90.6	94.7	P/P	60 - 150
Propoxur	96.5	96.4	P/P	50 - 150
Pyraclostrobin	106	102	P/P	60 - 150
Triclopyr	113	98.1	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A84989

Included Lab Sample IDs: 2003980

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	109	100	P/P	60 - 160
Glufosinate	104	111	P/P	60 - 160
Glyphosate	78.3	92.3	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A85001

Included Lab Sample IDs: 2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A85002

Included Lab Sample IDs: 2003952, 2003953, 2003954, 2003955, 2003956, 2003957, 2003958

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	98.2	P/P	90 - 110
O-Phosphate-P	98.2	99.4	P/P	90 - 110
O-Phosphate-P	99.8	101	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A85021

Included Lab Sample IDs: 2003983, 2003984

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	102	P/P	90 - 110
Iron	100	101	P/P	90 - 110
Magnesium	101	102	P/P	90 - 110
Potassium	98.4	99.0	P/P	90 - 110
Sodium	101	101	P/P	90 - 110
Zinc	102	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A85029

Included Lab Sample IDs: 2003945, 2003946, 2003947, 2003948

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A85030

Included Lab Sample IDs: 2003949, 2003950

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	99.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A85046

Included Lab Sample IDs: 2003951

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.3	99.2	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A85064

Included Lab Sample IDs: 2003980

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endothall	114	118	P/P	60 - 150

Reference Method: EPA 8321B

Run ID: A85066

Included Lab Sample IDs: 2003977, 2003978, 2003980

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	121	71.2	P/P	60 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A85067

Included Lab Sample IDs: 2003983, 2003984

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	97.6	97.3	P/P	90 - 110
Cadmium	97.6	95.8	P/P	90 - 110
Chromium	97.5	95.0	P/P	90 - 110
Copper	97.0	97.3	P/P	90 - 110
Lead	95.8	96.2	P/P	90 - 110
Nickel	96.5	96.5	P/P	90 - 110
Silver	98.0	97.2	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A85091

Included Lab Sample IDs: 2003938, 2003939, 2003940

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

Reference Method: SM 4500 F-C-97

Run ID: A85091

Included Lab Sample IDs: 2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944

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

Reference Method: EPA 8270D

Run ID: A85104

Included Lab Sample IDs: 2003981

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	94.3		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	90.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A85104

Included Lab Sample IDs: 2003981

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-BHC	93.8		P	80 - 120
Carbophenothion	89.2		P	80 - 120
Chlorothalonil	92.8		P	80 - 120
Cypermethrin	91.4		P	80 - 120
DDD-p,p'	98.3		P	80 - 120
DDE-p,p'	96.6		P	80 - 120
DDT-p,p'	111		P	80 - 120
Delta-BHC	97.0		P	80 - 120
Dicofol	112		P	80 - 120
Dieldrin	92.9		P	80 - 120
Endosulfan I	94.5		P	80 - 120
Endosulfan II	90.4		P	80 - 120
Endosulfan Sulfate	94.9		P	80 - 120
Endrin	92.6		P	80 - 120
Endrin Aldehyde	89.5		P	80 - 120
Endrin Ketone	97.2		P	80 - 120
Gamma-BHC	101		P	80 - 120
Gamma-Chlordane	91.1		P	80 - 120
Heptachlor	91.6		P	80 - 120
Heptachlor Epoxide	93.8		P	80 - 120
Methoxychlor	100		P	80 - 120
Mirex	97.7		P	80 - 120
Permethrin	105		P	80 - 120
Trifluralin	99.3		P	80 - 120

Reference Method: EPA 8276

Run ID: A85113

Included Lab Sample IDs: 2003981

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	86.4		P	80 - 120
Toxaphene	86.3		P	80 - 120

Reference Method: SM 2320 B-97

Run ID: A85129

Included Lab Sample IDs: 2003941, 2003942, 2003943, 2003944

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	107	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A85139

Included Lab Sample IDs: 2003945, 2003946, 2003947, 2003948, 2003949, 2003950, 2003951

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.0	95.5	P/P	90 - 110
Kjeldahl Nitrogen	95.5	97.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A85152

Included Lab Sample IDs: 2003945, 2003946, 2003947

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	97.2	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A85182

Included Lab Sample IDs: 2003945, 2003948, 2003949, 2003950

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	102	P/P	90 - 110
Organic Carbon	102	101	P/P	90 - 110
Organic Carbon	102	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A85188

