

Chemical Analysis Report

NW-DIST-2018-04-13-01

Florida Department of Environmental Protection
Central Laboratory
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DOH Accreditation E31780

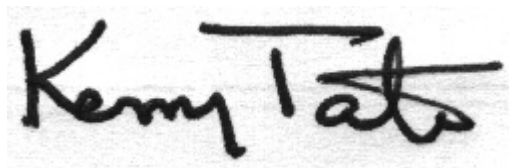
Event Description: **WALTON LAKES RHINO**
Request ID: **RQ-2018-04-16-27**
Customer: **NW-DIST**
Project ID: **SMP**

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

Date Certified: 15-MAY-2018 13:28

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.

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: LAKE STANLEY (CENTER)

Collection Date/Time: 04/12/2018 11:05

Field ID: G3NW0132

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1984421	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P343394	
	EPA 300.0 Rev. 2.1	Chloride	2.9		mg Cl/L	P343613	
		Sulfate	1.1		mg SO4/L	P343615	
	SM 2120 B	Color (true)	18		PCU	P343384	
	SM 2320 B-97	Total Alkalinity	3.6		mg CaCO3/L	P343952	
	SM 2540 C-97	TDS	15	I	mg/L	P343893	
	SM 2540 D-97	TSS	2	I	mg/L	P343876	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P343956	
1984422	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P343691	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.42		mg N/L	P343460	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P343656	
	EPA 365.1 Rev. 2.0	Total-P	0.01		mg P/L	P343597	
	SM 5310 B-00	Organic Carbon	5.1		mg C/L	P343560	
1984423	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P343382	
1984465	EPA 8321B	Aldicarb	0.020	U	ug/L	P343321	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P343321	MS, RPD
		Aldicarb Sulfoxide	0.0020	U	ug/L	P343321	RPD
		Carbaryl	0.0020	U	ug/L	P343321	RPD
		Carbofuran	0.0020	U	ug/L	P343321	RPD
		3-Hydroxycarbofuran	0.0020	U	ug/L	P343321	RPD
		Methiocarb	0.0020	U	ug/L	P343321	RPD
		Methomyl	0.0020	U	ug/L	P343321	RPD
		Oxamyl	0.0020	U	ug/L	P343321	RPD
		Propoxur	0.0020	U	ug/L	P343321	
1984466		2,4-D	0.0020	U	ug/L	P343321	
		Bentazon	8.0E-04	U	ug/L	P343321	
		MCP	0.0020	U	ug/L	P343321	
		Triclopyr**	0.0040	U	ug/L	P343321	
		Imidacloprid	0.0020	U	ug/L	P343321	MS, RPD
		Diuron	0.0020	U	ug/L	P343321	RPD
		Pyraclostrobin**	0.0020	U	ug/L	P343321	MS, RPD
		Primidone**	0.0040	U	ug/L	P343321	MS, RPD
		Linuron	0.0040	U	ug/L	P343321	
		Acetaminophen**	0.0080	U	ug/L	P343321	MS, RPD
		Fenuron	0.016	U	ug/L	P343321	RPD
		Imazapyr**	0.0040	U	ug/L	P343321	
		Carbamazepine**	4.0E-04	U	ug/L	P343321	RPD
		Fluridone**	9.2E-04	I	ug/L	P343321	
		Hydrocodone**	8.0E-04	U	ug/L	P343321	
		Sucralose**	0.10	U	ug/L	P343272	
		Glyphosate**	0.10	U	ug/L	P343272	
		AMPA**	0.10	U	ug/L	P343272	MS
		Endothall**	0.10	U	ug/L	P343272	

Field ID: G3NW0132

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1984466	EPA 8321B	Glufosinate**	0.10	U	ug/L	P343272	
1984470	EPA 8270D	Aldrin	4.6	U	ng/L	P343518	
		Alpha-BHC	2.3	U	ng/L	P343518	
		Beta-BHC	4.6	U	ng/L	P343518	
		Delta-BHC	4.6	U	ng/L	P343518	
		Gamma-BHC	4.6	U	ng/L	P343518	
		Carbophenothion	4.6	U	ng/L	P343518	
		Chlorothalonil	2.3	U	ng/L	P343518	
		Cypermethrin	23	U	ng/L	P343518	
		DDD-p,p'	3.4	U	ng/L	P343518	
		DDE-p,p'	3.4	U	ng/L	P343518	
		DDT-p,p'	3.4	U	ng/L	P343518	
		Dieldrin	4.6	U	ng/L	P343518	
		Endosulfan I	4.6	U	ng/L	P343518	
		Endosulfan II	4.6	U	ng/L	P343518	
		Endosulfan Sulfate	2.3	U	ng/L	P343518	
		Endrin	2.3	U	ng/L	P343518	
		Endrin Aldehyde	2.3	U	ng/L	P343518	
		Heptachlor	1.7	U	ng/L	P343518	
		Heptachlor Epoxide	2.3	U	ng/L	P343518	
		Methoxychlor	4.6	U	ng/L	P343518	
		Mirex	2.3	U	ng/L	P343518	
		Permethrin	11	U	ng/L	P343518	
		Trifluralin	1.1	U	ng/L	P343518	
		Alpha-Chlordane	1.1	U	ng/L	P343518	
		Gamma-Chlordane	1.1	U	ng/L	P343518	
		Endrin Ketone	2.3	U	ng/L	P343518	
		Dicofol	34	U	ng/L	P343518	
	EPA 8276	Chlordane**	2.9	U	ng/L	P343518	
		Toxaphene**	34	U	ng/L	P343518	
1984471	EPA 8270D	Alachlor	0.25	U	ng/L	P343441	
		Ametryn	0.32	U	ng/L	P343441	MS
		Atrazine	2.9		ng/L	P343441	
		Atrazine Desethyl	1.5	U	ng/L	P343441	
		Azinphos Methyl	2.2	U	ng/L	P343441	
		Bromacil	0.50	U	ng/L	P343441	
		Butylate	0.40	U	ng/L	P343441	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P343441	
		Chlorpyrifos Methyl	0.10	U	ng/L	P343441	
		Demeton	2.0	U	ng/L	P343441	
		Diazinon	0.12	U	ng/L	P343441	
		Disulfoton	0.50	U	ng/L	P343441	RPD
		EPTC	1.2	U	ng/L	P343441	
		Ethion	0.15	U	ng/L	P343441	
		Ethoprop	0.10	U	ng/L	P343441	

Field ID: G3NW0132

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1984471	EPA 8270D	Fenamiphos	0.25	U	ng/L	P343441	
		Fipronil	0.25	U	ng/L	P343441	
		Fipronil Sulfide	0.15	U	ng/L	P343441	
		Fipronil Sulfone	0.15	U	ng/L	P343441	
		Hexazinone	2.1		ng/L	P343441	
		Malathion	0.35	U	ng/L	P343441	
		Metribuzin	0.20	UJ	ng/L	P343441	CCV
		Mevinphos	0.50	U	ng/L	P343441	
		Molinate	0.30	U	ng/L	P343441	
		Norflurazon	0.50	U	ng/L	P343441	RPD
		Pendimethalin	1.0	U	ng/L	P343441	
		Phorate	0.25	U	ng/L	P343441	
		Prometon	0.90	U	ng/L	P343441	
		Prometryn	0.20	U	ng/L	P343441	
		Simazine	0.50	U	ng/L	P343441	
		Terbufos	0.10	U	ng/L	P343441	
		Terbutylazine	0.42	U	ng/L	P343441	
		Fonofos	0.20	U	ng/L	P343441	
		Metalaxyl	0.25	U	ng/L	P343441	RPD
		Metolachlor	0.25	U	ng/L	P343441	
		Acetochlor	0.25	U	ng/L	P343441	
		Cyanazine	0.50	UJ	ng/L	P343441	CCV
		Parathion Ethyl	0.25	U	ng/L	P343441	
		Parathion Methyl	0.25	U	ng/L	P343441	
1984472	EPA 200.7 Rev. 4.4	Calcium	1.63		mg/L	P343487	
		Iron	30	U	ug/L	P343487	
		Magnesium	0.75		mg/L	P343487	
		Potassium	0.44	I	mg/L	P343487	
		Sodium	1.9	I	mg/L	P343487	
		Zinc	5.0	U	ug/L	P343487	
	EPA 200.8 Rev. 5.4	Arsenic	1.53		ug/L	P343487	
		Cadmium	0.020	U	ug/L	P343487	
		Chromium	0.40	U	ug/L	P343487	
		Copper	0.60	I	ug/L	P343487	
		Lead	0.081	I	ug/L	P343487	
		Nickel	0.20	U	ug/L	P343487	
		Silver	0.010	U	ug/L	P343487	

Ref. Method and Comment:

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

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

EPA 8270D: Insufficient sample available to perform duplicate matrix spikes.

