

Chemical Analysis Report

CEN-DIST-2018-04-12-01

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

Event Description: **Kasey / Dot / Yvonne / Hop**

Request ID: **RQ-2018-04-09-47**

Customer: **CEN-DIST**

Project ID: **SMP**

Send Reports to:

FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Michael Linger

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Certified by: Colin Wright, Program Administrator

Date Certified: 04-MAY-2018 10:48

A handwritten signature in black ink, appearing to read "Colin Wright", is shown on a light-colored background.

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 DOT @ CENTER

Collection Date/Time: 04/11/2018 10:10

Field ID: G2CE0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1983724	EPA 180.1 Rev. 2.0	Turbidity	6.0		NTU	P343334	
	EPA 300.0 Rev. 2.1	Chloride	9.6		mg Cl/L	P343435	
		Sulfate	15		mg SO4/L	P343438	
	SM 2120 B	Color (true)	14		PCU	P343299	
	SM 2320 B-97	Total Alkalinity	70		mg CaCO3/L	P343812	
	SM 2540 C-97	TDS	112		mg/L	P343627	
	SM 2540 D-97	TSS	5	I	mg/L	P343519	
	SM 4500 F-C-97	Fluoride	0.062	I	mg F/L	P343816	
1983725	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P343687	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P343353	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P343568	
	EPA 365.1 Rev. 2.0	Total-P	0.096		mg P/L	P343481	
	SM 5310 B-00	Organic Carbon	4.6		mg C/L	P343572	
1983726	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.005	I	mg P/L	P343295	
1983744	EPA 8321B	2,4-D	0.0064	I	ug/L	P343184	
		Bentazon	0.0027	I	ug/L	P343184	
		MCP	0.0020	U	ug/L	P343184	
		Triclopyr**	0.0040	U	ug/L	P343184	
		Imidacloprid	0.023		ug/L	P343184	MS
		Diuron	0.0086		ug/L	P343184	
		Pyraclostrobin**	0.0020	U	ug/L	P343184	
		Primidone**	0.0040	U	ug/L	P343184	
		Linuron	0.0040	U	ug/L	P343184	
		Acetaminophen**	0.11		ug/L	P343184	
		Fenuron	0.016	U	ug/L	P343184	
		Imazapyr**	0.0040	U	ug/L	P343184	
		Carbamazepine**	4.0E-04	U	ug/L	P343184	
		Fluridone**	0.0020	I	ug/L	P343184	
		Hydrocodone**	8.0E-04	U	ug/L	P343184	
		Sucralose**	0.10	U	ug/L	P343272	
		Glyphosate**	0.71		ug/L	P343272	
		AMPA**	0.19	I	ug/L	P343272	MS
		Endothal**	0.10	U	ug/L	P343272	
		Glufosinate**	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.

Sample Location: KASEY LAKE @ CENTER

Collection Date/Time: 04/11/2018 10:55

Field ID: G2CE0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1983721	EPA 180.1 Rev. 2.0	Turbidity	6.5	A	NTU	P343334	
	EPA 300.0 Rev. 2.1	Chloride	9.0		mg Cl/L	P343435	
		Sulfate	5.0		mg SO4/L	P343438	

Field ID: G2CE0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1983721	SM 2120 B	Color (true)	36		PCU	P343299	
	SM 2320 B-97	Total Alkalinity	26		mg CaCO3/L	P343812	
	SM 2540 C-97	TDS	60		mg/L	P343627	
	SM 2540 D-97	TSS	10		mg/L	P343519	
	SM 4500 F-C-97	Fluoride	0.051	I	mg F/L	P343816	
1983722	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P343687	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P343353	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P343568	
	EPA 365.1 Rev. 2.0	Total-P	0.077		mg P/L	P343481	
	SM 5310 B-00	Organic Carbon	9.3		mg C/L	P343572	
1983723	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P343295	
1983747	EPA 200.7 Rev. 4.4	Calcium	9.82		mg/L	P343463	
		Iron	74	I	ug/L	P343463	
		Magnesium	1.64		mg/L	P343463	
		Potassium	2.0		mg/L	P343463	
		Sodium	5.6		mg/L	P343463	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P343463	
		Arsenic	0.26		ug/L	P343463	
		Cadmium	0.020	U	ug/L	P343463	
		Chromium	0.40	U	ug/L	P343463	
		Copper	0.82		ug/L	P343463	
		Lead	0.15	I	ug/L	P343463	
		Nickel	0.20	U	ug/L	P343463	
		Silver	0.010	U	ug/L	P343463	

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: KASEY LAKE @ CENTER

Collection Date/Time: 04/11/2018 10:55

Field ID: G2CE0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1983742	EPA 8321B	Aldicarb	0.020	U	ug/L	P343184	
		Aldicarb Sulfone	0.0020	U	ug/L	P343184	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P343184	
		Carbaryl	0.0020	U	ug/L	P343184	
		Carbofuran	0.0020	U	ug/L	P343184	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P343184	
		Methiocarb	0.0020	U	ug/L	P343184	
		Methomyl	0.0020	U	ug/L	P343184	
		Oxamyl	0.0020	U	ug/L	P343184	
		Propoxur	0.0020	U	ug/L	P343184	
		2,4-D	0.025		ug/L	P343184	
		Bentazon	0.0095		ug/L	P343184	
1983743		MCP	0.010		ug/L	P343184	
		Triclopyr**	0.0040	U	ug/L	P343184	

