

Chemical Analysis Report

SO-DIST-2018-06-08-02

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

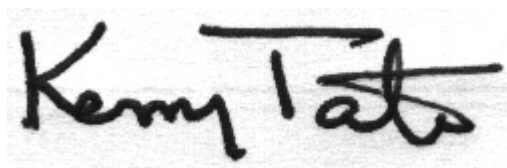
Event Description: **LaBelle->Lake O.**
Request ID: **RQ-2018-06-11-34**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 02-JUL-2018 10:19

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: OK Branch @ Eucalyptus

Collection Date/Time: 06/07/2018 09:00

Field ID: G3SD0099

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1999123	EPA 180.1 Rev. 2.0	Turbidity	8.0		NTU	P346622	
	EPA 300.0 Rev. 2.1	Chloride	57		mg Cl/L	P347244	
		Sulfate	28		mg SO4/L	P347246	
		Color (true)	70	A	PCU	P346605	
	SM 2320 B-97	Total Alkalinity	240		mg CaCO3/L	P347035	RPD
	SM 2540 C-97	TDS	395		mg/L	P346906	
	SM 2540 D-97	TSS	5	I	mg/L	P347122	
	SM 4500 F-C-97	Fluoride	0.20		mg F/L	P347039	
1999125	EPA 350.1 Rev. 2.0	Ammonia-N	0.13		mg N/L	P347108	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.87		mg N/L	P347283	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.028		mg N/L	P346919	
	EPA 365.1 Rev. 2.0	Total-P	0.072		mg P/L	P346976	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P347092	
1999127	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.030		mg P/L	P346608	
1999141	EPA 200.7 Rev. 4.4	Calcium	105		mg/L	P346690	
		Iron	950		ug/L	P346690	
		Magnesium	6.06		mg/L	P346690	
		Potassium	3.4		mg/L	P346690	
		Sodium	41.1		mg/L	P346690	
		Zinc	5.0	U	ug/L	P346690	
	EPA 200.8 Rev. 5.4	Arsenic	2.47		ug/L	P346690	
		Cadmium	0.020	U	ug/L	P346690	
		Chromium	0.51	I	ug/L	P346690	
		Copper	0.34	I	ug/L	P346690	
		Lead	0.078	I	ug/L	P346690	
		Nickel	0.66	I	ug/L	P346690	
		Silver	0.010	U	ug/L	P346690	

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: Nine Mile Canal @ SR 80

Collection Date/Time: 06/07/2018 10:00

Field ID: G3SD0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1999124	EPA 180.1 Rev. 2.0	Turbidity	9.1		NTU	P346622	
	EPA 300.0 Rev. 2.1	Chloride	46		mg Cl/L	P347244	
		Sulfate	37		mg SO4/L	P347246	
		Color (true)	80		PCU	P346607	
	SM 2320 B-97	Total Alkalinity	204		mg CaCO3/L	P347035	RPD
	SM 2540 C-97	TDS	388	A	mg/L	P346907	
	SM 2540 D-97	TSS	23	A	mg/L	P347123	
	SM 4500 F-C-97	Fluoride	0.31		mg F/L	P347039	
1999126	EPA 350.1 Rev. 2.0	Ammonia-N	0.31		mg N/L	P347162	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P347283	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.37		mg N/L	P346919	
	EPA 365.1 Rev. 2.0	Total-P	0.24		mg P/L	P346976	
	SM 5310 B-00	Organic Carbon	18		mg C/L	P347092	
1999128	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.13		mg P/L	P346608	
1999142	EPA 200.7 Rev. 4.4	Calcium	95.8		mg/L	P346690	
		Iron	440		ug/L	P346690	
		Magnesium	8.73		mg/L	P346690	
		Potassium	9.8		mg/L	P346690	
		Sodium	22.9		mg/L	P346690	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P346690	
		Arsenic	2.31		ug/L	P346690	
		Cadmium	0.020	U	ug/L	P346690	
		Chromium	0.72	I	ug/L	P346690	
		Copper	1.19		ug/L	P346690	
		Lead	0.28		ug/L	P346690	
		Nickel	0.71	I	ug/L	P346690	
		Silver	0.010	U	ug/L	P346690	

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: Nine Mile Canal @ SR 80

Collection Date/Time: 06/07/2018 10:00

Field ID: G3SD0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1999137	EPA 8321B	Aldicarb	0.020	U	ug/L	P346705	
		Aldicarb Sulfone	0.0020	U	ug/L	P346705	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P346705	MS
		Carbaryl	0.0020	U	ug/L	P346705	
		Carbofuran	0.0020	U	ug/L	P346705	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P346705	
		Methiocarb	0.0020	U	ug/L	P346705	
		Methomyl	0.0020	U	ug/L	P346705	
		Oxamyl	0.0020	U	ug/L	P346705	
		Propoxur	0.0020	U	ug/L	P346705	
1999138		2,4-D	0.53		ug/L	P346705	RPD
		Bentazon	0.038		ug/L	P346705	RPD
		MCP	0.0020	U	ug/L	P346705	RPD
		Triclopyr**	0.0040	U	ug/L	P346705	RPD
		Imidacloprid	0.070		ug/L	P346705	
		Diuron	0.016		ug/L	P346705	
		Pyraclostrobin**	0.0020	U	ug/L	P346705	MS, RPD
		Primidone**	0.0040	U	ug/L	P346705	
		Linuron	0.0040	U	ug/L	P346705	
		Acetaminophen**	0.0080	U	ug/L	P346705	
		Fenuron	0.016	U	ug/L	P346705	
		Imazapyr**	0.39		ug/L	P346705	
		Carbamazepine**	4.0E-04	U	ug/L	P346705	
		Fluridone**	0.0032		ug/L	P346705	
		Hydrocodone**	8.0E-04	U	ug/L	P346705	
		Sucralose**	0.010	U	ug/L	P346706	
		Glyphosate**	4.5		ug/L	P346706	
		AMPA**	1.7		ug/L	P346706	
		Endothal**	0.10	U	ug/L	P346706	
		Glufosinate**	0.10	U	ug/L	P346706	
1999139	EPA 8270D	Acesulfame K**	0.10	U	ug/L	P346706	RPD
		Aldrin	4.1	U	ng/L	P346580	
		Alpha-BHC	2.1	U	ng/L	P346580	
		Beta-BHC	4.1	U	ng/L	P346580	
		Delta-BHC	4.1	U	ng/L	P346580	
		Gamma-BHC	4.1	U	ng/L	P346580	
		Carbophenothion	4.1	U	ng/L	P346580	
		Chlorothalonil	2.1	U	ng/L	P346580	
		Cypermethrin	21	U	ng/L	P346580	
		DDD-p,p'	3.1	U	ng/L	P346580	
		DDE-p,p'	3.1	U	ng/L	P346580	
		DDT-p,p'	3.1	U	ng/L	P346580	
		Dieldrin	4.1	U	ng/L	P346580	
		Endosulfan I	4.1	U	ng/L	P346580	

Field ID: G3SD0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1999139	EPA 8270D	Endosulfan II	4.1	U	ng/L	P346580	
		Endosulfan Sulfate	2.1	U	ng/L	P346580	
		Endrin	2.1	U	ng/L	P346580	
		Endrin Aldehyde	2.1	U	ng/L	P346580	
		Heptachlor	1.6	U	ng/L	P346580	
		Heptachlor Epoxide	2.1	U	ng/L	P346580	
		Methoxychlor	4.1	U	ng/L	P346580	
		Mirex	2.1	U	ng/L	P346580	
		Permethrin	10	U	ng/L	P346580	
		Trifluralin	1.0	U	ng/L	P346580	
		Alpha-Chlordane	1.0	U	ng/L	P346580	
		Gamma-Chlordane	1.0	U	ng/L	P346580	
		Endrin Ketone	2.1	U	ng/L	P346580	
		Dicofol	31	U	ng/L	P346580	
		Chlordane	2.6	U	ng/L	P346580	
		Toxaphene	31	U	ng/L	P346580	
1999140	EPA 8270D	Alachlor	0.24	U	ng/L	P346766	
		Ametryn	53		ng/L	P346766	
		Atrazine	1.2E+03		ng/L	P346766	
		Atrazine Desethyl	69		ng/L	P346766	
		Azinphos Methyl	2.2	U	ng/L	P346766	
		Bromacil	160		ng/L	P346766	
		Butylate	0.38	U	ng/L	P346766	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P346766	
		Chlorpyrifos Methyl	0.096	U	ng/L	P346766	
		Demeton	1.9	U	ng/L	P346766	
		Diazinon	0.12	U	ng/L	P346766	
		Disulfoton	0.48	U	ng/L	P346766	
		EPTC	1.2	U	ng/L	P346766	
		Ethion	0.14	U	ng/L	P346766	
		Ethoprop	0.26	I	ng/L	P346766	
		Fenamiphos	0.24	U	ng/L	P346766	
		Fipronil	0.24	U	ng/L	P346766	
		Fipronil Sulfide	0.14	U	ng/L	P346766	
		Fipronil Sulfone	0.14	U	ng/L	P346766	
		Hexazinone	24		ng/L	P346766	
		Malathion	5.7		ng/L	P346766	
		Metribuzin	41	J	ng/L	P346766	CCV
		Mevinphos	0.48	U	ng/L	P346766	
		Molinate	0.29	U	ng/L	P346766	
		Norflurazon	150		ng/L	P346766	
		Pendimethalin	12		ng/L	P346766	
		Phorate	0.24	U	ng/L	P346766	
		Prometon	0.87	U	ng/L	P346766	
		Prometryn	0.96		ng/L	P346766	