Included Lab Sample IDs: 2003948, 2003949, 2003950, 2003951

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

Reference Method: SM 5310 B-00

Run ID: A85195

Included Lab Sample IDs: 2003946, 2003947, 2003951

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.5	98.9	P/P	90 - 110
Organic Carbon	98.8	99.4	P/P	90 - 110
Organic Carbon	99.8	98.8	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A85234

Included Lab Sample IDs: 2003982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.5		P	80 - 120
Alachlor	100		P	80 - 120
Ametryn	99.7		P	80 - 120
Atrazine	96.7		P	80 - 120
Atrazine Desethyl	93.9		P	80 - 120
Azinphos Methyl	100		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	97.2		P	80 - 120
Chlorpyrifos Ethyl	95.0		P	80 - 120
Chlorpyrifos Methyl	95.6		P	80 - 120
Cyanazine	93.7		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	97.5		P	80 - 120
Disulfoton	97.7		P	80 - 120
EPTC	99.0		P	80 - 120
Ethion	95.5		P	80 - 120
Ethoprop	95.4		P	80 - 120
Fenamiphos	93.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A85234

Included Lab Sample IDs: 2003982

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil	95.4		P	80 - 120
Fipronil Sulfide	94.7		P	80 - 120
Fipronil Sulfone	93.9		P	80 - 120
Fonofos	95.7		P	80 - 120
Hexazinone	96.4		P	80 - 120
Malathion	97.7		P	80 - 120
Metalaxyl	100		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	88.8		P	80 - 120
Mevinphos	96.7		P	80 - 120
Molinate	99.6		P	80 - 120
Norflurazon	95.3		P	80 - 120
Parathion Ethyl	94.0		P	80 - 120
Parathion Methyl	95.0		P	80 - 120
Pendimethalin	94.0		P	80 - 120
Phorate	96.4		P	80 - 120
Prometon	97.4		P	80 - 120
Prometryn	100		P	80 - 120
Simazine	95.3		P	80 - 120
Terbufos	94.0		P	80 - 120
Terbutylazine	95.8		P	80 - 120