Field ID: G2CE0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1983743	EPA 8321B	Imidacloprid	0.0020	U	ug/L	P343184	MS
		Diuron	0.0020	U	ug/L	P343184	
		Pyraclostrobin**	0.0020	U	ug/L	P343184	
		Primidone**	0.0040	U	ug/L	P343184	
		Linuron	0.0040	U	ug/L	P343184	
		Acetaminophen**	0.0080	U	ug/L	P343184	
		Fenuron	0.016	U	ug/L	P343184	
		Imazapyr**	0.0040	U	ug/L	P343184	
		Carbamazepine**	4.0E-04	U	ug/L	P343184	
		Fluridone**	8.0E-04	U	ug/L	P343184	
		Hydrocodone**	8.0E-04	U	ug/L	P343184	
		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	
1983745	EPA 8270D	Glufosinate**	0.10	U	ug/L	P343272	
		Aldrin	4.4	U	ng/L	P343276	
		Alpha-BHC	2.2	U	ng/L	P343276	
		Beta-BHC	4.4	U	ng/L	P343276	
		Delta-BHC	4.4	U	ng/L	P343276	
		Gamma-BHC	4.4	U	ng/L	P343276	
		Carbophenothion	4.4	U	ng/L	P343276	
		Chlorothalonil	2.2	U	ng/L	P343276	RPD
		Cypermethrin	22	U	ng/L	P343276	
		DDD-p,p'	3.3	U	ng/L	P343276	
		DDE-p,p'	3.3	U	ng/L	P343276	
		DDT-p,p'	3.3	U	ng/L	P343276	
		Dieldrin	4.4	U	ng/L	P343276	
		Endosulfan I	4.4	U	ng/L	P343276	
		Endosulfan II	4.4	U	ng/L	P343276	
	EPA 8276	Endosulfan Sulfate	2.2	U	ng/L	P343276	
		Endrin	2.2	U	ng/L	P343276	
		Endrin Aldehyde	2.2	U	ng/L	P343276	RPD
		Heptachlor	1.6	U	ng/L	P343276	
		Heptachlor Epoxide	2.2	U	ng/L	P343276	
		Methoxychlor	4.4	U	ng/L	P343276	
		Mirex	2.2	U	ng/L	P343276	
		Permethrin	11	U	ng/L	P343276	
		Trifluralin	1.1	U	ng/L	P343276	
		Alpha-Chlordane	1.1	U	ng/L	P343276	
		Gamma-Chlordane	1.1	U	ng/L	P343276	
		Endrin Ketone	2.2	U	ng/L	P343276	
		Dicofol	33	U	ng/L	P343276	
		Chlordane**	2.7	U	ng/L	P343276	
		Toxaphene**	33	U	ng/L	P343276	

Field ID: G2CE0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1983746	EPA 8270D	Alachlor	0.24	U	ng/L	P343441	
		Ametryn	0.32	U	ng/L	P343441	MS
		Atrazine	220		ng/L	P343441	
		Atrazine Desethyl	23		ng/L	P343441	
		Azinphos Methyl	2.2	U	ng/L	P343441	
		Bromacil	0.49	U	ng/L	P343441	
		Butylate	0.39	U	ng/L	P343441	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P343441	
		Chlorpyrifos Methyl	0.098	U	ng/L	P343441	
		Demeton	2.0	U	ng/L	P343441	
		Diazinon	0.12	U	ng/L	P343441	
		Disulfoton	0.49	U	ng/L	P343441	RPD
		EPTC	1.2	U	ng/L	P343441	
		Ethion	0.15	U	ng/L	P343441	
		Ethoprop	0.098	U	ng/L	P343441	
		Fenamiphos	0.24	U	ng/L	P343441	
		Fipronil	0.61	I	ng/L	P343441	
		Fipronil Sulfide	1.0		ng/L	P343441	
		Fipronil Sulfone	5.7		ng/L	P343441	
		Hexazinone	0.49	U	ng/L	P343441	
		Malathion	0.34	U	ng/L	P343441	
		Metribuzin	0.20	UJ	ng/L	P343441	CCV
		Mevinphos	0.49	U	ng/L	P343441	
		Molinate	0.29	U	ng/L	P343441	
		Norflurazon	0.49	U	ng/L	P343441	RPD
		Pendimethalin	0.98	U	ng/L	P343441	
		Phorate	0.24	U	ng/L	P343441	
		Prometon	0.88	U	ng/L	P343441	
		Prometryn	0.20	U	ng/L	P343441	
		Simazine	0.49	U	ng/L	P343441	
		Terbufos	0.098	U	ng/L	P343441	
		Terbuthylazine	0.42	U	ng/L	P343441	
		Fonofos	0.20	U	ng/L	P343441	
		Metalaxyl	0.24	U	ng/L	P343441	RPD
		Metolachlor	0.24	U	ng/L	P343441	
		Acetochlor	0.24	U	ng/L	P343441	
		Cyanazine	0.49	UJ	ng/L	P343441	CCV
		Parathion Ethyl	0.24	U	ng/L	P343441	
		Parathion Methyl	0.24	U	ng/L	P343441	

Ref. Method and Comment:

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: LAKE HOPE @ CENTER

Collection Date/Time: 04/11/2018 11:47

Field ID: G2CE0106

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1983727	EPA 180.1 Rev. 2.0	Turbidity	0.55		NTU	P343334	
	EPA 300.0 Rev. 2.1	Chloride	52		mg Cl/L	P343435	
		Sulfate	24		mg SO4/L	P343438	
	SM 2120 B	Color (true)	23		PCU	P343299	
	SM 2320 B-97	Total Alkalinity	42		mg CaCO3/L	P343812	
	SM 2540 C-97	TDS	168		mg/L	P343627	
	SM 2540 D-97	TSS	2	UA	mg/L	P343519	
	SM 4500 F-C-97	Fluoride	0.073	I	mg F/L	P343816	
1983729	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P343687	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.55		mg N/L	P343353	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P343568	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P343481	
	SM 5310 B-00	Organic Carbon	6.1		mg C/L	P343572	
1983731	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P343295	

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: LAKE YVONNE (LAKE VONNA) @ CENTER

Collection Date/Time: 04/11/2018 12:34

Field ID: G2CE0095

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1983728	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P343334	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P343435	
		Sulfate	8.6		mg SO4/L	P343438	
	SM 2120 B	Color (true)	38	A	PCU	P343299	
	SM 2320 B-97	Total Alkalinity	55	A	mg CaCO3/L	P343812	
	SM 2540 C-97	TDS	129		mg/L	P343627	
	SM 2540 D-97	TSS	2	U	mg/L	P343519	
	SM 4500 F-C-97	Fluoride	0.25		mg F/L	P343816	
1983730	EPA 350.1 Rev. 2.0	Ammonia-N	0.054		mg N/L	P343687	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.78		mg N/L	P343353	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.010		mg N/L	P343569	
	EPA 365.1 Rev. 2.0	Total-P	0.040		mg P/L	P343481	
	SM 5310 B-00	Organic Carbon	9.7		mg C/L	P343572	
1983732	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P343295	

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: P343334

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P343463

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: P343463

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: P343435

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343438

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P343687

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P343353

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343568

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343569

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P343481

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P343295

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

Reference Method: EPA 8270D
Batch ID: P343276

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

Reference Method: EPA 8270D
Batch ID: P343441

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D

Batch ID: P343441

Component	Result	Code	Units
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
Metaxyl	0.25	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276