Field ID: G3SD0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1999140	EPA 8270D	Simazine	4.2		ng/L	P346766	
		Terbufos	0.096	U	ng/L	P346766	
		Terbuthylazine	0.41	U	ng/L	P346766	
		Fonofos	0.19	U	ng/L	P346766	
		Metalaxyl	3.8		ng/L	P346766	
		Metolachlor	450		ng/L	P346766	
		Acetochlor	0.24	U	ng/L	P346766	
		Cyanazine	0.48	UJ	ng/L	P346766	CCV
		Parathion Ethyl	0.24	U	ng/L	P346766	
		Parathion Methyl	0.24	U	ng/L	P346766	

Ref. Method and Comment:
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
EPA 8276: Duplicate matrix spike was partially lost during extraction and is not reported.
EPA 8270D: Refer to the narrative for an explanation of QC Codes.

Sample Location: Lake Hicpochee in Canal

Collection Date/Time: 06/07/2018 10:50

Field ID: G3SD0102

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1999117	EPA 180.1 Rev. 2.0	Turbidity	14		NTU	P346621	
	EPA 300.0 Rev. 2.1	Chloride	42		mg Cl/L	P346891	
		Sulfate	29		mg SO4/L	P346894	
	SM 2120 B	Color (true)	120		PCU	P346607	
	SM 2320 B-97	Total Alkalinity	99.8	AJ	mg CaCO3/L	P347035	RPD
	SM 2540 C-97	TDS	258		mg/L	P346906	
	SM 2540 D-97	TSS	19		mg/L	P347122	
	SM 4500 F-C-97	Fluoride	0.17		mg F/L	P347039	
1999119	EPA 350.1 Rev. 2.0	Ammonia-N	0.035		mg N/L	P347108	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P347283	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P346918	
	EPA 365.1 Rev. 2.0	Total-P	0.25		mg P/L	P346976	
	SM 5310 B-00	Organic Carbon	19		mg C/L	P347092	
1999121	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.14		mg P/L	P346608	

Ref. Method and Comment:

SM 2320 B-97: Refer to the narrative for an explanation of QC Codes.

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

Sample Location: C-19 @ US 27

Collection Date/Time: 06/07/2018 11:35

Field ID: G3SD0087

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1999118	EPA 180.1 Rev. 2.0	Turbidity	6.1	A	NTU	P346622	
	EPA 300.0 Rev. 2.1	Chloride	46		mg Cl/L	P346891	
		Sulfate	22		mg SO4/L	P346894	
	SM 2120 B	Color (true)	95		PCU	P346607	
	SM 2320 B-97	Total Alkalinity	172		mg CaCO3/L	P347035	RPD
	SM 2540 C-97	TDS	335		mg/L	P346906	
	SM 2540 D-97	TSS	9	I	mg/L	P347122	
	SM 4500 F-C-97	Fluoride	0.28		mg F/L	P347039	
1999120	EPA 350.1 Rev. 2.0	Ammonia-N	0.14		mg N/L	P347108	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P347283	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.26		mg N/L	P346918	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P346976	
	SM 5310 B-00	Organic Carbon	20		mg C/L	P347092	
1999122	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.046		mg P/L	P346608	

Ref. Method and Comment:

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: P346621

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P346622

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P346690

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P346690

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P346891

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P346894

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347244

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347246

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P347108

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P347162

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P347283

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P346918

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P346919

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P346976

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P346608

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

Reference Method: EPA 8270D
Batch ID: P346580

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P346580

Component	Result	Code	Units
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: P346766

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P346766

Component	Result	Code	Units
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
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P346580

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

Reference Method: EPA 8321B
Batch ID: P346705

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	4.0E-04	U	ug/L
Hydrocodone	8.0E-04	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P346706

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

Reference Method: SM 2120 B
Batch ID: P346605

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P346607

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P347035

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

Reference Method: SM 2540 C-97
Batch ID: P346906

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P346907

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P347122

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P347123

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500 F-C-97
Batch ID: P347039

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P347092

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: P346690

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	106		P	85 - 115
Iron	104		P	85 - 115
Magnesium	108		P	85 - 115
Potassium	101		P	85 - 115
Sodium	100		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P346690

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	100		P	85 - 115
Cadmium	99.7		P	85 - 115
Chromium	94.0		P	85 - 115
Copper	95.3		P	85 - 115
Lead	95.0		P	85 - 115
Nickel	99.7		P	85 - 115
Silver	98.1		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P346891

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P346894

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347244

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347246

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P347108

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	108		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P347162

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: P347283

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P346918

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P346919

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P346976

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P346608

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.1		P	90 - 110

Reference Method: EPA 8270D
Batch ID: P346580

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	52.3	55.2	P/P	24 - 89.0
Alpha-BHC	85.8	94.8	P/P	58 - 117
Alpha-Chlordane	83.8	91.0	P/P	56 - 115
Beta-BHC	108	105	P/P	55 - 137
Carbophenothion	83.4	88.1	P/P	37 - 145
Chlorothalonil	71.1	91.0	P/P	26 - 163
Cypermethrin	83.9	88.2	P/P	42 - 156
DDD-p,p'	99.8	109	P/P	59 - 129
DDE-p,p'	86.1	98.2	P/P	52 - 117
DDT-p,p'	90.5	97.9	P/P	48 - 128
Delta-BHC	111	125	P/P	59 - 158
Dicofol	110	104	P/P	19 - 124
Dieldrin	84.2	103	P/P	57 - 126
Endosulfan I	96.5	97.9	P/P	59 - 133
Endosulfan II	105	112	P/P	58 - 148
Endosulfan Sulfate	95.3	104	P/P	56 - 135

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
 Batch ID: P346580

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	92.9	83.8	P/P	50 - 140
Endrin Aldehyde	95.7	108	P/P	47 - 141
Endrin Ketone	93.1	98.7	P/P	63 - 123
Gamma-BHC	99.4	101	P/P	59 - 132
Gamma-Chlordane	81.2	88.0	P/P	55 - 112
Heptachlor	68.7	69.0	P/P	45 - 102
Heptachlor Epoxide	85.4	92.1	P/P	61 - 116
Methoxychlor	106	106	P/P	60 - 133
Mirex	72.2	79.1	P/P	40 - 98.0
Permethrin	81.1	87.8	P/P	45 - 131
Trifluralin	83.4	86.3	P/P	38 - 179

