

Chemical Analysis Report

SW-DIST-2018-04-24-02

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

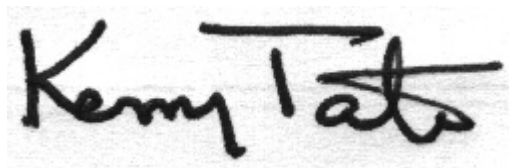
Event Description: **Cockroach & Lil Manatee**
Request ID: **RQ-2018-04-23-02**
Customer: **SW-DIST**
Project ID: **SMP**

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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 04-JUN-2018 10:08

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first name.

NON-CONFORMANCE REPORT INCLUDED

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: Cockroach Bay at Boat Ramp

Collection Date/Time: 04/23/2018 09:00

Field ID: G1SW0089

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986925	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P344002	
	EPA 300.0 Rev. 2.1	Chloride	1.7E+04		mg Cl/L	P344280	
		Sulfate	2.4E+03		mg SO4/L	P344284	
	SM 2120 B	Color (true)	9.1		PCU	P343965	
	SM 2320 B-97	Total Alkalinity	129		mg CaCO3/L	P344176	RPD
	SM 2540 C-97	TDS	3.08E+04		mg/L	P344548	
	SM 2540 D-97	TSS	3	U	mg/L	P344681	
	SM 4500 F-C-97	Fluoride	1.2		mg F/L	P344179	
1986929	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	IY	mg N/L	P344190	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.77	Y	mg N/L	P344087	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	UY	mg N/L	P344031	
	EPA 365.1 Rev. 2.0	Total-P	0.10	Y	mg P/L	P344139	
	SM 5310 B-00	Organic Carbon	5.9	Y	mg C/L	P344291	
1986933	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.073		mg P/L	P343972	
1986964	EPA 200.7 Rev. 4.4	Iron	120	U	ug/L	P344068	
	EPA 200.8 Rev. 5.4	Arsenic	3.19		ug/L	P344068	
		Cadmium	0.080	U	ug/L	P344068	
		Chromium	1.6	U	ug/L	P344068	
		Copper	0.80	U	ug/L	P344068	
		Lead	0.50	U	ug/L	P344068	
		Nickel	0.80	U	ug/L	P344068	
		Silver	0.040	U	ug/L	P344068	
		Zinc	4.0	U	ug/L	P344068	

Ref. Method and Comment:

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

EPA 350.1 Rev. 2.0: The sample was received unpreserved: pH > 2. Sample preserved in laboratory.

EPA 351.2 Rev. 2.0: The sample was received unpreserved: pH > 2. Sample preserved in laboratory.

EPA 353.2 Rev. 2.0: The sample was received unpreserved: pH > 2. Sample preserved in laboratory. The result was confirmed on 04/25/2018.

EPA 365.1 Rev. 2.0: Total-P: The sample was received unpreserved: pH > 2. Sample preserved in laboratory.

SM 5310 B-00: The sample was received unpreserved: pH > 2. Sample preserved in laboratory.

Sample Location: Cockroach Bay at Boat Ramp

Collection Date/Time: 04/23/2018 09:00

Field ID: G1SW0089

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986951	EPA 8321B	Aldicarb	0.020	U	ug/L	P343931	
		Aldicarb Sulfone	0.0020	U	ug/L	P343931	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P343931	
		Carbaryl	0.0020	U	ug/L	P343931	
		Carbofuran	0.0020	U	ug/L	P343931	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P343931	
		Methiocarb	0.0020	U	ug/L	P343931	
		Methomyl	0.0020	U	ug/L	P343931	
		Oxamyl	0.0020	U	ug/L	P343931	
		Propoxur	0.0020	U	ug/L	P343931	
1986953		2,4-D	0.0020	U	ug/L	P343931	

Field ID: G1SW0089

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986953	EPA 8321B	Bentazon	0.0019	I	ug/L	P343931	
		MCPD	0.0020	U	ug/L	P343931	
		Triclopyr**	0.0040	U	ug/L	P343931	
		Imidacloprid	0.0020	U	ug/L	P343931	
		Diuron	0.0039	I	ug/L	P343931	
		Pyraclostrobin**	0.0020	U	ug/L	P343931	
		Primidone**	0.0040	U	ug/L	P343931	
		Linuron	0.0040	U	ug/L	P343931	
		Acetaminophen**	0.0080	U	ug/L	P343931	
		Fenuron	0.016	U	ug/L	P343931	
		Imazapyr**	0.0040	U	ug/L	P343931	
		Carbamazepine**	0.0010	I	ug/L	P343931	
		Fluridone**	0.0012	I	ug/L	P343931	
		Hydrocodone**	8.0E-04	U	ug/L	P343931	
		Sucralose**	0.46		ug/L	P343719	
		Glyphosate**	0.10	UJ	ug/L	P343719	MS, SUR
		AMPA**	0.10	UJ	ug/L	P343719	MS, SUR
		Endothall**	0.10	U	ug/L	P343719	
		Glufosinate**	0.10	UJ	ug/L	P343719	MS, SUR
1986959	EPA 8270D	Aldrin	4.2	UJ	ng/L	P344097	RPD
		Alpha-BHC	2.1	U	ng/L	P344097	
		Beta-BHC	4.2	U	ng/L	P344097	
		Delta-BHC	4.2	U	ng/L	P344097	MS
		Gamma-BHC	4.2	U	ng/L	P344097	
		Carbophenothion	4.2	U	ng/L	P344097	
		Chlorothalonil	2.1	U	ng/L	P344097	
		Cypermethrin	21	U	ng/L	P344097	
		DDD-p,p'	3.1	U	ng/L	P344097	
		DDE-p,p'	3.1	U	ng/L	P344097	
		DDT-p,p'	3.1	U	ng/L	P344097	
		Dieldrin	4.2	U	ng/L	P344097	
		Endosulfan I	4.2	U	ng/L	P344097	
		Endosulfan II	4.2	U	ng/L	P344097	
		Endosulfan Sulfate	2.1	U	ng/L	P344097	
		Endrin	2.1	U	ng/L	P344097	
		Endrin Aldehyde	2.1	U	ng/L	P344097	
		Heptachlor	1.6	U	ng/L	P344097	
		Heptachlor Epoxide	2.1	U	ng/L	P344097	
		Methoxychlor	4.2	U	ng/L	P344097	
		Mirex	2.1	U	ng/L	P344097	
		Permethrin	10	U	ng/L	P344097	
		Trifluralin	1.0	U	ng/L	P344097	
		Alpha-Chlordane	1.0	U	ng/L	P344097	
		Gamma-Chlordane	1.0	U	ng/L	P344097	
		Endrin Ketone	2.1	U	ng/L	P344097	MS

Field ID: G1SW0089

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986959	EPA 8270D	Dicofol	31	U	ng/L	P344097	
	EPA 8276	Chlordane**	2.6	U	ng/L	P344097	
		Toxaphene**	31	U	ng/L	P344097	
1986961	EPA 8270D	Alachlor	0.23	U	ng/L	P344213	
		Ametryn	0.46	I	ng/L	P344213	RPD
		Atrazine	7.2		ng/L	P344213	
		Atrazine Desethyl	1.5	I	ng/L	P344213	
		Azinphos Methyl	2.1	U	ng/L	P344213	
		Bromacil	3.7		ng/L	P344213	
		Butylate	0.37	U	ng/L	P344213	RPD
		Chlorpyrifos Ethyl	0.23	U	ng/L	P344213	
		Chlorpyrifos Methyl	0.093	U	ng/L	P344213	
		Demeton	1.9	U	ng/L	P344213	
		Diazinon	0.12	U	ng/L	P344213	
		Disulfoton	0.46	U	ng/L	P344213	
		EPTC	1.2	U	ng/L	P344213	RPD
		Ethion	0.14	U	ng/L	P344213	
		Ethoprop	0.093	U	ng/L	P344213	
		Fenamiphos	0.23	U	ng/L	P344213	
		Fipronil	0.23	U	ng/L	P344213	RPD
		Fipronil Sulfide	0.14	U	ng/L	P344213	MS, RPD
		Fipronil Sulfone	0.14	U	ng/L	P344213	RPD
		Hexazinone	1.2	I	ng/L	P344213	
		Malathion	0.32	U	ng/L	P344213	
		Metribuzin	0.19	U	ng/L	P344213	RPD
		Mevinphos	0.46	U	ng/L	P344213	
		Molinate	0.28	U	ng/L	P344213	
		Norflurazon	0.46	U	ng/L	P344213	MS, RPD
		Pendimethalin	0.93	U	ng/L	P344213	
		Phorate	0.23	UJ	ng/L	P344213	LCS, RPD
		Prometon	0.83	U	ng/L	P344213	
		Prometryn	0.19	U	ng/L	P344213	
		Simazine	1.5	I	ng/L	P344213	MS
		Terbufos	0.093	U	ng/L	P344213	
		Terbuthylazine	0.39	U	ng/L	P344213	
		Fonofos	0.19	U	ng/L	P344213	
		Metalaxyl	0.67	I	ng/L	P344213	
		Metolachlor	0.84	I	ng/L	P344213	
		Acetochlor	0.23	U	ng/L	P344213	
		Cyanazine	0.46	U	ng/L	P344213	RPD
		Parathion Ethyl	0.23	U	ng/L	P344213	
		Parathion Methyl	0.23	U	ng/L	P344213	

Field ID: G1SW0089

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment:							
EPA 8321B: MS accuracy for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample.							
EPA 8321B: Refer to the narrative for an explanation of QC Codes. Precision for glyphosate, AMPA and glufosinate is not available due to no recoveries in the duplicate matrix spikes. Results confirmed in re-extraction.							
EPA 8270D: Refer to the narrative for an explanation of QC Codes.							
EPA 8270D: Matrix spike accuracy for Atrazine and Fipronil Sulfone not assessed due to high content of these parameters in the sample spiked.							
Refer to the narrative for an explanation of QC Codes.							

Sample Location: Cockroach Bay at Boat Ramp_DUP

Collection Date/Time: 04/23/2018 09:10

Field ID: G1SW0089

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986926	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P344002	
	EPA 300.0 Rev. 2.1	Chloride	1.6E+04		mg Cl/L	P344280	
		Sulfate	2.4E+03		mg SO4/L	P344284	
	SM 2120 B	Color (true)	8.4		PCU	P343965	
	SM 2320 B-97	Total Alkalinity	128		mg CaCO3/L	P344176	RPD
	SM 2540 C-97	TDS	2.90E+04		mg/L	P344548	
	SM 2540 D-97	TSS	3	U	mg/L	P344681	
1986930	SM 4500 F-C-97	Fluoride	1.1		mg F/L	P344179	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P344190	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P344087	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.066		mg N/L	P344031	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P344139	
1986934	SM 5310 B-00	Organic Carbon	5.6		mg C/L	P344291	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.071		mg P/L	P343972	
1986965	EPA 200.7 Rev. 4.4	Iron	120	U	ug/L	P344068	
	EPA 200.8 Rev. 5.4	Arsenic	3.09		ug/L	P344068	
		Cadmium	0.080	U	ug/L	P344068	
		Chromium	1.6	U	ug/L	P344068	
		Copper	0.80	U	ug/L	P344068	
		Lead	0.50	U	ug/L	P344068	
		Nickel	0.80	U	ug/L	P344068	
		Silver	0.040	U	ug/L	P344068	
		Zinc	4.0	U	ug/L	P344068	

Ref. Method and Comment:

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

EPA 353.2 Rev. 2.0: The result was confirmed on 04/27/2018.