Batch ID: P343276

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

Reference Method: EPA 8321B

Batch ID: P343184

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P343184

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

Reference Method: SM 2120 B
Batch ID: P343299

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P343812

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

Reference Method: SM 2540 C-97
Batch ID: P343627

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P343519

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P343816

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P343572

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: P343463

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	102		P	85 - 115
Magnesium	106		P	85 - 115
Potassium	99.7		P	85 - 115
Sodium	105		P	85 - 115
Zinc	98.3		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P343463

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	104		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	97.7		P	85 - 115
Copper	104		P	85 - 115
Lead	98.3		P	85 - 115
Nickel	104		P	85 - 115
Silver	99.7		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343435

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343438

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P343687

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P343353

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.3		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343568

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343569

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: P343481

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P343295

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

Reference Method: EPA 8270D
Batch ID: P343276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	33.3	33.3	P/P	24 - 89.0
Alpha-BHC	81.3	89.0	P/P	58 - 117
Alpha-Chlordane	79.6	80.9	P/P	56 - 115
Beta-BHC	89.8	97.5	P/P	55 - 137
Carbophenothion	98.5	110	P/P	37 - 145
Chlorothalonil	68.3	68.9	P/P	26 - 163
Cypermethrin	78.8	81.2	P/P	42 - 156
DDD-p,p'	91.2	93.5	P/P	59 - 129
DDE-p,p'	81.9	84.2	P/P	52 - 117
DDT-p,p'	87.9	89.8	P/P	48 - 128
Delta-BHC	91.0	97.9	P/P	59 - 158
Dicofol	78.2	80.3	P/P	19 - 124
Dieldrin	79.0	87.0	P/P	57 - 126
Endosulfan I	82.6	80.9	P/P	59 - 133
Endosulfan II	91.8	86.6	P/P	58 - 148
Endosulfan Sulfate	93.0	83.5	P/P	56 - 135

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P343276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	79.8	90.6	P/P	50 - 140
Endrin Aldehyde	73.3	71.2	P/P	47 - 141
Endrin Ketone	87.2	85.0	P/P	63 - 123
Gamma-BHC	83.6	87.0	P/P	59 - 132
Gamma-Chlordane	76.2	77.4	P/P	55 - 112
Heptachlor	66.6	67.0	P/P	45 - 102
Heptachlor Epoxide	77.7	79.0	P/P	61 - 116
Methoxychlor	89.0	92.4	P/P	60 - 133
Mirex	75.7	77.2	P/P	40 - 98.0
Permethrin	81.8	82.4	P/P	45 - 131
Trifluralin	79.7	82.0	P/P	38 - 179

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
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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P343441

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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 8276

Batch ID: P343276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	108	92.2	P/P	47 - 125
Toxaphene	75.9	82.4	P/P	46 - 147

Reference Method: EPA 8321B

Batch ID: P343184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	78.5		P	40 - 150
3-Hydroxycarbofuran	94.2		P	40 - 150
Acetaminophen	91.0		P	30 - 150
Aldicarb	77.2		P	30 - 150
Aldicarb Sulfone	95.3		P	40 - 150
Aldicarb Sulfoxide	90.6		P	40 - 150
Bentazon	68.4		P	30 - 150
Carbamazepine	80.4		P	40 - 150
Carbaryl	63.4		P	40 - 150
Carbofuran	69.1		P	40 - 150
Diuron	63.8		P	40 - 150
Fenuron	110		P	40 - 150
Fluridone	61.9		P	40 - 150
Hydrocodone	103		P	40 - 150
Imazapyr	65.5		P	40 - 150
Imidacloprid	104		P	40 - 160
Linuron	72.0		P	40 - 150
MCPPP	64.0		P	40 - 150
Methiocarb	65.9		P	40 - 150
Methomyl	104		P	40 - 150
Oxamyl	88.6		P	40 - 150
Primidone	106		P	40 - 150
Propoxur	68.2		P	40 - 150
Pyraclostrobin	69.2		P	40 - 150
Triclopyr	63.4		P	40 - 150

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P343812

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

Reference Method: SM 4500 F-C-97
Batch ID: P343816

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.8		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P343572

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P343463

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983715	Calcium	108	101	P/P	80 - 120
1983715	Iron	106	99.9	P/P	80 - 120
1983715	Magnesium	109	103	P/P	80 - 120
1983715	Potassium	108	102	P/P	80 - 120
1983715	Sodium	105	99.6	P/P	80 - 120
1983715	Zinc	94.7	95.1	P/P	80 - 120
1983965	Calcium	102		P	80 - 120
1983965	Iron	103		P	80 - 120
1983965	Magnesium	100		P	80 - 120
1983965	Potassium	96.7		P	80 - 120
1983965	Sodium	103		P	80 - 120
1983965	Zinc	99.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P343463

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983715	Arsenic	103	104	P/P	80 - 120
1983715	Cadmium	99.4	99.4	P/P	80 - 120
1983715	Chromium	97.2	98.0	P/P	80 - 120
1983715	Copper	102	103	P/P	80 - 120
1983715	Lead	96.9	97.7	P/P	80 - 120
1983715	Nickel	103	104	P/P	80 - 120
1983715	Silver	99.6	99.5	P/P	80 - 120
1983965	Arsenic	108		P	80 - 120
1983965	Cadmium	99.7		P	80 - 120
1983965	Chromium	94.0		P	80 - 120
1983965	Copper	100		P	80 - 120
1983965	Lead	100		P	80 - 120
1983965	Nickel	102		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P343463

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983965	Silver	97.4		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343435

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983697	Chloride	98.7		P	90 - 110
1983952	Chloride	94.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343438

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983697	Sulfate	97.0		P	90 - 110
1983952	Sulfate	94.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P343687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983684	Ammonia-N	94.4	97.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P343353

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983729	Kjeldahl Nitrogen	93.2	93.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343568

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983678	NO2NO3-N	98.2	98.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343569

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983730	NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P343481

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983781	Total-P	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P343295