EPA 8276: Insufficient sample available to perform duplicate matrix spikes.

EPA 8270D: MS accuracy for Atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the narrative for an explanation of QC Codes.

Sample Location: SPRING LAKE CENTER

Collection Date/Time: 04/12/2018 12:05

Field ID: G3NW0164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1984424	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P343394	
	EPA 300.0 Rev. 2.1	Chloride	2.5		mg Cl/L	P343613	
		Sulfate	0.51		mg SO4/L	P343615	
	SM 2120 B	Color (true)	11		PCU	P343385	
	SM 2320 B-97	Total Alkalinity	2.6		mg CaCO3/L	P343952	
	SM 2540 C-97	TDS	26		mg/L	P343893	
	SM 2540 D-97	TSS	2	I	mg/L	P343876	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P343956	
1984426	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P343691	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.46		mg N/L	P343460	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P343655	
	EPA 365.1 Rev. 2.0	Total-P	0.010		mg P/L	P344081	
	SM 5310 B-00	Organic Carbon	5.3		mg C/L	P343561	
1984428	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P343382	
1984467	EPA 8321B	2,4-D	0.0020	U	ug/L	P343321	
		Bentazon	8.0E-04	U	ug/L	P343321	
		MCP	0.0020	U	ug/L	P343321	
		Triclopyr**	0.0040	U	ug/L	P343321	
		Imidacloprid	0.0020	U	ug/L	P343321	MS, RPD
		Diuron	0.0020	U	ug/L	P343321	RPD
		Pyraclostrobin**	0.0020	U	ug/L	P343321	MS, RPD
		Primidone**	0.0040	U	ug/L	P343321	MS, RPD
		Linuron	0.0040	U	ug/L	P343321	
		Acetaminophen**	0.0080	U	ug/L	P343321	MS, RPD
		Fenuron	0.016	U	ug/L	P343321	RPD
		Imazapyr**	0.0040	U	ug/L	P343321	
		Carbamazepine**	4.0E-04	U	ug/L	P343321	RPD
		Fluridone**	8.0E-04	U	ug/L	P343321	
		Hydrocodone**	8.0E-04	U	ug/L	P343321	
		Sucralose**	0.10	U	ug/L	P343272	

Ref. Method and Comment:

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

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

Sample Location: SPRING LAKE CENTER

Collection Date/Time: 04/12/2018 12:15

Field ID: G3NW0164_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1984425	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P343394	
	EPA 300.0 Rev. 2.1	Chloride	2.5		mg Cl/L	P343613	
		Sulfate	0.51		mg SO4/L	P343615	
	SM 2120 B	Color (true)	11		PCU	P343385	
	SM 2320 B-97	Total Alkalinity	2.6		mg CaCO3/L	P343952	
	SM 2540 C-97	TDS	24	I	mg/L	P343893	
	SM 2540 D-97	TSS	3	I	mg/L	P343876	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P343956	

Field ID: G3NW0164_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1984427	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P343778	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.45		mg N/L	P343635	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P343655	
	EPA 365.1 Rev. 2.0	Total-P	0.009		mg P/L	P344136	
	SM 5310 B-00	Organic Carbon	5.4		mg C/L	P343561	
1984429	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P343382	
1984468	EPA 8321B	2,4-D	0.0020	U	ug/L	P343321	
		Bentazon	8.0E-04	U	ug/L	P343321	
		MCP	0.0020	U	ug/L	P343321	
		Triclopyr**	0.0040	U	ug/L	P343321	
		Imidacloprid	0.0020	U	ug/L	P343321	MS, RPD
		Diuron	0.0020	U	ug/L	P343321	RPD
		Pyraclostrobin**	0.0020	U	ug/L	P343321	MS, RPD
		Primidone**	0.0040	U	ug/L	P343321	MS, RPD
		Linuron	0.0040	U	ug/L	P343321	
		Acetaminophen**	0.0080	U	ug/L	P343321	MS, RPD
		Fenuron	0.016	U	ug/L	P343321	RPD
		Imazapyr**	0.0040	U	ug/L	P343321	
		Carbamazepine**	4.0E-04	U	ug/L	P343321	RPD
		Fluridone**	8.0E-04	U	ug/L	P343321	
		Hydrocodone**	8.0E-04	U	ug/L	P343321	
		Sucralose**	0.10	U	ug/L	P343272	

Ref. Method and Comment:

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

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

Sample Location: Spring Lake

Collection Date/Time: 04/12/2018 12:25

Field ID: BLANK_04122018

Matrix: DI-WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1984469	EPA 8321B	2,4-D	0.0020	U	ug/L	P343321	
		Bentazon	8.0E-04	U	ug/L	P343321	
		MCP	0.0020	U	ug/L	P343321	
		Triclopyr**	0.0040	U	ug/L	P343321	
		Imidacloprid	0.0020	U	ug/L	P343321	MS, RPD
		Diuron	0.0020	U	ug/L	P343321	RPD
		Pyraclostrobin**	0.0020	U	ug/L	P343321	MS, RPD
		Primidone**	0.0040	U	ug/L	P343321	MS, RPD
		Linuron	0.0040	U	ug/L	P343321	
		Acetaminophen**	0.0080	U	ug/L	P343321	MS, RPD
		Fenuron	0.016	U	ug/L	P343321	RPD
		Imazapyr**	0.0040	U	ug/L	P343321	
		Carbamazepine**	4.0E-04	U	ug/L	P343321	RPD
		Fluridone**	8.0E-04	U	ug/L	P343321	
		Hydrocodone**	8.0E-04	U	ug/L	P343321	
		Sucralose**	0.10	U	ug/L	P343272	

Field ID: BLANK_04122018

Matrix: DI-WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1984494	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P343394	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P343613	
		Sulfate	0.20	U	mg SO4/L	P343615	
	SM 2120 B	Color (true)	2.5	U	PCU	P343385	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P343952	
	SM 2540 C-97	TDS	15	U	mg/L	P343892	
	SM 2540 D-97	TSS	2	U	mg/L	P343875	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P343956	
1984495	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P343691	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P343635	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P343656	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P343597	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P343561	
1984496	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P343382	

Ref. Method and Comment:

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

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P343394

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P343487

Component	Result	Code	Units
Calcium	0.097	I	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P343487

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343613

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343615

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P343691

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P343778

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P343460

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P343635

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343655

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343656

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P343597

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
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: P344136

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P343382

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

Reference Method: EPA 8270D
Batch ID: P343441

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P343441

Component	Result	Code	Units
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 8270D
Batch ID: P343518

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 8276
Batch ID: P343518

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

Reference Method: EPA 8321B
Batch ID: P343272

Component	Result	Code	Units
AMPA	0.10	U	ug/L
Endothall	0.10	U	ug/L
Glufosinate	0.10	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P343272

Component	Result	Code	Units
Glyphosate	0.10	U	ug/L
Sucralose	0.10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P343321

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: P343384

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P343385

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P343952

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 C-97
 Batch ID: P343892

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
 Batch ID: P343893

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
 Batch ID: P343875

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
 Batch ID: P343876

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
 Batch ID: P343956

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
 Batch ID: P343560

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

Reference Method: SM 5310 B-00
 Batch ID: P343561

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: P343487

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	104		P	85 - 115
Magnesium	111		P	85 - 115
Potassium	102		P	85 - 115
Sodium	110		P	85 - 115
Zinc	101		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P343487

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	100		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	96.4		P	85 - 115
Copper	95.7		P	85 - 115
Lead	96.5		P	85 - 115
Nickel	98.2		P	85 - 115
Silver	98.8		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343613

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343615

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P343691

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P343778

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P343460

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P343635

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343655

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343656

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P343597

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

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: P344136

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: P343382

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

Reference Method: EPA 8270D
Batch ID: P343441

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	95.5	90.2	P/P	74 - 119
Alachlor	103	91.1	P/P	75 - 118
Ametryn	71.3	65.7	P/P	59 - 137
Atrazine	98.9	90.2	P/P	73 - 120
Atrazine Desethyl	83.0	92.5	P/P	19 - 129
Azinphos Methyl	131	120	P/P	65 - 181
Bromacil	94.0	91.3	P/P	43 - 123
Butylate	52.8	68.1	P/P	28 - 85.0
Chlorpyrifos Ethyl	84.9	98.9	P/P	55 - 112
Chlorpyrifos Methyl	93.8	99.6	P/P	35 - 124
Cyanazine	192	201	P/P	26 - 262
Demeton	56.2	60.6	P/P	43 - 122
Diazinon	101	103	P/P	72 - 120
Disulfoton	70.6	87.9	P/P	45 - 137
EPTC	46.2	58.4	P/P	28 - 95.0
Ethion	103	92.7	P/P	63 - 127
Ethoprop	71.8	92.3	P/P	63 - 109
Fenamiphos	88.3	96.8	P/P	66 - 136
Fipronil	90.1	84.9	P/P	63 - 126
Fipronil Sulfide	73.1	70.3	P/P	59 - 123
Fipronil Sulfone	78.8	67.2	P/P	56 - 122
Fonofos	76.7	88.1	P/P	64 - 114