Sample Location: BLANK_04232018

Collection Date/Time: 04/23/2018 10:50

Field ID: BLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986927	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P344002	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P344280	
		Sulfate	0.20	U	mg SO4/L	P344284	
	SM 2120 B	Color (true)	2.5	U	PCU	P343965	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P344453	RPD

Field ID: BLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986927	SM 2540 C-97	TDS	15	U	mg/L	P344544	
	SM 2540 D-97	TSS	2	U	mg/L	P344674	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P344457	
1986931	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P344431	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P344362	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P344121	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P344081	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P344443	
1986935	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P343971	
1986966	EPA 200.7 Rev. 4.4	Iron	30	U	ug/L	P344067	
		Zinc	5.0	U	ug/L	P344067	
	EPA 200.8 Rev. 5.4	Arsenic	0.050	U	ug/L	P344067	
		Cadmium	0.020	U	ug/L	P344067	
		Chromium	0.40	U	ug/L	P344067	
		Copper	0.20	U	ug/L	P344067	
		Lead	0.050	U	ug/L	P344067	
		Nickel	0.20	U	ug/L	P344067	
		Silver	0.010	U	ug/L	P344067	

Ref. Method and Comment:

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

Sample Location: BLANK_04232018

Collection Date/Time: 04/23/2018 10:50

Field ID: BLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986954	EPA 8321B	2,4-D	0.0020	U	ug/L	P343931	
		Bentazon	8.0E-04	U	ug/L	P343931	
		MCP	0.0020	U	ug/L	P343931	
		Triclopyr**	0.0040	U	ug/L	P343931	
		Imidacloprid	0.0020	U	ug/L	P343931	
		Diuron	0.0020	U	ug/L	P343931	
		Pyraclostrobin**	0.0020	U	ug/L	P343931	
		Primidone**	0.0040	U	ug/L	P343931	
		Linuron	0.0040	U	ug/L	P343931	
		Acetaminophen**	0.0080	U	ug/L	P343931	
		Fenuron	0.016	U	ug/L	P343931	
		Imazapyr**	0.0040	U	ug/L	P343931	
		Carbamazepine**	4.0E-04	U	ug/L	P343931	
		Fluridone**	8.0E-04	U	ug/L	P343931	
		Hydrocodone**	8.0E-04	U	ug/L	P343931	
		Sucralose**	0.10	U	ug/L	P343719	
		Glyphosate**	0.10	U	ug/L	P343719	MS
		AMPA**	0.10	U	ug/L	P343719	MS
		Endothall**	0.10	U	ug/L	P343719	
		Glufosinate**	0.10	U	ug/L	P343719	MS

Field ID: BLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment:							
EPA 8321B: MS accuracy for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample.							
EPA 8321B: Precision for glyphosate, AMPA and glufosinate is not available due to no recoveries in the duplicate matrix spikes.							

Sample Location: Piney Pt Creek @ County Line Rd

Collection Date/Time: 04/23/2018 10:00

Field ID: G1SW0091

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986955	EPA 8321B	2,4-D	0.0020	U	ug/L	P343931	
		Bentazon	0.36		ug/L	P343931	
		MCP	0.0020	U	ug/L	P343931	
		Triclopyr**	0.0040	U	ug/L	P343931	
		Imidacloprid	0.0087		ug/L	P343931	
		Diuron	0.029		ug/L	P343931	
		Pyraclostrobin**	0.0020	U	ug/L	P343931	
		Primidone**	0.0040	U	ug/L	P343931	
		Linuron	0.0040	U	ug/L	P343931	
		Acetaminophen**	0.010	I	ug/L	P343931	
		Fenuron	0.016	U	ug/L	P343931	
		Imazapyr**	0.14		ug/L	P343931	
		Carbamazepine**	4.0E-04	U	ug/L	P343931	
		Fluridone**	8.0E-04	U	ug/L	P343931	
		Hydrocodone**	8.0E-04	U	ug/L	P343931	
		Sucralose**	0.10	U	ug/L	P343719	
		Glyphosate**	0.22	IJ	ug/L	P343719	MS, SUR
		AMPA**	0.10	UJ	ug/L	P343719	MS, SUR
		Endothal**	0.10	U	ug/L	P343719	
		Glufosinate**	0.10	UJ	ug/L	P343719	MS, SUR

Ref. Method and Comment:

EPA 8321B: MS accuracy for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8321B: Refer to the narrative for an explanation of QC Codes. Precision for glyphosate, AMPA and glufosinate is not available due to no recoveries in the duplicate matrix spikes. Results confirmed in re-extraction.

Sample Location: Little Manatee River at SP Boat Ramp

Collection Date/Time: 04/23/2018 10:30

Field ID: G2SW0037

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986922	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P344001	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P344280	
		Sulfate	94		mg SO4/L	P344284	
	SM 2120 B	Color (true)	47	A	PCU	P343965	
	SM 2320 B-97	Total Alkalinity	41		mg CaCO3/L	P344453	RPD
	SM 2540 C-97	TDS	236		mg/L	P344545	
	SM 2540 D-97	TSS	3	I	mg/L	P344675	
	SM 4500 F-C-97	Fluoride	0.30		mg F/L	P344457	
1986923	EPA 350.1 Rev. 2.0	Ammonia-N	0.035		mg N/L	P344431	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.60		mg N/L	P344088	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.44		mg N/L	P344121	

Field ID: G2SW0037

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986923	EPA 365.1 Rev. 2.0	Total-P	0.25		mg P/L	P344081	
	SM 5310 B-00	Organic Carbon	8.6		mg C/L	P344443	
1986924	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.21		mg P/L	P343971	
1986963	EPA 200.7 Rev. 4.4	Calcium	33.4		mg/L	P344067	
		Iron	150		ug/L	P344067	
		Magnesium	14.4		mg/L	P344067	
		Potassium	6.5		mg/L	P344067	
		Sodium	11.5		mg/L	P344067	
		Zinc	5.0	U	ug/L	P344067	
	EPA 200.8 Rev. 5.4	Arsenic	0.74		ug/L	P344067	
		Cadmium	0.035	I	ug/L	P344067	
		Chromium	0.49	I	ug/L	P344067	
		Copper	2.07		ug/L	P344067	
		Lead	0.079	I	ug/L	P344067	
		Nickel	0.44	I	ug/L	P344067	
		Silver	0.010	U	ug/L	P344067	

Ref. Method and Comment:

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

Sample Location: Little Manatee River at SP Boat Ramp

Collection Date/Time: 04/23/2018 10:30

Field ID: G2SW0037

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986949	EPA 8321B	Aldicarb	0.020	U	ug/L	P343931	
		Aldicarb Sulfone	0.0020	U	ug/L	P343931	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P343931	
		Carbaryl	0.0042	I	ug/L	P343931	
		Carbofuran	0.0020	U	ug/L	P343931	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P343931	
		Methiocarb	0.0020	U	ug/L	P343931	
		Methomyl	0.0020	U	ug/L	P343931	
		Oxamyl	0.0020	U	ug/L	P343931	
		Propoxur	0.0020	U	ug/L	P343931	
1986950		2,4-D	0.0020	U	ug/L	P343931	
		Bentazon	0.015		ug/L	P343931	
		MCPP	0.0020	U	ug/L	P343931	
		Triclopyr**	0.0040	U	ug/L	P343931	
		Imidacloprid	0.34		ug/L	P343931	
		Diuron	0.012		ug/L	P343931	
		Pyraclostrobin**	0.0020	U	ug/L	P343931	
		Primidone**	0.0040	U	ug/L	P343931	
		Linuron	0.0040	U	ug/L	P343931	
		Acetaminophen**	0.0080	U	ug/L	P343931	
		Fenuron	0.016	U	ug/L	P343931	
		Imazapyr**	0.15		ug/L	P343931	

Field ID: G2SW0037

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986950	EPA 8321B	Carbamazepine**	4.0E-04	U	ug/L	P343931	
		Fluridone**	0.014		ug/L	P343931	
		Hydrocodone**	8.0E-04	U	ug/L	P343931	
		Sucralose**	0.10	U	ug/L	P343719	
		Glyphosate**	0.10	UJ	ug/L	P343719	MS, SUR
		AMPA**	0.16	IJ	ug/L	P343719	MS, SUR
		Endothal**	0.10	U	ug/L	P343719	
		Glufosinate**	0.10	UJ	ug/L	P343719	MS, SUR
1986957	EPA 8270D	Aldrin	4.3	UJ	ng/L	P344097	RPD
		Alpha-BHC	2.1	U	ng/L	P344097	
		Beta-BHC	4.3	U	ng/L	P344097	
		Delta-BHC	4.3	U	ng/L	P344097	MS
		Gamma-BHC	4.3	U	ng/L	P344097	
		Carbophenothion	4.3	U	ng/L	P344097	
		Chlorothalonil	2.1	U	ng/L	P344097	
		Cypermethrin	21	U	ng/L	P344097	
		DDD-p,p'	3.2	U	ng/L	P344097	
		DDE-p,p'	3.2	U	ng/L	P344097	
		DDT-p,p'	3.2	U	ng/L	P344097	
		Dieldrin	4.3	U	ng/L	P344097	
		Endosulfan I	4.3	U	ng/L	P344097	
		Endosulfan II	4.3	U	ng/L	P344097	
		Endosulfan Sulfate	2.1	U	ng/L	P344097	
		Endrin	2.1	U	ng/L	P344097	
		Endrin Aldehyde	2.1	U	ng/L	P344097	
		Heptachlor	1.6	U	ng/L	P344097	
		Heptachlor Epoxide	2.1	U	ng/L	P344097	
		Methoxychlor	4.3	U	ng/L	P344097	
		Mirex	2.1	U	ng/L	P344097	
		Permethrin	11	U	ng/L	P344097	
		Trifluralin	1.1	U	ng/L	P344097	
		Alpha-Chlordane	1.1	U	ng/L	P344097	
		Gamma-Chlordane	1.1	U	ng/L	P344097	
		Endrin Ketone	2.1	U	ng/L	P344097	MS
		Dicofol	32	U	ng/L	P344097	
		Chlordane**	2.7	U	ng/L	P344097	
		Toxaphene**	32	U	ng/L	P344097	
1986958	EPA 8270D	Alachlor	0.24	U	ng/L	P344213	
		Ametryn	0.79	I	ng/L	P344213	RPD
		Atrazine	20		ng/L	P344213	
		Atrazine Desethyl	1.7	I	ng/L	P344213	
		Azinphos Methyl	2.2	U	ng/L	P344213	
		Bromacil	440		ng/L	P344213	
		Butylate	0.39	U	ng/L	P344213	RPD
		Chlorpyrifos Ethyl	0.47	I	ng/L	P344213	

Field ID: G2SW0037

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986958	EPA 8270D	Chlorpyrifos Methyl	0.097	U	ng/L	P344213	
		Demeton	1.9	U	ng/L	P344213	
		Diazinon	0.30	I	ng/L	P344213	
		Disulfoton	0.48	U	ng/L	P344213	
		EPTC	1.2	U	ng/L	P344213	RPD
		Ethion	0.15	U	ng/L	P344213	
		Ethoprop	0.097	U	ng/L	P344213	
		Fenamiphos	0.24	U	ng/L	P344213	
		Fipronil	0.24	U	ng/L	P344213	RPD
		Fipronil Sulfide	0.15	I	ng/L	P344213	MS, RPD
		Fipronil Sulfone	0.26	I	ng/L	P344213	RPD
		Hexazinone	1.3	I	ng/L	P344213	
		Malathion	18		ng/L	P344213	
		Metribuzin	56		ng/L	P344213	RPD
		Mevinphos	0.48	U	ng/L	P344213	
		Molinate	0.29	U	ng/L	P344213	
		Norflurazon	39		ng/L	P344213	MS, RPD
		Pendimethalin	0.97	U	ng/L	P344213	
		Phorate	0.24	UJ	ng/L	P344213	LCS, RPD
		Prometon	0.87	U	ng/L	P344213	
		Prometryn	0.19	U	ng/L	P344213	
		Simazine	5.5		ng/L	P344213	MS
		Terbufos	0.097	U	ng/L	P344213	
		Terbuthylazine	0.41	U	ng/L	P344213	
		Fonofos	0.19	U	ng/L	P344213	
		Metalaxyl	14		ng/L	P344213	
		Metolachlor	44		ng/L	P344213	
		Acetochlor	0.24	U	ng/L	P344213	
		Cyanazine	0.48	U	ng/L	P344213	RPD
		Parathion Ethyl	0.24	U	ng/L	P344213	
		Parathion Methyl	0.24	U	ng/L	P344213	

Ref. Method and Comment:

EPA 8321B: MS accuracy for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8321B: Refer to the narrative for an explanation of QC Codes. Precision for glyphosate, AMPA and glufosinate is not available due to no recoveries in the duplicate matrix spikes. Results confirmed in re-extraction.

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

EPA 8270D: Matrix spike accuracy for Atrazine and Fipronil Sulfone not assessed due to high content of these parameters in the sample spiked.

Refer to the narrative for an explanation of QC Codes.