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983723	O-Phosphate-P	97.9	97.1	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P343276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1984036	Aldrin	48.9	49.3	P/P	26 - 96.0
1984036	Alpha-BHC	92.5	88.9	P/P	51 - 123
1984036	Alpha-Chlordane	78.5	81.8	P/P	45 - 120
1984036	Beta-BHC	109	106	P/P	43 - 146
1984036	Carbophenothion	112	120	P/P	26 - 179
1984036	Chlorothalonil	80.4	56.8	P/P	10 - 215
1984036	Cypermethrin	79.7	78.4	P/P	35 - 169
1984036	DDD-p,p'	91.6	91.5	P/P	49 - 131
1984036	DDE-p,p'	83.4	85.7	P/P	39 - 127
1984036	DDT-p,p'	92.8	86.0	P/P	49 - 120
1984036	Delta-BHC	127	115	P/P	49 - 187
1984036	Dicofol	86.1	82.3	P/P	10 - 129
1984036	Dieldrin	80.6	89.2	P/P	46 - 132
1984036	Endosulfan I	80.6	84.3	P/P	57 - 130
1984036	Endosulfan II	82.8	92.4	P/P	52 - 148
1984036	Endosulfan Sulfate	90.7	88.2	P/P	55 - 129
1984036	Endrin	89.5	82.2	P/P	45 - 133
1984036	Endrin Aldehyde	68.2	48.9	P/P	26 - 140
1984036	Endrin Ketone	98.7	95.4	P/P	60 - 125
1984036	Gamma-BHC	101	74.8	P/P	50 - 145
1984036	Gamma-Chlordane	77.4	80.7	P/P	44 - 118
1984036	Heptachlor	63.2	63.6	P/P	35 - 106
1984036	Heptachlor Epoxide	80.6	83.8	P/P	52 - 123
1984036	Methoxychlor	82.2	88.0	P/P	54 - 132
1984036	Mirex	74.8	74.8	P/P	36 - 107
1984036	Permethrin	83.2	83.9	P/P	47 - 135
1984036	Trifluralin	81.2	79.8	P/P	32 - 228

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

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	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
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	Terbuthylazine	89.0	108	P/P	73 - 114

Reference Method: EPA 8276
Batch ID: P343276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983745	Chlordane	83.6	74.8	P/P	41 - 134
1983745	Toxaphene	57.2	50.9	P/P	39 - 158

Reference Method: EPA 8321B
Batch ID: P343184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983224	2,4-D	130	136	P/P	40 - 150
1983224	3-Hydroxycarbofuran	131	126	P/P	40 - 150
1983224	Acetaminophen	122	128	P/P	30 - 150
1983224	Aldicarb	73.1	91.2	P/P	30 - 150
1983224	Aldicarb Sulfone	141	147	P/P	40 - 150
1983224	Aldicarb Sulfoxide	102	99.4	P/P	40 - 150
1983224	Bentazon	41.1	43.3	P/P	30 - 150
1983224	Carbamazepine	103	103	P/P	40 - 150
1983224	Carbaryl	67.6	65.3	P/P	40 - 150
1983224	Carbofuran	77.0	73.6	P/P	40 - 150
1983224	Diuron	79.4	73.3	P/P	40 - 150
1983224	Fenuron	111	108	P/P	40 - 150
1983224	Fluridone	61.8	70.7	P/P	40 - 150
1983224	Hydrocodone	147	141	P/P	40 - 150
1983224	Imazapyr	89.8	74.8	P/P	40 - 150
1983224	Imidacloprid	248	245	F/F	40 - 160
1983224	Linuron	89.4	88.5	P/P	40 - 150
1983224	MCPP	96.0	99.7	P/P	40 - 150
1983224	Methiocarb	78.0	79.1	P/P	40 - 150
1983224	Methomyl	106	119	P/P	40 - 150
1983224	Oxamyl	102	109	P/P	40 - 150
1983224	Primidone	130	122	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P343184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983224	Propoxur	76.0	69.4	P/P	40 - 150
1983224	Pyraclostrobin	75.5	75.8	P/P	40 - 150
1983224	Triclopyr	92.0	96.4	P/P	40 - 150

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: SM 4500 F-C-97
Batch ID: P343816

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983728	Fluoride	96.1	96.9	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P343572

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1983558	Organic Carbon	95.1	95.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P343334

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983721	Turbidity	1.38	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P343463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983715	Calcium	5.45	Spike	P	0 - 20
1983715	Iron	6.00	Spike	P	0 - 20
1983715	Magnesium	5.46	Spike	P	0 - 20
1983715	Potassium	5.98	Spike	P	0 - 20
1983715	Sodium	3.46	Spike	P	0 - 20
1983715	Zinc	0.436	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P343463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983715	Arsenic	0.465	Spike	P	0 - 20
1983715	Cadmium	0.0154	Spike	P	0 - 20
1983715	Chromium	0.855	Spike	P	0 - 20
1983715	Copper	0.639	Spike	P	0 - 20
1983715	Lead	0.824	Spike	P	0 - 20
1983715	Nickel	0.929	Spike	P	0 - 20
1983715	Silver	0.0950	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343435

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983697	Chloride	0.0356	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P343438

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983697	Sulfate	0.135	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P343687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983684	Ammonia-N	1.84	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P343353

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983729	Kjeldahl Nitrogen	0.413	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343568

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983678	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P343569

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983730	NO2NO3-N	0.471	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P343481

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983781	Total-P	0.131	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P343295

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983723	O-Phosphate-P	0.821	Spike	P	0 - 20

