

Chemical Analysis Report

CEN-DIST-2018-07-31-01

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

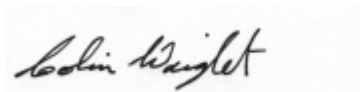
Event Description: **Lk Greenwood X3 / McCoy X4 / Searcy**
Request ID: **RQ-2018-07-30-32**
Customer: **CEN-DIST**
Project ID: **SMP**

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Certified by: Colin Wright, Program Administrator

Date Certified: 22-AUG-2018 10:14

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular 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: Greenwood Lake West Lobe @ 110m N of
 Reflection Park Boat Ramp**

Collection Date/Time: 07/30/2018 10:42

Field ID: G2CE0135

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011869	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P349463	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P349592	
		Sulfate	5.6		mg SO4/L	P349595	
		Color (true)	31	A	PCU	P349458	
	SM 2320 B-97	Total Alkalinity	40		mg CaCO3/L	P349651	
	SM 2540 C-97	TDS	115	A	mg/L	P349795	
	SM 2540 D-97	TSS	5	IA	mg/L	P349950	
	SM 4500 F-C-97	Fluoride	0.048	I	mg F/L	P349654	
2011876	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P349573	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P349470	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P349491	
	EPA 365.1 Rev. 2.0	Total-P	0.035		mg P/L	P349560	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P349690	
2011883	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P349454	
2011929	EPA 200.7 Rev. 4.4	Calcium	15.4		mg/L	P349496	
		Iron	72	I	ug/L	P349496	
		Magnesium	2.23		mg/L	P349496	
		Potassium	2.5		mg/L	P349496	
		Sodium	16.2		mg/L	P349496	
		Zinc	5.0	U	ug/L	P349496	
	EPA 200.8 Rev. 5.4	Arsenic	0.69		ug/L	P349496	
		Cadmium	0.020	U	ug/L	P349496	
		Chromium	0.40	U	ug/L	P349496	
		Copper	1.05		ug/L	P349496	
		Lead	0.050	U	ug/L	P349496	
		Nickel	0.20	U	ug/L	P349496	
		Silver	0.010	U	ug/L	P349496	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

**Sample Location: Greenwood Lake West Lobe @ 110m N of
Reflection Park Boat Ramp**

Collection Date/Time: 07/30/2018 10:42

Field ID: G2CE0135

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011921	EPA 8321B	Aldicarb	0.020	U	ug/L	P349361	
		Aldicarb Sulfone	0.0020	U	ug/L	P349361	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P349361	
		Carbaryl	0.0020	U	ug/L	P349361	
		Carbofuran	0.0020	U	ug/L	P349361	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P349361	
		Methiocarb	0.0020	U	ug/L	P349361	
		Methomyl	0.0020	U	ug/L	P349361	
		Oxamyl	0.0020	U	ug/L	P349361	
		Propoxur	0.0020	U	ug/L	P349361	
2011922		2,4-D	0.050		ug/L	P349361	MS
		Sucralose**	3.0		ug/L	P349535	
		Bentazon	0.029		ug/L	P349361	
		MCP	0.0036	I	ug/L	P349361	
		Triclopyr**	0.0040	U	ug/L	P349361	
		Imidacloprid	0.053		ug/L	P349361	
		Diuron	0.0020	U	ug/L	P349361	
		Pyraclostrobin**	0.0020	U	ug/L	P349361	
		Primidone**	0.0057	I	ug/L	P349361	
		Linuron	0.0040	U	ug/L	P349361	
		Acetaminophen**	0.0080	U	ug/L	P349361	
		Fenuron	0.016	U	ug/L	P349361	
		Imazapyr**	0.020		ug/L	P349361	
		Carbamazepine**	0.0025	I	ug/L	P349361	
		Fluridone**	8.6E-04	I	ug/L	P349361	
		Hydrocodone**	8.0E-04	U	ug/L	P349361	
		Naproxen**	0.0080	U	ug/L	P349361	
		Ibuprofen**	0.020	U	ug/L	P349361	
		Glyphosate**	0.10	U	ug/L	P349535	
		AMPA**	0.10	U	ug/L	P349535	
		Endothal**	0.10	U	ug/L	P349535	
		Glufosinate**	0.10	U	ug/L	P349535	
		Acesulfame K**	0.18	I	ug/L	P349535	RPD
2011923	EPA 8270D	Aldrin	4.2	U	ng/L	P349755	
		Alpha-BHC	2.1	U	ng/L	P349755	
		Beta-BHC	4.2	U	ng/L	P349755	
		Delta-BHC	4.2	U	ng/L	P349755	
		Gamma-BHC	4.2	U	ng/L	P349755	
		Carbophenothion	4.2	U	ng/L	P349755	
		Chlorothalonil	2.1	U	ng/L	P349755	
		Cypermethrin	21	UJ	ng/L	P349755	RPD
		DDD-p,p'	3.1	U	ng/L	P349755	
		DDE-p,p'	3.1	U	ng/L	P349755	