Reference Method: EPA 8270D
 Batch ID: P346766

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	106	106	P/P	74 - 119
Alachlor	107	108	P/P	75 - 118
Ametryn	115	115	P/P	59 - 137
Atrazine	106	103	P/P	73 - 120
Atrazine Desethyl	94.4	71.0	P/P	19 - 129
Azinphos Methyl	119	107	P/P	65 - 181
Bromacil	96.9	92.3	P/P	43 - 123
Butylate	60.1	74.6	P/P	28 - 85.0
Chlorpyrifos Ethyl	96.6	101	P/P	55 - 112
Chlorpyrifos Methyl	103	99.5	P/P	35 - 124
Cyanazine	123	95.1	P/P	26 - 262
Demeton	82.9	85.1	P/P	43 - 122
Diazinon	116	109	P/P	72 - 120
Disulfoton	102	89.8	P/P	45 - 137
EPTC	60.6	79.8	P/P	28 - 95.0
Ethion	98.6	101	P/P	63 - 127
Ethoprop	88.3	90.6	P/P	63 - 109
Fenamiphos	110	105	P/P	66 - 136
Fipronil	107	105	P/P	63 - 126
Fipronil Sulfide	94.6	97.6	P/P	59 - 123
Fipronil Sulfone	90.9	94.6	P/P	56 - 122
Fonofos	99.7	90.7	P/P	64 - 114
Hexazinone	123	112	P/P	49 - 144
Malathion	98.6	108	P/P	68 - 131
Metalaxyl	108	105	P/P	57 - 126
Metolachlor	104	111	P/P	75 - 118
Metribuzin	121	102	P/P	46 - 169
Mevinphos	88.9	85.8	P/P	34 - 126
Molinate	71.6	85.3	P/P	37 - 101
Norflurazon	100	103	P/P	63 - 127
Parathion Ethyl	102	103	P/P	78 - 109
Parathion Methyl	107	104	P/P	74 - 123
Pendimethalin	117	124	P/P	51 - 130
Phorate	88.2	82.4	P/P	53 - 116
Prometon	101	104	P/P	66 - 124
Prometryn	105	105	P/P	66 - 124

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P346766

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Simazine	111	112	P/P	62 - 134
Terbufos	96.5	92.9	P/P	59 - 115
Terbutylazine	105	105	P/P	76 - 113

Reference Method: EPA 8276
Batch ID: P346580

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	87.6	100	P/P	47 - 125
Toxaphene	77.3	81.5	P/P	46 - 147

Reference Method: EPA 8321B
Batch ID: P346705

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	64.3		P	40 - 150
3-Hydroxycarbofuran	96.4		P	40 - 150
Acetaminophen	82.6		P	30 - 150
Aldicarb	79.7		P	30 - 150
Aldicarb Sulfone	97.4		P	40 - 150
Aldicarb Sulfoxide	99.7		P	40 - 150
Bentazon	76.8		P	30 - 150
Carbamazepine	92.1		P	40 - 150
Carbaryl	78.2		P	40 - 150
Carbofuran	88.3		P	40 - 150
Diuron	85.2		P	40 - 150
Fenuron	101		P	40 - 150
Fluridone	73.6		P	40 - 150
Hydrocodone	92.9		P	40 - 150
Imazapyr	90.5		P	40 - 150
Imidacloprid	110		P	40 - 160
Linuron	67.8		P	40 - 150
MCPP	82.1		P	40 - 150
Methiocarb	72.5		P	40 - 150
Methomyl	90.9		P	40 - 150
Oxamyl	96.5		P	40 - 150
Primidone	99.0		P	40 - 150
Propoxur	84.9		P	40 - 150
Pyraclostrobin	42.3		P	40 - 150
Triclopyr	87.7		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P346706

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.7		P	40 - 140
AMPA	107		P	40 - 140
Endothall	124		P	40 - 140
Glufosinate	121		P	40 - 140
Glyphosate	86.8		P	40 - 140
Sucralose	100		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P347035

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P347039

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.2		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P347092

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P346690

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1998652	Calcium	103		P	80 - 120
1998652	Iron	104		P	80 - 120
1998652	Magnesium	107		P	80 - 120
1998652	Potassium	100		P	80 - 120
1998652	Sodium	98.7		P	80 - 120
1998652	Zinc	103		P	80 - 120
1999156	Calcium	107	107	P/P	80 - 120
1999156	Iron	105	105	P/P	80 - 120
1999156	Magnesium	108	109	P/P	80 - 120
1999156	Potassium	106	106	P/P	80 - 120
1999156	Sodium	101	102	P/P	80 - 120
1999156	Zinc	105	105	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P346690

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1998652	Arsenic	99.1		P	80 - 120
1998652	Cadmium	98.8		P	80 - 120
1998652	Chromium	93.7		P	80 - 120
1998652	Copper	95.5		P	80 - 120
1998652	Lead	95.2		P	80 - 120
1998652	Nickel	97.9		P	80 - 120
1998652	Silver	98.4		P	80 - 120
1999156	Arsenic	102	100	P/P	80 - 120
1999156	Cadmium	103	102	P/P	80 - 120
1999156	Chromium	97.1	96.3	P/P	80 - 120
1999156	Copper	98.5	97.9	P/P	80 - 120
1999156	Lead	98.4	97.1	P/P	80 - 120
1999156	Nickel	100	99.1	P/P	80 - 120
1999156	Silver	102	100	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P346891

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1998789	Chloride	94.6		P	90 - 110
1999065	Chloride	98.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P346894

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1998789	Sulfate	94.4		P	90 - 110
1999065	Sulfate	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347244

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1998514	Chloride	97.3		P	90 - 110
1998726	Chloride	96.7		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347246

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1998514	Sulfate	98.7		P	90 - 110
1998726	Sulfate	97.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P347108

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1999091	Ammonia-N	99.3	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P347162

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1998383	Ammonia-N	98.1	98.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P347283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1999091	Kjeldahl Nitrogen	103	93.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P346918

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1999066	NO2NO3-N	98.5	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P346919

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1999125	NO2NO3-N	98.2	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P346976

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1999091	Total-P	99.1	98.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P346608

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1998964	O-Phosphate-P	95.9	96.2	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P346580

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1998576	Aldrin	64.2	62.8	P/P	26 - 96.0
1998576	Alpha-BHC	94.7	98.9	P/P	51 - 123
1998576	Alpha-Chlordane	96.1	92.4	P/P	45 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P346580

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1998576	Beta-BHC	102	101	P/P	43 - 146
1998576	Carbophenothion	94.6	89.2	P/P	26 - 179
1998576	Chlorothalonil	105	94.3	P/P	10 - 215
1998576	Cypermethrin	95.6	85.0	P/P	35 - 169
1998576	DDD-p,p'	108	106	P/P	49 - 131
1998576	DDE-p,p'	95.7	91.1	P/P	39 - 127
1998576	DDT-p,p'	97.7	96.0	P/P	49 - 120
1998576	Delta-BHC	131	147	P/P	49 - 187
1998576	Dicofol	103	111	P/P	10 - 129
1998576	Dieldrin	95.7	105	P/P	46 - 132
1998576	Endosulfan I	109	103	P/P	57 - 130
1998576	Endosulfan II	120	101	P/P	52 - 148
1998576	Endosulfan Sulfate	107	105	P/P	55 - 129
1998576	Endrin	111	114	P/P	45 - 133
1998576	Endrin Aldehyde	98.1	104	P/P	26 - 140
1998576	Endrin Ketone	114	112	P/P	60 - 125
1998576	Gamma-BHC	110	110	P/P	50 - 145
1998576	Gamma-Chlordane	91.9	89.1	P/P	44 - 118
1998576	Heptachlor	79.0	74.3	P/P	35 - 106
1998576	Heptachlor Epoxide	98.9	95.9	P/P	52 - 123
1998576	Methoxychlor	112	116	P/P	54 - 132
1998576	Mirex	78.2	77.0	P/P	36 - 107
1998576	Permethrin	85.4	87.9	P/P	47 - 135
1998576	Trifluralin	88.0	86.7	P/P	32 - 228

Reference Method: EPA 8270D
Batch ID: P346766

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1999414	Acetochlor	95.0	104	P/P	67 - 125
1999414	Alachlor	95.8	105	P/P	69 - 123
1999414	Ametryn	96.7	90.6	P/P	52 - 151
1999414	Atrazine	92.6	97.4	P/P	71 - 125
1999414	Atrazine Desethyl	55.7	58.4	P/P	10 - 129
1999414	Azinphos Methyl	99.2	95.5	P/P	48 - 200
1999414	Bromacil	87.5	90.9	P/P	46 - 130
1999414	Butylate	68.8	68.9	P/P	10 - 85.0
1999414	Chlorpyrifos Ethyl	94.7	92.8	P/P	54 - 115
1999414	Chlorpyrifos Methyl	92.4	89.6	P/P	44 - 117
1999414	Cyanazine	92.5	68.8	P/P	10 - 262
1999414	Demeton	78.7	76.0	P/P	24 - 145
1999414	Diazinon	95.5	101	P/P	66 - 129
1999414	Disulfoton	82.8	83.9	P/P	45 - 139
1999414	EPTC	67.9	67.4	P/P	10 - 86.0
1999414	Ethion	96.6	93.3	P/P	59 - 133
1999414	Ethoprop	82.5	65.6	P/P	54 - 116
1999414	Fenamiphos	97.8	98.5	P/P	55 - 140
1999414	Fipronil	90.0	105	P/P	37 - 142
1999414	Fipronil Sulfide	88.0	112	P/P	37 - 130
1999414	Fipronil Sulfone	69.7	92.8	P/P	18 - 143
1999414	Fonofos	84.4	85.5	P/P	55 - 118
1999414	Hexazinone	116	90.9	P/P	62 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P346766