Reference Method: EPA 8270D

Batch ID: P343276

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1984036	Aldrin	0.984	Spike	P	0 - 30
1984036	Alpha-BHC	4.04	Spike	P	0 - 30
1984036	Alpha-Chlordane	4.14	Spike	P	0 - 30
1984036	Beta-BHC	3.28	Spike	P	0 - 30
1984036	Carbophenothion	6.96	Spike	P	0 - 30
1984036	Chlorothalonil	34.3	Spike	F	0 - 30
1984036	Cypermethrin	1.53	Spike	P	0 - 30
1984036	DDD-p,p'	0.169	Spike	P	0 - 30
1984036	DDE-p,p'	2.70	Spike	P	0 - 30
1984036	DDT-p,p'	7.59	Spike	P	0 - 30
1984036	Delta-BHC	10.6	Spike	P	0 - 30
1984036	Dicofol	4.60	Spike	P	0 - 30
1984036	Dieldrin	5.31	Spike	P	0 - 30
1984036	Endosulfan I	4.54	Spike	P	0 - 30
1984036	Endosulfan II	11.0	Spike	P	0 - 30
1984036	Endosulfan Sulfate	2.78	Spike	P	0 - 30
1984036	Endrin	8.53	Spike	P	0 - 30
1984036	Endrin Aldehyde	32.9	Spike	F	0 - 30
1984036	Endrin Ketone	3.41	Spike	P	0 - 30
1984036	Gamma-BHC	29.4	Spike	P	0 - 30
1984036	Gamma-Chlordane	4.22	Spike	P	0 - 30
1984036	Heptachlor	0.540	Spike	P	0 - 30
1984036	Heptachlor Epoxide	3.89	Spike	P	0 - 30
1984036	Methoxychlor	6.83	Spike	P	0 - 30
1984036	Mirex	0.00301	Spike	P	0 - 30
1984036	Permethrin	0.828	Spike	P	0 - 30
1984036	Trifluralin	1.71	Spike	P	0 - 30
LFB	Aldrin	0.0278	LCS	P	0 - 30
LFB	Alpha-BHC	9.11	LCS	P	0 - 30
LFB	Alpha-Chlordane	1.55	LCS	P	0 - 30
LFB	Beta-BHC	8.31	LCS	P	0 - 30
LFB	Carbophenothion	10.9	LCS	P	0 - 30
LFB	Chlorothalonil	0.889	LCS	P	0 - 30
LFB	Cypermethrin	3.10	LCS	P	0 - 30
LFB	DDD-p,p'	2.50	LCS	P	0 - 30
LFB	DDE-p,p'	2.74	LCS	P	0 - 30
LFB	DDT-p,p'	2.09	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P343276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Delta-BHC	7.38	LCS	P	0 - 30
LFB	Dicofol	2.71	LCS	P	0 - 30
LFB	Dieldrin	9.63	LCS	P	0 - 30
LFB	Endosulfan I	2.16	LCS	P	0 - 30
LFB	Endosulfan II	5.79	LCS	P	0 - 30
LFB	Endosulfan Sulfate	10.8	LCS	P	0 - 30
LFB	Endrin	12.8	LCS	P	0 - 30
LFB	Endrin Aldehyde	2.84	LCS	P	0 - 30
LFB	Endrin Ketone	2.55	LCS	P	0 - 30
LFB	Gamma-BHC	4.03	LCS	P	0 - 30
LFB	Gamma-Chlordane	1.64	LCS	P	0 - 30
LFB	Heptachlor	0.680	LCS	P	0 - 30
LFB	Heptachlor Epoxide	1.64	LCS	P	0 - 30
LFB	Methoxychlor	3.72	LCS	P	0 - 30
LFB	Mirex	1.92	LCS	P	0 - 30
LFB	Permethrin	0.738	LCS	P	0 - 30
LFB	Trifluralin	2.82	LCS	P	0 - 30

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

Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P343441

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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	Terbuthylazine	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
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	Terbuthylazine	8.06	LCS	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8276

Batch ID: P343276

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983745	Chlordane	11.1	Spike	P	0 - 30
1983745	Toxaphene	11.7	Spike	P	0 - 30
LFB	Chlordane	15.7	LCS	P	0 - 30
LFB	Toxaphene	8.24	LCS	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P343184

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983224	2,4-D	4.71	Spike	P	0 - 30
1983224	3-Hydroxycarbofuran	3.79	Spike	P	0 - 30
1983224	Acetaminophen	4.60	Spike	P	0 - 30
1983224	Aldicarb	22.1	Spike	P	0 - 30
1983224	Aldicarb Sulfone	4.57	Spike	P	0 - 30
1983224	Aldicarb Sulfoxide	2.56	Spike	P	0 - 30
1983224	Bentazon	5.22	Spike	P	0 - 30
1983224	Carbamazepine	0.542	Spike	P	0 - 30
1983224	Carbaryl	3.44	Spike	P	0 - 30
1983224	Carbofuran	4.48	Spike	P	0 - 30
1983224	Diuron	8.02	Spike	P	0 - 30
1983224	Fenuron	2.41	Spike	P	0 - 30
1983224	Fluridone	13.5	Spike	P	0 - 30
1983224	Hydrocodone	4.30	Spike	P	0 - 30
1983224	Imazapyr	15.4	Spike	P	0 - 30
1983224	Imidacloprid	1.39	Spike	P	0 - 30
1983224	Linuron	0.996	Spike	P	0 - 30
1983224	MCPP	3.82	Spike	P	0 - 30
1983224	Methiocarb	1.34	Spike	P	0 - 30
1983224	Methomyl	12.2	Spike	P	0 - 30
1983224	Oxamyl	7.21	Spike	P	0 - 30
1983224	Primidone	6.33	Spike	P	0 - 30
1983224	Propoxur	9.06	Spike	P	0 - 30
1983224	Pyraclostrobin	0.414	Spike	P	0 - 30
1983224	Triclopyr	4.67	Spike	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

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P343299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983728	Color (true)	1.95	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P343812

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983728	Total Alkalinity	0.445	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P343627

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983799	TDS	2.33	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P343816

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983728	Fluoride	0.480	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P343572

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1983558	Organic Carbon	0.320	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: 1983742
Field Sample ID: G2CE0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	50.0	P	30 - 160

Lab Sample ID: 1983743
Field Sample ID: G2CE0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	69.2	P	30 - 160
EPA 8321B	2,4-D-d3	69.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	124	P	30 - 160
EPA 8321B	Acetaminophen-d4	124	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1983743
Field Sample ID: G2CE0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbamazepine-d10	102	P	30 - 160
EPA 8321B	Carbamazepine-d10	102	P	30 - 160
EPA 8321B	Diuron-d6	69.5	P	30 - 160
EPA 8321B	Diuron-d6	69.5	P	30 - 160
EPA 8321B	Endothall-d6	74.2	P	40 - 160
EPA 8321B	Endothall-d6	74.2	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	80.1	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	80.1	P	40 - 160
EPA 8321B	Primidone-d5	121	P	30 - 160
EPA 8321B	Primidone-d5	121	P	30 - 160
EPA 8321B	Sucralose-d6	68.2	P	40 - 160
EPA 8321B	Sucralose-d6	68.2	P	40 - 160

Lab Sample ID: 1983744
Field Sample ID: G2CE0067

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	55.4	P	30 - 160
EPA 8321B	2,4-D-d3	55.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	125	P	30 - 160
EPA 8321B	Acetaminophen-d4	125	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.0	P	30 - 160
EPA 8321B	Diuron-d6	77.1	P	30 - 160
EPA 8321B	Diuron-d6	77.1	P	30 - 160
EPA 8321B	Endothall-d6	76.5	P	40 - 160
EPA 8321B	Endothall-d6	76.5	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	52.5	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	52.5	P	40 - 160
EPA 8321B	Primidone-d5	138	P	30 - 160
EPA 8321B	Primidone-d5	138	P	30 - 160
EPA 8321B	Sucralose-d6	86.1	P	40 - 160
EPA 8321B	Sucralose-d6	86.1	P	40 - 160