Field ID: G2CE0135

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011923	EPA 8270D	DDT-p,p'	3.1	U	ng/L	P349755	
		Dieldrin	4.2	U	ng/L	P349755	
		Endosulfan I	4.2	U	ng/L	P349755	
		Endosulfan II	4.2	U	ng/L	P349755	
		Endosulfan Sulfate	2.1	U	ng/L	P349755	
		Endrin	2.1	U	ng/L	P349755	
		Endrin Aldehyde	2.1	U	ng/L	P349755	
		Heptachlor	1.6	U	ng/L	P349755	
		Heptachlor Epoxide	2.1	U	ng/L	P349755	
		Methoxychlor	4.2	U	ng/L	P349755	
		Mirex	2.1	UJ	ng/L	P349755	RPD
		Permethrin	10	UJ	ng/L	P349755	RPD
		Trifluralin	1.0	U	ng/L	P349755	
		Alpha-Chlordane	1.0	U	ng/L	P349755	
		Gamma-Chlordane	1.0	U	ng/L	P349755	
		Endrin Ketone	2.1	U	ng/L	P349755	
		Dicofol	31	U	ng/L	P349755	
		Chlordane	2.6	U	ng/L	P349755	
		Toxaphene	31	U	ng/L	P349755	
	EPA 8276						
2011924	EPA 8270D	Alachlor	0.24	U	ng/L	P349696	
		Ametryn	0.31	U	ng/L	P349696	
		Atrazine	83		ng/L	P349696	
		Atrazine Desethyl	8.7		ng/L	P349696	
		Azinphos Methyl	2.2	U	ng/L	P349696	
		Bromacil	0.48	U	ng/L	P349696	
		Butylate	0.38	U	ng/L	P349696	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P349696	
		Chlorpyrifos Methyl	0.096	U	ng/L	P349696	
		Demeton	1.9	U	ng/L	P349696	
		Diazinon	0.12	UJ	ng/L	P349696	LCS
		Disulfoton	0.48	U	ng/L	P349696	
		EPTC	1.2	U	ng/L	P349696	
		Ethion	0.14	U	ng/L	P349696	
		Ethoprop	0.096	U	ng/L	P349696	
		Fenamiphos	0.24	U	ng/L	P349696	
		Fipronil	1.8		ng/L	P349696	
		Fipronil Sulfide	1.4		ng/L	P349696	
		Fipronil Sulfone	4.6		ng/L	P349696	
		Hexazinone	0.48	U	ng/L	P349696	
		Malathion	0.33	U	ng/L	P349696	
		Metribuzin	0.19	U	ng/L	P349696	
		Mevinphos	0.48	U	ng/L	P349696	
		Molinate	0.29	U	ng/L	P349696	
		Norflurazon	0.48	U	ng/L	P349696	
		Pendimethalin	0.96	U	ng/L	P349696	

Field ID: G2CE0135

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011924	EPA 8270D	Phorate	0.24	U	ng/L	P349696	
		Prometon	2.3	I	ng/L	P349696	
		Prometryn	0.19	U	ng/L	P349696	
		Simazine	0.48	U	ng/L	P349696	
		Terbufos	0.096	U	ng/L	P349696	
		Terbuthylazine	0.41	U	ng/L	P349696	
		Fonofos	0.19	U	ng/L	P349696	
		Metalaxyl	0.24	U	ng/L	P349696	
		Metolachlor	0.24	U	ng/L	P349696	
		Acetochlor	0.24	U	ng/L	P349696	
		Cyanazine	0.48	U	ng/L	P349696	
		Parathion Ethyl	0.24	U	ng/L	P349696	
		Parathion Methyl	0.24	U	ng/L	P349696	

Ref. Method and Comment:

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

EPA 8270D: MS accuracy for Atrazine, Fipronil, Fipronil Sulfide and Fipronil Sulfone 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: Greenwood Lake West Lobe @ 250m SW of Center

Collection Date/Time: 07/30/2018 10:30

Field ID: G2CE0136

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011870	EPA 180.1 Rev. 2.0	Turbidity	4.5		NTU	P349463	
	EPA 300.0 Rev. 2.1	Chloride	24	A	mg Cl/L	P349593	MS
		Sulfate	5.3	A	mg SO4/L	P349596	
	SM 2120 B	Color (true)	30		PCU	P349458	
	SM 2320 B-97	Total Alkalinity	38		mg CaCO3/L	P349652	
	SM 2540 C-97	TDS	101		mg/L	P349795	
	SM 2540 D-97	TSS	6	I	mg/L	P349950	
	SM 4500 F-C-97	Fluoride	0.048	I	mg F/L	P349655	
2011877	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P349573	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P349470	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P349491	
	EPA 365.1 Rev. 2.0	Total-P	0.044		mg P/L	P349560	
	SM 5310 B-00	Organic Carbon	9.7		mg C/L	P349691	
2011884	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P349454	
2011930	EPA 200.7 Rev. 4.4	Calcium	15.2		mg/L	P349496	
		Iron	78	I	ug/L	P349496	
		Magnesium	2.18		mg/L	P349496	
		Potassium	2.5		mg/L	P349496	
		Sodium	15.8		mg/L	P349496	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P349496	
		Arsenic	0.68		ug/L	P349496	
		Cadmium	0.020	U	ug/L	P349496	
		Chromium	0.40	U	ug/L	P349496	
		Copper	1.68		ug/L	P349496	
		Lead	0.060	I	ug/L	P349496	
		Nickel	0.20	U	ug/L	P349496	
		Silver	0.010	U	ug/L	P349496	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Greenwood Lake West Lobe @ Center