* 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	SMP MS
EPA 180.1 Rev. 2.0	Turbidity							0.0
	Turbidity							5.14
EPA 200.7 Rev. 4.4	Calcium	108		99.5	106	104		1.38
	Iron	104		103	103	101		1.72
	Magnesium	108		101	106	104		1.65
	Potassium	102		101	105	103		1.53
	Sodium	104		100	104	100		2.43
	Zinc	99.9		99.2	101	99.8		1.39
EPA 200.8 Rev. 5.4	Arsenic	96.3		97.0	94.4	95.5		1.06
	Cadmium	95.8		100	95.8	96.2		0.367
	Chromium	93.6		93.6	94.1	95.7		1.61
	Copper	94.4		91.0	93.0	93.9		0.951
	Lead	92.3		92.0	93.2	93.4		0.216
	Nickel	96.1		94.5	94.9	96.4		1.49
	Silver	92.6		94.4	92.6	92.4		0.148
EPA 300.0 Rev. 2.1	Chloride	95.9		93.3				2.24
	Chloride	97.8		96.8				2.81
	Sulfate	93.2		93.7				2.35
	Sulfate	94.8		95.3				
EPA 350.1 Rev. 2.0	Ammonia-N	98.7		97.9	96.9			0.985
	Ammonia-N	99.6		101	101			0.0893
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.6		83.8	84.1			0.222
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5		99.8				0.229
	NO2NO3-N	100		102	104			0.971
EPA 365.1 Rev. 2.0	Total-P	95.0		92.4	94.6			2.12
	Total-P	96.8		96.8	99.2			1.85
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.5						0.133
	O-Phosphate-P	103		90.6	91.8			1.32
EPA 8270D	Acetochlor	91.7	92.8	91.7	91.4	1.13		0.345
	Alachlor	92.1	92.6	98.8	93.4	0.570		5.57
	Aldrin	46.3	45.8	61.0	54.5	1.05		11.1
	Alpha-BHC	84.5	89.9	96.1	96.2	6.23		0.0268
	Alpha-Chlordane	66.8	70.8	81.4	68.2	5.80		17.7
	Ametryn	96.3	102	101	90.2	5.36		11.4
	Atrazine	90.6	93.5	102	97.7	3.16		3.86
	Atrazine Desethyl	88.2	87.1	73.9	63.1	1.17		15.8
	Azinphos Methyl	106	103	111	110	2.35		1.57
	Beta-BHC	116	84.6	116	103	31.5		11.9
	Bromacil	85.5	83.4	80.3	68.8	2.47		15.5
	Butylate	43.6	55.1	52.2	56.0	23.3		7.02
	Carbophenothion	59.5	59.4	75.1	63.5	0.118		16.6
	Chlorothalonil	66.4	49.5	47.6	39.6	29.3		18.4
	Chlorpyrifos Ethyl	79.1	90.6	89.0	89.3	13.4		0.384
	Chlorpyrifos Methyl	83.4	91.7	83.6	83.7	9.40		0.147
	Cyanazine	125	124	114	89.3	1.20		23.9
	Cypermethrin	76.1	75.2	96.8	91.2	1.19		5.91
	DDD-p,p'	87.6	87.4	96.0	85.2	0.240		12.0
	DDE-p,p'	74.9	72.2	85.9	71.3	3.63		18.6
	DDT-p,p'	86.2	82.7	98.0	95.9	4.20		2.12
	Delta-BHC	113	86.9	112	99.4	25.9		12.3
	Demeton	69.0	76.7	75.8	77.4	10.7		2.00
	Diazinon	99.4	101	107	101	1.56		6.24
	Dicofol	77.3	77.1	87.9	84.6	0.362		3.85
	Dieldrin	79.8	78.9	101	85.1	1.21		17.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Disulfoton	84.8	86.4	93.3	88.5	1.95	5.30
	Endosulfan I	79.1	72.9	89.9	67.8	8.16	28.1
	Endosulfan II	80.1	81.9	88.5	70.3	2.20	23.0
	Endosulfan Sulfate	83.2	81.6	85.7	86.3	1.88	0.616
	Endrin	83.3	83.9	87.5	79.0	0.737	10.3
	Endrin Aldehyde	79.5	80.4	83.2	66.7	1.08	22.0
	Endrin Ketone	83.6	86.4	99.4	97.5	3.27	1.92
	EPTC	42.5	47.4	47.3	52.0	10.8	9.37
	Ethion	78.6	74.1	69.9	67.8	5.97	3.11
	Ethoprop	76.2	78.9	90.2	82.8	3.44	8.63
	Fenamiphos	91.3	91.4	86.8	123	0.0315	34.8
	Fipronil	88.7	84.9	84.3	76.7	4.42	9.46
	Fipronil Sulfide	74.3	77.7	70.0	63.8	4.53	9.26
	Fipronil Sulfone	73.4	70.7	62.2	52.3	3.63	17.3
	Fonofos	82.6	89.6	97.0	95.3	8.16	1.83
	Gamma-BHC	106	96.6	120	93.6	9.44	24.8
	Gamma-Chlordane	64.6	67.3	78.4	66.1	4.07	16.9
	Heptachlor	61.4	56.1	65.2	60.9	9.06	6.80
	Heptachlor Epoxide	76.6	72.6	94.5	81.5	5.43	14.8
	Hexazinone	85.6	94.2	94.9	82.9	9.51	13.5
	Malathion	78.2	86.5	75.7	73.4	10.1	2.96
	Metalaxyl	89.9	90.9	89.5	85.7	1.08	4.31
	Methoxychlor	84.2	92.0	91.1	94.6	8.83	3.85
	Metolachlor	90.0	90.8	90.2	87.7	0.804	2.70
	Metribuzin	112	138	144	139	20.7	3.72
	Mevinphos	65.9	77.1	83.4	83.5	15.6	0.0651
	Mirex	62.5	65.3	79.4	76.7	4.38	3.49
	Molinate	53.7	60.3	66.5	67.2	11.5	1.09
	Norflurazon	87.7	81.7	66.7	53.1	7.15	22.6
	Parathion Ethyl	81.6	87.0	85.5	79.6	6.42	7.10
	Parathion Methyl	88.5	94.8	91.9	89.3	6.93	2.84
	Pendimethalin	101	105	112	106	4.38	5.54
	Permethrin	73.6	73.8	98.1	90.3	0.269	8.30
	Phorate	81.3	74.3	86.4	91.8	8.94	6.07
	Prometon	83.2	84.7	97.8	95.5	1.87	2.39
	Prometryn	89.1	89.9	95.7	91.8	0.938	4.18
	Simazine	90.9	97.6	101	93.0	7.08	8.21
	Terbufos	81.1	89.0	98.2	94.1	9.35	4.19
	Terbuthylazine	85.1	88.8	93.4	89.1	4.25	4.62
	Trifluralin	70.3	77.0	80.4	83.8	9.09	4.20
EPA 8276	Chlordane	75.3	83.1	64.0	63.2	9.87	1.39
	Toxaphene	77.1	70.1	51.2	51.6	9.56	0.816
EPA 8321B	2,4-D	90.9		116	139		17.7
	3-Hydroxycarbofuran	84.0		83.0	79.8		3.94
	Acetaminophen	87.7		70.3	71.7		1.92
	Aldicarb	83.1		74.8	69.9		6.67
	Aldicarb Sulfone	87.2		93.5	89.1		4.86
	Aldicarb Sulfoxide	87.8		38.1	36.2		5.29
	AMPA	94.5		109	101		8.26
	Bentazon	88.8		39.9	48.0		18.4
	Carbamazepine	90.0		62.2	62.4		0.334
	Carbaryl	74.9		61.6	62.6		1.59
	Carbofuran	76.2		64.0	63.0		1.54
	Diuron	80.7		51.4	53.0		3.13