Sample Location: Cockroach Bay at Dockage

Collection Date/Time: 04/23/2018 09:20

Field ID: G1SW0090

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986928	EPA 180.1 Rev. 2.0	Turbidity	5.6	A	NTU	P344002	
	EPA 300.0 Rev. 2.1	Chloride	1.5E+04		mg Cl/L	P344280	
		Sulfate	2.2E+03		mg SO4/L	P344284	
	SM 2120 B	Color (true)	14		PCU	P343965	

Field ID: G1SW0090

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986928	SM 2320 B-97	Total Alkalinity	136		mg CaCO3/L	P344176	RPD
	SM 2540 C-97	TDS	2.84E+04		mg/L	P344549	
	SM 2540 D-97	TSS	8	I	mg/L	P344681	
	SM 4500 F-C-97	Fluoride	1.1		mg F/L	P344179	
1986932	EPA 350.1 Rev. 2.0	Ammonia-N	0.059		mg N/L	P344190	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.95		mg N/L	P344087	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.01	I	mg N/L	P344031	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P344139	
	SM 5310 B-00	Organic Carbon	7.6		mg C/L	P344291	
1986936	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.11		mg P/L	P343972	
1986967	EPA 200.7 Rev. 4.4	Iron	240	I	ug/L	P344068	
	EPA 200.8 Rev. 5.4	Arsenic	4.49		ug/L	P344068	
		Cadmium	0.080	U	ug/L	P344068	
		Chromium	1.6	U	ug/L	P344068	
		Copper	1.8	I	ug/L	P344068	
		Lead	0.50	U	ug/L	P344068	
		Nickel	0.99	I	ug/L	P344068	
		Silver	0.040	U	ug/L	P344068	
		Zinc	4.0	U	ug/L	P344068	

Ref. Method and Comment:

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

Sample Location: Cockroach Bay at Dockage

Collection Date/Time: 04/23/2018 09:20

Field ID: G1SW0090

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986952	EPA 8321B	Aldicarb	0.020	U	ug/L	P343931	
		Aldicarb Sulfone	0.0020	U	ug/L	P343931	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P343931	
		Carbaryl	0.0020	U	ug/L	P343931	
		Carbofuran	0.0020	U	ug/L	P343931	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P343931	
		Methiocarb	0.0020	U	ug/L	P343931	
		Methomyl	0.0020	U	ug/L	P343931	
		Oxamyl	0.0020	U	ug/L	P343931	
		Propoxur	0.0020	U	ug/L	P343931	
		2,4-D	0.0020	U	ug/L	P343931	
1986956		Bentazon	0.0011	I	ug/L	P343931	
		MCPP	0.0020	U	ug/L	P343931	
		Triclopyr**	0.0040	U	ug/L	P343931	
		Imidacloprid	0.0060	I	ug/L	P343931	
		Diuron	0.031		ug/L	P343931	
		Pyraclostrobin**	0.0020	U	ug/L	P343931	
		Primidone**	0.015	I	ug/L	P343931	
		Linuron	0.0040	U	ug/L	P343931	

Field ID: G1SW0090

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986956	EPA 8321B	Acetaminophen**	0.0080	U	ug/L	P343931	
		Fenuron	0.016	U	ug/L	P343931	
		Imazapyr**	0.023		ug/L	P343931	
		Carbamazepine**	0.0014	I	ug/L	P343931	
		Fluridone**	0.0012	I	ug/L	P343931	
		Hydrocodone**	8.0E-04	U	ug/L	P343931	
		Sucralose**	0.60		ug/L	P343719	
		Glyphosate**	0.10	UJ	ug/L	P343719	MS, SUR
		AMPA**	0.10	UJ	ug/L	P343719	MS, SUR
		Endothall**	0.10	U	ug/L	P343719	
		Glufosinate**	0.10	UJ	ug/L	P343719	MS, SUR
1986960	EPA 8270D	Aldrin	4.2	UJ	ng/L	P344097	RPD
		Alpha-BHC	2.1	U	ng/L	P344097	
		Beta-BHC	4.2	U	ng/L	P344097	
		Delta-BHC	4.2	U	ng/L	P344097	MS
		Gamma-BHC	4.2	U	ng/L	P344097	
		Carbophenothion	4.2	U	ng/L	P344097	
		Chlorothalonil	2.1	U	ng/L	P344097	
		Cypermethrin	21	U	ng/L	P344097	
		DDD-p,p'	3.1	U	ng/L	P344097	
		DDE-p,p'	3.1	U	ng/L	P344097	
		DDT-p,p'	3.1	U	ng/L	P344097	
		Dieldrin	4.2	U	ng/L	P344097	
		Endosulfan I	4.2	U	ng/L	P344097	
		Endosulfan II	4.2	U	ng/L	P344097	
		Endosulfan Sulfate	2.1	U	ng/L	P344097	
		Endrin	2.1	U	ng/L	P344097	
		Endrin Aldehyde	2.1	U	ng/L	P344097	
		Heptachlor	1.6	U	ng/L	P344097	
		Heptachlor Epoxide	2.1	U	ng/L	P344097	
		Methoxychlor	4.2	U	ng/L	P344097	
		Mirex	2.1	U	ng/L	P344097	
		Permethrin	10	U	ng/L	P344097	
		Trifluralin	1.0	U	ng/L	P344097	
		Alpha-Chlordane	1.0	U	ng/L	P344097	
		Gamma-Chlordane	1.0	U	ng/L	P344097	
		Endrin Ketone	2.1	U	ng/L	P344097	MS
		Dicofol	31	U	ng/L	P344097	
	EPA 8276	Chlordane**	2.6	U	ng/L	P344097	
		Toxaphene**	31	U	ng/L	P344097	
1986962	EPA 8270D	Alachlor	0.23	U	ng/L	P344213	
		Ametryn	0.65	I	ng/L	P344213	RPD
		Atrazine	6.4		ng/L	P344213	
		Atrazine Desethyl	1.6	I	ng/L	P344213	
		Azinphos Methyl	2.1	U	ng/L	P344213	

Field ID: G1SW0090

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1986962	EPA 8270D	Bromacil	9.2		ng/L	P344213	
		Butylate	0.37	U	ng/L	P344213	RPD
		Chlorpyrifos Ethyl	0.23	U	ng/L	P344213	
		Chlorpyrifos Methyl	0.093	U	ng/L	P344213	
		Demeton	1.9	U	ng/L	P344213	
		Diazinon	0.12	U	ng/L	P344213	
		Disulfoton	0.46	U	ng/L	P344213	
		EPTC	1.2	U	ng/L	P344213	RPD
		Ethion	0.14	U	ng/L	P344213	
		Ethoprop	0.093	U	ng/L	P344213	
		Fenamiphos	0.23	U	ng/L	P344213	
		Fipronil	0.23	U	ng/L	P344213	RPD
		Fipronil Sulfide	0.14	U	ng/L	P344213	MS, RPD
		Fipronil Sulfone	0.14	U	ng/L	P344213	RPD
		Hexazinone	3.4		ng/L	P344213	
		Malathion	0.33	U	ng/L	P344213	
		Metribuzin	0.19	U	ng/L	P344213	RPD
		Mevinphos	0.46	U	ng/L	P344213	
		Molinate	0.28	U	ng/L	P344213	
		Norflurazon	0.51	I	ng/L	P344213	MS, RPD
		Pendimethalin	0.93	U	ng/L	P344213	
		Phorate	0.23	UJ	ng/L	P344213	LCS, RPD
		Prometon	0.84	U	ng/L	P344213	
		Prometryn	0.19	U	ng/L	P344213	
		Simazine	0.64	I	ng/L	P344213	MS
		Terbufos	0.093	U	ng/L	P344213	
		Terbutylazine	0.39	U	ng/L	P344213	
		Fonofos	0.19	U	ng/L	P344213	
		Metaxyl	0.65	I	ng/L	P344213	
		Metolachlor	0.51	I	ng/L	P344213	
		Acetochlor	0.23	U	ng/L	P344213	
		Cyanazine	0.46	U	ng/L	P344213	RPD
		Parathion Ethyl	0.23	U	ng/L	P344213	
		Parathion Methyl	0.23	U	ng/L	P344213	

Ref. Method and Comment:

EPA 8321B: MS accuracy for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8321B: Refer to the narrative for an explanation of QC Codes. Precision for glyphosate, AMPA and glufosinate is not available due to no recoveries in the duplicate matrix spikes. Results confirmed in re-extraction.

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

EPA 8270D: Matrix spike accuracy for Atrazine and Fipronil Sulfone not assessed due to high content of these parameters in the sample spiked. Refer to the narrative for an explanation of QC Codes.

Non-Conformance Report

NCR ID: 6994

Event(s)

SW-DIST-2018-04-24-02

Job(s)

TLH-2018-04-24-78

Sample(s)

1986954

Test(s)

Non-Conformance Report

NCR ID: 6994

<u>Event(s)</u>	<u>Job(s)</u>	<u>Sample(s)</u>	<u>Test(s)</u>
NCR Type: SHIPPING/RECEIVING		NCR Category:	Sample Integrity
Observation:	Sample received with cracked cap.		
Resolution:	Cracked cap replaced in lab.Note written on container in red ink.		

Authorized by/Date: Joshua Ayres 4/27/2018

NCR ID: 7005

<u>Event(s)</u>	<u>Job(s)</u>	<u>Sample(s)</u>	<u>Test(s)</u>
SW-DIST-2018-04-24-02	TLH-2018-04-24-74	1986929	
NCR Type: SHIPPING/RECEIVING		NCR Category:	Preservation Not Intact
Observation:	Sample not preserved to pH < 2.		
Resolution:	Sample preserved in the laboratory with sulfuric acid. H2SO4 Lot# SA 7163030 Expiration Date: 06/12/2018		

Authorized by/Date: Joshua Ayres 4/27/2018

NCR ID: 7006

<u>Event(s)</u>	<u>Job(s)</u>	<u>Sample(s)</u>	<u>Test(s)</u>
SW-DIST-2018-04-24-02	TLH-2018-04-24-80	1986964	
NCR Type: SHIPPING/RECEIVING		NCR Category:	Preservation Not Intact
Observation:	Sample not preserved to pH < 2.		
Resolution:	Sample preserved in the laboratory with nitric acid 04/24/2018 at 11:30. HNO3 Lot# NA7226050 Expiration Date: 08/14/2018		

Authorized by/Date: Joshua Ayres 6/1/2018

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P344001

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P344002

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P344067

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 200.7 Rev. 4.4
Batch ID: P344068

Component	Result	Code	Units
Iron	30	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P344067

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 200.8 Rev. 5.4
Batch ID: P344068

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
Zinc	1.0	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344280

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344284

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

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Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P344190

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P344431

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344087

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344088

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344362

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P344031

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P344121

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P344081

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P344139

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P343971

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P343972

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

Reference Method: EPA 8270D
Batch ID: P344097

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: P344213

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D

Batch ID: P344213

Component	Result	Code	Units
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
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
Metalaxyl	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
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8276

Batch ID: P344097

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

Reference Method: EPA 8321B

Batch ID: P343719

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	0.10	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P343931

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
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	8.0E-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: P343965

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P344176

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

Reference Method: SM 2320 B-97
Batch ID: P344453

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

Reference Method: SM 2540 C-97
Batch ID: P344544

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P344545

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P344548

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P344549

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P344674

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P344675

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P344681

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P344179

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P344457

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P344291

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

Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00
Batch ID: P344443

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: P344067

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	107		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	99.1		P	85 - 115
Sodium	98.7		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P344068

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P344067

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	99.4		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	97.1		P	85 - 115
Copper	94.8		P	85 - 115
Lead	96.1		P	85 - 115
Nickel	97.8		P	85 - 115
Silver	98.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P344068

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	100		P	85 - 115
Cadmium	99.5		P	85 - 115
Chromium	97.3		P	85 - 115
Copper	94.7		P	85 - 115
Lead	95.5		P	85 - 115
Nickel	97.4		P	85 - 115
Silver	98.3		P	85 - 115
Zinc	97.8		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344280

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344280

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344284

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P344190

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P344431

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: P344087

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344088

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	109		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344362

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P344031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P344121

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P344081

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P344139

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P343971

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.9		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P343972