Collection Date/Time: 07/30/2018 10:20

Field ID: G2CE0112

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011871	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P349463	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P349593	MS
		Sulfate	5.7		mg SO4/L	P349596	
	SM 2120 B	Color (true)	32		PCU	P349458	
	SM 2320 B-97	Total Alkalinity	40		mg CaCO3/L	P349652	
	SM 2540 C-97	TDS	111		mg/L	P349796	
	SM 2540 D-97	TSS	4	I	mg/L	P349951	
	SM 4500 F-C-97	Fluoride	0.047	I	mg F/L	P349655	
2011878	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P349573	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.92		mg N/L	P349470	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P349491	
	EPA 365.1 Rev. 2.0	Total-P	0.032		mg P/L	P349560	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P349691	
2011885	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P349454	
2011931	EPA 200.7 Rev. 4.4	Calcium	16.0		mg/L	P349496	
		Iron	77	I	ug/L	P349496	
		Magnesium	2.31		mg/L	P349496	
		Potassium	2.6		mg/L	P349496	
		Sodium	16.7		mg/L	P349496	
		Zinc	5.0	U	ug/L	P349496	
	EPA 200.8 Rev. 5.4	Arsenic	0.72		ug/L	P349496	
		Cadmium	0.020	U	ug/L	P349496	
		Chromium	0.40	U	ug/L	P349496	
		Copper	0.95		ug/L	P349496	
		Lead	0.068	I	ug/L	P349496	
		Nickel	0.20	U	ug/L	P349496	
		Silver	0.010	U	ug/L	P349496	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Lake Searcy @ Center

Collection Date/Time: 07/30/2018 12:10

Field ID: G2CE0137

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011890	EPA 180.1 Rev. 2.0	Turbidity	6.6	A	NTU	P349464	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P349593	MS
		Sulfate	3.6		mg SO4/L	P349596	
	SM 2120 B	Color (true)	63	A	PCU	P349459	
	SM 2320 B-97	Total Alkalinity	28		mg CaCO3/L	P349652	
	SM 2540 C-97	TDS	111		mg/L	P349796	
	SM 2540 D-97	TSS	6	I	mg/L	P349951	
	SM 4500 F-C-97	Fluoride	0.077	I	mg F/L	P349655	
2011891	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P349574	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P349471	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P349492	
	EPA 365.1 Rev. 2.0	Total-P	0.073		mg P/L	P349561	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P349691	
2011892	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P349454	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

Sample Location: Lake McCoy @ 220m SW of Center of Southern Lobe **Collection Date/Time: 07/30/2018 13:35**

Field ID: G2CE0144

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011872	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P349463	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P349593	MS
		Sulfate	16		mg SO4/L	P349596	
		Color (true)	44		PCU	P349458	
	SM 2320 B-97	Total Alkalinity	35		mg CaCO3/L	P349652	
	SM 2540 C-97	TDS	104		mg/L	P349796	
	SM 2540 D-97	TSS	3	I	mg/L	P349951	
	SM 4500 F-C-97	Fluoride	0.047	I	mg F/L	P349655	
2011879	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P349573	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.62		mg N/L	P349470	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P349491	
	EPA 365.1 Rev. 2.0	Total-P	0.022		mg P/L	P349560	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P349691	
2011886	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P349454	
2011932	EPA 200.7 Rev. 4.4	Calcium	18.2		mg/L	P349496	
		Iron	41	I	ug/L	P349496	
		Magnesium	3.12		mg/L	P349496	
		Potassium	1.8		mg/L	P349496	
		Sodium	9.6		mg/L	P349496	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P349496	
		Arsenic	2.12		ug/L	P349496	
		Cadmium	0.020	U	ug/L	P349496	
		Chromium	0.40	U	ug/L	P349496	
		Copper	0.52	I	ug/L	P349496	
		Lead	0.050	U	ug/L	P349496	
		Nickel	0.20	U	ug/L	P349496	
		Silver	0.010	U	ug/L	P349496	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Lake McCoy @ 245m NE of Center of Southern Lobe **Collection Date/Time: 07/30/2018 13:18**

Field ID: G2CE0145

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011873	EPA 180.1 Rev. 2.0	Turbidity	2.6		NTU	P349463	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P349593	MS
		Sulfate	16		mg SO4/L	P349596	
	SM 2120 B	Color (true)	39		PCU	P349458	
	SM 2320 B-97	Total Alkalinity	33		mg CaCO3/L	P349652	
	SM 2540 C-97	TDS	102		mg/L	P349796	
	SM 2540 D-97	TSS	3	I	mg/L	P349951	
	SM 4500 F-C-97	Fluoride	0.049	I	mg F/L	P349655	
2011880	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P349573	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P349471	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P349492	
	EPA 365.1 Rev. 2.0	Total-P	0.023		mg P/L	P349560	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P349691	
2011887	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P349454	
2011933	EPA 200.7 Rev. 4.4	Calcium	17.6		mg/L	P349496	
		Iron	30	U	ug/L	P349496	
		Magnesium	3.11		mg/L	P349496	
		Potassium	1.7		mg/L	P349496	
		Sodium	9.8		mg/L	P349496	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P349496	
		Arsenic	2.44		ug/L	P349496	
		Cadmium	0.020	U	ug/L	P349496	
		Chromium	0.40	U	ug/L	P349496	
		Copper	0.67	I	ug/L	P349496	
		Lead	0.068	I	ug/L	P349496	
		Nickel	0.20	U	ug/L	P349496	
		Silver	0.010	U	ug/L	P349496	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