Lab Sample ID: 1983745
Field Sample ID: G2CE0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	68.8	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	53.5	P	34 - 101
EPA 8276	Decachlorobiphenyl	64.4	P	31 - 108
EPA 8276	PCNB	104	P	62 - 142

Lab Sample ID: 1983746
Field Sample ID: G2CE0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	88.8	P	71 - 126
EPA 8270D	Terbufos-d10	82.9	P	59 - 149

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A83196

Included Lab Sample IDs: 1983723, 1983726, 1983731, 1983732

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.7	P/P	90 - 110
O-Phosphate-P	101	100	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A83198

Included Lab Sample IDs: 1983721, 1983724, 1983727, 1983728

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.1	98.4	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A83212

Included Lab Sample IDs: 1983721, 1983724, 1983727, 1983728

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A83234

Included Lab Sample IDs: 1983721, 1983724, 1983727, 1983728

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

Reference Method: EPA 8321B

Run ID: A83252

Included Lab Sample IDs: 1983743, 1983744

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	86.4	91.7	P/P	60 - 150
Endothall	96.6	98.4	P/P	60 - 150
Glufosinate	103	92.5	P/P	60 - 150
Glyphosate	121	128	P/P	60 - 150
Sucralose	115	114	P/P	60 - 130

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A83278

Included Lab Sample IDs: 1983722, 1983725, 1983729, 1983730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	98.3	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A83283

Included Lab Sample IDs: 1983743, 1983744

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	101	91.2	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A83283

Included Lab Sample IDs: 1983742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	104	107	P/P	60 - 150
Acetaminophen	106	99.1	P/P	60 - 150
Aldicarb	93.1	82.5	P/P	60 - 150
Aldicarb Sulfone	103	96.5	P/P	50 - 150
Aldicarb Sulfoxide	105	111	P/P	50 - 150
Bentazon	83.8	89.2	P/P	50 - 150
Carbamazepine	103	102	P/P	60 - 150
Carbaryl	106	104	P/P	60 - 150
Carbofuran	102	110	P/P	50 - 150
Diuron	105	103	P/P	60 - 150
Fenuron	118	113	P/P	60 - 150
Fluridone	102	100	P/P	60 - 160
Hydrocodone	109	108	P/P	60 - 150
Imazapyr	87.7	72.9	P/P	50 - 150
Imidacloprid	104	113	P/P	60 - 150
Linuron	112	110	P/P	60 - 150
MCPP	106	100	P/P	50 - 150
Methiocarb	95.1	106	P/P	50 - 150
Methomyl	97.1	117	P/P	50 - 150
Oxamyl	89.9	98.3	P/P	50 - 150
Primidone	117	111	P/P	60 - 150
Propoxur	103	110	P/P	50 - 150
Pyraclostrobin	105	101	P/P	60 - 150
Triclopyr	98.1	95.3	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A83287

Included Lab Sample IDs: 1983722, 1983725, 1983729, 1983730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	101	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A83288

Included Lab Sample IDs: 1983722, 1983725, 1983729, 1983730

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A83296

Included Lab Sample IDs: 1983747

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	95.1	100	P/P	90 - 110
Iron	95.8	98.7	P/P	90 - 110
Magnesium	95.5	98.8	P/P	90 - 110
Potassium	96.6	97.7	P/P	90 - 110
Sodium	97.8	100	P/P	90 - 110
Zinc	94.7	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A83314

Included Lab Sample IDs: 1983722, 1983725

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A83326

Included Lab Sample IDs: 1983722, 1983725, 1983729, 1983730

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A83340

Included Lab Sample IDs: 1983729, 1983730

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

Reference Method: EPA 8270D

Run ID: A83344

Included Lab Sample IDs: 1983745

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.9		P	80 - 120
Alpha-BHC	98.6		P	80 - 120
Alpha-Chlordane	96.9		P	80 - 120
Beta-BHC	96.8		P	80 - 120
Carbophenothion	102		P	80 - 120
Chlorothalonil	105		P	80 - 120
Cypermethrin	87.3		P	80 - 120
DDD-p,p'	98.3		P	80 - 120
DDE-p,p'	99.1		P	80 - 120
DDT-p,p'	106		P	80 - 120
Delta-BHC	100		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	96.2		P	80 - 120
Endosulfan I	91.0		P	80 - 120
Endosulfan II	91.9		P	80 - 120
Endosulfan Sulfate	101		P	80 - 120
Endrin	97.1		P	80 - 120
Endrin Aldehyde	92.0		P	80 - 120
Endrin Ketone	97.6		P	80 - 120
Gamma-BHC	97.5		P	80 - 120
Gamma-Chlordane	96.4		P	80 - 120
Heptachlor	93.8		P	80 - 120
Heptachlor Epoxide	96.1		P	80 - 120
Methoxychlor	106		P	80 - 120
Mirex	96.1		P	80 - 120
Permethrin	93.0		P	80 - 120
Trifluralin	96.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A83371

Included Lab Sample IDs: 1983721, 1983724, 1983727, 1983728

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

Reference Method: SM 4500 F-C-97

Run ID: A83371

Included Lab Sample IDs: 1983721, 1983724, 1983727, 1983728

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.5	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A83389

Included Lab Sample IDs: 1983747

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	105	104	P/P	90 - 110
Cadmium	102	103	P/P	90 - 110
Chromium	101	102	P/P	90 - 110
Copper	105	105	P/P	90 - 110
Lead	101	101	P/P	90 - 110
Nickel	104	103	P/P	90 - 110
Silver	100	101	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A83411

Included Lab Sample IDs: 1983746

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 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
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
Hexazinone	94.6		P	80 - 120
Malathion	90.7		P	80 - 120
Metalaxyl	92.5		P	80 - 120
Metolachlor	92.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A83411
Included Lab Sample IDs: 1983746

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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 8270D
Run ID: A83441
Included Lab Sample IDs: 1983746

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fonofos	91.8		P	80 - 120

Reference Method: EPA 8276
Run ID: A83448
Included Lab Sample IDs: 1983745

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	99.8		P	80 - 120

Reference Method: EPA 8270D
Run ID: A83561
Included Lab Sample IDs: 1983746

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	81.8		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
EPA 180.1 Rev. 2.0	Turbidity					1.38	
EPA 200.7 Rev. 4.4	Calcium	105	108	101	102		5.45
	Iron	102	106	99.9	103		6.00
	Magnesium	106	109	103	100		5.46
	Potassium	99.7	108	102	96.7		5.98