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Endothall	66.7	90.3	86.7		4.08
	Fenuron	94.6	58.1	59.0		1.62
	Fluridone	93.7	75.2	78.2		3.79
	Glufosinate	102	97.3	103		6.14
	Glyphosate	84.9	67.3	70.5		4.71
	Hydrocodone	94.4	63.4	61.6		2.89
	Imazapyr	82.4	64.2	67.5		4.06
	Imidacloprid	95.7	113	113		0.103
	Linuron	71.0	52.4	53.6		2.31
	MCP	125	145	159		9.22
	Methiocarb	64.5	61.8	53.8		13.9
	Methomyl	91.5	80.6	80.7		0.202
	Oxamyl	92.0	84.8	85.5		0.754
	Primidone	86.0	60.5	67.4		10.8
	Propoxur	79.4	67.8	66.6		1.82
	Pyraclostrobin	77.2	80.6	78.3		2.89
	Sucralose	108	110	127		13.8
	Triclopyr	112	177	192		8.06
SM 2120 B	Color (true)	103			1.03	
	Color (true)	101			5.45	
SM 2320 B-97	Total Alkalinity	103			0.730	
	Total Alkalinity	104			3.62	
SM 2540 C-97	TDS				2.05	
	TDS				7.52	
SM 4500 F-C-97	Fluoride	99.8	104	104		0.0
	Fluoride	101	98.4	97.8		0.509
SM 5310 B-00	Organic Carbon	99.6	100	102		0.975
	Organic Carbon	95.1	101			1.70
	Organic Carbon	97.0	97.3	98.8		0.804

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2003983, 2003984
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2003983, 2003984
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2003945, 2003946, 2003947, 2003948, 2003949, 2003950, 2003951
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2003945, 2003946, 2003947, 2003948, 2003949, 2003950, 2003951
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2003945, 2003946, 2003947, 2003948, 2003949, 2003950, 2003951
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2003945, 2003946, 2003947, 2003948, 2003949, 2003950, 2003951
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2003952, 2003953, 2003954, 2003955, 2003956, 2003957, 2003958
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2003981

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	2003982
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2003981
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2003979
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2003977, 2003978, 2003980
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2003980
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2003977, 2003978, 2003980
SM 2120 B / E31780	True Color measured at 450 nm	2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2003945, 2003946, 2003947, 2003948, 2003949, 2003950, 2003951