Sample Location: Lake McCoy @ Center of North Lobe

Collection Date/Time: 07/30/2018 13:57

Field ID: G2CE0171

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011874	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P349463	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P349593	MS
		Sulfate	17		mg SO4/L	P349596	
	SM 2120 B	Color (true)	68		PCU	P349458	
	SM 2320 B-97	Total Alkalinity	36		mg CaCO3/L	P349652	
	SM 2540 C-97	TDS	108		mg/L	P349796	
	SM 2540 D-97	TSS	3	I	mg/L	P349951	
	SM 4500 F-C-97	Fluoride	0.049	I	mg F/L	P349655	
2011881	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P349574	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P349471	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P349492	
	EPA 365.1 Rev. 2.0	Total-P	0.034		mg P/L	P349560	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P349691	
2011888	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P349454	
2011934	EPA 200.7 Rev. 4.4	Calcium	19.3		mg/L	P349496	
		Iron	47	I	ug/L	P349496	
		Magnesium	3.23		mg/L	P349496	
		Potassium	1.9		mg/L	P349496	
		Sodium	10.1		mg/L	P349496	
		Zinc	6.6	I	ug/L	P349496	
	EPA 200.8 Rev. 5.4	Arsenic	1.95		ug/L	P349496	
		Cadmium	0.020	U	ug/L	P349496	
		Chromium	0.42	I	ug/L	P349496	
		Copper	1.54		ug/L	P349496	
		Lead	0.050	U	ug/L	P349496	
		Nickel	0.20	U	ug/L	P349496	
		Silver	0.010	U	ug/L	P349496	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

Sample Location: Lake McCoy @ Center of Southern Lobe

Collection Date/Time: 07/30/2018 13:27

Field ID: G2CE0098

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2011875	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P349463	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P349593	MS
		Sulfate	17		mg SO4/L	P349596	
	SM 2120 B	Color (true)	40		PCU	P349458	
	SM 2320 B-97	Total Alkalinity	34		mg CaCO3/L	P349652	
	SM 2540 C-97	TDS	100	A	mg/L	P349796	
	SM 2540 D-97	TSS	3	IA	mg/L	P349951	
	SM 4500 F-C-97	Fluoride	0.049	I	mg F/L	P349655	
2011882	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P349574	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P349471	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P349492	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P349560	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P349691	
2011889	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P349454	
2011935	EPA 200.7 Rev. 4.4	Calcium	17.9		mg/L	P349496	
		Iron	33	I	ug/L	P349496	
		Magnesium	3.07		mg/L	P349496	
		Potassium	1.7		mg/L	P349496	
		Sodium	9.6		mg/L	P349496	
		Zinc	5.0	U	ug/L	P349496	
	EPA 200.8 Rev. 5.4	Arsenic	2.32		ug/L	P349496	
		Cadmium	0.020	U	ug/L	P349496	
		Chromium	0.40	U	ug/L	P349496	
		Copper	0.57	I	ug/L	P349496	
		Lead	0.050	U	ug/L	P349496	
		Nickel	0.20	U	ug/L	P349496	
		Silver	0.010	U	ug/L	P349496	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349463

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349464

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P349496

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: P349496

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: P349592

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349593

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349595

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349596

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349573

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349574

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349470

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349471

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349491

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349492

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349560

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349561

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349454

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

Reference Method: EPA 8270D
Batch ID: P349696

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	2.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.50	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.25	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270D
Batch ID: P349755

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D

Batch ID: P349755

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

Reference Method: EPA 8276

Batch ID: P349755

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

Reference Method: EPA 8321B

Batch ID: P349361

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	8.0E-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
Ibuprofen	0.020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P349361

Component	Result	Code	Units
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
Naproxen	0.0080	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: P349535

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: P349458

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P349459

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P349651

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

Reference Method: SM 2320 B-97
Batch ID: P349652

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

Reference Method: SM 2540 C-97
Batch ID: P349795

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P349795

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P349796

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P349950

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P349951

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P349654

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P349655

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P349690

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

Reference Method: SM 5310 B-00
Batch ID: P349691

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: P349496

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	108		P	85 - 115
Magnesium	111		P	85 - 115
Potassium	106		P	85 - 115
Sodium	103		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349496

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	100		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	94.3		P	85 - 115
Copper	95.4		P	85 - 115
Lead	95.4		P	85 - 115
Nickel	97.5		P	85 - 115
Silver	97.3		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349592

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349593

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349595

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349596

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349573

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.7		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349574

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349470

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349471

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349491

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: P349492

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: P349560

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349561

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349454

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

Reference Method: EPA 8270D
Batch ID: P349696

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	110	114	P/P	74 - 119
Alachlor	110	114	P/P	75 - 118
Ametryn	104	108	P/P	59 - 137
Atrazine	106	110	P/P	73 - 120