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision	MS
								SMP	
EPA 200.7 Rev. 4.4	Sodium	105		105	99.6	103			3.46
	Zinc	98.3		94.7	95.1	99.3			0.436
EPA 200.8 Rev. 5.4	Arsenic	104		103	104	108			0.465
	Cadmium	100		99.4	99.4	99.7			0.0154
	Chromium	97.7		97.2	98.0	94.0			0.855
	Copper	104		102	103	100			0.639
	Lead	98.3		96.9	97.7	100			0.824
	Nickel	104		103	104	102			0.929
	Silver	99.7		99.6	99.5	97.4			0.0950
	Chloride	98.4		98.7	94.7			0.0356	
EPA 300.0 Rev. 2.1	Sulfate	105		97.0	94.7			0.135	
EPA 350.1 Rev. 2.0	Ammonia-N	97.7		94.4	97.0				1.84
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.3		93.2	93.8				0.413
EPA 353.2 Rev. 2.0	NO2NO3-N	101		98.2	98.2				0.0
	NO2NO3-N	102		101	101				0.471
EPA 365.1 Rev. 2.0	Total-P	107		102	102				0.131
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100		97.9	97.1				0.821
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	33.3	33.3	48.9	49.3		0.0278		0.984
	Alpha-BHC	81.3	89.0	92.5	88.9		9.11		4.04
	Alpha-Chlordane	79.6	80.9	78.5	81.8		1.55		4.14
	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	89.8	97.5	109	106		8.31		3.28
	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	98.5	110	112	120		10.9		6.96
	Chlorothalonil	68.3	68.9	80.4	56.8		0.889		34.3
	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	78.8	81.2	79.7	78.4		3.10		1.53
	DDD-p,p'	91.2	93.5	91.6	91.5		2.50		0.169
	DDE-p,p'	81.9	84.2	83.4	85.7		2.74		2.70
	DDT-p,p'	87.9	89.8	92.8	86.0		2.09		7.59
	Delta-BHC	91.0	97.9	127	115		7.38		10.6
	Demeton	56.2	60.6	73.1	88.3		7.54		18.8
	Diazinon	103	101	121	104		2.32		15.1
	Dicofol	78.2	80.3	86.1	82.3		2.71		4.60
	Dieldrin	79.0	87.0	80.6	89.2		9.63		5.31
	Disulfoton	87.9	70.6	65.9	92.7		21.9		33.7
	Endosulfan I	82.6	80.9	80.6	84.3		2.16		4.54
	Endosulfan II	91.8	86.6	82.8	92.4		5.79		11.0
	Endosulfan Sulfate	93.0	83.5	90.7	88.2		10.8		2.78
	Endrin	79.8	90.6	89.5	82.2		12.8		8.53
	Endrin Aldehyde	73.3	71.2	68.2	48.9		2.84		32.9
	Endrin Ketone	87.2	85.0	98.7	95.4		2.55		3.41
	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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	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	83.6	87.0	101	74.8	4.03	29.4
	Gamma-Chlordane	76.2	77.4	77.4	80.7	1.64	4.22
	Heptachlor	66.6	67.0	63.2	63.6	0.680	0.540
	Heptachlor Epoxide	77.7	79.0	80.6	83.8	1.64	3.89
	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	89.0	92.4	82.2	88.0	3.72	6.83
	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	75.7	77.2	74.8	74.8	1.92	0.0030
	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	81.8	82.4	83.2	83.9	0.738	0.828
	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
	Trifluralin	79.7	82.0	81.2	79.8	2.82	1.71
EPA 8276	Chlordane	108	92.2	83.6	74.8	15.7	11.1
	Toxaphene	75.9	82.4	57.2	50.9	8.24	11.7
EPA 8321B	2,4-D	78.5		130	136		4.71
	3-Hydroxycarbofuran	94.2		131	126		3.79
	Acetaminophen	91.0		122	128		4.60
	Aldicarb	77.2		73.1	91.2		22.1
	Aldicarb Sulfone	95.3		141	147		4.57
	Aldicarb Sulfoxide	90.6		102	99.4		2.56
	AMPA	81.1		34.7	35.8		2.07
	Bentazon	68.4		41.1	43.3		5.22
	Carbamazepine	80.4		103	103		0.542
	Carbaryl	63.4		67.6	65.3		3.44
	Carbofuran	69.1		77.0	73.6		4.48
	Diuron	63.8		79.4	73.3		8.02
	Endothall	100		113	112		0.886
	Fenuron	110		111	108		2.41
	Fluridone	61.9		61.8	70.7		13.5
	Glufosinate	68.5		92.3	92.6		0.325
	Glyphosate	94.4		61.1	61.9		0.691
	Hydrocodone	103		147	141		4.30
	Imazapyr	65.5		89.8	74.8		15.4
	Imidacloprid	104		248	245		1.39
	Linuron	72.0		89.4	88.5		0.996
	MCPP	64.0		96.0	99.7		3.82
	Methiocarb	65.9		78.0	79.1		1.34

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Methomyl	104	106	119		12.2
	Oxamyl	88.6	102	109		7.21
	Primidone	106	130	122		6.33
	Propoxur	68.2	76.0	69.4		9.06
	Pyraclostrobin	69.2	75.5	75.8		0.414
	Sucralose	113	60.7	59.3		0.882
	Triclopyr	63.4	92.0	96.4		4.67
SM 2120 B	Color (true)				1.95	
SM 2320 B-97	Total Alkalinity	101			0.445	
SM 2540 C-97	TDS				2.33	
SM 4500 F-C-97	Fluoride	94.8	96.1	96.9		0.480
SM 5310 B-00	Organic Carbon	99.0	95.1	95.6		0.320

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1983721, 1983724, 1983727, 1983728
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1983747
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1983747
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1983721, 1983724, 1983727, 1983728
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1983721, 1983724, 1983727, 1983728
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1983722, 1983725, 1983729, 1983730
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1983722, 1983725, 1983729, 1983730
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1983722, 1983725, 1983729, 1983730
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1983722, 1983725, 1983729, 1983730
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1983723, 1983726, 1983731, 1983732
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1983745
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1983746
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1983745
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	1983742
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	1983743, 1983744
SM 2120 B / E31780	True Color measured at 450 nm	1983721, 1983724, 1983727, 1983728
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1983721, 1983724, 1983727, 1983728
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1983721, 1983724, 1983727, 1983728
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1983721, 1983724, 1983727, 1983728
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1983721, 1983724, 1983727, 1983728
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1983722, 1983725, 1983729, 1983730