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
 Batch ID: P343441

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Hexazinone	98.7	88.8	P/P	49 - 144
Malathion	87.4	95.9	P/P	68 - 131
Metalaxyl	86.9	82.0	P/P	57 - 126
Metolachlor	94.5	98.9	P/P	75 - 118
Metribuzin	97.6	120	P/P	46 - 169
Mevinphos	65.7	73.7	P/P	34 - 126
Molinate	60.4	72.8	P/P	37 - 101
Norflurazon	94.9	77.8	P/P	63 - 127
Parathion Ethyl	85.0	85.8	P/P	78 - 109
Parathion Methyl	116	99.4	P/P	74 - 123
Pendimethalin	97.0	92.2	P/P	51 - 130
Phorate	75.5	87.8	P/P	53 - 116
Prometon	95.0	88.7	P/P	66 - 124
Prometryn	91.7	69.2	P/P	66 - 124
Simazine	88.5	93.2	P/P	62 - 134
Terbufos	81.0	95.3	P/P	59 - 115
Terbutylazine	94.0	86.7	P/P	76 - 113

Reference Method: EPA 8270D
 Batch ID: P343518

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	38.5	41.8	P/P	24 - 89.0
Alpha-BHC	91.8	91.1	P/P	58 - 117
Alpha-Chlordane	72.2	80.1	P/P	56 - 115
Beta-BHC	107	102	P/P	55 - 137
Carbophenothion	120	125	P/P	37 - 145
Chlorothalonil	86.4	96.5	P/P	26 - 163
Cypermethrin	82.3	77.3	P/P	42 - 156
DDD-p,p'	93.2	100	P/P	59 - 129
DDE-p,p'	80.3	86.3	P/P	52 - 117
DDT-p,p'	92.5	97.1	P/P	48 - 128
Delta-BHC	119	112	P/P	59 - 158
Dicofol	89.4	90.9	P/P	19 - 124
Dieldrin	77.9	84.9	P/P	57 - 126
Endosulfan I	80.9	87.0	P/P	59 - 133
Endosulfan II	90.6	95.1	P/P	58 - 148
Endosulfan Sulfate	105	98.4	P/P	56 - 135
Endrin	80.1	86.8	P/P	50 - 140
Endrin Aldehyde	77.3	85.0	P/P	47 - 141
Endrin Ketone	98.1	92.5	P/P	63 - 123
Gamma-BHC	102	101	P/P	59 - 132
Gamma-Chlordane	70.1	76.8	P/P	55 - 112
Heptachlor	62.1	69.4	P/P	45 - 102
Heptachlor Epoxide	73.2	79.2	P/P	61 - 116
Methoxychlor	95.5	97.0	P/P	60 - 133
Mirex	78.6	80.9	P/P	40 - 98.0
Permethrin	87.5	86.8	P/P	45 - 131
Trifluralin	84.9	84.2	P/P	38 - 179

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276

Batch ID: P343518

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	97.7	101	P/P	47 - 125
Toxaphene	71.3	74.4	P/P	46 - 147

Reference Method: EPA 8321B

Batch ID: P343272

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	81.1		P	40 - 140
Endothall	100		P	40 - 140
Glufosinate	68.5		P	40 - 140
Glyphosate	94.4		P	40 - 140
Sucralose	113		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P343321

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	83.4		P	40 - 150
3-Hydroxycarbofuran	113		P	40 - 150
Acetaminophen	115		P	30 - 150
Aldicarb	120		P	30 - 150
Aldicarb Sulfone	114		P	40 - 150
Aldicarb Sulfoxide	66.7		P	40 - 150
Bentazon	105		P	30 - 150
Carbamazepine	101		P	40 - 150
Carbaryl	70.3		P	40 - 150
Carbofuran	80.9		P	40 - 150
Diuron	69.5		P	40 - 150
Fenuron	126		P	40 - 150
Fluridone	49.2		P	40 - 150
Hydrocodone	106		P	40 - 150
Imazapyr	82.5		P	40 - 150
Imidacloprid	108		P	40 - 160
Linuron	66.9		P	40 - 150
MCPP	68.9		P	40 - 150
Methiocarb	67.7		P	40 - 150
Methomyl	112		P	40 - 150
Oxamyl	105		P	40 - 150
Primidone	119		P	40 - 150
Propoxur	86.6		P	40 - 150
Pyraclostrobin	54.9		P	40 - 150
Triclopyr	76.9		P	40 - 150

Reference Method: SM 2320 B-97

Batch ID: P343952

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	98 - 107

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P343956

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.3		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P343560

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.8		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P343561

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P343487

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984354	Calcium	102		P	80 - 120
1984354	Iron	104		P	80 - 120
1984354	Magnesium	108		P	80 - 120
1984354	Potassium	100		P	80 - 120
1984354	Sodium	104		P	80 - 120
1984354	Zinc	101		P	80 - 120
1984472	Calcium	105	101	P/P	80 - 120
1984472	Iron	106	103	P/P	80 - 120
1984472	Magnesium	112	109	P/P	80 - 120
1984472	Potassium	109	104	P/P	80 - 120
1984472	Sodium	106	103	P/P	80 - 120
1984472	Zinc	103	102	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P343487

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984354	Arsenic	99.9		P	80 - 120
1984354	Cadmium	101		P	80 - 120
1984354	Chromium	97.4		P	80 - 120
1984354	Copper	93.6		P	80 - 120
1984354	Lead	96.8		P	80 - 120
1984354	Nickel	98.0		P	80 - 120
1984354	Silver	98.3		P	80 - 120
1984472	Arsenic	99.4	99.4	P/P	80 - 120
1984472	Cadmium	101	100	P/P	80 - 120
1984472	Chromium	97.3	96.2	P/P	80 - 120
1984472	Copper	95.0	94.7	P/P	80 - 120
1984472	Lead	96.3	96.8	P/P	80 - 120
1984472	Nickel	98.1	97.0	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P343487

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984472	Silver	98.5	98.0	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343613

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984415	Chloride	94.7		P	90 - 110
1984524	Chloride	95.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343615

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984415	Sulfate	94.0		P	90 - 110
1984524	Sulfate	96.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P343691

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984371	Ammonia-N	97.2	96.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P343778

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1985085	Ammonia-N	97.8	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P343460

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984426	Kjeldahl Nitrogen	91.4	91.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P343635

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984513	Kjeldahl Nitrogen	90.1	92.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343655

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984330	NO2NO3-N	97.8	98.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343656

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984422	NO2NO3-N	103	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P343597

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984410	Total-P	102	103	P/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: P344136

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1987018	Total-P	99.0	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P343382

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984423	O-Phosphate-P	99.9	99.7	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P343441

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983041	Acetochlor	88.1	113	P/P	67 - 125
1983041	Alachlor	91.3	114	P/P	69 - 123
1983041	Ametryn	206	165	F/F	52 - 151
1983041	Atrazine Desethyl	83.4	76.7	P/P	10 - 129
1983041	Azinphos Methyl	118	140	P/P	48 - 200
1983041	Bromacil	79.2	88.0	P/P	46 - 130
1983041	Butylate	50.3	54.4	P/P	10 - 85.0
1983041	Chlorpyrifos Ethyl	77.1	75.9	P/P	54 - 115
1983041	Chlorpyrifos Methyl	93.2	95.1	P/P	44 - 117
1983041	Cyanazine	177	183	P/P	10 - 262
1983041	Demeton	88.3	73.1	P/P	24 - 145
1983041	Diazinon	104	121	P/P	66 - 129
1983041	Disulfoton	92.7	65.9	P/P	45 - 139
1983041	EPTC	43.2	45.6	P/P	10 - 86.0
1983041	Ethion	92.5	93.7	P/P	59 - 133
1983041	Ethoprop	88.9	92.3	P/P	54 - 116
1983041	Fenamiphos	76.2	82.0	P/P	55 - 140
1983041	Fipronil	78.1	74.6	P/P	37 - 142
1983041	Fipronil Sulfide	57.0	50.4	P/P	37 - 130
1983041	Fipronil Sulfone	67.0	50.1	P/P	18 - 143
1983041	Fonofos	88.9	85.8	P/P	55 - 118
1983041	Hexazinone	73.7	88.6	P/P	62 - 140
1983041	Malathion	75.3	79.9	P/P	64 - 132
1983041	Metalaxyl	65.1	94.5	P/P	55 - 129
1983041	Metolachlor	72.7	95.3	P/P	56 - 137
1983041	Metribuzin	173	199	P/P	16 - 218
1983041	Mevinphos	81.9	66.8	P/P	34 - 129
1983041	Molinate	69.0	76.1	P/P	16 - 99.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P343441