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

Reference Method: EPA 8270D
Batch ID: P344097

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	27.1	43.2	P/P	24 - 89.0
Alpha-BHC	82.1	81.9	P/P	58 - 117
Alpha-Chlordane	79.7	84.8	P/P	56 - 115
Beta-BHC	93.8	100	P/P	55 - 137
Carbophenothion	78.0	81.8	P/P	37 - 145
Chlorothalonil	95.6	86.7	P/P	26 - 163
Cypermethrin	71.0	73.6	P/P	42 - 156
DDD-p,p'	91.5	96.0	P/P	59 - 129
DDE-p,p'	78.2	85.4	P/P	52 - 117
DDT-p,p'	88.3	89.7	P/P	48 - 128
Delta-BHC	101	105	P/P	59 - 158
Dicofol	81.2	81.7	P/P	19 - 124
Dieldrin	88.0	92.1	P/P	57 - 126
Endosulfan I	93.6	94.8	P/P	59 - 133
Endosulfan II	108	103	P/P	58 - 148
Endosulfan Sulfate	93.9	91.2	P/P	56 - 135
Endrin	83.4	97.9	P/P	50 - 140
Endrin Aldehyde	87.9	87.3	P/P	47 - 141
Endrin Ketone	90.5	87.8	P/P	63 - 123
Gamma-BHC	80.6	82.9	P/P	59 - 132
Gamma-Chlordane	76.6	81.1	P/P	55 - 112
Heptachlor	67.2	70.0	P/P	45 - 102
Heptachlor Epoxide	87.2	86.4	P/P	61 - 116
Methoxychlor	95.5	93.4	P/P	60 - 133
Mirex	63.2	69.2	P/P	40 - 98.0
Permethrin	70.1	77.4	P/P	45 - 131
Trifluralin	81.0	81.8	P/P	38 - 179

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P344213

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	82.2	88.1	P/P	74 - 119
Alachlor	79.5	84.6	P/P	75 - 118
Ametryn	81.4	72.8	P/P	59 - 137
Atrazine	92.9	97.4	P/P	73 - 120
Atrazine Desethyl	84.7	80.0	P/P	19 - 129
Azinphos Methyl	121	131	P/P	65 - 181
Bromacil	69.5	68.5	P/P	43 - 123
Butylate	41.1	40.8	P/P	28 - 85.0
Chlorpyrifos Ethyl	86.5	87.8	P/P	55 - 112
Chlorpyrifos Methyl	99.8	96.1	P/P	35 - 124
Cyanazine	137	124	P/P	26 - 262
Demeton	54.9	51.9	P/P	43 - 122
Diazinon	103	101	P/P	72 - 120
Disulfoton	74.1	65.8	P/P	45 - 137
EPTC	35.3	41.4	P/P	28 - 95.0
Ethion	81.7	79.9	P/P	63 - 127
Ethoprop	94.3	83.5	P/P	63 - 109
Fenamiphos	68.1	67.6	P/P	66 - 136
Fipronil	68.3	69.8	P/P	63 - 126
Fipronil Sulfide	68.5	59.2	P/P	59 - 123
Fipronil Sulfone	65.2	60.5	P/P	56 - 122
Fonofos	108	99.6	P/P	64 - 114
Hexazinone	98.3	97.4	P/P	49 - 144
Malathion	92.4	76.0	P/P	68 - 131
Metaxyl	76.5	77.5	P/P	57 - 126
Metolachlor	79.2	80.6	P/P	75 - 118
Metribuzin	154	139	P/P	46 - 169
Mevinphos	86.0	73.1	P/P	34 - 126
Molinate	51.2	49.9	P/P	37 - 101
Norflurazon	71.1	69.3	P/P	63 - 127
Parathion Ethyl	84.2	85.4	P/P	78 - 109
Parathion Methyl	102	106	P/P	74 - 123
Pendimethalin	92.2	97.4	P/P	51 - 130
Phorate	73.1	52.7	P/F	53 - 116
Prometon	70.0	76.0	P/P	66 - 124
Prometryn	74.6	73.8	P/P	66 - 124
Simazine	104	109	P/P	62 - 134
Terbufos	91.7	78.6	P/P	59 - 115
Terbutylazine	87.9	87.4	P/P	76 - 113

Reference Method: EPA 8276
Batch ID: P344097

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	79.9	92.2	P/P	47 - 125
Toxaphene	64.3	80.3	P/P	46 - 147

Reference Method: EPA 8321B
Batch ID: P343719

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	85.0		P	40 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P343719

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endothall	84.3		P	40 - 140
Glufosinate	88.3		P	40 - 140
Glyphosate	105		P	40 - 140
Sucralose	88.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P343931

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	88.8		P	40 - 150
3-Hydroxycarbofuran	93.8		P	40 - 150
Acetaminophen	93.1		P	30 - 150
Aldicarb	104		P	30 - 150
Aldicarb Sulfone	97.7		P	40 - 150
Aldicarb Sulfoxide	105		P	40 - 150
Bentazon	117		P	30 - 150
Carbamazepine	96.8		P	40 - 150
Carbaryl	83.8		P	40 - 150
Carbofuran	85.6		P	40 - 150
Diuron	90.4		P	40 - 150
Fenuron	110		P	40 - 150
Fluridone	87.8		P	40 - 150
Hydrocodone	115		P	40 - 150
Imazapyr	104		P	40 - 150
Imidacloprid	104		P	40 - 160
Linuron	90.8		P	40 - 150
MCPP	103		P	40 - 150
Methiocarb	87.6		P	40 - 150
Methomyl	98.1		P	40 - 150
Oxamyl	87.3		P	40 - 150
Primidone	97.8		P	40 - 150
Propoxur	86.6		P	40 - 150
Pyraclostrobin	83.1		P	40 - 150
Triclopyr	106		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P344176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 107

Reference Method: SM 2320 B-97
Batch ID: P344453

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P344179

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.7		P	91 - 105

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P344457

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.5		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P344291

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P344443

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P344067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986963	Calcium	98.6		P	80 - 120
1986963	Iron	102	103	P/P	80 - 120
1986963	Magnesium	97.5		P	80 - 120
1986963	Potassium	96.4		P	80 - 120
1986963	Sodium	96.8		P	80 - 120
1986963	Zinc	95.7	96.6	P/P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P344068

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986497	Iron	104	105	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P344067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986963	Arsenic	102	101	P/P	80 - 120
1986963	Cadmium	101	100	P/P	80 - 120
1986963	Chromium	95.7	95.0	P/P	80 - 120
1986963	Copper	94.5	94.4	P/P	80 - 120
1986963	Lead	99.0	97.6	P/P	80 - 120
1986963	Nickel	97.2	96.3	P/P	80 - 120
1986963	Silver	99.0	98.4	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P344068

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986497	Arsenic	104	105	P/P	70 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P344068

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986497	Cadmium	84.3	86.9	P/P	70 - 130
1986497	Chromium	80.4	80.9	P/P	70 - 130
1986497	Copper	96.2	96.4	P/P	70 - 130
1986497	Lead	101	102	P/P	70 - 130
1986497	Nickel	102	103	P/P	70 - 130
1986497	Silver	86.7	87.4	P/P	70 - 130
1986497	Zinc	87.2	88.1	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344280

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986644	Chloride	97.9		P	90 - 110
1986809	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986644	Sulfate	94.3		P	90 - 110
1986809	Sulfate	93.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P344190

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986707	Ammonia-N	103	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P344431

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986735	Ammonia-N	103	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344087

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1985153	Kjeldahl Nitrogen	104	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986923	Kjeldahl Nitrogen	92.7	99.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344362

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1987073	Kjeldahl Nitrogen	106	107	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P344031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986630	NO2NO3-N	97.0	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P344121

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986735	NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P344081

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986923	Total-P	94.8	94.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P344139

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1987130	Total-P	93.5	95.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P343971

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986740	O-Phosphate-P	100	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P343972

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986710	O-Phosphate-P	98.7	98.2	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P344097

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986669	Aldrin	58.8	56.9	P/P	26 - 96.0
1986669	Alpha-BHC	84.0	82.2	P/P	51 - 123
1986669	Alpha-Chlordane	68.2	63.9	P/P	45 - 120
1986669	Beta-BHC	94.0	81.3	P/P	43 - 146
1986669	Carbophenothion	102	101	P/P	26 - 179
1986669	Chlorothalonil	145	128	P/P	10 - 215
1986669	Cypermethrin	109	109	P/P	35 - 169
1986669	DDD-p,p'	76.6	74.4	P/P	49 - 131
1986669	DDE-p,p'	62.8	62.3	P/P	39 - 127
1986669	DDT-p,p'	86.2	89.4	P/P	49 - 120
1986669	Delta-BHC	269	253	F/F	49 - 187
1986669	Dicofol	77.7	65.1	P/P	10 - 129
1986669	Dieldrin	66.8	60.4	P/P	46 - 132
1986669	Endosulfan I	69.3	63.0	P/P	57 - 130
1986669	Endosulfan II	106	102	P/P	52 - 148
1986669	Endosulfan Sulfate	100	90.8	P/P	55 - 129

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P344097

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986669	Endrin	102	76.6	P/P	45 - 133
1986669	Endrin Aldehyde	61.7	54.3	P/P	26 - 140
1986669	Endrin Ketone	129	113	F/P	60 - 125
1986669	Gamma-BHC	97.1	90.3	P/P	50 - 145
1986669	Gamma-Chlordane	68.4	63.9	P/P	44 - 118
1986669	Heptachlor	64.8	61.7	P/P	35 - 106
1986669	Heptachlor Epoxide	81.2	74.8	P/P	52 - 123
1986669	Methoxychlor	85.7	82.8	P/P	54 - 132
1986669	Mirex	58.4	54.3	P/P	36 - 107
1986669	Permethrin	83.0	85.2	P/P	47 - 135
1986669	Trifluralin	69.7	66.9	P/P	32 - 228

Reference Method: EPA 8270D
Batch ID: P344213

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986670	Acetochlor	87.0	79.1	P/P	67 - 125
1986670	Alachlor	88.0	80.0	P/P	69 - 123
1986670	Ametryn	135	76.5	P/P	52 - 151
1986670	Atrazine Desethyl	64.0	36.8	P/P	10 - 129
1986670	Azinphos Methyl	135	112	P/P	48 - 200
1986670	Bromacil	79.3	64.0	P/P	46 - 130
1986670	Butylate	44.6	32.2	P/P	10 - 85.0
1986670	Chlorpyrifos Ethyl	77.4	76.4	P/P	54 - 115
1986670	Chlorpyrifos Methyl	96.8	93.4	P/P	44 - 117
1986670	Cyanazine	115	80.3	P/P	10 - 262
1986670	Demeton	71.2	70.2	P/P	24 - 145
1986670	Diazinon	110	98.8	P/P	66 - 129
1986670	Disulfoton	107	92.1	P/P	45 - 139
1986670	EPTC	43.4	31.0	P/P	10 - 86.0
1986670	Ethion	83.2	81.7	P/P	59 - 133
1986670	Ethoprop	110	97.1	P/P	54 - 116
1986670	Fenamiphos	69.8	59.7	P/P	55 - 140
1986670	Fipronil	65.6	41.5	P/P	37 - 142
1986670	Fipronil Sulfide	49.4	16.9	P/F	37 - 130
1986670	Fonofos	104	114	P/P	55 - 118
1986670	Hexazinone	99.5	89.9	P/P	62 - 140
1986670	Malathion	97.6	87.8	P/P	64 - 132
1986670	Metalaxyl	84.5	74.5	P/P	55 - 129
1986670	Metolachlor	85.0	76.5	P/P	56 - 137
1986670	Metribuzin	168	74.3	P/P	16 - 218
1986670	Mevinphos	103	82.5	P/P	34 - 129
1986670	Molinate	57.9	45.1	P/P	16 - 99.0
1986670	Norflurazon	56.7	33.1	P/F	43 - 135
1986670	Parathion Ethyl	86.9	81.0	P/P	71 - 112
1986670	Parathion Methyl	98.1	92.9	P/P	65 - 127
1986670	Pendimethalin	91.8	98.5	P/P	35 - 159
1986670	Phorate	92.7	84.2	P/P	41 - 129
1986670	Prometon	83.0	74.2	P/P	56 - 140
1986670	Prometryn	76.4	69.5	P/P	65 - 130
1986670	Simazine	270	232	F/F	54 - 148
1986670	Terbufos	99.0	98.2	P/P	53 - 126

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
 Batch ID: P344213

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986670	Terbutylazine	86.8	83.5	P/P	73 - 114

Reference Method: EPA 8276
 Batch ID: P344097

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986957	Chlordane	83.8	87.1	P/P	41 - 134
1986957	Toxaphene	71.5	70.1	P/P	39 - 158

Reference Method: EPA 8321B
 Batch ID: P343719

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986060	AMPA	0.0	0.0	F/F	40 - 140
1986060	Endothall	70.2	72.9	P/P	40 - 140
1986060	Glufosinate	0.0	0.0	F/F	40 - 140
1986060	Glyphosate	0.0	0.0	F/F	40 - 140
1986060	Sucralose	46.4	49.1	P/P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P343931