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P349696

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine Desethyl	98.1	95.8	P/P	19 - 129
Azinphos Methyl	125	129	P/P	65 - 181
Bromacil	102	107	P/P	43 - 123
Butylate	79.3	66.6	P/P	28 - 85.0
Chlorpyrifos Ethyl	101	104	P/P	55 - 112
Chlorpyrifos Methyl	106	108	P/P	35 - 124
Cyanazine	130	128	P/P	26 - 262
Demeton	93.2	87.2	P/P	43 - 122
Diazinon	115	120	P/F	72 - 120
Disulfoton	99.3	110	P/P	45 - 137
EPTC	77.9	62.6	P/P	28 - 95.0
Ethion	101	100	P/P	63 - 127
Ethoprop	96.7	99.8	P/P	63 - 109
Fenamiphos	105	111	P/P	66 - 136
Fipronil	103	108	P/P	63 - 126
Fipronil Sulfide	91.9	95.6	P/P	59 - 123
Fipronil Sulfone	86.5	88.6	P/P	56 - 122
Fonofos	103	109	P/P	64 - 114
Hexazinone	104	111	P/P	49 - 144
Malathion	103	107	P/P	68 - 131
Metalaxyl	107	110	P/P	57 - 126
Metolachlor	107	108	P/P	75 - 118
Metribuzin	130	128	P/P	46 - 169
Mevinphos	92.1	98.7	P/P	34 - 126
Molinate	89.5	80.5	P/P	37 - 101
Norflurazon	99.0	106	P/P	63 - 127
Parathion Ethyl	105	105	P/P	78 - 109
Parathion Methyl	109	112	P/P	74 - 123
Pendimethalin	124	128	P/P	51 - 130
Phorate	91.8	93.3	P/P	53 - 116
Prometon	100	104	P/P	66 - 124
Prometryn	104	106	P/P	66 - 124
Simazine	111	113	P/P	62 - 134
Terbufos	97.4	101	P/P	59 - 115
Terbuthylazine	106	106	P/P	76 - 113

Reference Method: EPA 8270D

Batch ID: P349755

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	58.7	47.0	P/P	24 - 89.0
Alpha-BHC	92.2	87.6	P/P	58 - 117
Alpha-Chlordane	88.1	73.7	P/P	56 - 115
Beta-BHC	105	100	P/P	55 - 137
Carbophenothion	66.5	61.3	P/P	37 - 145
Chlorothalonil	78.4	77.0	P/P	26 - 163
Cypermethrin	70.0	47.6	P/P	42 - 156
DDD-p,p'	102	86.7	P/P	59 - 129
DDE-p,p'	90.8	72.6	P/P	52 - 117
DDT-p,p'	93.3	76.9	P/P	48 - 128
Delta-BHC	111	110	P/P	59 - 158
Dicofol	92.3	90.9	P/P	19 - 124

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P349755

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dieldrin	97.6	85.5	P/P	57 - 126
Endosulfan I	100	91.9	P/P	59 - 133
Endosulfan II	100	95.9	P/P	58 - 148
Endosulfan Sulfate	102	102	P/P	56 - 135
Endrin	99.1	92.2	P/P	50 - 140
Endrin Aldehyde	108	105	P/P	47 - 141
Endrin Ketone	101	108	P/P	63 - 123
Gamma-BHC	85.4	99.8	P/P	59 - 132
Gamma-Chlordane	82.9	67.6	P/P	55 - 112
Heptachlor	75.2	58.3	P/P	45 - 102
Heptachlor Epoxide	91.6	84.7	P/P	61 - 116
Methoxychlor	102	97.1	P/P	60 - 133
Mirex	75.5	43.7	P/P	40 - 98.0
Permethrin	75.1	47.9	P/P	45 - 131
Trifluralin	80.8	66.2	P/P	38 - 179

Reference Method: EPA 8276

Batch ID: P349755

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	76.0	71.3	P/P	47 - 125
Toxaphene	77.4	84.1	P/P	46 - 147

Reference Method: EPA 8321B

Batch ID: P349361

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	126		P	40 - 150
3-Hydroxycarbofuran	98.4		P	40 - 150
Acetaminophen	85.6		P	30 - 150
Aldicarb	70.3		P	30 - 150
Aldicarb Sulfone	89.6		P	40 - 150
Aldicarb Sulfoxide	88.3		P	40 - 150
Bentazon	88.1		P	30 - 150
Carbamazepine	115		P	40 - 150
Carbaryl	88.3		P	40 - 150
Carbofuran	98.5		P	40 - 150
Diuron	90.5		P	40 - 150
Fenuron	105		P	40 - 150
Fluridone	105		P	40 - 150
Hydrocodone	98.0		P	40 - 150
Ibuprofen	112		P	40 - 150
Imazapyr	108		P	40 - 150
Imidacloprid	98.7		P	40 - 160
Linuron	80.2		P	40 - 150
MCPP	126		P	40 - 150
Methiocarb	87.3		P	40 - 150
Methomyl	112		P	40 - 150
Naproxen	120		P	40 - 150
Oxamyl	86.6		P	40 - 150
Primidone	115		P	40 - 150
Propoxur	96.3		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P349361