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1999414	Malathion	101	98.7	P/P	64 - 132
1999414	Metalaxyl	98.4	103	P/P	55 - 129
1999414	Metolachlor	103	108	P/P	56 - 137
1999414	Metribuzin	89.9	89.5	P/P	16 - 218
1999414	Mevinphos	80.7	84.1	P/P	34 - 129
1999414	Molinate	75.6	72.1	P/P	16 - 99.0
1999414	Norflurazon	86.8	96.5	P/P	43 - 135
1999414	Parathion Ethyl	90.3	99.3	P/P	71 - 112
1999414	Parathion Methyl	93.3	100	P/P	65 - 127
1999414	Pendimethalin	112	104	P/P	35 - 159
1999414	Phorate	75.7	76.8	P/P	41 - 129
1999414	Prometon	97.0	99.8	P/P	56 - 140
1999414	Prometryn	95.4	98.6	P/P	65 - 130
1999414	Simazine	99.6	107	P/P	54 - 148
1999414	Terbufos	82.1	83.8	P/P	53 - 126
1999414	Terbutylazine	96.9	99.8	P/P	73 - 114

Reference Method: EPA 8276
Batch ID: P346580

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1999411	Chlordane	104		P	41 - 134
1999411	Toxaphene	85.2		P	39 - 158

Reference Method: EPA 8321B
Batch ID: P346705

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1999137	3-Hydroxycarbofuran	70.0	69.5	P/P	40 - 150
1999137	Aldicarb	62.3	54.6	P/P	30 - 150
1999137	Aldicarb Sulfone	81.3	78.2	P/P	40 - 150
1999137	Aldicarb Sulfoxide	33.3	31.5	F/F	40 - 150
1999137	Carbaryl	66.6	59.5	P/P	40 - 150
1999137	Carbofuran	63.5	57.3	P/P	40 - 150
1999137	Methiocarb	68.0	65.2	P/P	40 - 150
1999137	Methomyl	65.5	62.5	P/P	40 - 150
1999137	Oxamyl	77.2	70.9	P/P	40 - 150
1999137	Propoxur	65.6	53.7	P/P	40 - 150
2000080	2,4-D	51.7	76.8	P/P	40 - 150
2000080	Acetaminophen	80.8	76.7	P/P	30 - 150
2000080	Bentazon	57.1	40.4	P/P	30 - 150
2000080	Carbamazepine	71.8	64.3	P/P	40 - 150
2000080	Diuron	62.5	48.6	P/P	40 - 150
2000080	Fenuron	51.3	50.5	P/P	40 - 150
2000080	Fluridone	44.9	46.9	P/P	40 - 150
2000080	Hydrocodone	65.4	59.6	P/P	40 - 150
2000080	Imazapyr	89.1	66.6	P/P	40 - 150
2000080	Imidacloprid	118	112	P/P	40 - 160
2000080	Linuron	60.1	53.6	P/P	40 - 150
2000080	MCPP	77.2	108	P/P	40 - 150
2000080	Primidone	60.8	53.4	P/P	40 - 150
2000080	Pyraclostrobin	3.91	9.89	F/F	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P346705

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2000080	Triclopyr	58.9	103	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P346706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1999082	Acesulfame K	74.5	42.8	P/P	40 - 140
1999082	AMPA	116	125	P/P	40 - 140
1999082	Endothall	128	112	P/P	40 - 140
1999082	Glufosinate	95.5	110	P/P	40 - 140
1999082	Glyphosate	107	110	P/P	40 - 140
1999082	Sucralose	79.3	70.1	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P347039

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1999117	Fluoride	96.9	98.2	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P347092

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1999103	Organic Carbon	99.4	98.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P346621

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999101	Turbidity	8.08	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P346622

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999118	Turbidity	11.8	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P346690

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999156	Calcium	0.0492	Spike	P	0 - 20
1999156	Iron	0.344	Spike	P	0 - 20
1999156	Magnesium	0.676	Spike	P	0 - 20
1999156	Potassium	0.169	Spike	P	0 - 20
1999156	Sodium	0.390	Spike	P	0 - 20
1999156	Zinc	0.393	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P346690

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999156	Arsenic	1.38	Spike	P	0 - 20
1999156	Cadmium	0.886	Spike	P	0 - 20
1999156	Chromium	0.884	Spike	P	0 - 20
1999156	Copper	0.648	Spike	P	0 - 20
1999156	Lead	1.35	Spike	P	0 - 20
1999156	Nickel	1.37	Spike	P	0 - 20
1999156	Silver	1.34	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P346891

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1998789	Chloride	1.30	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P346894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1998789	Sulfate	0.0844	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347244

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1998726	Chloride	3.95	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P347246

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1998726	Sulfate	5.07	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P347108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999091	Ammonia-N	3.89	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P347162

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1998383	Ammonia-N	0.600	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P347283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999091	Kjeldahl Nitrogen	5.71	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P346918

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999066	NO2NO3-N	2.01	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P346919

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999125	NO2NO3-N	2.21	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P346976

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999091	Total-P	0.999	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P346608

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1998964	O-Phosphate-P	0.312	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P346580

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1998576	Aldrin	2.15	Spike	P	0 - 30
1998576	Alpha-BHC	4.43	Spike	P	0 - 30
1998576	Alpha-Chlordane	3.92	Spike	P	0 - 30
1998576	Beta-BHC	0.446	Spike	P	0 - 30
1998576	Carbophenothion	5.83	Spike	P	0 - 30
1998576	Chlorothalonil	10.6	Spike	P	0 - 30
1998576	Cypermethrin	11.7	Spike	P	0 - 30
1998576	DDD-p,p'	2.15	Spike	P	0 - 30
1998576	DDE-p,p'	4.92	Spike	P	0 - 30
1998576	DDT-p,p'	1.76	Spike	P	0 - 30
1998576	Delta-BHC	12.1	Spike	P	0 - 30
1998576	Dicofol	7.96	Spike	P	0 - 30
1998576	Dieldrin	9.00	Spike	P	0 - 30
1998576	Endosulfan I	5.29	Spike	P	0 - 30
1998576	Endosulfan II	17.2	Spike	P	0 - 30
1998576	Endosulfan Sulfate	2.04	Spike	P	0 - 30
1998576	Endrin	2.90	Spike	P	0 - 30
1998576	Endrin Aldehyde	5.53	Spike	P	0 - 30
1998576	Endrin Ketone	1.63	Spike	P	0 - 30
1998576	Gamma-BHC	0.102	Spike	P	0 - 30
1998576	Gamma-Chlordane	3.07	Spike	P	0 - 30
1998576	Heptachlor	6.11	Spike	P	0 - 30
1998576	Heptachlor Epoxide	3.06	Spike	P	0 - 30
1998576	Methoxychlor	3.53	Spike	P	0 - 30
1998576	Mirex	1.54	Spike	P	0 - 30
1998576	Permethrin	2.84	Spike	P	0 - 30
1998576	Trifluralin	1.42	Spike	P	0 - 30
LFB	Aldrin	5.40	LCS	P	0 - 30
LFB	Alpha-BHC	9.99	LCS	P	0 - 30
LFB	Alpha-Chlordane	8.26	LCS	P	0 - 30
LFB	Beta-BHC	2.37	LCS	P	0 - 30
LFB	Carbophenothion	5.53	LCS	P	0 - 30
LFB	Chlorothalonil	24.5	LCS	P	0 - 30
LFB	Cypermethrin	4.98	LCS	P	0 - 30
LFB	DDD-p,p'	9.16	LCS	P	0 - 30
LFB	DDE-p,p'	13.1	LCS	P	0 - 30
LFB	DDT-p,p'	7.92	LCS	P	0 - 30
LFB	Delta-BHC	11.8	LCS	P	0 - 30
LFB	Dicofol	5.26	LCS	P	0 - 30
LFB	Dieldrin	20.4	LCS	P	0 - 30
LFB	Endosulfan I	1.37	LCS	P	0 - 30
LFB	Endosulfan II	6.47	LCS	P	0 - 30
LFB	Endosulfan Sulfate	8.63	LCS	P	0 - 30
LFB	Endrin	10.3	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P346580