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983041	Norflurazon	48.9	72.4	P/P	43 - 135
1983041	Parathion Ethyl	75.5	88.1	P/P	71 - 112
1983041	Parathion Methyl	97.7	120	P/P	65 - 127
1983041	Pendimethalin	80.6	107	P/P	35 - 159
1983041	Phorate	88.0	69.2	P/P	41 - 129
1983041	Prometon	89.9	102	P/P	56 - 140
1983041	Prometryn	74.8	95.6	P/P	65 - 130
1983041	Simazine	86.3	112	P/P	54 - 148
1983041	Terbufos	91.9	88.4	P/P	53 - 126
1983041	Terbutylazine	89.0	108	P/P	73 - 114

Reference Method: EPA 8270D
Batch ID: P343518

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984470	Aldrin	54.4		P	26 - 96.0
1984470	Alpha-BHC	92.9		P	51 - 123
1984470	Alpha-Chlordane	64.2		P	45 - 120
1984470	Beta-BHC	89.8		P	43 - 146
1984470	Carbophenothion	135		P	26 - 179
1984470	Chlorothalonil	86.2		P	10 - 215
1984470	Cypermethrin	77.8		P	35 - 169
1984470	DDD-p,p'	76.8		P	49 - 131
1984470	DDE-p,p'	67.3		P	39 - 127
1984470	DDT-p,p'	88.8		P	49 - 120
1984470	Delta-BHC	111		P	49 - 187
1984470	Dicofol	77.1		P	10 - 129
1984470	Dieldrin	65.9		P	46 - 132
1984470	Endosulfan I	72.6		P	57 - 130
1984470	Endosulfan II	83.5		P	52 - 148
1984470	Endosulfan Sulfate	76.8		P	55 - 129
1984470	Endrin	72.6		P	45 - 133
1984470	Endrin Aldehyde	60.2		P	26 - 140
1984470	Endrin Ketone	94.1		P	60 - 125
1984470	Gamma-BHC	91.9		P	50 - 145
1984470	Gamma-Chlordane	62.0		P	44 - 118
1984470	Heptachlor	58.0		P	35 - 106
1984470	Heptachlor Epoxide	64.3		P	52 - 123
1984470	Methoxychlor	89.7		P	54 - 132
1984470	Mirex	74.5		P	36 - 107
1984470	Permethrin	77.0		P	47 - 135
1984470	Trifluralin	74.4		P	32 - 228

Reference Method: EPA 8276
Batch ID: P343518

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984906	Chlordane	105		P	41 - 134
1984906	Toxaphene	72.0		P	39 - 158

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P343272

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983451	AMPA	34.7	35.8	F/F	40 - 140
1983451	Endothall	113	112	P/P	40 - 140
1983451	Glufosinate	92.3	92.6	P/P	40 - 140
1983451	Glyphosate	61.1	61.9	P/P	40 - 140
1983451	Sucralose	60.7	59.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P343321

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984892	2,4-D	91.3	98.0	P/P	40 - 150
1984892	3-Hydroxycarbofuran	150	107	P/P	40 - 150
1984892	Acetaminophen	158	97.8	F/P	30 - 150
1984892	Aldicarb	121	84.1	P/P	30 - 150
1984892	Aldicarb Sulfone	179	125	F/P	40 - 150
1984892	Aldicarb Sulfoxide	121	82.1	P/P	40 - 150
1984892	Bentazon	108	113	P/P	30 - 150
1984892	Carbamazepine	127	92.0	P/P	40 - 150
1984892	Carbaryl	75.7	49.9	P/P	40 - 150
1984892	Carbofuran	87.9	64.7	P/P	40 - 150
1984892	Diuron	84.1	58.9	P/P	40 - 150
1984892	Fenuron	138	90.5	P/P	40 - 150
1984892	Fluridone	54.9	40.4	P/P	40 - 150
1984892	Hydrocodone	122	98.6	P/P	40 - 150
1984892	Imidacloprid	276	179	F/F	40 - 160
1984892	Linuron	82.9	64.6	P/P	40 - 150
1984892	MCP	83.6	85.8	P/P	40 - 150
1984892	Methiocarb	82.1	57.4	P/P	40 - 150
1984892	Methomyl	110	77.9	P/P	40 - 150
1984892	Oxamyl	124	80.7	P/P	40 - 150
1984892	Primidone	153	91.0	F/P	40 - 150
1984892	Propoxur	80.0	61.1	P/P	40 - 150
1984892	Pyraclostrobin	69.8	38.1	P/F	40 - 150
1984892	Triclopyr	81.7	90.6	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P343956

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984236	Fluoride	95.2	95.7	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P343560

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984026	Organic Carbon	95.2	95.6	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P343561

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984426	Organic Carbon	94.4	95.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P343394

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984406	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P343487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984472	Calcium	2.41	Spike	P	0 - 20
1984472	Iron	2.92	Spike	P	0 - 20
1984472	Magnesium	2.59	Spike	P	0 - 20
1984472	Potassium	3.60	Spike	P	0 - 20
1984472	Sodium	1.88	Spike	P	0 - 20
1984472	Zinc	1.81	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P343487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984472	Arsenic	0.0116	Spike	P	0 - 20
1984472	Cadmium	0.984	Spike	P	0 - 20
1984472	Chromium	1.21	Spike	P	0 - 20
1984472	Copper	0.375	Spike	P	0 - 20
1984472	Lead	0.443	Spike	P	0 - 20
1984472	Nickel	1.14	Spike	P	0 - 20
1984472	Silver	0.541	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343613

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984415	Chloride	0.00689	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343615

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984415	Sulfate	0.137	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P343691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984371	Ammonia-N	0.334	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P343778

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1985085	Ammonia-N	1.10	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P343460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984426	Kjeldahl Nitrogen	0.0708	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P343635

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984513	Kjeldahl Nitrogen	1.35	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343655

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984330	NO2NO3-N	0.458	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343656

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984422	NO2NO3-N	0.487	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P343597

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984410	Total-P	0.393	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: P344136

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1987018	Total-P	1.26	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P343382

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984423	O-Phosphate-P	0.200	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P343441

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983041	Acetochlor	24.6	Spike	P	0 - 30
1983041	Alachlor	21.7	Spike	P	0 - 30
1983041	Ametryn	21.9	Spike	P	0 - 30
1983041	Atrazine	14.6	Spike	P	0 - 30
1983041	Atrazine Desethyl	8.29	Spike	P	0 - 30
1983041	Azinphos Methyl	16.5	Spike	P	0 - 30
1983041	Bromacil	10.5	Spike	P	0 - 30
1983041	Butylate	7.87	Spike	P	0 - 30
1983041	Chlorpyrifos Ethyl	1.55	Spike	P	0 - 30
1983041	Chlorpyrifos Methyl	1.99	Spike	P	0 - 30
1983041	Cyanazine	3.42	Spike	P	0 - 30
1983041	Demeton	18.8	Spike	P	0 - 30
1983041	Diazinon	15.1	Spike	P	0 - 30
1983041	Disulfoton	33.7	Spike	F	0 - 30
1983041	EPTC	5.45	Spike	P	0 - 30
1983041	Ethion	1.25	Spike	P	0 - 30
1983041	Ethoprop	3.80	Spike	P	0 - 30
1983041	Fenamiphos	7.25	Spike	P	0 - 30
1983041	Fipronil	4.58	Spike	P	0 - 30
1983041	Fipronil Sulfide	12.2	Spike	P	0 - 30
1983041	Fipronil Sulfone	28.8	Spike	P	0 - 30
1983041	Fonofos	3.60	Spike	P	0 - 30
1983041	Hexazinone	18.4	Spike	P	0 - 30
1983041	Malathion	5.86	Spike	P	0 - 30
1983041	Metalaxyl	36.8	Spike	F	0 - 30
1983041	Metolachlor	25.5	Spike	P	0 - 30
1983041	Metribuzin	14.2	Spike	P	0 - 30
1983041	Mevinphos	20.2	Spike	P	0 - 30
1983041	Molinate	9.77	Spike	P	0 - 30
1983041	Norflurazon	38.7	Spike	F	0 - 30
1983041	Parathion Ethyl	15.4	Spike	P	0 - 30
1983041	Parathion Methyl	20.6	Spike	P	0 - 30
1983041	Pendimethalin	28.1	Spike	P	0 - 30
1983041	Phorate	24.0	Spike	P	0 - 30
1983041	Prometon	12.2	Spike	P	0 - 30
1983041	Prometryn	24.4	Spike	P	0 - 30
1983041	Simazine	26.3	Spike	P	0 - 30
1983041	Terbufos	3.87	Spike	P	0 - 30
1983041	Terbutylazine	19.1	Spike	P	0 - 30
LFB	Acetochlor	5.79	LCS	P	0 - 30
LFB	Alachlor	11.8	LCS	P	0 - 30
LFB	Ametryn	8.12	LCS	P	0 - 30
LFB	Atrazine	9.17	LCS	P	0 - 30
LFB	Atrazine Desethyl	10.7	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P343441