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986950	2,4-D	80.1	76.0	P/P	40 - 150
1986950	3-Hydroxycarbofuran	122	103	P/P	40 - 150
1986950	Acetaminophen	128	117	P/P	30 - 150
1986950	Aldicarb	115	90.1	P/P	30 - 150
1986950	Aldicarb Sulfone	134	122	P/P	40 - 150
1986950	Aldicarb Sulfoxide	113	97.1	P/P	40 - 150
1986950	Bentazon	75.6	68.5	P/P	30 - 150
1986950	Carbamazepine	116	108	P/P	40 - 150
1986950	Carbaryl	81.4	68.2	P/P	40 - 150
1986950	Carbofuran	85.2	78.1	P/P	40 - 150
1986950	Diuron	96.5	88.5	P/P	40 - 150
1986950	Fenuron	121	108	P/P	40 - 150
1986950	Fluridone	88.8	80.4	P/P	40 - 150
1986950	Hydrocodone	146	135	P/P	40 - 150
1986950	Imazapyr	119	87.0	P/P	40 - 150
1986950	Linuron	100	89.9	P/P	40 - 150
1986950	MCPP	92.7	84.2	P/P	40 - 150
1986950	Methiocarb	99.0	84.3	P/P	40 - 150
1986950	Methomyl	95.7	88.8	P/P	40 - 150
1986950	Oxamyl	95.5	88.1	P/P	40 - 150
1986950	Primidone	131	110	P/P	40 - 150
1986950	Propoxur	85.9	73.8	P/P	40 - 150
1986950	Pyraclostrobin	103	97.6	P/P	40 - 150
1986950	Triclopyr	96.1	88.3	P/P	40 - 150

Reference Method: SM 4500 F-C-97
 Batch ID: P344179

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

Reference Method: SM 4500 F-C-97
Batch ID: P344179

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1987127	Fluoride	92.4	92.4	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P344457

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986644	Fluoride	94.2	94.7	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P344291

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986430	Organic Carbon	93.6	94.0	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P344443

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1986923	Organic Carbon	96.7	95.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P344001

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986706	Turbidity	6.48	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P344002

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986928	Turbidity	3.56	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P344067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986963	Calcium	0.353	Spike	P	0 - 20
1986963	Iron	1.07	Spike	P	0 - 20
1986963	Magnesium	1.37	Spike	P	0 - 20
1986963	Potassium	0.551	Spike	P	0 - 20
1986963	Sodium	0.244	Spike	P	0 - 20
1986963	Zinc	0.907	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P344068

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986497	Iron	0.934	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P344067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986963	Arsenic	0.452	Spike	P	0 - 20
1986963	Cadmium	0.908	Spike	P	0 - 20
1986963	Chromium	0.706	Spike	P	0 - 20
1986963	Copper	0.122	Spike	P	0 - 20
1986963	Lead	1.42	Spike	P	0 - 20
1986963	Nickel	0.923	Spike	P	0 - 20
1986963	Silver	0.554	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P344068

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986497	Arsenic	1.10	Spike	P	0 - 20
1986497	Cadmium	3.05	Spike	P	0 - 20
1986497	Chromium	0.641	Spike	P	0 - 20
1986497	Copper	0.273	Spike	P	0 - 20
1986497	Lead	0.986	Spike	P	0 - 20
1986497	Nickel	0.443	Spike	P	0 - 20
1986497	Silver	0.829	Spike	P	0 - 20
1986497	Zinc	1.11	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344280

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986644	Chloride	0.740	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P344284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986644	Sulfate	0.991	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P344190

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986707	Ammonia-N	0.530	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P344431

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986735	Ammonia-N	0.308	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344087

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1985153	Kjeldahl Nitrogen	0.622	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986923	Kjeldahl Nitrogen	4.59	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P344362

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1987073	Kjeldahl Nitrogen	1.17	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P344031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986630	NO2NO3-N	1.53	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P344121

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986735	NO2NO3-N	0.215	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P344081

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986923	Total-P	0.112	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P344139

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1987130	Total-P	1.67	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P343971

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986740	O-Phosphate-P	0.498	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P343972

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986710	O-Phosphate-P	0.294	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P344097

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986669	Aldrin	3.18	Spike	P	0 - 30
1986669	Alpha-BHC	2.12	Spike	P	0 - 30
1986669	Alpha-Chlordane	6.55	Spike	P	0 - 30
1986669	Beta-BHC	14.4	Spike	P	0 - 30
1986669	Carbophenothion	0.926	Spike	P	0 - 30
1986669	Chlorothalonil	12.6	Spike	P	0 - 30
1986669	Cypermethrin	0.711	Spike	P	0 - 30
1986669	DDD-p,p'	2.91	Spike	P	0 - 30
1986669	DDE-p,p'	0.696	Spike	P	0 - 30
1986669	DDT-p,p'	3.59	Spike	P	0 - 30
1986669	Delta-BHC	6.38	Spike	P	0 - 30
1986669	Dicofol	17.7	Spike	P	0 - 30
1986669	Dieldrin	10.1	Spike	P	0 - 30
1986669	Endosulfan I	9.47	Spike	P	0 - 30
1986669	Endosulfan II	3.54	Spike	P	0 - 30
1986669	Endosulfan Sulfate	9.71	Spike	P	0 - 30
1986669	Endrin	28.1	Spike	P	0 - 30
1986669	Endrin Aldehyde	12.8	Spike	P	0 - 30
1986669	Endrin Ketone	13.3	Spike	P	0 - 30
1986669	Gamma-BHC	7.24	Spike	P	0 - 30
1986669	Gamma-Chlordane	6.86	Spike	P	0 - 30
1986669	Heptachlor	4.82	Spike	P	0 - 30
1986669	Heptachlor Epoxide	8.18	Spike	P	0 - 30
1986669	Methoxychlor	3.53	Spike	P	0 - 30
1986669	Mirex	7.30	Spike	P	0 - 30
1986669	Permethrin	2.64	Spike	P	0 - 30
1986669	Trifluralin	4.05	Spike	P	0 - 30
LFB	Aldrin	45.7	LCS	F	0 - 30
LFB	Alpha-BHC	0.198	LCS	P	0 - 30
LFB	Alpha-Chlordane	6.20	LCS	P	0 - 30
LFB	Beta-BHC	6.74	LCS	P	0 - 30
LFB	Carbophenothion	4.82	LCS	P	0 - 30
LFB	Chlorothalonil	9.76	LCS	P	0 - 30
LFB	Cypermethrin	3.59	LCS	P	0 - 30
LFB	DDD-p,p'	4.73	LCS	P	0 - 30
LFB	DDE-p,p'	8.86	LCS	P	0 - 30
LFB	DDT-p,p'	1.51	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P344097

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Delta-BHC	4.43	LCS	P	0 - 30
LFB	Dicofol	0.618	LCS	P	0 - 30
LFB	Dieldrin	4.59	LCS	P	0 - 30
LFB	Endosulfan I	1.32	LCS	P	0 - 30
LFB	Endosulfan II	5.00	LCS	P	0 - 30
LFB	Endosulfan Sulfate	2.90	LCS	P	0 - 30
LFB	Endrin	16.0	LCS	P	0 - 30
LFB	Endrin Aldehyde	0.717	LCS	P	0 - 30
LFB	Endrin Ketone	3.03	LCS	P	0 - 30
LFB	Gamma-BHC	2.84	LCS	P	0 - 30
LFB	Gamma-Chlordane	5.69	LCS	P	0 - 30
LFB	Heptachlor	4.07	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.953	LCS	P	0 - 30
LFB	Methoxychlor	2.20	LCS	P	0 - 30
LFB	Mirex	9.00	LCS	P	0 - 30
LFB	Permethrin	9.92	LCS	P	0 - 30
LFB	Trifluralin	1.00	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P344213

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986670	Acetochlor	9.62	Spike	P	0 - 30
1986670	Alachlor	9.48	Spike	P	0 - 30
1986670	Ametryn	55.2	Spike	F	0 - 30
1986670	Atrazine	5.51	Spike	P	0 - 30
1986670	Atrazine Desethyl	26.6	Spike	P	0 - 30
1986670	Azinphos Methyl	18.5	Spike	P	0 - 30
1986670	Bromacil	21.4	Spike	P	0 - 30
1986670	Butylate	32.4	Spike	F	0 - 30
1986670	Chlorpyrifos Ethyl	1.25	Spike	P	0 - 30
1986670	Chlorpyrifos Methyl	3.50	Spike	P	0 - 30
1986670	Cyanazine	35.6	Spike	F	0 - 30
1986670	Demeton	1.35	Spike	P	0 - 30
1986670	Diazinon	10.6	Spike	P	0 - 30
1986670	Disulfoton	14.6	Spike	P	0 - 30
1986670	EPTC	33.2	Spike	F	0 - 30
1986670	Ethion	1.80	Spike	P	0 - 30
1986670	Ethoprop	12.0	Spike	P	0 - 30
1986670	Fenamiphos	15.5	Spike	P	0 - 30
1986670	Fipronil	39.9	Spike	F	0 - 30
1986670	Fipronil Sulfide	37.2	Spike	F	0 - 30
1986670	Fipronil Sulfone	42.2	Spike	F	0 - 30
1986670	Fonofos	8.96	Spike	P	0 - 30
1986670	Hexazinone	10.1	Spike	P	0 - 30
1986670	Malathion	10.6	Spike	P	0 - 30
1986670	Metaxyl	12.6	Spike	P	0 - 30
1986670	Metolachlor	10.1	Spike	P	0 - 30
1986670	Metribuzin	77.1	Spike	F	0 - 30
1986670	Mevinphos	22.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P344213

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986670	Molinate	24.7	Spike	P	0 - 30
1986670	Norflurazon	52.6	Spike	F	0 - 30
1986670	Parathion Ethyl	7.01	Spike	P	0 - 30
1986670	Parathion Methyl	5.40	Spike	P	0 - 30
1986670	Pendimethalin	7.01	Spike	P	0 - 30
1986670	Phorate	9.68	Spike	P	0 - 30
1986670	Prometon	11.2	Spike	P	0 - 30
1986670	Prometryn	9.39	Spike	P	0 - 30
1986670	Simazine	14.9	Spike	P	0 - 30
1986670	Terbufos	0.858	Spike	P	0 - 30
1986670	Terbuthylazine	3.93	Spike	P	0 - 30
LFB	Acetochlor	6.95	LCS	P	0 - 30
LFB	Alachlor	6.27	LCS	P	0 - 30
LFB	Ametryn	11.1	LCS	P	0 - 30
LFB	Atrazine	4.73	LCS	P	0 - 30
LFB	Atrazine Desethyl	5.68	LCS	P	0 - 30
LFB	Azinphos Methyl	7.79	LCS	P	0 - 30
LFB	Bromacil	1.43	LCS	P	0 - 30
LFB	Butylate	0.716	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	1.43	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	3.81	LCS	P	0 - 30
LFB	Cyanazine	9.59	LCS	P	0 - 30
LFB	Demeton	5.71	LCS	P	0 - 30
LFB	Diazinon	2.66	LCS	P	0 - 30
LFB	Disulfoton	11.9	LCS	P	0 - 30
LFB	EPTC	15.9	LCS	P	0 - 30
LFB	Ethion	2.27	LCS	P	0 - 30
LFB	Ethoprop	12.1	LCS	P	0 - 30
LFB	Fenamiphos	0.726	LCS	P	0 - 30
LFB	Fipronil	2.15	LCS	P	0 - 30
LFB	Fipronil Sulfide	14.6	LCS	P	0 - 30
LFB	Fipronil Sulfone	7.50	LCS	P	0 - 30
LFB	Fonofos	7.91	LCS	P	0 - 30
LFB	Hexazinone	0.998	LCS	P	0 - 30
LFB	Malathion	19.5	LCS	P	0 - 30
LFB	Metalaxyl	1.32	LCS	P	0 - 30
LFB	Metolachlor	1.77	LCS	P	0 - 30
LFB	Metribuzin	10.2	LCS	P	0 - 30
LFB	Mevinphos	16.2	LCS	P	0 - 30
LFB	Molinate	2.71	LCS	P	0 - 30
LFB	Norflurazon	2.61	LCS	P	0 - 30
LFB	Parathion Ethyl	1.49	LCS	P	0 - 30
LFB	Parathion Methyl	4.02	LCS	P	0 - 30
LFB	Pendimethalin	5.52	LCS	P	0 - 30
LFB	Phorate	32.4	LCS	F	0 - 30
LFB	Prometon	8.32	LCS	P	0 - 30
LFB	Prometryn	1.19	LCS	P	0 - 30
LFB	Simazine	4.44	LCS	P	0 - 30
LFB	Terbufos	15.4	LCS	P	0 - 30
LFB	Terbuthylazine	0.556	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P344097