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Endrin Aldehyde	11.8	LCS	P	0 - 30
LFB	Endrin Ketone	5.88	LCS	P	0 - 30
LFB	Gamma-BHC	1.28	LCS	P	0 - 30
LFB	Gamma-Chlordane	7.95	LCS	P	0 - 30
LFB	Heptachlor	0.490	LCS	P	0 - 30
LFB	Heptachlor Epoxide	7.53	LCS	P	0 - 30
LFB	Methoxychlor	0.731	LCS	P	0 - 30
LFB	Mirex	9.15	LCS	P	0 - 30
LFB	Permethrin	7.93	LCS	P	0 - 30
LFB	Trifluralin	3.43	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P346766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999414	Acetochlor	9.14	Spike	P	0 - 30
1999414	Alachlor	7.65	Spike	P	0 - 30
1999414	Ametryn	6.51	Spike	P	0 - 30
1999414	Atrazine	4.27	Spike	P	0 - 30
1999414	Atrazine Desethyl	4.63	Spike	P	0 - 30
1999414	Azinphos Methyl	3.88	Spike	P	0 - 30
1999414	Bromacil	3.84	Spike	P	0 - 30
1999414	Butylate	0.184	Spike	P	0 - 30
1999414	Chlorpyrifos Ethyl	1.96	Spike	P	0 - 30
1999414	Chlorpyrifos Methyl	3.00	Spike	P	0 - 30
1999414	Cyanazine	29.4	Spike	P	0 - 30
1999414	Demeton	3.52	Spike	P	0 - 30
1999414	Diazinon	6.03	Spike	P	0 - 30
1999414	Disulfoton	1.35	Spike	P	0 - 30
1999414	EPTC	0.760	Spike	P	0 - 30
1999414	Ethion	3.42	Spike	P	0 - 30
1999414	Ethoprop	22.8	Spike	P	0 - 30
1999414	Fenamiphos	0.793	Spike	P	0 - 30
1999414	Fipronil	15.1	Spike	P	0 - 30
1999414	Fipronil Sulfide	24.1	Spike	P	0 - 30
1999414	Fipronil Sulfone	28.5	Spike	P	0 - 30
1999414	Fonofos	1.27	Spike	P	0 - 30
1999414	Hexazinone	10.5	Spike	P	0 - 30
1999414	Malathion	1.98	Spike	P	0 - 30
1999414	Metalaxyl	4.82	Spike	P	0 - 30
1999414	Metolachlor	2.56	Spike	P	0 - 30
1999414	Metribuzin	0.373	Spike	P	0 - 30
1999414	Mevinphos	4.02	Spike	P	0 - 30
1999414	Molinate	4.73	Spike	P	0 - 30
1999414	Norflurazon	9.79	Spike	P	0 - 30
1999414	Parathion Ethyl	9.49	Spike	P	0 - 30
1999414	Parathion Methyl	7.05	Spike	P	0 - 30
1999414	Pendimethalin	7.51	Spike	P	0 - 30
1999414	Phorate	1.47	Spike	P	0 - 30
1999414	Prometon	2.90	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P346766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999414	Prometryn	3.32	Spike	P	0 - 30
1999414	Simazine	6.77	Spike	P	0 - 30
1999414	Terbufos	2.04	Spike	P	0 - 30
1999414	Terbutylazine	2.92	Spike	P	0 - 30
LFB	Acetochlor	0.737	LCS	P	0 - 30
LFB	Alachlor	1.47	LCS	P	0 - 30
LFB	Ametryn	0.184	LCS	P	0 - 30
LFB	Atrazine	3.05	LCS	P	0 - 30
LFB	Atrazine Desethyl	28.2	LCS	P	0 - 30
LFB	Azinphos Methyl	10.5	LCS	P	0 - 30
LFB	Bromacil	4.86	LCS	P	0 - 30
LFB	Butylate	21.5	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	4.45	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	3.13	LCS	P	0 - 30
LFB	Cyanazine	25.5	LCS	P	0 - 30
LFB	Demeton	2.71	LCS	P	0 - 30
LFB	Diazinon	5.79	LCS	P	0 - 30
LFB	Disulfoton	12.5	LCS	P	0 - 30
LFB	EPTC	27.3	LCS	P	0 - 30
LFB	Ethion	2.70	LCS	P	0 - 30
LFB	Ethoprop	2.62	LCS	P	0 - 30
LFB	Fenamiphos	4.91	LCS	P	0 - 30
LFB	Fipronil	1.27	LCS	P	0 - 30
LFB	Fipronil Sulfide	3.08	LCS	P	0 - 30
LFB	Fipronil Sulfone	3.93	LCS	P	0 - 30
LFB	Fonofos	9.42	LCS	P	0 - 30
LFB	Hexazinone	9.59	LCS	P	0 - 30
LFB	Malathion	9.41	LCS	P	0 - 30
LFB	Metalaxyl	2.99	LCS	P	0 - 30
LFB	Metolachlor	6.11	LCS	P	0 - 30
LFB	Metribuzin	17.1	LCS	P	0 - 30
LFB	Mevinphos	3.51	LCS	P	0 - 30
LFB	Molinate	17.5	LCS	P	0 - 30
LFB	Norflurazon	2.20	LCS	P	0 - 30
LFB	Parathion Ethyl	1.20	LCS	P	0 - 30
LFB	Parathion Methyl	3.07	LCS	P	0 - 30
LFB	Pendimethalin	5.56	LCS	P	0 - 30
LFB	Phorate	6.82	LCS	P	0 - 30
LFB	Prometon	2.84	LCS	P	0 - 30
LFB	Prometryn	0.365	LCS	P	0 - 30
LFB	Simazine	0.678	LCS	P	0 - 30
LFB	Terbufos	3.78	LCS	P	0 - 30
LFB	Terbutylazine	0.0481	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P346580

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlordane	13.5	LCS	P	0 - 30
LFB	Toxaphene	5.31	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P346705

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999137	3-Hydroxycarbofuran	0.680	Spike	P	0 - 30
1999137	Aldicarb	13.2	Spike	P	0 - 30
1999137	Aldicarb Sulfone	3.81	Spike	P	0 - 30
1999137	Aldicarb Sulfoxide	5.58	Spike	P	0 - 30
1999137	Carbaryl	11.2	Spike	P	0 - 30
1999137	Carbofuran	10.2	Spike	P	0 - 30
1999137	Methiocarb	4.14	Spike	P	0 - 30
1999137	Methomyl	4.65	Spike	P	0 - 30
1999137	Oxamyl	8.54	Spike	P	0 - 30
1999137	Propoxur	20.0	Spike	P	0 - 30
2000080	2,4-D	39.0	Spike	F	0 - 30
2000080	Acetaminophen	5.14	Spike	P	0 - 30
2000080	Bentazon	34.3	Spike	F	0 - 30
2000080	Carbamazepine	11.1	Spike	P	0 - 30
2000080	Diuron	24.9	Spike	P	0 - 30
2000080	Fenuron	1.63	Spike	P	0 - 30
2000080	Fluridone	4.36	Spike	P	0 - 30
2000080	Hydrocodone	9.24	Spike	P	0 - 30
2000080	Imazapyr	10.3	Spike	P	0 - 30
2000080	Imidacloprid	4.81	Spike	P	0 - 30
2000080	Linuron	11.5	Spike	P	0 - 30
2000080	MCP	33.1	Spike	F	0 - 30
2000080	Primidone	13.0	Spike	P	0 - 30
2000080	Pyraclostrobin	86.8	Spike	F	0 - 30
2000080	Triclopyr	54.0	Spike	F	0 - 30