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Azinphos Methyl	8.77	LCS	P	0 - 30
LFB	Bromacil	2.88	LCS	P	0 - 30
LFB	Butylate	25.3	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	15.3	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	6.04	LCS	P	0 - 30
LFB	Cyanazine	4.59	LCS	P	0 - 30
LFB	Demeton	7.54	LCS	P	0 - 30
LFB	Diazinon	2.32	LCS	P	0 - 30
LFB	Disulfoton	21.9	LCS	P	0 - 30
LFB	EPTC	23.3	LCS	P	0 - 30
LFB	Ethion	10.1	LCS	P	0 - 30
LFB	Ethoprop	25.0	LCS	P	0 - 30
LFB	Fenamiphos	9.22	LCS	P	0 - 30
LFB	Fipronil	5.90	LCS	P	0 - 30
LFB	Fipronil Sulfide	3.90	LCS	P	0 - 30
LFB	Fipronil Sulfone	15.9	LCS	P	0 - 30
LFB	Fonofos	13.8	LCS	P	0 - 30
LFB	Hexazinone	10.6	LCS	P	0 - 30
LFB	Malathion	9.20	LCS	P	0 - 30
LFB	Metalaxyl	5.70	LCS	P	0 - 30
LFB	Metolachlor	4.62	LCS	P	0 - 30
LFB	Metribuzin	20.4	LCS	P	0 - 30
LFB	Mevinphos	11.5	LCS	P	0 - 30
LFB	Molinate	18.7	LCS	P	0 - 30
LFB	Norflurazon	19.7	LCS	P	0 - 30
LFB	Parathion Ethyl	0.892	LCS	P	0 - 30
LFB	Parathion Methyl	15.6	LCS	P	0 - 30
LFB	Pendimethalin	5.11	LCS	P	0 - 30
LFB	Phorate	15.0	LCS	P	0 - 30
LFB	Prometon	6.94	LCS	P	0 - 30
LFB	Prometryn	28.0	LCS	P	0 - 30
LFB	Simazine	5.20	LCS	P	0 - 30
LFB	Terbufos	16.2	LCS	P	0 - 30
LFB	Terbutylazine	8.06	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P343518

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Aldrin	8.19	LCS	P	0 - 30
LFB	Alpha-BHC	0.800	LCS	P	0 - 30
LFB	Alpha-Chlordane	10.4	LCS	P	0 - 30
LFB	Beta-BHC	4.64	LCS	P	0 - 30
LFB	Carbophenothion	4.69	LCS	P	0 - 30
LFB	Chlorothalonil	11.1	LCS	P	0 - 30
LFB	Cypermethrin	6.26	LCS	P	0 - 30
LFB	DDD-p,p'	7.32	LCS	P	0 - 30
LFB	DDE-p,p'	7.19	LCS	P	0 - 30
LFB	DDT-p,p'	4.82	LCS	P	0 - 30
LFB	Delta-BHC	6.38	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P343518

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Dicofol	1.65	LCS	P	0 - 30
LFB	Dieldrin	8.67	LCS	P	0 - 30
LFB	Endosulfan I	7.29	LCS	P	0 - 30
LFB	Endosulfan II	4.94	LCS	P	0 - 30
LFB	Endosulfan Sulfate	6.79	LCS	P	0 - 30
LFB	Endrin	8.03	LCS	P	0 - 30
LFB	Endrin Aldehyde	9.53	LCS	P	0 - 30
LFB	Endrin Ketone	5.81	LCS	P	0 - 30
LFB	Gamma-BHC	0.873	LCS	P	0 - 30
LFB	Gamma-Chlordane	9.05	LCS	P	0 - 30
LFB	Heptachlor	11.1	LCS	P	0 - 30
LFB	Heptachlor Epoxide	7.86	LCS	P	0 - 30
LFB	Methoxychlor	1.60	LCS	P	0 - 30
LFB	Mirex	2.84	LCS	P	0 - 30
LFB	Permethrin	0.882	LCS	P	0 - 30
LFB	Trifluralin	0.865	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P343518

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlordane	2.91	LCS	P	0 - 30
LFB	Toxaphene	4.23	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P343272

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983451	AMPA	2.07	Spike	P	0 - 30
1983451	Endothall	0.886	Spike	P	0 - 30
1983451	Glufosinate	0.325	Spike	P	0 - 30
1983451	Glyphosate	0.691	Spike	P	0 - 30
1983451	Sucralose	0.882	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P343321

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984892	2,4-D	6.62	Spike	P	0 - 30
1984892	3-Hydroxycarbofuran	33.3	Spike	F	0 - 30
1984892	Acetaminophen	46.8	Spike	F	0 - 30
1984892	Aldicarb	36.1	Spike	F	0 - 30
1984892	Aldicarb Sulfone	35.7	Spike	F	0 - 30
1984892	Aldicarb Sulfoxide	38.4	Spike	F	0 - 30
1984892	Bentazon	4.20	Spike	P	0 - 30
1984892	Carbamazepine	31.4	Spike	F	0 - 30
1984892	Carbaryl	41.1	Spike	F	0 - 30
1984892	Carbofuran	30.4	Spike	F	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P343321

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984892	Diuron	31.0	Spike	F	0 - 30
1984892	Fenuron	41.6	Spike	F	0 - 30
1984892	Fluridone	26.9	Spike	P	0 - 30
1984892	Hydrocodone	21.6	Spike	P	0 - 30
1984892	Imidacloprid	39.9	Spike	F	0 - 30
1984892	Linuron	24.7	Spike	P	0 - 30
1984892	MCP	2.61	Spike	P	0 - 30
1984892	Methiocarb	35.5	Spike	F	0 - 30
1984892	Methomyl	34.1	Spike	F	0 - 30
1984892	Oxamyl	42.0	Spike	F	0 - 30
1984892	Primidone	48.0	Spike	F	0 - 30
1984892	Propoxur	26.7	Spike	P	0 - 30
1984892	Pyraclostrobin	58.9	Spike	F	0 - 30
1984892	Triclopyr	10.3	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P343384

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984366	Color (true)	0.816	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P343385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984512	Color (true)	3.69	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P343952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984236	Total Alkalinity	0.123	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P343892

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984407	TDS	5.59	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P343893

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984512	TDS	6.78	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
Batch ID: P343956

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984236	Fluoride	0.514	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P343560

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984026	Organic Carbon	0.253	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P343561

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984426	Organic Carbon	0.453	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: 1984465
Field Sample ID: G3NW0132

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	82.4	P	30 - 160

Lab Sample ID: 1984466
Field Sample ID: G3NW0132

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	74.5	P	30 - 160
EPA 8321B	2,4-D-d3	74.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	123	P	30 - 160
EPA 8321B	Acetaminophen-d4	123	P	30 - 160
EPA 8321B	Carbamazepine-d10	127	P	30 - 160
EPA 8321B	Carbamazepine-d10	127	P	30 - 160
EPA 8321B	Diuron-d6	80.3	P	30 - 160
EPA 8321B	Diuron-d6	80.3	P	30 - 160
EPA 8321B	Endothall-d6	77.9	P	40 - 160
EPA 8321B	Endothall-d6	77.9	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	108	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	108	P	40 - 160
EPA 8321B	Primidone-d5	134	P	30 - 160
EPA 8321B	Primidone-d5	134	P	30 - 160
EPA 8321B	Sucralose-d6	81.9	P	40 - 160
EPA 8321B	Sucralose-d6	81.9	P	40 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1984467
Field Sample ID: G3NW0164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	73.0	P	30 - 160
EPA 8321B	2,4-D-d3	73.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	130	P	30 - 160
EPA 8321B	Acetaminophen-d4	130	P	30 - 160
EPA 8321B	Carbamazepine-d10	113	P	30 - 160
EPA 8321B	Carbamazepine-d10	113	P	30 - 160
EPA 8321B	Diuron-d6	77.4	P	30 - 160
EPA 8321B	Diuron-d6	77.4	P	30 - 160
EPA 8321B	Primidone-d5	122	P	30 - 160
EPA 8321B	Primidone-d5	122	P	30 - 160
EPA 8321B	Sucralose-d6	107	P	40 - 160
EPA 8321B	Sucralose-d6	107	P	40 - 160