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986957	Chlordane	3.91	Spike	P	0 - 30
1986957	Toxaphene	1.86	Spike	P	0 - 30
LFB	Chlordane	14.4	LCS	P	0 - 30
LFB	Toxaphene	22.1	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P343719

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986060	Endothall	3.84	Spike	P	0 - 30
1986060	Sucralose	4.17	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P343931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986950	2,4-D	5.24	Spike	P	0 - 30
1986950	3-Hydroxycarbofuran	16.4	Spike	P	0 - 30
1986950	Acetaminophen	8.51	Spike	P	0 - 30
1986950	Aldicarb	24.6	Spike	P	0 - 30
1986950	Aldicarb Sulfone	9.27	Spike	P	0 - 30
1986950	Aldicarb Sulfoxide	14.9	Spike	P	0 - 30
1986950	Bentazon	7.81	Spike	P	0 - 30
1986950	Carbamazepine	7.17	Spike	P	0 - 30
1986950	Carbaryl	16.6	Spike	P	0 - 30
1986950	Carbofuran	8.71	Spike	P	0 - 30
1986950	Diuron	7.50	Spike	P	0 - 30
1986950	Fenuron	10.8	Spike	P	0 - 30
1986950	Fluridone	8.24	Spike	P	0 - 30
1986950	Hydrocodone	8.33	Spike	P	0 - 30
1986950	Imazapyr	11.2	Spike	P	0 - 30
1986950	Imidacloprid	11.5	Spike	P	0 - 30
1986950	Linuron	11.1	Spike	P	0 - 30
1986950	MCPP	9.64	Spike	P	0 - 30
1986950	Methiocarb	16.1	Spike	P	0 - 30
1986950	Methomyl	7.51	Spike	P	0 - 30
1986950	Oxamyl	8.05	Spike	P	0 - 30
1986950	Primidone	17.4	Spike	P	0 - 30
1986950	Propoxur	15.2	Spike	P	0 - 30
1986950	Pyraclostrobin	5.76	Spike	P	0 - 30
1986950	Triclopyr	8.54	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P343965

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986922	Color (true)	2.37	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P344176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1987127	Total Alkalinity	1.73	Sample	F	0 - 1.6

Reference Method: SM 2320 B-97
Batch ID: P344453

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986644	Total Alkalinity	4.08	Sample	F	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P344544

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986605	TDS	6.00	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P344545

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986723	TDS	2.36	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P344548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1987495	TDS	5.19	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P344549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986809	TDS	4.41	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P344179

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1987127	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 4500 F-C-97
Batch ID: P344457

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986644	Fluoride	0.479	Spike	P	0 - 3.5

Quality Assurance Report Precision

Reference Method: SM 5310 B-00
Batch ID: P344291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986430	Organic Carbon	0.318	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P344443

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1986923	Organic Carbon	0.754	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: 1986949
Field Sample ID: G2SW0037

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	74.5	P	30 - 160

Lab Sample ID: 1986950
Field Sample ID: G2SW0037

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	73.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	124	P	30 - 160
EPA 8321B	Carbamazepine-d10	117	P	30 - 160
EPA 8321B	Diuron-d6	90.2	P	30 - 160
EPA 8321B	Endothall-d6	103	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	29.2	F	40 - 160
EPA 8321B	Primidone-d5	130	P	30 - 160
EPA 8321B	Sucralose-d6	76.4	P	40 - 160

Lab Sample ID: 1986951
Field Sample ID: G1SW0089

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	74.1	P	30 - 160

Lab Sample ID: 1986952
Field Sample ID: G1SW0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	73.5	P	30 - 160

Lab Sample ID: 1986953
Field Sample ID: G1SW0089

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
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Quality Assurance Report Surrogates

Lab Sample ID: 1986953
Field Sample ID: G1SW0089

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	69.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	106	P	30 - 160
EPA 8321B	Carbamazepine-d10	102	P	30 - 160
EPA 8321B	Diuron-d6	80.6	P	30 - 160
EPA 8321B	Endothall-d6	88.1	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	0.0	F	40 - 160
EPA 8321B	Primidone-d5	99.9	P	30 - 160
EPA 8321B	Sucralose-d6	68.2	P	40 - 160

Lab Sample ID: 1986954
Field Sample ID: BLANK

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	68.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	114	P	30 - 160
EPA 8321B	Carbamazepine-d10	116	P	30 - 160
EPA 8321B	Diuron-d6	111	P	30 - 160
EPA 8321B	Endothall-d6	93.2	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	114	P	40 - 160
EPA 8321B	Primidone-d5	120	P	30 - 160
EPA 8321B	Sucralose-d6	87.9	P	40 - 160

Lab Sample ID: 1986955
Field Sample ID: G1SW0091

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	61.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	131	P	30 - 160
EPA 8321B	Carbamazepine-d10	108	P	30 - 160
EPA 8321B	Diuron-d6	85.5	P	30 - 160
EPA 8321B	Endothall-d6	112	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	14.8	F	40 - 160
EPA 8321B	Primidone-d5	122	P	30 - 160
EPA 8321B	Sucralose-d6	82.6	P	40 - 160

Lab Sample ID: 1986956
Field Sample ID: G1SW0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	50.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	142	P	30 - 160
EPA 8321B	Carbamazepine-d10	129	P	30 - 160
EPA 8321B	Diuron-d6	109	P	30 - 160
EPA 8321B	Endothall-d6	103	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	0.0	F	40 - 160
EPA 8321B	Primidone-d5	146	P	30 - 160
EPA 8321B	Sucralose-d6	69.6	P	40 - 160

Lab Sample ID: 1986957
Field Sample ID: G2SW0037

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
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Quality Assurance Report Surrogates

Lab Sample ID: 1986957
Field Sample ID: G2SW0037

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	68.6	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	48.8	P	34 - 101
EPA 8276	Decachlorobiphenyl	61.9	P	31 - 108
EPA 8276	PCNB	92.5	P	62 - 142

Lab Sample ID: 1986958
Field Sample ID: G2SW0037

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	99.4	P	71 - 126
EPA 8270D	Terbufos-d10	93.9	P	59 - 149

Lab Sample ID: 1986959
Field Sample ID: G1SW0089

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	61.0	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	49.5	P	34 - 101
EPA 8276	Decachlorobiphenyl	55.3	P	31 - 108
EPA 8276	PCNB	90.9	P	62 - 142

Lab Sample ID: 1986960
Field Sample ID: G1SW0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	64.3	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	48.1	P	34 - 101
EPA 8276	Decachlorobiphenyl	57.9	P	31 - 108
EPA 8276	PCNB	94.6	P	62 - 142

Lab Sample ID: 1986961
Field Sample ID: G1SW0089

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	95.9	P	71 - 126
EPA 8270D	Terbufos-d10	93.3	P	59 - 149

Lab Sample ID: 1986962
Field Sample ID: G1SW0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	101	P	71 - 126
EPA 8270D	Terbufos-d10	118	P	59 - 149

Quality Assurance Report Calibration Verification

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A83415

Included Lab Sample IDs: 1986922, 1986925, 1986926, 1986927, 1986928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	103	P/P	90 - 110
Sulfate	101	103	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A83425

Included Lab Sample IDs: 1986922, 1986925, 1986926, 1986927, 1986928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.4	100	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A83428

Included Lab Sample IDs: 1986924, 1986933, 1986934, 1986935, 1986936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	96.8	97.1	P/P	90 - 110
O-Phosphate-P	97.1	96.8	P/P	90 - 110
O-Phosphate-P	97.8	96.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A83437

Included Lab Sample IDs: 1986922, 1986925, 1986926, 1986927, 1986928

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

Reference Method: EPA 8321B

Run ID: A83449

Included Lab Sample IDs: 1986950, 1986953, 1986954, 1986955, 1986956

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	97.6	96.2	P/P	60 - 150
Endothall	86.2	87.2	P/P	60 - 150
Glufosinate	101	107	P/P	60 - 150
Glyphosate	105	103	P/P	60 - 150
Sucralose	87.6	91.5	P/P	60 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A83453

Included Lab Sample IDs: 1986929, 1986930, 1986932

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.5	97.5	P/P	90 - 110
NO2NO3-N	97.5	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A83479

Included Lab Sample IDs: 1986923, 1986931

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A83489

Included Lab Sample IDs: 1986964, 1986965, 1986967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	99.6	100	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A83492

Included Lab Sample IDs: 1986925, 1986926, 1986928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	99.3	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A83492

Included Lab Sample IDs: 1986925, 1986926, 1986928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	99.5	P/P	90 - 110
Fluoride	99.1	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A83494

Included Lab Sample IDs: 1986929, 1986930, 1986932

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A83503

Included Lab Sample IDs: 1986923

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A83510

Included Lab Sample IDs: 1986929, 1986930, 1986932

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	107	103	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A83527

Included Lab Sample IDs: 1986963, 1986966

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	96.9	P/P	90 - 110
Iron	101	97.7	P/P	90 - 110
Iron	103	101	P/P	90 - 110
Magnesium	101	98.1	P/P	90 - 110
Potassium	96.0	94.9	P/P	90 - 110
Sodium	96.7	95.9	P/P	90 - 110
Zinc	101	97.8	P/P	90 - 110
Zinc	104	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00

Run ID: A83539

Included Lab Sample IDs: 1986929, 1986930, 1986932

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	98.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A83544

Included Lab Sample IDs: 1986923, 1986932

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	106	P/P	90 - 110
Total-P	104	105	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A83584

Included Lab Sample IDs: 1986963, 1986964, 1986965, 1986966, 1986967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	100	99.1	P/P	90 - 110
Arsenic	102	100	P/P	90 - 110
Arsenic	102	102	P/P	90 - 110
Cadmium	97.3	96.7	P/P	90 - 110
Cadmium	98.7	99.6	P/P	90 - 110
Cadmium	99.6	99.3	P/P	90 - 110
Chromium	95.7	94.2	P/P	90 - 110
Chromium	96.5	98.7	P/P	90 - 110
Chromium	98.7	98.2	P/P	90 - 110
Copper	101	98.0	P/P	90 - 110
Copper	97.6	96.6	P/P	90 - 110
Copper	99.8	97.6	P/P	90 - 110
Lead	97.0	97.0	P/P	90 - 110
Lead	97.0	96.2	P/P	90 - 110
Lead	97.5	97.7	P/P	90 - 110
Lead	97.7	97.2	P/P	90 - 110
Nickel	101	98.6	P/P	90 - 110
Nickel	97.9	96.0	P/P	90 - 110
Nickel	99.7	97.9	P/P	90 - 110
Silver	98.5	97.6	P/P	90 - 110
Silver	98.7	98.8	P/P	90 - 110
Silver	99.0	98.7	P/P	90 - 110
Zinc	101	98.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A83587

Included Lab Sample IDs: 1986923, 1986931

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

Reference Method: SM 5310 B-00

Run ID: A83590

Included Lab Sample IDs: 1986923, 1986931

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

Reference Method: SM 5310 B-00

Run ID: A83590

Included Lab Sample IDs: 1986923, 1986931

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.5	98.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A83591

Included Lab Sample IDs: 1986931

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.9	102	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A83593

Included Lab Sample IDs: 1986922, 1986927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.4	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A83593

Included Lab Sample IDs: 1986922, 1986927

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A83607

Included Lab Sample IDs: 1986929, 1986930, 1986931

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

Reference Method: EPA 8270D

Run ID: A83697

Included Lab Sample IDs: 1986958, 1986961, 1986962

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.9		P	80 - 120
Alachlor	99.4		P	80 - 120
Ametryn	100		P	80 - 120
Atrazine	97.5		P	80 - 120
Atrazine Desethyl	88.6		P	80 - 120
Azinphos Methyl	107		P	80 - 120
Bromacil	90.7		P	80 - 120
Butylate	98.3		P	80 - 120
Chlorpyrifos Ethyl	93.3		P	80 - 120
Chlorpyrifos Methyl	92.5		P	80 - 120
Cyanazine	98.8		P	80 - 120
Demeton	88.5		P	80 - 120
Diazinon	96.2		P	80 - 120
Disulfoton	89.8		P	80 - 120
EPTC	95.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A83697