Reference Method: EPA 8321B
Batch ID: P346706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999082	Acesulfame K	54.2	Spike	F	0 - 30
1999082	AMPA	7.77	Spike	P	0 - 30
1999082	Endothall	13.0	Spike	P	0 - 30
1999082	Glufosinate	12.5	Spike	P	0 - 30
1999082	Glyphosate	3.24	Spike	P	0 - 30
1999082	Sucralose	12.3	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P346605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999123	Color (true)	3.06	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P346607

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999101	Color (true)	2.28	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
 Batch ID: P347035

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999117	Total Alkalinity	7.60	Sample	F	0 - 1.6

Reference Method: SM 2540 C-97
 Batch ID: P346906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999084	TDS	0.445	Sample	P	0 - 10

Reference Method: SM 2540 C-97
 Batch ID: P346907

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999124	TDS	1.55	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P347039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999117	Fluoride	0.972	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
 Batch ID: P347092

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1999103	Organic Carbon	0.650	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: 1999137
Field Sample ID: G3SD0088

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	71.7	P	30 - 160

Lab Sample ID: 1999138
Field Sample ID: G3SD0088

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	77.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	87.9	P	30 - 160
EPA 8321B	Diuron-d6	87.4	P	30 - 160
EPA 8321B	Diuron-d6	79.0	P	30 - 160
EPA 8321B	Endothall-d6	83.4	P	50 - 160
EPA 8321B	Glyphosate 13C 15N	56.7	P	40 - 160
EPA 8321B	Primidone-d5	85.0	P	30 - 160
EPA 8321B	Sucralose-d6	89.4	P	40 - 160

Lab Sample ID: 1999139
Field Sample ID: G3SD0088

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	81.1	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	63.2	P	34 - 101
EPA 8276	Decachlorobiphenyl	77.6	P	31 - 108
EPA 8276	PCNB	92.8	P	62 - 142

Lab Sample ID: 1999140
Field Sample ID: G3SD0088

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	104	P	71 - 126
EPA 8270D	Terbufos-d10	104	P	59 - 149

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A84464

Included Lab Sample IDs: 1999117, 1999118, 1999123, 1999124

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.3	100	P/P	90 - 115
Color (true)	99.2	101	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A84465

Included Lab Sample IDs: 1999121, 1999122, 1999127, 1999128

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	94.4	98.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A84466

Included Lab Sample IDs: 1999117, 1999118, 1999123, 1999124

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A84498

Included Lab Sample IDs: 1999117, 1999118

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.2	101	P/P	90 - 110
Sulfate	95.7	102	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A84532

Included Lab Sample IDs: 1999141, 1999142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	100	99.5	P/P	90 - 110
Cadmium	101	101	P/P	90 - 110
Chromium	96.9	97.7	P/P	90 - 110
Copper	98.3	98.2	P/P	90 - 110
Lead	97.4	97.5	P/P	90 - 110
Nickel	98.6	98.4	P/P	90 - 110
Silver	100	99.9	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A84559

Included Lab Sample IDs: 1999141, 1999142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	100	P/P	90 - 110
Iron	99.6	100	P/P	90 - 110
Magnesium	101	102	P/P	90 - 110
Potassium	97.7	99.2	P/P	90 - 110
Sodium	95.8	97.3	P/P	90 - 110
Zinc	102	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A84571

Included Lab Sample IDs: 1999138

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	112	127	P/P	60 - 160
Glufosinate	118	132	P/P	60 - 160
Glyphosate	67.6	95.6	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A84573

Included Lab Sample IDs: 1999138

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	60.1	62.1	P/P	60 - 160
Endothall	130	128	P/P	60 - 160
Sucralose	109	122	P/P	60 - 160

Reference Method: EPA 8270D

Run ID: A84584

Included Lab Sample IDs: 1999139

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	99.0		P	80 - 120
Beta-BHC	92.0		P	80 - 120
Carbophenothion	89.4		P	80 - 120
Chlorothalonil	94.4		P	80 - 120
Cypermethrin	94.9		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	99.4		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	102		P	80 - 120
Dicofol	93.2		P	80 - 120
Dieldrin	106		P	80 - 120
Endosulfan I	97.9		P	80 - 120
Endosulfan II	95.1		P	80 - 120
Endosulfan Sulfate	96.2		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	96.7		P	80 - 120
Endrin Ketone	95.8		P	80 - 120
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	96.9		P	80 - 120
Heptachlor	100		P	80 - 120
Heptachlor Epoxide	100		P	80 - 120
Methoxychlor	105		P	80 - 120
Mirex	94.9		P	80 - 120
Permethrin	93.0		P	80 - 120
Trifluralin	98.4		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A84590

Included Lab Sample IDs: 1999119, 1999120, 1999125, 1999126

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A84590

Included Lab Sample IDs: 1999119, 1999120, 1999125, 1999126

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: SM 2320 B-97

Run ID: A84646

Included Lab Sample IDs: 1999117, 1999118, 1999123, 1999124

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	102	P/P	90 - 110
Total Alkalinity	102	100	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A84646

Included Lab Sample IDs: 1999117, 1999118, 1999123, 1999124

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

Reference Method: EPA 8276

Run ID: A84649

Included Lab Sample IDs: 1999139

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	92.1		P	80 - 120
Toxaphene	81.2		P	80 - 120

Reference Method: SM 5310 B-00

Run ID: A84672

Included Lab Sample IDs: 1999119, 1999120, 1999125, 1999126

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

Reference Method: EPA 8270D

Run ID: A84673

Included Lab Sample IDs: 1999140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	104		P	80 - 120
Atrazine Desethyl	86.2		P	80 - 120
Azinphos Methyl	94.1		P	80 - 120
Butylate	97.9		P	80 - 120
Chlorpyrifos Ethyl	95.4		P	80 - 120
Chlorpyrifos Methyl	95.0		P	80 - 120
Cyanazine	65.2*		F	80 - 120
Demeton	98.7		P	80 - 120
Diazinon	99.6		P	80 - 120
Disulfoton	95.9		P	80 - 120
EPTC	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A84673
Included Lab Sample IDs: 1999140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethion	94.2		P	80 - 120
Ethoprop	89.9		P	80 - 120
Fenamiphos	93.0		P	80 - 120
Fipronil	99.0		P	80 - 120
Fipronil Sulfide	95.4		P	80 - 120
Fipronil Sulfone	95.0		P	80 - 120
Fonofos	99.2		P	80 - 120
Hexazinone	92.8		P	80 - 120
Malathion	97.6		P	80 - 120
Metaxyl	101		P	80 - 120
Metribuzin	75.1*		F	80 - 120
Mevinphos	97.0		P	80 - 120
Molinate	106		P	80 - 120
Parathion Ethyl	94.8		P	80 - 120
Parathion Methyl	95.9		P	80 - 120
Pendimethalin	95.5		P	80 - 120
Phorate	95.3		P	80 - 120
Prometon	98.6		P	80 - 120
Prometryn	102		P	80 - 120
Simazine	96.0		P	80 - 120
Terbufos	94.1		P	80 - 120
Terbutylazine	99.0		P	80 - 120

Reference Method: EPA 8270D
Run ID: A84674
Included Lab Sample IDs: 1999140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ametryn	101		P	80 - 120
Atrazine	95.5		P	80 - 120
Bromacil	98.6		P	80 - 120
Metolachlor	96.9		P	80 - 120
Norflurazon	88.9		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A84675
Included Lab Sample IDs: 1999119, 1999120, 1999125

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A84677
Included Lab Sample IDs: 1999119, 1999120, 1999125, 1999126

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A84693

Included Lab Sample IDs: 1999126

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.3	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A84728

Included Lab Sample IDs: 1999138

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	102	97.9	P/P	50 - 150
Bentazon	119	123	P/P	50 - 150
MCPP	89.4	97.2	P/P	50 - 150
Pyraclostrobin	144	146	P/P	60 - 150
Triclopyr	89.3	98.8	P/P	50 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A84742

Included Lab Sample IDs: 1999123, 1999124

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	100	P/P	90 - 110
Sulfate	102	99.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A84751