Lab Sample ID: 1984468
Field Sample ID: G3NW0164_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	61.3	P	30 - 160
EPA 8321B	2,4-D-d3	61.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	153	P	30 - 160
EPA 8321B	Acetaminophen-d4	153	P	30 - 160
EPA 8321B	Carbamazepine-d10	134	P	30 - 160
EPA 8321B	Carbamazepine-d10	134	P	30 - 160
EPA 8321B	Diuron-d6	86.5	P	30 - 160
EPA 8321B	Diuron-d6	86.5	P	30 - 160
EPA 8321B	Primidone-d5	156	P	30 - 160
EPA 8321B	Primidone-d5	156	P	30 - 160
EPA 8321B	Sucralose-d6	105	P	40 - 160
EPA 8321B	Sucralose-d6	105	P	40 - 160

Lab Sample ID: 1984469
Field Sample ID: BLANK_04122018

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	79.0	P	30 - 160
EPA 8321B	2,4-D-d3	79.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	121	P	30 - 160
EPA 8321B	Acetaminophen-d4	121	P	30 - 160
EPA 8321B	Carbamazepine-d10	124	P	30 - 160
EPA 8321B	Carbamazepine-d10	124	P	30 - 160
EPA 8321B	Diuron-d6	91.2	P	30 - 160
EPA 8321B	Diuron-d6	91.2	P	30 - 160
EPA 8321B	Primidone-d5	148	P	30 - 160
EPA 8321B	Primidone-d5	148	P	30 - 160
EPA 8321B	Sucralose-d6	132	P	40 - 160
EPA 8321B	Sucralose-d6	132	P	40 - 160

Lab Sample ID: 1984470
Field Sample ID: G3NW0132

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	68.8	P	37 - 117

Quality Assurance Report Surrogates

Lab Sample ID: 1984470
Field Sample ID: G3NW0132

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Tetrachloro-m-xylene	60.9	P	34 - 101
EPA 8276	Decachlorobiphenyl	66.8	P	31 - 108
EPA 8276	PCNB	104	P	62 - 142

Lab Sample ID: 1984471
Field Sample ID: G3NW0132

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	102	P	71 - 126
EPA 8270D	Terbufos-d10	98.0	P	59 - 149

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A83231
Included Lab Sample IDs: 1984423, 1984428, 1984429, 1984496

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.8	P/P	90 - 110
O-Phosphate-P	99.8	101	P/P	90 - 110

Reference Method: SM 2120 B
Run ID: A83232
Included Lab Sample IDs: 1984421, 1984424, 1984425, 1984494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	99.2	P/P	90 - 115
Color (true)	99.7	100	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A83235
Included Lab Sample IDs: 1984421, 1984424, 1984425, 1984494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	97.5	98.5	P/P	95 - 105

Reference Method: EPA 8321B
Run ID: A83252
Included Lab Sample IDs: 1984466, 1984467, 1984468, 1984469

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	91.7	93.7	P/P	60 - 150
Endothall	98.4	97.2	P/P	60 - 150
Glufosinate	92.5	101	P/P	60 - 150
Glyphosate	128	124	P/P	60 - 150
Sucralose	114	115	P/P	60 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A83267

Included Lab Sample IDs: 1984421, 1984424, 1984425, 1984494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.6	99.8	P/P	90 - 110
Chloride	98.9	98.6	P/P	90 - 110
Sulfate	98.7	99.1	P/P	90 - 110
Sulfate	99.1	100	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A83286

Included Lab Sample IDs: 1984422, 1984426, 1984427, 1984495

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.4	98.6	P/P	90 - 110
Organic Carbon	98.6	97.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A83301

Included Lab Sample IDs: 1984472

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.6	101	P/P	90 - 110
Iron	98.4	98.7	P/P	90 - 110
Magnesium	101	102	P/P	90 - 110
Potassium	105	108	P/P	90 - 110
Zinc	102	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A83312

Included Lab Sample IDs: 1984422, 1984426

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	95.6	P/P	90 - 110
Kjeldahl Nitrogen	95.6	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A83321

Included Lab Sample IDs: 1984422, 1984426, 1984427, 1984495

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A83326

Included Lab Sample IDs: 1984422, 1984426, 1984495

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A83334

Included Lab Sample IDs: 1984427, 1984495

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	104	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A83336

Included Lab Sample IDs: 1984472

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A83354

Included Lab Sample IDs: 1984427

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	103	98.7	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A83356

Included Lab Sample IDs: 1984472

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	100	98.5	P/P	90 - 110
Cadmium	102	103	P/P	90 - 110
Chromium	98.5	98.4	P/P	90 - 110
Copper	98.4	95.5	P/P	90 - 110
Lead	98.4	98.0	P/P	90 - 110
Nickel	98.3	95.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A83357

Included Lab Sample IDs: 1984422, 1984495

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.2	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A83411

Included Lab Sample IDs: 1984471

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	94.0		P	80 - 120
Alachlor	94.8		P	80 - 120
Ametryn	92.4		P	80 - 120
Atrazine	95.0		P	80 - 120
Atrazine Desethyl	86.6		P	80 - 120
Azinphos Methyl	82.9		P	80 - 120
Bromacil	89.6		P	80 - 120
Butylate	93.6		P	80 - 120
Chlorpyrifos Ethyl	86.3		P	80 - 120
Chlorpyrifos Methyl	95.3		P	80 - 120
Cyanazine	65.4*		F	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A83411

Included Lab Sample IDs: 1984471

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Demeton	96.7		P	80 - 120
Diazinon	93.5		P	80 - 120
Disulfoton	93.5		P	80 - 120
EPTC	93.9		P	80 - 120
Ethion	89.7		P	80 - 120
Ethoprop	95.9		P	80 - 120
Fenamiphos	100		P	80 - 120
Fipronil	98.3		P	80 - 120
Fipronil Sulfide	90.8		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fonofos	91.8		P	80 - 120
Hexazinone	94.6		P	80 - 120
Malathion	90.7		P	80 - 120
Metalaxyl	92.5		P	80 - 120
Metolachlor	92.2		P	80 - 120
Metribuzin	76.9*		F	80 - 120
Mevinphos	98.6		P	80 - 120
Molinate	93.0		P	80 - 120
Norflurazon	100		P	80 - 120
Parathion Ethyl	88.1		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	91.6		P	80 - 120
Phorate	82.2		P	80 - 120
Prometon	95.3		P	80 - 120
Prometryn	90.2		P	80 - 120
Simazine	89.6		P	80 - 120
Terbufos	94.2		P	80 - 120
Terbutylazine	95.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A83412

Included Lab Sample IDs: 1984472

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	98.1	97.2	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A83420

Included Lab Sample IDs: 1984421, 1984424, 1984425, 1984494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	99.1	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A83420

Included Lab Sample IDs: 1984421, 1984424, 1984425, 1984494

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A83470

Included Lab Sample IDs: 1984470

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	94.7		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	92.5		P	80 - 120
Beta-BHC	84.0		P	80 - 120
Carbophenothion	101		P	80 - 120
Chlorothalonil	98.7		P	80 - 120
Cypermethrin	91.2		P	80 - 120
DDD-p,p'	93.8		P	80 - 120
DDE-p,p'	95.8		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	101		P	80 - 120
Dicofol	110		P	80 - 120
Dieldrin	91.1		P	80 - 120
Endosulfan I	96.4		P	80 - 120
Endosulfan II	91.1		P	80 - 120
Endosulfan Sulfate	98.1		P	80 - 120
Endrin	94.5		P	80 - 120
Endrin Aldehyde	86.9		P	80 - 120
Endrin Ketone	93.2		P	80 - 120
Gamma-BHC	98.3		P	80 - 120
Gamma-Chlordane	91.6		P	80 - 120
Heptachlor	92.6		P	80 - 120
Heptachlor Epoxide	92.5		P	80 - 120
Methoxychlor	105		P	80 - 120
Mirex	98.1		P	80 - 120
Permethrin	94.7		P	80 - 120
Trifluralin	97.4		P	80 - 120

Reference Method: EPA 8276

Run ID: A83497

Included Lab Sample IDs: 1984470

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	90.7		P	80 - 120

Reference Method: EPA 8321B

Run ID: A83600

Included Lab Sample IDs: 1984466, 1984467, 1984468, 1984469

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	126	149	P/P	50 - 150
3-Hydroxycarbofuran	131	145	P/P	60 - 150
Acetaminophen	139	138	P/P	60 - 150
Aldicarb	124	148	P/P	60 - 150
Aldicarb Sulfone	127	123	P/P	50 - 150
Aldicarb Sulfoxide	126	140	P/P	50 - 150
Bentazon	134	158	P/P	50 - 160
Carbamazepine	144	141	P/P	60 - 150
Carbaryl	129	149	P/P	60 - 150
Carbofuran	135	135	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A83600