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	86.9		P	40 - 150
Triclopyr	133		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P349535

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 140
AMPA	80.1		P	40 - 140
Endothall	102		P	40 - 140
Glufosinate	99.0		P	40 - 140
Glyphosate	79.7		P	40 - 140
Sucralose	114		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P349458

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.9		P	85 - 115

Reference Method: SM 2120 B
Batch ID: P349459

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.6		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P349651

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

Reference Method: SM 2320 B-97
Batch ID: P349652

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

Reference Method: SM 4500 F-C-97
Batch ID: P349654

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.2		P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P349655

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P349690

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.9		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P349691

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P349496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011929	Calcium	104		P	80 - 120
2011929	Iron	110		P	80 - 120
2011929	Magnesium	113		P	80 - 120
2011929	Potassium	110		P	80 - 120
2011929	Sodium	103		P	80 - 120
2011929	Zinc	105		P	80 - 120
2011931	Calcium	106		P	80 - 120
2011931	Iron	108	107	P/P	80 - 120
2011931	Magnesium	110	108	P/P	80 - 120
2011931	Potassium	105	103	P/P	80 - 120
2011931	Sodium	104		P	80 - 120
2011931	Zinc	105	102	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011929	Arsenic	102		P	80 - 120
2011929	Cadmium	102		P	80 - 120
2011929	Chromium	95.9		P	80 - 120
2011929	Copper	96.4		P	80 - 120
2011929	Lead	96.9		P	80 - 120
2011929	Nickel	98.8		P	80 - 120
2011929	Silver	96.4		P	80 - 120
2011931	Arsenic	106	104	P/P	80 - 120
2011931	Cadmium	105	105	P/P	80 - 120
2011931	Chromium	98.6	97.7	P/P	80 - 120
2011931	Copper	99.4	98.8	P/P	80 - 120
2011931	Lead	98.0	98.2	P/P	80 - 120
2011931	Nickel	102	100	P/P	80 - 120
2011931	Silver	98.4	95.3	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349592

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011483	Chloride	102		P	90 - 110
2011594	Chloride	108		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349593

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011870	Chloride	99.0		P	90 - 110
2011973	Chloride	113		F	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349595

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011483	Sulfate	99.8		P	90 - 110
2011594	Sulfate	104		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349596

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011870	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349573

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011876	Ammonia-N	92.6	91.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349574

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011881	Ammonia-N	95.2	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349471

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011977	Kjeldahl Nitrogen	97.1	97.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349491

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011876	NO2NO3-N	102	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349492

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011880	NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349560

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011876	Total-P	95.5	95.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349561

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011976	Total-P	99.2	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349454

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011883	O-Phosphate-P	94.3	97.8	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P349696

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012191	Acetochlor	102	109	P/P	67 - 125
2012191	Alachlor	101	114	P/P	69 - 123
2012191	Ametryn	117	128	P/P	52 - 151
2012191	Atrazine Desethyl	61.0	56.9	P/P	10 - 129
2012191	Azinphos Methyl	97.9	102	P/P	48 - 200
2012191	Bromacil	83.9	85.0	P/P	46 - 130
2012191	Butylate	60.6	70.4	P/P	10 - 85.0
2012191	Chlorpyrifos Ethyl	93.7	102	P/P	54 - 115
2012191	Chlorpyrifos Methyl	90.8	103	P/P	44 - 117
2012191	Cyanazine	90.9	85.2	P/P	10 - 262
2012191	Demeton	83.6	94.2	P/P	24 - 145
2012191	Diazinon	107	119	P/P	66 - 129
2012191	Disulfoton	89.2	97.9	P/P	45 - 139
2012191	EPTC	62.9	73.3	P/P	10 - 86.0
2012191	Ethion	92.5	104	P/P	59 - 133
2012191	Ethoprop	84.5	91.5	P/P	54 - 116
2012191	Fenamiphos	85.0	100	P/P	55 - 140
2012191	Fonofos	89.2	105	P/P	55 - 118
2012191	Hexazinone	102	108	P/P	62 - 140
2012191	Malathion	94.2	104	P/P	64 - 132
2012191	Metaxyl	94.7	99.9	P/P	55 - 129
2012191	Metolachlor	98.7	107	P/P	56 - 137
2012191	Metribuzin	113	118	P/P	16 - 218
2012191	Mevinphos	85.3	93.1	P/P	34 - 129
2012191	Molinate	78.6	91.8	P/P	16 - 99.0
2012191	Norflurazon	81.9	82.6	P/P	43 - 135
2012191	Parathion Ethyl	92.3	104	P/P	71 - 112
2012191	Parathion Methyl	97.8	105	P/P	65 - 127
2012191	Pendimethalin	125	140	P/P	35 - 159
2012191	Phorate	78.5	90.3	P/P	41 - 129
2012191	Prometon	93.5	100	P/P	56 - 140
2012191	Prometryn	93.5	101	P/P	65 - 130
2012191	Simazine	99.1	104	P/P	54 - 148
2012191	Terbufos	90.4	104	P/P	53 - 126
2012191	Terbuthylazine	93.1	102	P/P	73 - 114