Included Lab Sample IDs: 1999137

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	104	113	P/P	50 - 150
Acetaminophen	109	107	P/P	60 - 160
Aldicarb	88.9	108	P/P	60 - 150
Aldicarb Sulfone	102	97.8	P/P	50 - 150
Aldicarb Sulfoxide	100	99.7	P/P	50 - 150
Carbamazepine	132	119	P/P	60 - 160
Carbaryl	106	94.2	P/P	60 - 150
Carbofuran	108	130	P/P	50 - 150
Diuron	98.7	123	P/P	60 - 150
Fenuron	103	106	P/P	60 - 150
Fluridone	113	109	P/P	60 - 160
Hydrocodone	108	103	P/P	60 - 150
Imazapyr	105	103	P/P	50 - 150
Imidacloprid	109	113	P/P	60 - 150
Linuron	112	115	P/P	60 - 150
Methiocarb	105	102	P/P	50 - 150
Methomyl	110	102	P/P	50 - 150
Oxamyl	102	107	P/P	50 - 150
Primidone	100	105	P/P	60 - 150
Propoxur	110	137	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A84814

Included Lab Sample IDs: 1999119, 1999120, 1999125, 1999126

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.8	91.8	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	MS
								SMP	
EPA 180.1 Rev. 2.0	Turbidity							8.08	
	Turbidity							11.8	
EPA 200.7 Rev. 4.4	Calcium	106		103	107	107			0.0492
	Iron	104		104	105	105			0.344
	Magnesium	108		107	108	109			0.676
	Potassium	101		100	106	106			0.169
	Sodium	100		98.7	101	102			0.390
	Zinc	103		103	105	105			0.393
EPA 200.8 Rev. 5.4	Arsenic	100		99.1	102	100			1.38
	Cadmium	99.7		98.8	103	102			0.886
	Chromium	94.0		93.7	97.1	96.3			0.884
	Copper	95.3		95.5	98.5	97.9			0.648
	Lead	95.0		95.2	98.4	97.1			1.35
	Nickel	99.7		97.9	100	99.1			1.37
	Silver	98.1		98.4	102	100			1.34
EPA 300.0 Rev. 2.1	Chloride	99.4		94.6	98.5			1.30	
	Chloride	97.8		96.7	97.3			3.95	
	Sulfate	97.7		94.4	99.3			0.0844	
	Sulfate	99.2		97.5	98.7			5.07	
EPA 350.1 Rev. 2.0	Ammonia-N	108		99.3	104				3.89
	Ammonia-N	102		98.1	98.7				0.600
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		103	93.2				5.71
EPA 353.2 Rev. 2.0	NO2NO3-N	100		98.5	100				2.01
	NO2NO3-N	100		98.2	101				2.21
EPA 365.1 Rev. 2.0	Total-P	100		99.1	98.1				0.999
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1		95.9	96.2				0.312
EPA 8270D	Acetochlor	106	106	95.0	104		0.737		9.14
	Alachlor	107	108	95.8	105		1.47		7.65
	Aldrin	52.3	55.2	64.2	62.8		5.40		2.15
	Alpha-BHC	85.8	94.8	94.7	98.9		9.99		4.43
	Alpha-Chlordane	83.8	91.0	96.1	92.4		8.26		3.92
	Ametryn	115	115	96.7	90.6		0.184		6.51
	Atrazine	103	106	92.6	97.4		3.05		4.27
	Atrazine Desethyl	71.0	94.4	55.7	58.4		28.2		4.63
	Azinphos Methyl	107	119	99.2	95.5		10.5		3.88
	Beta-BHC	108	105	102	101		2.37		0.446
	Bromacil	92.3	96.9	87.5	90.9		4.86		3.84
	Butylate	74.6	60.1	68.8	68.9		21.5		0.184
	Carbophenothion	83.4	88.1	94.6	89.2		5.53		5.83
	Chlorothalonil	71.1	91.0	105	94.3		24.5		10.6
	Chlorpyrifos Ethyl	101	96.6	94.7	92.8		4.45		1.96
	Chlorpyrifos Methyl	99.5	103	92.4	89.6		3.13		3.00
	Cyanazine	95.1	123	92.5	68.8		25.5		29.4
	Cypermethrin	83.9	88.2	95.6	85.0		4.98		11.7
	DDD-p,p'	99.8	109	108	106		9.16		2.15
	DDE-p,p'	86.1	98.2	95.7	91.1		13.1		4.92
	DDT-p,p'	90.5	97.9	97.7	96.0		7.92		1.76
	Delta-BHC	111	125	131	147		11.8		12.1
	Demeton	82.9	85.1	78.7	76.0		2.71		3.52
	Diazinon	116	109	95.5	101		5.79		6.03
	Dicofol	110	104	103	111		5.26		7.96
	Dieldrin	84.2	103	95.7	105		20.4		9.00
	Disulfoton	102	89.8	82.8	83.9		12.5		1.35
	Endosulfan I	96.5	97.9	109	103		1.37		5.29

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Endosulfan II	105	112	120	101	6.47	17.2
	Endosulfan Sulfate	95.3	104	107	105	8.63	2.04
	Endrin	92.9	83.8	111	114	10.3	2.90
	Endrin Aldehyde	95.7	108	98.1	104	11.8	5.53
	Endrin Ketone	93.1	98.7	114	112	5.88	1.63
	EPTC	60.6	79.8	67.9	67.4	27.3	0.760
	Ethion	98.6	101	96.6	93.3	2.70	3.42
	Ethoprop	88.3	90.6	82.5	65.6	2.62	22.8
	Fenamiphos	110	105	97.8	98.5	4.91	0.793
	Fipronil	107	105	90.0	105	1.27	15.1
	Fipronil Sulfide	94.6	97.6	88.0	112	3.08	24.1
	Fipronil Sulfone	90.9	94.6	69.7	92.8	3.93	28.5
	Fonofos	90.7	99.7	84.4	85.5	9.42	1.27
	Gamma-BHC	99.4	101	110	110	1.28	0.102
	Gamma-Chlordane	81.2	88.0	91.9	89.1	7.95	3.07
	Heptachlor	68.7	69.0	79.0	74.3	0.490	6.11
	Heptachlor Epoxide	85.4	92.1	98.9	95.9	7.53	3.06
	Hexazinone	123	112	116	90.9	9.59	10.5
	Malathion	108	98.6	101	98.7	9.41	1.98
	Metalaxyl	105	108	98.4	103	2.99	4.82
	Methoxychlor	106	106	112	116	0.731	3.53
	Metolachlor	111	104	103	108	6.11	2.56
	Metribuzin	102	121	89.9	89.5	17.1	0.373
	Mevinphos	85.8	88.9	80.7	84.1	3.51	4.02
	Mirex	72.2	79.1	78.2	77.0	9.15	1.54
	Molinate	85.3	71.6	75.6	72.1	17.5	4.73
	Norflurazon	103	100	86.8	96.5	2.20	9.79
	Parathion Ethyl	103	102	90.3	99.3	1.20	9.49
	Parathion Methyl	104	107	93.3	100	3.07	7.05
	Pendimethalin	124	117	112	104	5.56	7.51
	Permethrin	81.1	87.8	85.4	87.9	7.93	2.84
	Phorate	82.4	88.2	75.7	76.8	6.82	1.47
	Prometon	104	101	97.0	99.8	2.84	2.90
	Prometryn	105	105	95.4	98.6	0.365	3.32
	Simazine	112	111	99.6	107	0.678	6.77
	Terbufos	92.9	96.5	82.1	83.8	3.78	2.04
	Terbutylazine	105	105	96.9	99.8	0.0481	2.92
	Trifluralin	83.4	86.3	88.0	86.7	3.43	1.42
EPA 8276	Chlordane	87.6	100	104		13.5	
	Toxaphene	77.3	81.5	85.2		5.31	
EPA 8321B	2,4-D	64.3		51.7	76.8		39.0
	3-Hydroxycarbofuran	96.4		70.0	69.5		0.680
	Acesulfame K	98.7		74.5	42.8		54.2
	Acetaminophen	82.6		80.8	76.7		5.14
	Aldicarb	79.7		62.3	54.6		13.2
	Aldicarb Sulfone	97.4		81.3	78.2		3.81
	Aldicarb Sulfoxide	99.7		33.3	31.5		5.58
	AMPA	107		116	125		7.77
	Bentazon	76.8		57.1	40.4		34.3
	Carbamazepine	92.1		71.8	64.3		11.1
	Carbaryl	78.2		66.6	59.5		11.2
	Carbofuran	88.3		63.5	57.3		10.2
	Diuron	85.2		62.5	48.6		24.9
	Endothall	124		128	112		13.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Fenuron	101	51.3	50.5		1.63
	Fluridone	73.6	44.9	46.9		4.36
	Glufosinate	121	95.5	110		12.5
	Glyphosate	86.8	107	110		3.24
	Hydrocodone	92.9	65.4	59.6		9.24
	Imazapyr	90.5	89.1	66.6		10.3
	Imidacloprid	110	118	112		4.81
	Linuron	67.8	60.1	53.6		11.5
	MCPP	82.1	77.2	108		33.1
	Methiocarb	72.5	68.0	65.2		4.14
	Methomyl	90.9	65.5	62.5		4.65
	Oxamyl	96.5	77.2	70.9		8.54
	Primidone	99.0	60.8	53.4		13.0
	Propoxur	84.9	65.6	53.7		20.0
	Pyraclostrobin	42.3	3.91	9.89		86.8
	Sucralose	100	79.3	70.1		12.3
	Triclopyr	87.7	58.9	103		54.0
SM 2120 B	Color (true)					3.06
	Color (true)					2.28
SM 2320 B-97	Total Alkalinity	100				7.60
SM 2540 C-97	TDS					0.445
	TDS					1.55
SM 4500 F-C-97	Fluoride	96.2	96.9	98.2		0.972
SM 5310 B-00	Organic Carbon	98.2	99.4	98.6		0.650