Included Lab Sample IDs: 1984466, 1984467, 1984468, 1984469

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	131	133	P/P	60 - 150
Fenuron	137	142	P/P	60 - 150
Fluridone	102	110	P/P	60 - 160
Hydrocodone	124	121	P/P	60 - 150
Imazapyr	111	115	P/P	50 - 150
Imidacloprid	132	137	P/P	60 - 150
Linuron	116	117	P/P	60 - 150
MCPPP	117	123	P/P	50 - 150
Methiocarb	125	115	P/P	50 - 150
Methomyl	127	131	P/P	50 - 150
Oxamyl	131	133	P/P	50 - 150
Primidone	122	128	P/P	60 - 150
Propoxur	139	142	P/P	50 - 150
Pyraclostrobin	91.0	83.0	P/P	60 - 150
Triclopyr	120	123	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A83607

Included Lab Sample IDs: 1984426, 1984427

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.8	P/P	90 - 110
Total-P	101	100	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						0.0	
EPA 200.7 Rev. 4.4	Calcium	104	102	105	101			2.41
	Iron	104	104	106	103			2.92
	Magnesium	111	108	112	109			2.59
	Potassium	102	100	109	104			3.60
	Sodium	110	104	106	103			1.88
	Zinc	101	101	103	102			1.81
EPA 200.8 Rev. 5.4	Arsenic	100	99.9	99.4	99.4			0.0116
	Cadmium	101	101	101	100			0.984
	Chromium	96.4	97.4	97.3	96.2			1.21
	Copper	95.7	93.6	95.0	94.7			0.375
	Lead	96.5	96.8	96.3	96.8			0.443
	Nickel	98.2	98.0	98.1	97.0			1.14
	Silver	98.8	98.3	98.5	98.0			0.541
EPA 300.0 Rev. 2.1	Chloride	94.8	94.7	95.3			0.0068	
	Sulfate	96.3	94.0	96.4			0.137	
EPA 350.1 Rev. 2.0	Ammonia-N	96.7	97.2	96.8				0.334

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 350.1 Rev. 2.0	Ammonia-N	96.9		97.8	99.0			1.10
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106		91.4	91.5			0.0708
	Kjeldahl Nitrogen	103		90.1	92.1			1.35
EPA 353.2 Rev. 2.0	NO2NO3-N	100		97.8	98.2			0.458
	NO2NO3-N	102		103	102			0.487
EPA 365.1 Rev. 2.0	Total-P	101		102	103			0.393
	Total-P	103		94.8	94.6			0.112
	Total-P	103		99.0	101			1.26
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101		99.9	99.7			0.200
EPA 8270D	Acetochlor	90.2	95.5	88.1	113	5.79		24.6
	Alachlor	91.1	103	114	91.3	11.8		21.7
	Aldrin	38.5	41.8	54.4		8.19		
	Alpha-BHC	91.8	91.1	92.9		0.800		
	Alpha-Chlordane	72.2	80.1	64.2		10.4		
	Ametryn	71.3	65.7	206	165	8.12		21.9
	Atrazine	90.2	98.9			9.17		14.6
	Atrazine Desethyl	92.5	83.0	83.4	76.7	10.7		8.29
	Azinphos Methyl	131	120	118	140	8.77		16.5
	Beta-BHC	107	102	89.8		4.64		
	Bromacil	94.0	91.3	79.2	88.0	2.88		10.5
	Butylate	52.8	68.1	50.3	54.4	25.3		7.87
	Carbophenothion	120	125	135		4.69		
	Chlorothalonil	86.4	96.5	86.2		11.1		
	Chlorpyrifos Ethyl	84.9	98.9	77.1	75.9	15.3		1.55
	Chlorpyrifos Methyl	93.8	99.6	93.2	95.1	6.04		1.99
	Cyanazine	201	192	177	183	4.59		3.42
	Cypermethrin	82.3	77.3	77.8		6.26		
	DDD-p,p'	93.2	100	76.8		7.32		
	DDE-p,p'	80.3	86.3	67.3		7.19		
	DDT-p,p'	92.5	97.1	88.8		4.82		
	Delta-BHC	119	112	111		6.38		
	Demeton	56.2	60.6	73.1	88.3	7.54		18.8
	Diazinon	103	101	121	104	2.32		15.1
	Dicofol	89.4	90.9	77.1		1.65		
	Dieldrin	77.9	84.9	65.9		8.67		
	Disulfoton	87.9	70.6	65.9	92.7	21.9		33.7
	Endosulfan I	80.9	87.0	72.6		7.29		
	Endosulfan II	90.6	95.1	83.5		4.94		
	Endosulfan Sulfate	105	98.4	76.8		6.79		
	Endrin	80.1	86.8	72.6		8.03		
	Endrin Aldehyde	77.3	85.0	60.2		9.53		
	Endrin Ketone	98.1	92.5	94.1		5.81		
	EPTC	58.4	46.2	45.6	43.2	23.3		5.45
	Ethion	92.7	103	93.7	92.5	10.1		1.25
	Ethoprop	92.3	71.8	92.3	88.9	25.0		3.80
	Fenamiphos	96.8	88.3	82.0	76.2	9.22		7.25
	Fipronil	84.9	90.1	74.6	78.1	5.90		4.58
	Fipronil Sulfide	70.3	73.1	50.4	57.0	3.90		12.2
	Fipronil Sulfone	67.2	78.8	67.0	50.1	15.9		28.8
	Fonofos	88.1	76.7	88.9	85.8	13.8		3.60
	Gamma-BHC	102	101	91.9		0.873		
	Gamma-Chlordane	70.1	76.8	62.0		9.05		
	Heptachlor	62.1	69.4	58.0		11.1		
	Heptachlor Epoxide	73.2	79.2	64.3		7.86		

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270D	Hexazinone	88.8	98.7	73.7	88.6	10.6		18.4
	Malathion	95.9	87.4	75.3	79.9	9.20		5.86
	Metalaxyl	82.0	86.9	65.1	94.5	5.70		36.8
	Methoxychlor	95.5	97.0	89.7		1.60		
	Metolachlor	98.9	94.5	72.7	95.3	4.62		25.5
	Metribuzin	120	97.6	173	199	20.4		14.2
	Mevinphos	73.7	65.7	81.9	66.8	11.5		20.2
	Mirex	78.6	80.9	74.5		2.84		
	Molinate	72.8	60.4	69.0	76.1	18.7		9.77
	Norflurazon	77.8	94.9	48.9	72.4	19.7		38.7
	Parathion Ethyl	85.8	85.0	75.5	88.1	0.892		15.4
	Parathion Methyl	99.4	116	97.7	120	15.6		20.6
	Pendimethalin	92.2	97.0	80.6	107	5.11		28.1
	Permethrin	87.5	86.8	77.0		0.882		
	Phorate	87.8	75.5	88.0	69.2	15.0		24.0
	Prometon	88.7	95.0	89.9	102	6.94		12.2
	Prometryn	69.2	91.7	74.8	95.6	28.0		24.4
	Simazine	93.2	88.5	86.3	112	5.20		26.3
	Terbufos	95.3	81.0	91.9	88.4	16.2		3.87
	Terbuthylazine	86.7	94.0	89.0	108	8.06		19.1
EPA 8276	Trifluralin	84.9	84.2	74.4		0.865		
	Chlordane	97.7	101	105		2.91		
	Toxaphene	71.3	74.4	72.0		4.23		
EPA 8321B	2,4-D	83.4		91.3	98.0			6.62
	3-Hydroxycarbofuran	113		150	107			33.3
	Acetaminophen	115		158	97.8			46.8
	Aldicarb	120		121	84.1			36.1
	Aldicarb Sulfone	114		179	125			35.7
	Aldicarb Sulfoxide	66.7		121	82.1			38.4
	AMPA	81.1		34.7	35.8			2.07
	Bentazon	105		108	113			4.20
	Carbamazepine	101		127	92.0			31.4
	Carbaryl	70.3		75.7	49.9			41.1
	Carbofuran	80.9		87.9	64.7			30.4
	Diuron	69.5		84.1	58.9			31.0
	Endothall	100		113	112			0.886
	Fenuron	126		138	90.5			41.6
	Fluridone	49.2		54.9	40.4			26.9
	Glufosinate	68.5		92.3	92.6			0.325
	Glyphosate	94.4		61.1	61.9			0.691
	Hydrocodone	106		122	98.6			21.6
	Imazapyr	82.5						
	Imidacloprid	108		276	179			39.9
	Linuron	66.9		82.9	64.6			24.7
	MCPP	68.9		83.6	85.8			2.61
	Methiocarb	67.7		82.1	57.4			35.5
	Methomyl	112		110	77.9			34.1
	Oxamyl	105		124	80.7			42.0
	Primidone	119		153	91.0			48.0
	Propoxur	86.6		80.0	61.1			26.7
	Pyraclostrobin	54.9		69.8	38.1			58.9
	Sucralose	113		60.7	59.3			0.882
	Triclopyr	76.9		81.7	90.6			10.3
SM 2120 B	Color (true)						0.816	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
SM 2120 B	Color (true)					3.69	
SM 2320 B-97	Total Alkalinity	101				0.123	
SM 2540 C-97	TDS					5.59	
	TDS					6.78	
SM 4500 F-C-97	Fluoride	96.3	95.2	95.7			0.514
SM 5310 B-00	Organic Carbon	95.8	95.2	95.6			0.253
	Organic Carbon	96.4	94.4	95.0			0.453