Reference Method: EPA 8270D

Batch ID: P349755

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012798	Aldrin	75.6	61.5	P/P	26 - 96.0
2012798	Alpha-BHC	90.8	90.6	P/P	51 - 123
2012798	Alpha-Chlordane	87.1	78.4	P/P	45 - 120
2012798	Beta-BHC	99.1	113	P/P	43 - 146
2012798	Carbophenothion	105	90.6	P/P	26 - 179
2012798	Chlorothalonil	74.9	85.6	P/P	10 - 215
2012798	Cypermethrin	85.6	78.3	P/P	35 - 169
2012798	DDD-p,p'	96.0	92.5	P/P	49 - 131
2012798	DDE-p,p'	85.1	77.4	P/P	39 - 127
2012798	DDT-p,p'	94.0	84.0	P/P	49 - 120
2012798	Delta-BHC	133	129	P/P	49 - 187
2012798	Dicofol	95.4	83.7	P/P	10 - 129

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
 Batch ID: P349755

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012798	Dieldrin	95.1	85.2	P/P	46 - 132
2012798	Endosulfan I	106	95.2	P/P	57 - 130
2012798	Endosulfan II	99.8	96.9	P/P	52 - 148
2012798	Endosulfan Sulfate	93.3	110	P/P	55 - 129
2012798	Endrin	93.5	90.4	P/P	45 - 133
2012798	Endrin Aldehyde	59.5	78.6	P/P	26 - 140
2012798	Endrin Ketone	109	103	P/P	60 - 125
2012798	Gamma-BHC	118	89.1	P/P	50 - 145
2012798	Gamma-Chlordane	83.5	74.1	P/P	44 - 118
2012798	Heptachlor	76.0	64.8	P/P	35 - 106
2012798	Heptachlor Epoxide	95.2	88.4	P/P	52 - 123
2012798	Methoxychlor	109	98.9	P/P	54 - 132
2012798	Mirex	83.5	66.9	P/P	36 - 107
2012798	Permethrin	89.1	72.5	P/P	47 - 135
2012798	Trifluralin	80.4	74.2	P/P	32 - 228

Reference Method: EPA 8276
 Batch ID: P349755

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011923	Chlordane	65.6	66.4	P/P	41 - 134
2011923	Toxaphene	55.7	57.8	P/P	39 - 158

Reference Method: EPA 8321B
 Batch ID: P349361

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011588	2,4-D	124	153	P/F	40 - 150
2011588	3-Hydroxycarbofuran	76.4	80.6	P/P	40 - 150
2011588	Acetaminophen	81.1	88.4	P/P	30 - 150
2011588	Aldicarb	67.7	60.5	P/P	30 - 150
2011588	Aldicarb Sulfone	90.7	106	P/P	40 - 150
2011588	Aldicarb Sulfoxide	90.7	93.0	P/P	40 - 150
2011588	Bentazon	46.6	45.3	P/P	30 - 150
2011588	Carbamazepine	71.8	68.5	P/P	40 - 150
2011588	Carbaryl	44.7	57.3	P/P	40 - 150
2011588	Carbofuran	67.3	50.9	P/P	40 - 150
2011588	Diuron	60.6	47.7	P/P	40 - 150
2011588	Fenuron	87.3	85.3	P/P	40 - 150
2011588	Fluridone	93.2	74.2	P/P	40 - 150
2011588	Hydrocodone	81.9	81.0	P/P	40 - 150
2011588	Ibuprofen	73.6	74.9	P/P	40 - 150
2011588	Imazapyr	101	88.9	P/P	40 - 150
2011588	Imidacloprid	134	149	P/P	40 - 160
2011588	Linuron	48.6	59.1	P/P	40 - 150
2011588	MCPP	121	119	P/P	40 - 150
2011588	Methiocarb	61.0	58.7	P/P	40 - 150
2011588	Methomyl	89.3	86.1	P/P	40 - 150
2011588	Naproxen	103	96.9	P/P	40 - 150
2011588	Oxamyl	74.6	94.9	P/P	40 - 150
2011588	Primidone	87.6	82.0	P/P	40 - 150
2011588	Propoxur	63.7	60.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P349361

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011588	Pyraclostrobin	75.3	75.1	P/P	40 - 150
2011588	Triclopyr	121	121	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P349535

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011995	Acesulfame K	137	96.5	P/P	40 - 140
2011995	Endothall	86.8	80.1	P/P	40 - 140
2011995	Sucralose	111	109	P/P	40 - 150
2012183	AMPA	65.9	64.4	P/P	40 - 140
2012183	Glufosinate	82.1	74.4	P/P	40 - 140
2012183	Glyphosate	78.8	76.1	P/P	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P349654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2012258	Fluoride	98.2	97.6	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P349655

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011974	Fluoride	102	102	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P349690

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011652	Organic Carbon	96.0	95.3	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P349691

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2011976	Organic Carbon	94.0	95.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011836	Turbidity	5.32	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349464