Included Lab Sample IDs: 1986958, 1986961, 1986962

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethion	91.2		P	80 - 120
Ethoprop	94.5		P	80 - 120
Fenamiphos	93.1		P	80 - 120
Fipronil	99.1		P	80 - 120
Fipronil Sulfide	94.9		P	80 - 120
Fipronil Sulfone	99.6		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	95.6		P	80 - 120
Malathion	92.9		P	80 - 120
Metalaxyl	96.9		P	80 - 120
Metolachlor	96.8		P	80 - 120
Metribuzin	88.4		P	80 - 120
Mevinphos	97.3		P	80 - 120
Molinate	99.8		P	80 - 120
Norflurazon	96.2		P	80 - 120
Parathion Ethyl	91.3		P	80 - 120
Parathion Methyl	94.4		P	80 - 120
Pendimethalin	96.7		P	80 - 120
Phorate	101		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	93.4		P	80 - 120
Simazine	96.5		P	80 - 120
Terbufos	91.4		P	80 - 120
Terbutylazine	95.4		P	80 - 120

Reference Method: EPA 8276

Run ID: A83718

Included Lab Sample IDs: 1986957, 1986959, 1986960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	94.1		P	80 - 120
Toxaphene	96.7		P	80 - 120

Reference Method: EPA 8321B

Run ID: A83753

Included Lab Sample IDs: 1986950, 1986953, 1986954, 1986955, 1986956

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	105	106	P/P	50 - 150
2,4-D	106	99.7	P/P	50 - 150
Bentazon	130	134	P/P	50 - 150
Bentazon	140	130	P/P	50 - 150
MCPP	105	105	P/P	50 - 150
MCPP	105	104	P/P	50 - 150
Triclopyr	108	115	P/P	50 - 160
Triclopyr	115	104	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A83769

Included Lab Sample IDs: 1986949, 1986951, 1986952

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	102	101	P/P	60 - 150
Acetaminophen	112	107	P/P	60 - 150
Acetaminophen	113	112	P/P	60 - 150
Acetaminophen	96.2	113	P/P	60 - 150
Aldicarb	97.1	104	P/P	60 - 150
Aldicarb Sulfone	100	109	P/P	50 - 150
Aldicarb Sulfoxide	112	109	P/P	50 - 150
Bentazon	117	118	P/P	50 - 160
Carbamazepine	107	111	P/P	60 - 150
Carbamazepine	110	108	P/P	60 - 150
Carbamazepine	111	110	P/P	60 - 150
Carbaryl	110	107	P/P	60 - 150
Carbofuran	109	108	P/P	50 - 150
Diuron	115	115	P/P	60 - 150
Diuron	118	115	P/P	60 - 150
Diuron	120	118	P/P	60 - 150
Fenuron	113	115	P/P	60 - 150
Fenuron	115	114	P/P	60 - 150
Fenuron	117	113	P/P	60 - 150
Fluridone	105	105	P/P	60 - 160
Fluridone	105	105	P/P	60 - 160
Fluridone	107	105	P/P	60 - 160
Hydrocodone	114	121	P/P	60 - 150
Hydrocodone	121	122	P/P	60 - 150
Hydrocodone	122	117	P/P	60 - 150
Imazapyr	102	103	P/P	50 - 150
Imazapyr	103	112	P/P	50 - 150
Imazapyr	105	102	P/P	50 - 150
Imidacloprid	106	108	P/P	60 - 150
Imidacloprid	107	111	P/P	60 - 150
Imidacloprid	111	106	P/P	60 - 150
Linuron	109	118	P/P	60 - 150
Linuron	118	123	P/P	60 - 150
Linuron	123	110	P/P	60 - 150
Methiocarb	104	112	P/P	50 - 150
Methomyl	92.3	97.5	P/P	50 - 150
Oxamyl	101	105	P/P	50 - 150
Primidone	104	106	P/P	60 - 150
Primidone	106	110	P/P	60 - 150
Primidone	107	104	P/P	60 - 150
Propoxur	108	105	P/P	50 - 150
Pyraclostrobin	113	114	P/P	60 - 150
Pyraclostrobin	114	113	P/P	60 - 150
Pyraclostrobin	116	113	P/P	60 - 150

Reference Method: EPA 8270D

Run ID: A83771

Included Lab Sample IDs: 1986958

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	89.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A83784

Included Lab Sample IDs: 1986957, 1986959, 1986960

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.3		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	100		P	80 - 120
Beta-BHC	96.6		P	80 - 120
Carbophenothion	91.9		P	80 - 120
Chlorothalonil	98.1		P	80 - 120
Cypermethrin	89.0		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	100		P	80 - 120
DDT-p,p'	108		P	80 - 120
Delta-BHC	101		P	80 - 120
Dicofol	104		P	80 - 120
Dieldrin	99.3		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	97.2		P	80 - 120
Endrin	99.8		P	80 - 120
Endrin Aldehyde	91.1		P	80 - 120
Endrin Ketone	97.9		P	80 - 120
Gamma-BHC	103		P	80 - 120
Gamma-Chlordane	99.7		P	80 - 120
Heptachlor	98.5		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Methoxychlor	106		P	80 - 120
Mirex	98.8		P	80 - 120
Permethrin	92.1		P	80 - 120
Trifluralin	98.0		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	LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				6.48	
	Turbidity				3.56	
EPA 200.7 Rev. 4.4	Calcium	104	98.6			0.353
	Iron	107	102 103			1.07
	Iron	103	104 105			0.934
	Magnesium	104	97.5			1.37
	Potassium	99.1	96.4			0.551
	Sodium	98.7	96.8			0.244
	Zinc	103	95.7 96.6			0.907
EPA 200.8 Rev. 5.4	Arsenic	99.4	102 101			0.452
	Arsenic	100	104 105			1.10
	Cadmium	100	101 100			0.908
	Cadmium	99.5	84.3 86.9			3.05

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 200.8 Rev. 5.4	Chromium	97.1		95.7	95.0			0.706
	Chromium	97.3		80.4	80.9			0.641
	Copper	94.8		94.5	94.4			0.122
	Copper	94.7		96.2	96.4			0.273
	Lead	96.1		99.0	97.6			1.42
	Lead	95.5		101	102			0.986
	Nickel	97.8		97.2	96.3			0.923
	Nickel	97.4		102	103			0.443
	Silver	98.5		99.0	98.4			0.554
	Silver	98.3		86.7	87.4			0.829
	Zinc	97.8		87.2	88.1			1.11
EPA 300.0 Rev. 2.1	Chloride	99.5		97.9	101		0.740	
	Sulfate	97.2		94.3	93.0		0.991	
EPA 350.1 Rev. 2.0	Ammonia-N	103		103	103			0.530
	Ammonia-N	102		103	103			0.308
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101		104	104			0.622
	Kjeldahl Nitrogen	109		92.7	99.4			4.59
	Kjeldahl Nitrogen	104		106	107			1.17
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5		97.0	98.5			1.53
	NO2NO3-N	98.5		99.5				0.215
EPA 365.1 Rev. 2.0	Total-P	103		94.8	94.6			0.112
	Total-P	103		93.5	95.2			1.67
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.9		100	101			0.498
	O-Phosphate-P	100		98.7	98.2			0.294
EPA 8270D	Acetochlor	82.2	88.1	87.0	79.1	6.95		9.62
	Alachlor	79.5	84.6	88.0	80.0	6.27		9.48
	Aldrin	27.1	43.2	58.8	56.9	45.7		3.18
	Alpha-BHC	82.1	81.9	84.0	82.2	0.198		2.12
	Alpha-Chlordane	79.7	84.8	68.2	63.9	6.20		6.55
	Ametryn	81.4	72.8	135	76.5	11.1		55.2
	Atrazine	92.9	97.4			4.73		5.51
	Atrazine Desethyl	84.7	80.0	64.0	36.8	5.68		26.6
	Azinphos Methyl	121	131	135	112	7.79		18.5
	Beta-BHC	93.8	100	94.0	81.3	6.74		14.4
	Bromacil	69.5	68.5	79.3	64.0	1.43		21.4
	Butylate	41.1	40.8	44.6	32.2	0.716		32.4
	Carbophenothion	78.0	81.8	102	101	4.82		0.926
	Chlorothalonil	95.6	86.7	145	128	9.76		12.6
	Chlorpyrifos Ethyl	86.5	87.8	77.4	76.4	1.43		1.25
	Chlorpyrifos Methyl	99.8	96.1	96.8	93.4	3.81		3.50
	Cyanazine	137	124	115	80.3	9.59		35.6
	Cypermethrin	71.0	73.6	109	109	3.59		0.711
	DDD-p,p'	91.5	96.0	76.6	74.4	4.73		2.91
	DDE-p,p'	78.2	85.4	62.8	62.3	8.86		0.696
	DDT-p,p'	88.3	89.7	86.2	89.4	1.51		3.59
	Delta-BHC	101	105	269	253	4.43		6.38
	Demeton	54.9	51.9	71.2	70.2	5.71		1.35
	Diazinon	103	101	110	98.8	2.66		10.6
	Dicofol	81.2	81.7	77.7	65.1	0.618		17.7
	Dieldrin	88.0	92.1	66.8	60.4	4.59		10.1
	Disulfoton	74.1	65.8	107	92.1	11.9		14.6
	Endosulfan I	93.6	94.8	69.3	63.0	1.32		9.47
	Endosulfan II	108	103	106	102	5.00		3.54
	Endosulfan Sulfate	93.9	91.2	100	90.8	2.90		9.71

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Endrin	83.4	97.9	102	76.6	16.0	28.1
	Endrin Aldehyde	87.9	87.3	61.7	54.3	0.717	12.8
	Endrin Ketone	90.5	87.8	129	113	3.03	13.3
	EPTC	35.3	41.4	43.4	31.0	15.9	33.2
	Ethion	81.7	79.9	83.2	81.7	2.27	1.80
	Ethoprop	94.3	83.5	110	97.1	12.1	12.0
	Fenamiphos	68.1	67.6	69.8	59.7	0.726	15.5
	Fipronil	68.3	69.8	65.6	41.5	2.15	39.9
	Fipronil Sulfide	68.5	59.2	49.4	16.9	14.6	37.2
	Fipronil Sulfone	65.2	60.5			7.50	42.2
	Fonofos	108	99.6	104	114	7.91	8.96
	Gamma-BHC	80.6	82.9	97.1	90.3	2.84	7.24
	Gamma-Chlordane	76.6	81.1	68.4	63.9	5.69	6.86
	Heptachlor	67.2	70.0	64.8	61.7	4.07	4.82
	Heptachlor Epoxide	87.2	86.4	81.2	74.8	0.953	8.18
	Hexazinone	98.3	97.4	99.5	89.9	0.998	10.1
	Malathion	92.4	76.0	97.6	87.8	19.5	10.6
	Metalaxyl	76.5	77.5	84.5	74.5	1.32	12.6
	Methoxychlor	95.5	93.4	85.7	82.8	2.20	3.53
	Metolachlor	79.2	80.6	85.0	76.5	1.77	10.1
	Metribuzin	154	139	168	74.3	10.2	77.1
	Mevinphos	86.0	73.1	103	82.5	16.2	22.4
	Mirex	63.2	69.2	58.4	54.3	9.00	7.30
	Molinate	51.2	49.9	57.9	45.1	2.71	24.7
	Norflurazon	71.1	69.3	56.7	33.1	2.61	52.6
	Parathion Ethyl	84.2	85.4	86.9	81.0	1.49	7.01
	Parathion Methyl	102	106	98.1	92.9	4.02	5.40
	Pendimethalin	92.2	97.4	91.8	98.5	5.52	7.01
	Permethrin	70.1	77.4	83.0	85.2	9.92	2.64
	Phorate	73.1	52.7	92.7	84.2	32.4	9.68
	Prometon	70.0	76.0	83.0	74.2	8.32	11.2
	Prometryn	74.6	73.8	76.4	69.5	1.19	9.39
	Simazine	104	109	270	232	4.44	14.9
	Terbufos	91.7	78.6	99.0	98.2	15.4	0.858
	Terbutylazine	87.9	87.4	86.8	83.5	0.556	3.93
	Trifluralin	81.0	81.8	69.7	66.9	1.00	4.05
EPA 8276	Chlordane	79.9	92.2	83.8	87.1	14.4	3.91
	Toxaphene	64.3	80.3	71.5	70.1	22.1	1.86
EPA 8321B	2,4-D	88.8		80.1	76.0		5.24
	3-Hydroxycarbofuran	93.8		122	103		16.4
	Acetaminophen	93.1		128	117		8.51
	Aldicarb	104		115	90.1		24.6
	Aldicarb Sulfone	97.7		134	122		9.27
	Aldicarb Sulfoxide	105		113	97.1		14.9
	AMPA	85.0		0.0	0.0		
	Bentazon	117		75.6	68.5		7.81
	Carbamazepine	96.8		116	108		7.17
	Carbaryl	83.8		81.4	68.2		16.6
	Carbofuran	85.6		85.2	78.1		8.71
	Diuron	90.4		96.5	88.5		7.50
	Endothall	84.3		70.2	72.9		3.84
	Fenuron	110		121	108		10.8
	Fluridone	87.8		88.8	80.4		8.24
	Glufosinate	88.3		0.0	0.0		