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1999117, 1999118, 1999123, 1999124
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1999141, 1999142
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1999141, 1999142
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1999117, 1999118, 1999123, 1999124
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1999117, 1999118, 1999123, 1999124
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1999119, 1999120, 1999125, 1999126
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1999119, 1999120, 1999125, 1999126
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1999119, 1999120, 1999125, 1999126
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1999119, 1999120, 1999125, 1999126
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1999121, 1999122, 1999127, 1999128
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1999139
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1999140
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1999139
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	1999137
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	1999138

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 2120 B / E31780	True Color measured at 450 nm	1999117, 1999118, 1999123, 1999124
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1999117, 1999118, 1999123, 1999124
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1999117, 1999118, 1999123, 1999124
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	1999117, 1999118, 1999123, 1999124
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1999117, 1999118, 1999123, 1999124
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1999119, 1999120, 1999125, 1999126

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	06/08/2018			06/08/2018 15:48	Julia Storbeck	1999117, 1999118, 1999123, 1999124
EPA 200.7 Rev. 4.4	06/08/2018	06/11/2018 17:10	Elliott D. Healy	06/12/2018 17:53	Betina Topolski	1999141
	06/08/2018	06/11/2018 17:10	Elliott D. Healy	06/12/2018 18:00	Betina Topolski	1999142
EPA 200.8 Rev. 5.4	06/08/2018	06/11/2018 17:10	Elliott D. Healy	06/12/2018 19:25	Nadine Brooks	1999141
	06/08/2018	06/11/2018 17:10	Elliott D. Healy	06/12/2018 19:35	Nadine Brooks	1999142
EPA 300.0 Rev. 2.1	06/08/2018			06/14/2018 02:33	Lipi Saha	1999117
	06/08/2018			06/14/2018 02:45	Lipi Saha	1999118
	06/08/2018			06/20/2018 20:16	Irina Carbone	1999123
	06/08/2018			06/20/2018 20:28	Irina Carbone	1999124
EPA 350.1 Rev. 2.0	06/08/2018			06/18/2018 11:22	Ping Hua	1999119
	06/08/2018			06/18/2018 11:24	Ping Hua	1999120
	06/08/2018			06/18/2018 11:25	Ping Hua	1999125
	06/08/2018			06/19/2018 10:21	Ping Hua	1999126
EPA 351.2 Rev. 2.0	06/08/2018	06/21/2018 12:00	Adrian Shelby	06/22/2018 17:08	Tanya Welborn	1999119
	06/08/2018	06/21/2018 12:00	Adrian Shelby	06/22/2018 17:10	Tanya Welborn	1999120
	06/08/2018	06/21/2018 12:00	Adrian Shelby	06/22/2018 17:11	Tanya Welborn	1999125
	06/08/2018	06/21/2018 12:00	Adrian Shelby	06/22/2018 17:13	Tanya Welborn	1999126
EPA 353.2 Rev. 2.0	06/08/2018			06/14/2018 13:13	Lauren Bottorf	1999119
	06/08/2018			06/14/2018 13:15	Lauren Bottorf	1999120
	06/08/2018			06/14/2018 13:22	Lauren Bottorf	1999125
	06/08/2018			06/14/2018 13:29	Lauren Bottorf	1999126
EPA 365.1 Rev. 2.0	06/08/2018	06/15/2018 11:35	Sima Feizi	06/19/2018 12:27	Beverly Y. Sanders	1999119
	06/08/2018	06/15/2018 11:35	Sima Feizi	06/19/2018 12:28	Beverly Y. Sanders	1999120
	06/08/2018	06/15/2018 11:35	Sima Feizi	06/19/2018 12:29	Beverly Y. Sanders	1999125
	06/08/2018	06/15/2018 11:35	Sima Feizi	06/19/2018 12:30	Beverly Y. Sanders	1999126
EPA 365.1 Rev. 2.0 dissolved	06/08/2018			06/08/2018 15:00	Megan Treadwell	1999121, 1999122
	06/08/2018			06/08/2018 15:01	Megan Treadwell	1999127
	06/08/2018			06/08/2018 15:02	Megan Treadwell	1999128
EPA 8270D	06/08/2018	06/11/2018 09:00	Fe-Val Siddell	06/13/2018 22:52	Dinesh Mishra	1999139
	06/08/2018	06/13/2018 08:30	Fe-Val Siddell	06/14/2018 14:22	Vandana T. Nagar	1999140
	06/08/2018	06/13/2018 08:30	Fe-Val Siddell	06/15/2018 13:29	Vandana T. Nagar	1999140
	06/08/2018	06/13/2018 08:30	Fe-Val Siddell	06/15/2018 14:42	Vandana T. Nagar	1999140
EPA 8276	06/08/2018	06/11/2018 09:00	Fe-Val Siddell	06/16/2018 01:27	Dinesh Mishra	1999139
EPA 8321B	06/08/2018	06/13/2018 08:00	Hoor Shaik	06/13/2018 10:37	Mohammad Ghaffari	1999138
	06/08/2018	06/13/2018 08:00	Hoor Shaik	06/14/2018 08:20	Mohammad Ghaffari	1999138
	06/08/2018	06/13/2018 09:00	Hoor Shaik	06/14/2018 20:06	Juyoung Kim	1999138
	06/08/2018	06/13/2018 09:00	Hoor Shaik	06/18/2018 20:00	Juyoung Kim	1999137
	06/08/2018	06/13/2018 09:00	Hoor Shaik	06/19/2018 01:46	Juyoung Kim	1999138
SM 2120 B	06/08/2018			06/08/2018 14:52	Julia Storbeck	1999123
	06/08/2018			06/08/2018 15:13	Julia Storbeck	1999117

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2120 B	06/08/2018			06/08/2018 15:14	Julia Storbeck	1999118
	06/08/2018			06/08/2018 15:15	Julia Storbeck	1999124
SM 2320 B-97	06/08/2018			06/16/2018 13:56	Dale L. Simmons	1999117
	06/08/2018			06/16/2018 15:08	Dale L. Simmons	1999118
	06/08/2018			06/16/2018 15:19	Dale L. Simmons	1999123
	06/08/2018			06/16/2018 15:30	Dale L. Simmons	1999124
	06/08/2018			06/12/2018 17:08	Yijie Li	1999117, 1999118, 1999123, 1999124
SM 2540 C-97	06/08/2018			06/12/2018 15:45	Yijie Li	1999117, 1999118, 1999123, 1999124
SM 2540 D-97	06/08/2018			06/16/2018 13:48	Dale L. Simmons	1999117
SM 4500 F-C-97	06/08/2018			06/16/2018 15:08	Dale L. Simmons	1999118
	06/08/2018			06/16/2018 15:19	Dale L. Simmons	1999123
	06/08/2018			06/16/2018 15:30	Dale L. Simmons	1999124
SM 5310 B-00	06/08/2018			06/18/2018 23:04	Megan Treadwell	1999119
	06/08/2018			06/18/2018 23:17	Megan Treadwell	1999120
	06/08/2018			06/18/2018 23:29	Megan Treadwell	1999125
	06/08/2018			06/18/2018 23:41	Megan Treadwell	1999126