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	04/12/2018			04/12/2018 17:21	William L. Brown IV	1983721, 1983724, 1983727, 1983728
EPA 200.7 Rev. 4.4	04/12/2018	04/16/2018 13:30	Elliott D. Healy	04/17/2018 14:19	Betina Topolski	1983747
EPA 200.8 Rev. 5.4	04/12/2018	04/16/2018 13:30	Elliott D. Healy	04/20/2018 17:33	Nadine Brooks	1983747
EPA 300.0 Rev. 2.1	04/12/2018			04/14/2018 06:51	Lipi Saha	1983721
	04/12/2018			04/14/2018 07:03	Lipi Saha	1983724
	04/12/2018			04/14/2018 07:38	Lipi Saha	1983727
	04/12/2018			04/14/2018 07:50	Lipi Saha	1983728
EPA 350.1 Rev. 2.0	04/12/2018			04/17/2018 11:07	Ping Hua	1983722
	04/12/2018			04/17/2018 11:08	Ping Hua	1983725
	04/12/2018			04/17/2018 11:10	Ping Hua	1983729
	04/12/2018			04/17/2018 11:11	Ping Hua	1983730
EPA 351.2 Rev. 2.0	04/12/2018	04/13/2018 10:00	Adrian Shelby	04/17/2018 11:31	Joseph Suarez	1983722
	04/12/2018	04/13/2018 10:00	Adrian Shelby	04/17/2018 11:32	Joseph Suarez	1983725
	04/12/2018	04/13/2018 10:00	Adrian Shelby	04/17/2018 11:34	Joseph Suarez	1983729
	04/12/2018	04/13/2018 10:00	Adrian Shelby	04/17/2018 11:39	Joseph Suarez	1983730
EPA 353.2 Rev. 2.0	04/12/2018			04/17/2018 13:34	Lauren Bottorf	1983722
	04/12/2018			04/17/2018 13:35	Lauren Bottorf	1983725
	04/12/2018			04/17/2018 13:36	Lauren Bottorf	1983729
	04/12/2018			04/17/2018 13:44	Lauren Bottorf	1983730
EPA 365.1 Rev. 2.0	04/12/2018	04/16/2018 13:16	Sima Feizi	04/18/2018 10:43	Beverly Y. Sanders	1983722
	04/12/2018	04/16/2018 13:16	Sima Feizi	04/18/2018 10:45	Beverly Y. Sanders	1983725
	04/12/2018	04/16/2018 13:16	Sima Feizi	04/19/2018 12:08	Beverly Y. Sanders	1983729
	04/12/2018	04/16/2018 13:16	Sima Feizi	04/19/2018 12:09	Beverly Y. Sanders	1983730
EPA 365.1 Rev. 2.0 dissolved	04/12/2018			04/12/2018 14:11	Megan Treadwell	1983723
	04/12/2018			04/12/2018 14:22	Megan Treadwell	1983726
	04/12/2018			04/12/2018 14:23	Megan Treadwell	1983731
	04/12/2018			04/12/2018 14:24	Megan Treadwell	1983732
EPA 8270D	04/12/2018	04/13/2018 09:00	Fe-Val Siddell	04/18/2018 20:35	Dinesh Mishra	1983745
	04/12/2018	04/16/2018 10:00	John Kaba	04/23/2018 15:46	Vandana T. Nagar	1983746
	04/12/2018	04/16/2018 10:00	John Kaba	04/27/2018 18:08	Vandana T. Nagar	1983746
EPA 8276	04/12/2018	04/13/2018 09:00	Fe-Val Siddell	04/24/2018 03:23	Vandana T. Nagar	1983745
EPA 8321B	04/12/2018	04/13/2018 10:00	Hoor Shaik	04/14/2018 11:46	Julie Michelle Frank	1983743
	04/12/2018	04/13/2018 10:00	Hoor Shaik	04/14/2018 12:21	Julie Michelle Frank	1983744
	04/12/2018	04/13/2018 10:00	Hoor Shaik	04/14/2018 21:00	Julie Michelle Frank	1983742
	04/12/2018	04/13/2018 10:00	Hoor Shaik	04/15/2018 02:46	Julie Michelle Frank	1983743
	04/12/2018	04/13/2018 10:00	Hoor Shaik	04/15/2018 03:21	Julie Michelle Frank	1983744
	04/12/2018	04/13/2018 12:00	Hoor Shaik	04/13/2018 22:45	S. M. Reddy	1983743
	04/12/2018	04/13/2018 12:00	Hoor Shaik	04/13/2018 23:01	S. M. Reddy	1983744
SM 2120 B	04/12/2018			04/12/2018 15:20	Tanya Welborn	1983721
	04/12/2018			04/12/2018 15:21	Tanya Welborn	1983724

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2120 B	04/12/2018			04/12/2018 15:22	Tanya Welborn	1983727
	04/12/2018			04/12/2018 15:24	Tanya Welborn	1983728
SM 2320 B-97	04/12/2018			04/19/2018 22:47	Dale L. Simmons	1983728
	04/12/2018			04/19/2018 23:27	Dale L. Simmons	1983721
	04/12/2018			04/19/2018 23:37	Dale L. Simmons	1983724
	04/12/2018			04/19/2018 23:47	Dale L. Simmons	1983727
	04/12/2018			04/13/2018 13:20	DeAsia Armster	1983721, 1983724, 1983727, 1983728
SM 2540 C-97	04/12/2018			04/13/2018 13:20	DeAsia Armster	1983721, 1983724, 1983727, 1983728
SM 2540 D-97	04/12/2018			04/19/2018 22:40	Dale L. Simmons	1983728
SM 4500 F-C-97	04/12/2018			04/19/2018 23:27	Dale L. Simmons	1983721
	04/12/2018			04/19/2018 23:37	Dale L. Simmons	1983724
	04/12/2018			04/19/2018 23:47	Dale L. Simmons	1983727
	04/12/2018			04/16/2018 19:14	Megan Treadwell	1983722
	04/12/2018			04/16/2018 19:26	Megan Treadwell	1983725
SM 5310 B-00	04/12/2018			04/16/2018 19:42	Megan Treadwell	1983729
	04/12/2018			04/16/2018 19:57	Megan Treadwell	1983730