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1984421, 1984424, 1984425, 1984494
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1984472
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1984472
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1984421, 1984424, 1984425, 1984494
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1984421, 1984424, 1984425, 1984494
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1984422, 1984426, 1984427, 1984495
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1984422, 1984426, 1984427, 1984495
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1984422, 1984426, 1984427, 1984495
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1984422, 1984426, 1984427, 1984495
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1984423, 1984428, 1984429, 1984496
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1984470
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1984471
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1984470
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	1984465
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	1984466, 1984467, 1984468, 1984469
SM 2120 B / E31780	True Color measured at 450 nm	1984421, 1984424, 1984425, 1984494
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1984421, 1984424, 1984425, 1984494
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1984421, 1984424, 1984425, 1984494
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1984421, 1984424, 1984425, 1984494
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1984421, 1984424, 1984425, 1984494
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1984422, 1984426, 1984427, 1984495

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	04/13/2018			04/13/2018 15:33	Tanya Welborn	1984421, 1984424, 1984425, 1984494
EPA 200.7 Rev. 4.4	04/13/2018	04/16/2018 17:45	Elliott D. Healy	04/17/2018 16:48	Martin Acosta	1984472
	04/13/2018	04/16/2018 17:45	Elliott D. Healy	04/18/2018 14:38	Martin Acosta	1984472
EPA 200.8 Rev. 5.4	04/13/2018	04/16/2018 17:45	Elliott D. Healy	04/19/2018 15:30	Nadine Brooks	1984472
	04/13/2018	04/16/2018 17:45	Elliott D. Healy	04/23/2018 15:12	Nadine Brooks	1984472
EPA 300.0 Rev. 2.1	04/13/2018			04/17/2018 14:45	Lipi Saha	1984421
	04/13/2018			04/17/2018 14:57	Lipi Saha	1984424
	04/13/2018			04/17/2018 15:33	Lipi Saha	1984425
	04/13/2018			04/17/2018 15:45	Lipi Saha	1984494
EPA 350.1 Rev. 2.0	04/13/2018			04/17/2018 13:04	Ping Hua	1984422
	04/13/2018			04/17/2018 13:06	Ping Hua	1984426
	04/13/2018			04/17/2018 13:12	Ping Hua	1984495
	04/13/2018			04/18/2018 14:02	Ping Hua	1984427
EPA 351.2 Rev. 2.0	04/13/2018	04/16/2018 15:30	Adrian Shelby	04/18/2018 11:04	Joseph Suarez	1984422
	04/13/2018	04/16/2018 15:30	Adrian Shelby	04/18/2018 11:08	Joseph Suarez	1984426
	04/13/2018	04/18/2018 10:10	Adrian Shelby	04/19/2018 09:14	Joseph Suarez	1984427
	04/13/2018	04/18/2018 10:10	Adrian Shelby	04/19/2018 09:15	Joseph Suarez	1984495
EPA 353.2 Rev. 2.0	04/13/2018			04/18/2018 12:58	Lauren Bottorf	1984426
	04/13/2018			04/18/2018 12:59	Lauren Bottorf	1984427
	04/13/2018			04/18/2018 13:14	Lauren Bottorf	1984422
	04/13/2018			04/18/2018 13:20	Lauren Bottorf	1984495
EPA 365.1 Rev. 2.0	04/13/2018	04/17/2018 13:49	Sima Feizi	04/19/2018 14:52	Beverly Y. Sanders	1984422
	04/13/2018	04/17/2018 13:49	Sima Feizi	04/19/2018 14:55	Beverly Y. Sanders	1984495
	04/13/2018	04/26/2018 12:50	Sima Feizi	05/01/2018 12:48	Beverly Y. Sanders	1984426
	04/13/2018	04/26/2018 12:50	Sima Feizi	05/01/2018 13:02	Beverly Y. Sanders	1984427
EPA 365.1 Rev. 2.0 dissolved	04/13/2018			04/13/2018 14:13	Megan Treadwell	1984423
	04/13/2018			04/13/2018 14:36	Megan Treadwell	1984428, 1984429
	04/13/2018			04/13/2018 14:37	Megan Treadwell	1984496
EPA 8270D	04/13/2018	04/16/2018 10:00	John Kaba	04/23/2018 16:57	Vandana T. Nagar	1984471
	04/13/2018	04/18/2018 10:00	Fe-Val Siddell	04/25/2018 21:16	Dinesh Mishra	1984470
EPA 8276	04/13/2018	04/18/2018 10:00	Fe-Val Siddell	04/25/2018 14:21	Vandana T. Nagar	1984470
EPA 8321B	04/13/2018	04/13/2018 12:00	Hoor Shaik	04/14/2018 01:55	S. M. Reddy	1984466
	04/13/2018	04/13/2018 12:00	Hoor Shaik	04/14/2018 02:10	S. M. Reddy	1984467
	04/13/2018	04/13/2018 12:00	Hoor Shaik	04/14/2018 02:26	S. M. Reddy	1984468
	04/13/2018	04/13/2018 12:00	Hoor Shaik	04/14/2018 02:42	S. M. Reddy	1984469
	04/13/2018	04/19/2018 08:30	Hoor Shaik	04/21/2018 00:12	Julie Michelle Frank	1984465
	04/13/2018	04/19/2018 08:30	Hoor Shaik	04/21/2018 03:05	Julie Michelle Frank	1984466
	04/13/2018	04/19/2018 08:30	Hoor Shaik	04/21/2018 03:40	Julie Michelle Frank	1984467
	04/13/2018	04/19/2018 08:30	Hoor Shaik	04/21/2018 04:15	Julie Michelle Frank	1984468
	04/13/2018	04/19/2018 08:30	Hoor Shaik	04/21/2018 04:49	Julie Michelle Frank	1984469

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	04/13/2018	04/19/2018 08:30	Hoor Shaik	04/21/2018 18:06	Julie Michelle Frank	1984466
	04/13/2018	04/19/2018 08:30	Hoor Shaik	04/21/2018 18:40	Julie Michelle Frank	1984467
	04/13/2018	04/19/2018 08:30	Hoor Shaik	04/21/2018 19:15	Julie Michelle Frank	1984468
	04/13/2018	04/19/2018 08:30	Hoor Shaik	04/21/2018 19:49	Julie Michelle Frank	1984469
SM 2120 B	04/13/2018			04/13/2018 15:07	Tanya Welborn	1984421
	04/13/2018			04/13/2018 15:10	Tanya Welborn	1984424
	04/13/2018			04/13/2018 15:11	Tanya Welborn	1984425
	04/13/2018			04/13/2018 15:12	Tanya Welborn	1984494
SM 2320 B-97	04/13/2018			04/24/2018 08:13	Dale L. Simmons	1984421
	04/13/2018			04/24/2018 08:24	Dale L. Simmons	1984424
	04/13/2018			04/24/2018 08:35	Dale L. Simmons	1984425
	04/13/2018			04/24/2018 08:46	Dale L. Simmons	1984494
SM 2540 C-97	04/13/2018			04/18/2018 16:03	Yijie Li	1984421, 1984424, 1984425, 1984494
SM 2540 D-97	04/13/2018			04/18/2018 16:03	Yijie Li	1984421, 1984424, 1984425, 1984494
SM 4500 F-C-97	04/13/2018			04/24/2018 08:13	Dale L. Simmons	1984421
	04/13/2018			04/24/2018 08:24	Dale L. Simmons	1984424
	04/13/2018			04/24/2018 08:35	Dale L. Simmons	1984425
	04/13/2018			04/24/2018 08:46	Dale L. Simmons	1984494
SM 5310 B-00	04/13/2018			04/16/2018 21:56	Megan Treadwell	1984422
	04/13/2018			04/16/2018 22:39	Megan Treadwell	1984426
	04/13/2018			04/17/2018 00:07	Megan Treadwell	1984427
	04/13/2018			04/17/2018 00:22	Megan Treadwell	1984495