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	06/28/2018			06/28/2018 16:54	William L. Brown IV	2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944
EPA 200.7 Rev. 4.4	06/28/2018	07/02/2018 17:35	Elliott D. Healy	07/03/2018 17:58	Betina Topolski	2003983
	06/28/2018	07/02/2018 17:35	Elliott D. Healy	07/03/2018 18:04	Betina Topolski	2003984
EPA 200.8 Rev. 5.4	06/28/2018	07/02/2018 17:35	Elliott D. Healy	07/06/2018 16:17	Robert K Palmer	2003983
	06/28/2018	07/02/2018 17:35	Elliott D. Healy	07/06/2018 16:26	Robert K Palmer	2003984
EPA 300.0 Rev. 2.1	06/28/2018			07/04/2018 06:09	Lipi Saha	2003938
	06/28/2018			07/04/2018 06:45	Lipi Saha	2003939
	06/28/2018			07/04/2018 06:57	Lipi Saha	2003940
	06/28/2018			07/04/2018 07:09	Lipi Saha	2003941
	06/28/2018			07/04/2018 07:21	Lipi Saha	2003942
	06/28/2018			07/04/2018 08:09	Lipi Saha	2003943
	06/28/2018			07/04/2018 08:33	Lipi Saha	2003944
EPA 350.1 Rev. 2.0	06/28/2018			07/11/2018 16:08	Ping Hua	2003945
	06/28/2018			07/11/2018 16:09	Ping Hua	2003946
	06/28/2018			07/11/2018 16:11	Ping Hua	2003947
	06/28/2018			07/12/2018 10:17	Ping Hua	2003948
	06/28/2018			07/12/2018 10:22	Ping Hua	2003949
	06/28/2018			07/12/2018 10:23	Ping Hua	2003950
	06/28/2018			07/12/2018 10:31	Ping Hua	2003951
EPA 351.2 Rev. 2.0	06/28/2018	07/10/2018 10:45	Adrian Shelby	07/11/2018 11:56	Joseph Suarez	2003945
	06/28/2018	07/10/2018 10:45	Adrian Shelby	07/11/2018 11:58	Joseph Suarez	2003946
	06/28/2018	07/10/2018 10:45	Adrian Shelby	07/11/2018 12:03	Joseph Suarez	2003947
	06/28/2018	07/10/2018 10:45	Adrian Shelby	07/11/2018 12:04	Joseph Suarez	2003948
	06/28/2018	07/10/2018 10:45	Adrian Shelby	07/11/2018 12:06	Joseph Suarez	2003949
	06/28/2018	07/10/2018 10:45	Adrian Shelby	07/11/2018 12:07	Joseph Suarez	2003950
	06/28/2018	07/10/2018 10:45	Adrian Shelby	07/11/2018 12:09	Joseph Suarez	2003951
EPA 353.2 Rev. 2.0	06/28/2018			07/02/2018 11:40	Lauren Bottorf	2003947
	06/28/2018			07/02/2018 11:53	Lauren Bottorf	2003946
	06/28/2018			07/02/2018 11:54	Lauren Bottorf	2003948
	06/28/2018			07/02/2018 11:55	Lauren Bottorf	2003949
	06/28/2018			07/02/2018 12:02	Lauren Bottorf	2003950
	06/28/2018			07/02/2018 12:09	Lauren Bottorf	2003951
	06/28/2018			07/02/2018 13:19	Lauren Bottorf	2003945
EPA 365.1 Rev. 2.0	06/28/2018	07/03/2018 10:50	Sima Feizi	07/05/2018 12:44	Beverly Y. Sanders	2003945
	06/28/2018	07/03/2018 10:50	Sima Feizi	07/05/2018 12:45	Beverly Y. Sanders	2003946
	06/28/2018	07/03/2018 10:50	Sima Feizi	07/05/2018 12:46	Beverly Y. Sanders	2003947, 2003948
	06/28/2018	07/03/2018 10:50	Sima Feizi	07/05/2018 13:18	Beverly Y. Sanders	2003949
	06/28/2018	07/03/2018 10:50	Sima Feizi	07/05/2018 13:20	Beverly Y. Sanders	2003950
	06/28/2018	07/03/2018 10:50	Sima Feizi	07/06/2018 08:49	Beverly Y. Sanders	2003951