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Glyphosate	105	0.0	0.0			
	Hydrocodone	115	146	135			8.33
	Imazapyr	104	119	87.0			11.2
	Imidacloprid	104					11.5
	Linuron	90.8	100	89.9			11.1
	MCPP	103	92.7	84.2			9.64
	Methiocarb	87.6	99.0	84.3			16.1
	Methomyl	98.1	95.7	88.8			7.51
	Oxamyl	87.3	95.5	88.1			8.05
	Primidone	97.8	131	110			17.4
	Propoxur	86.6	85.9	73.8			15.2
	Pyraclostrobin	83.1	103	97.6			5.76
	Sucralose	88.0	46.4	49.1			4.17
	Triclopyr	106	96.1	88.3			8.54
SM 2120 B	Color (true)					2.37	
SM 2320 B-97	Total Alkalinity	102				1.73	
	Total Alkalinity	102				4.08	
SM 2540 C-97	TDS					6.00	
	TDS					2.36	
	TDS					5.19	
	TDS					4.41	
SM 4500 F-C-97	Fluoride	95.7	92.4	92.4			0.0
	Fluoride	96.5	94.2	94.7			0.479
SM 5310 B-00	Organic Carbon	96.4	93.6	94.0			0.318
	Organic Carbon	94.8	96.7	95.6			0.754

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1986922, 1986925, 1986926, 1986927, 1986928
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1986963, 1986964, 1986965, 1986966, 1986967
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1986963, 1986964, 1986965, 1986966, 1986967
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1986922, 1986925, 1986926, 1986927, 1986928
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1986922, 1986925, 1986926, 1986927, 1986928
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1986923, 1986929, 1986930, 1986931, 1986932
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1986923, 1986929, 1986930, 1986931, 1986932
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1986923, 1986929, 1986930, 1986931, 1986932
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1986923, 1986929, 1986930, 1986931, 1986932
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1986924, 1986933, 1986934, 1986935, 1986936
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1986957, 1986959, 1986960
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1986958, 1986961, 1986962
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1986957, 1986959, 1986960
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	1986949, 1986951, 1986952

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	1986950, 1986953, 1986954, 1986955, 1986956
SM 2120 B / E31780	True Color measured at 450 nm	1986922, 1986925, 1986926, 1986927, 1986928
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1986922, 1986925, 1986926, 1986927, 1986928
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1986922, 1986925, 1986926, 1986927, 1986928
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1986922, 1986925, 1986926, 1986927, 1986928
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1986922, 1986925, 1986926, 1986927, 1986928
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1986923, 1986929, 1986930, 1986931, 1986932

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	04/24/2018			04/24/2018 16:04	William L. Brown IV	1986922, 1986925, 1986926, 1986927, 1986928
EPA 200.7 Rev. 4.4	04/24/2018	04/25/2018 17:45	Elliott D. Healy	04/27/2018 14:10	Betina Topolski	1986966
	04/24/2018	04/25/2018 17:45	Elliott D. Healy	04/27/2018 15:57	Betina Topolski	1986963
	04/24/2018	04/25/2018 17:50	Elliott D. Healy	04/26/2018 17:16	Betina Topolski	1986964
	04/24/2018	04/25/2018 17:50	Elliott D. Healy	04/26/2018 17:26	Betina Topolski	1986965
	04/24/2018	04/25/2018 17:50	Elliott D. Healy	04/26/2018 17:37	Betina Topolski	1986967
EPA 200.8 Rev. 5.4	04/24/2018	04/25/2018 17:45	Elliott D. Healy	05/01/2018 14:10	Nadine Brooks	1986966
	04/24/2018	04/25/2018 17:45	Elliott D. Healy	05/01/2018 16:14	Nadine Brooks	1986963
	04/24/2018	04/25/2018 17:50	Elliott D. Healy	05/01/2018 20:12	Nadine Brooks	1986967
	04/24/2018	04/25/2018 17:50	Elliott D. Healy	05/01/2018 20:51	Nadine Brooks	1986965
	04/24/2018	04/25/2018 17:50	Elliott D. Healy	05/01/2018 21:00	Nadine Brooks	1986964
	04/24/2018	04/25/2018 17:50	Elliott D. Healy	05/01/2018 22:07	Nadine Brooks	1986967
	04/24/2018	04/25/2018 17:50	Elliott D. Healy	05/01/2018 22:26	Nadine Brooks	1986965
	04/24/2018	04/25/2018 17:50	Elliott D. Healy	05/01/2018 22:35	Nadine Brooks	1986964
EPA 300.0 Rev. 2.1	04/24/2018			04/27/2018 17:38	Lipi Saha	1986922
	04/24/2018			04/27/2018 17:50	Lipi Saha	1986925
	04/24/2018			04/27/2018 18:02	Lipi Saha	1986926
	04/24/2018			04/27/2018 18:14	Lipi Saha	1986927
	04/24/2018			04/27/2018 18:26	Lipi Saha	1986928
EPA 350.1 Rev. 2.0	04/24/2018			04/25/2018 13:38	Ping Hua	1986929
	04/24/2018			04/25/2018 13:40	Ping Hua	1986930
	04/24/2018			04/25/2018 13:41	Ping Hua	1986932
	04/24/2018			04/30/2018 14:14	Ping Hua	1986931
	04/24/2018			04/30/2018 14:20	Ping Hua	1986923
EPA 351.2 Rev. 2.0	04/24/2018	04/26/2018 10:20	Adrian Shelby	04/27/2018 10:41	Joseph Suarez	1986923
	04/24/2018	04/26/2018 10:20	Adrian Shelby	04/27/2018 13:40	Joseph Suarez	1986929
	04/24/2018	04/26/2018 10:20	Adrian Shelby	04/27/2018 13:41	Joseph Suarez	1986930
	04/24/2018	04/26/2018 10:20	Adrian Shelby	04/27/2018 13:43	Joseph Suarez	1986932
	04/24/2018	05/01/2018 09:45	Adrian Shelby	05/02/2018 09:09	Joseph Suarez	1986931
EPA 353.2 Rev. 2.0	04/24/2018			04/25/2018 12:29	Lauren Bottorf	1986932
	04/24/2018			04/25/2018 12:44	Lauren Bottorf	1986929
	04/24/2018			04/25/2018 12:45	Lauren Bottorf	1986930
	04/24/2018			04/26/2018 11:59	Lauren Bottorf	1986931
	04/24/2018			04/26/2018 12:06	Lauren Bottorf	1986923
EPA 365.1 Rev. 2.0	04/24/2018	04/26/2018 12:50	Sima Feizi	04/30/2018 11:15	Beverly Y. Sanders	1986923
	04/24/2018	04/26/2018 12:50	Sima Feizi	04/30/2018 12:36	Beverly Y. Sanders	1986932
	04/24/2018	04/26/2018 12:50	Sima Feizi	05/01/2018 12:52	Beverly Y. Sanders	1986931
	04/24/2018	04/26/2018 12:50	Sima Feizi	05/01/2018 13:39	Beverly Y. Sanders	1986929
	04/24/2018	04/26/2018 12:50	Sima Feizi	05/01/2018 13:40	Beverly Y. Sanders	1986930

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	04/24/2018			04/24/2018 15:22	Megan Treadwell	1986933
	04/24/2018			04/24/2018 15:27	Megan Treadwell	1986934
	04/24/2018			04/24/2018 15:28	Megan Treadwell	1986935
	04/24/2018			04/24/2018 15:33	Megan Treadwell	1986924
	04/24/2018			04/24/2018 15:41	Megan Treadwell	1986936
EPA 8270D	04/24/2018	04/27/2018 07:57	Dinesh Mishra	05/04/2018 18:08	Marek Topolski	1986958
	04/24/2018	04/27/2018 07:57	Dinesh Mishra	05/04/2018 18:32	Marek Topolski	1986961
	04/24/2018	04/27/2018 07:57	Dinesh Mishra	05/04/2018 18:56	Marek Topolski	1986962
	04/24/2018	04/27/2018 07:57	Dinesh Mishra	05/08/2018 17:31	Marek Topolski	1986958
	04/24/2018	04/27/2018 09:00	Fe-Val Siddell	05/07/2018 21:18	Dinesh Mishra	1986957
	04/24/2018	04/27/2018 09:00	Fe-Val Siddell	05/07/2018 21:49	Dinesh Mishra	1986959
EPA 8276	04/24/2018	04/27/2018 09:00	Fe-Val Siddell	05/07/2018 22:21	Dinesh Mishra	1986960
	04/24/2018	04/27/2018 09:00	Fe-Val Siddell	05/03/2018 18:02	John P. Burgos	1986957
	04/24/2018	04/27/2018 09:00	Fe-Val Siddell	05/03/2018 18:58	John P. Burgos	1986959
EPA 8321B	04/24/2018	04/27/2018 09:00	Fe-Val Siddell	05/03/2018 19:53	John P. Burgos	1986960
	04/24/2018	04/24/2018 15:30	Juyoung Kim	04/25/2018 00:48	Juyoung Kim	1986950
	04/24/2018	04/24/2018 15:30	Juyoung Kim	04/25/2018 01:04	Juyoung Kim	1986953
	04/24/2018	04/24/2018 15:30	Juyoung Kim	04/25/2018 01:20	Juyoung Kim	1986954
	04/24/2018	04/24/2018 15:30	Juyoung Kim	04/25/2018 01:36	Juyoung Kim	1986955
	04/24/2018	04/24/2018 15:30	Juyoung Kim	04/25/2018 01:51	Juyoung Kim	1986956
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/04/2018 14:54	Juyoung Kim	1986950
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/04/2018 19:30	Juyoung Kim	1986953
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/04/2018 20:05	Juyoung Kim	1986954
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/04/2018 20:39	Juyoung Kim	1986955
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/04/2018 21:14	Juyoung Kim	1986956
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/05/2018 11:12	Juyoung Kim	1986950
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/05/2018 12:21	Juyoung Kim	1986949
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/05/2018 12:56	Juyoung Kim	1986951
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/05/2018 13:31	Juyoung Kim	1986952
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/05/2018 14:05	Juyoung Kim	1986954
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/05/2018 19:52	Juyoung Kim	1986953
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/05/2018 20:26	Juyoung Kim	1986955
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/05/2018 21:35	Juyoung Kim	1986956
	04/24/2018	04/25/2018 14:00	Hoor Shaik	05/08/2018 15:14	Juyoung Kim	1986955
SM 2120 B	04/24/2018			04/24/2018 15:26	Tanya Welborn	1986922
	04/24/2018			04/24/2018 15:27	Tanya Welborn	1986925, 1986926
	04/24/2018			04/24/2018 15:28	Tanya Welborn	1986927
	04/24/2018			04/24/2018 15:29	Tanya Welborn	1986928
SM 2320 B-97	04/24/2018			04/27/2018 05:57	Dale L. Simmons	1986925
	04/24/2018			04/27/2018 06:06	Dale L. Simmons	1986926

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-97	04/24/2018			04/27/2018 06:16	Dale L. Simmons	1986928
	04/24/2018			05/02/2018 08:08	Dale L. Simmons	1986922
	04/24/2018			05/02/2018 08:21	Dale L. Simmons	1986927
SM 2540 C-97	04/24/2018			04/27/2018 16:08	Yijie Li	1986922, 1986925, 1986926, 1986927, 1986928
SM 2540 D-97	04/24/2018			04/27/2018 16:08	Yijie Li	1986922, 1986925, 1986926, 1986927, 1986928
SM 4500 F-C-97	04/24/2018			04/27/2018 04:22	Dale L. Simmons	1986925
	04/24/2018			04/27/2018 04:25	Dale L. Simmons	1986926
	04/24/2018			04/27/2018 05:03	Dale L. Simmons	1986928
	04/24/2018			05/02/2018 08:08	Dale L. Simmons	1986922
	04/24/2018			05/02/2018 08:21	Dale L. Simmons	1986927
SM 5310 B-00	04/24/2018			04/28/2018 13:14	Julia Storbeck	1986929
	04/24/2018			04/28/2018 13:41	Julia Storbeck	1986930
	04/24/2018			04/28/2018 13:58	Julia Storbeck	1986932
	04/24/2018			04/30/2018 15:24	Megan Treadwell	1986923
	04/24/2018			04/30/2018 17:57	Megan Treadwell	1986931