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 365.1 Rev. 2.0 dissolved	06/28/2018			06/29/2018 14:33	Megan Treadwell	2003957
	06/28/2018			06/29/2018 14:47	Megan Treadwell	2003952
	06/28/2018			06/29/2018 14:52	Megan Treadwell	2003953
	06/28/2018			06/29/2018 14:53	Megan Treadwell	2003954
	06/28/2018			06/29/2018 14:54	Megan Treadwell	2003955
	06/28/2018			06/29/2018 14:55	Megan Treadwell	2003956
	06/28/2018			06/29/2018 14:56	Megan Treadwell	2003958
EPA 8270D	06/28/2018	07/03/2018 06:31	Dinesh Mishra	07/11/2018 15:13	Vandana T. Nagar	2003982
	06/28/2018	07/03/2018 09:00	Fe-Val Siddell	07/09/2018 18:51	Dinesh Mishra	2003981
EPA 8276	06/28/2018	07/03/2018 09:00	Fe-Val Siddell	07/09/2018 23:10	Dinesh Mishra	2003981
EPA 8321B	06/28/2018	07/02/2018 13:00	Mohammad Ghaffari	07/02/2018 19:07	Mohammad Ghaffari	2003980
	06/28/2018	07/02/2018 13:00	Mohammad Ghaffari	07/06/2018 00:57	Mohammad Ghaffari	2003977
	06/28/2018	07/02/2018 13:00	Mohammad Ghaffari	07/06/2018 01:15	Mohammad Ghaffari	2003978
	06/28/2018	07/02/2018 13:00	Mohammad Ghaffari	07/06/2018 01:34	Mohammad Ghaffari	2003980
	06/28/2018	07/02/2018 13:00	Mohammad Ghaffari	07/07/2018 01:00	Mohammad Ghaffari	2003980
	06/28/2018	07/02/2018 14:30	Hoor Shaik	07/03/2018 23:58	Juyoung Kim	2003977
	06/28/2018	07/02/2018 14:30	Hoor Shaik	07/04/2018 00:33	Juyoung Kim	2003978
	06/28/2018	07/02/2018 14:30	Hoor Shaik	07/04/2018 01:07	Juyoung Kim	2003980
	06/28/2018	07/02/2018 14:30	Hoor Shaik	07/04/2018 12:39	Juyoung Kim	2003979
	06/28/2018	07/02/2018 14:30	Hoor Shaik	07/04/2018 16:41	Juyoung Kim	2003977
	06/28/2018	07/02/2018 14:30	Hoor Shaik	07/04/2018 17:16	Juyoung Kim	2003978
	06/28/2018	07/02/2018 14:30	Hoor Shaik	07/04/2018 17:50	Juyoung Kim	2003980
SM 2120 B	06/28/2018			06/28/2018 16:03	Tanya Welborn	2003939, 2003940
	06/28/2018			06/28/2018 16:05	Tanya Welborn	2003941
	06/28/2018			06/28/2018 16:06	Tanya Welborn	2003943
	06/28/2018			06/28/2018 16:07	Tanya Welborn	2003944
	06/28/2018			06/28/2018 16:08	Tanya Welborn	2003942
	06/28/2018			06/28/2018 16:25	Tanya Welborn	2003938
SM 2320 B-97	06/28/2018			07/07/2018 11:24	Dale L. Simmons	2003938
	06/28/2018			07/07/2018 11:34	Dale L. Simmons	2003939
	06/28/2018			07/07/2018 11:44	Dale L. Simmons	2003940
	06/28/2018			07/10/2018 19:59	Dale L. Simmons	2003941
	06/28/2018			07/10/2018 20:05	Dale L. Simmons	2003942
	06/28/2018			07/10/2018 20:12	Dale L. Simmons	2003943
	06/28/2018			07/10/2018 20:20	Dale L. Simmons	2003944
SM 2540 C-97	06/28/2018			06/29/2018 16:30	William L. Brown IV	2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944
SM 2540 D-97	06/28/2018			06/29/2018 16:30	William L. Brown IV	2003938, 2003939, 2003940, 2003941, 2003942, 2003943, 2003944
SM 4500 F-C-97	06/28/2018			07/07/2018 11:24	Dale L. Simmons	2003938

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500 F-C-97	06/28/2018			07/07/2018 11:34	Dale L. Simmons	2003939
	06/28/2018			07/07/2018 11:44	Dale L. Simmons	2003940
	06/28/2018			07/07/2018 12:48	Dale L. Simmons	2003941
	06/28/2018			07/07/2018 12:55	Dale L. Simmons	2003942
	06/28/2018			07/07/2018 13:08	Dale L. Simmons	2003943
	06/28/2018			07/07/2018 13:18	Dale L. Simmons	2003944
SM 5310 B-00	06/28/2018			07/11/2018 20:09	Megan Treadwell	2003948
	06/28/2018			07/11/2018 21:08	Megan Treadwell	2003946
	06/28/2018			07/11/2018 21:47	Megan Treadwell	2003950
	06/28/2018			07/11/2018 22:48	Megan Treadwell	2003949
	06/28/2018			07/12/2018 00:14	Megan Treadwell	2003945
	06/28/2018			07/12/2018 01:34	Megan Treadwell	2003947
	06/28/2018			07/12/2018 05:37	Megan Treadwell	2003951