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011890	Turbidity	1.22	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P349496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011931	Calcium	1.48	Spike	P	0 - 20
2011931	Iron	1.04	Spike	P	0 - 20
2011931	Magnesium	0.990	Spike	P	0 - 20
2011931	Potassium	0.826	Spike	P	0 - 20
2011931	Sodium	0.705	Spike	P	0 - 20
2011931	Zinc	3.08	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011931	Arsenic	1.31	Spike	P	0 - 20
2011931	Cadmium	0.318	Spike	P	0 - 20
2011931	Chromium	0.877	Spike	P	0 - 20
2011931	Copper	0.580	Spike	P	0 - 20
2011931	Lead	0.197	Spike	P	0 - 20
2011931	Nickel	1.82	Spike	P	0 - 20
2011931	Silver	3.27	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349592

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011483	Chloride	4.04	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349593

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011870	Chloride	0.772	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349595

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011483	Sulfate	3.88	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349596

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011870	Sulfate	1.99	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349573

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011876	Ammonia-N	1.11	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349574

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011881	Ammonia-N	3.74	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349470

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011656	Kjeldahl Nitrogen	5.33	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349471

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011977	Kjeldahl Nitrogen	0.438	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349491

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011876	NO2NO3-N	1.46	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349492

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011880	NO2NO3-N	0.487	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349560

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011876	Total-P	0.220	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349561

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011976	Total-P	2.54	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349454

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011883	O-Phosphate-P	3.64	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P349696

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012191	Acetochlor	6.97	Spike	P	0 - 30
2012191	Alachlor	11.8	Spike	P	0 - 30
2012191	Ametryn	8.79	Spike	P	0 - 30
2012191	Atrazine	7.93	Spike	P	0 - 30
2012191	Atrazine Desethyl	5.11	Spike	P	0 - 30
2012191	Azinphos Methyl	4.44	Spike	P	0 - 30
2012191	Bromacil	0.949	Spike	P	0 - 30
2012191	Butylate	15.0	Spike	P	0 - 30
2012191	Chlorpyrifos Ethyl	8.87	Spike	P	0 - 30
2012191	Chlorpyrifos Methyl	12.5	Spike	P	0 - 30
2012191	Cyanazine	6.51	Spike	P	0 - 30
2012191	Demeton	11.9	Spike	P	0 - 30
2012191	Diazinon	10.1	Spike	P	0 - 30
2012191	Disulfoton	9.34	Spike	P	0 - 30
2012191	EPTC	15.2	Spike	P	0 - 30
2012191	Ethion	11.4	Spike	P	0 - 30
2012191	Ethoprop	7.94	Spike	P	0 - 30
2012191	Fenamiphos	16.5	Spike	P	0 - 30
2012191	Fipronil	2.97	Spike	P	0 - 30
2012191	Fipronil Sulfide	0.765	Spike	P	0 - 30
2012191	Fipronil Sulfone	3.17	Spike	P	0 - 30
2012191	Fonofos	16.3	Spike	P	0 - 30
2012191	Hexazinone	5.15	Spike	P	0 - 30
2012191	Malathion	9.83	Spike	P	0 - 30
2012191	Metalaxyl	5.27	Spike	P	0 - 30
2012191	Metolachlor	7.75	Spike	P	0 - 30
2012191	Metribuzin	4.31	Spike	P	0 - 30
2012191	Mevinphos	8.76	Spike	P	0 - 30
2012191	Molinate	15.5	Spike	P	0 - 30
2012191	Norflurazon	0.843	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270D

Batch ID: P349696

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012191	Parathion Ethyl	12.0	Spike	P	0 - 30
2012191	Parathion Methyl	7.32	Spike	P	0 - 30
2012191	Pendimethalin	10.9	Spike	P	0 - 30
2012191	Phorate	14.1	Spike	P	0 - 30
2012191	Prometon	5.50	Spike	P	0 - 30
2012191	Prometryn	6.90	Spike	P	0 - 30
2012191	Simazine	3.11	Spike	P	0 - 30
2012191	Terbufos	13.7	Spike	P	0 - 30
2012191	Terbuthylazine	8.66	Spike	P	0 - 30
LFB	Acetochlor	3.35	LCS	P	0 - 30
LFB	Alachlor	3.24	LCS	P	0 - 30
LFB	Ametryn	4.05	LCS	P	0 - 30
LFB	Atrazine	3.88	LCS	P	0 - 30
LFB	Atrazine Desethyl	2.41	LCS	P	0 - 30
LFB	Azinphos Methyl	2.69	LCS	P	0 - 30
LFB	Bromacil	4.09	LCS	P	0 - 30
LFB	Butylate	17.5	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	3.00	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	2.51	LCS	P	0 - 30
LFB	Cyanazine	1.80	LCS	P	0 - 30
LFB	Demeton	6.62	LCS	P	0 - 30
LFB	Diazinon	4.27	LCS	P	0 - 30
LFB	Disulfoton	9.96	LCS	P	0 - 30
LFB	EPTC	21.8	LCS	P	0 - 30
LFB	Ethion	0.313	LCS	P	0 - 30
LFB	Ethoprop	3.13	LCS	P	0 - 30
LFB	Fenamiphos	5.64	LCS	P	0 - 30
LFB	Fipronil	4.54	LCS	P	0 - 30
LFB	Fipronil Sulfide	3.94	LCS	P	0 - 30
LFB	Fipronil Sulfone	2.41	LCS	P	0 - 30
LFB	Fonofos	5.45	LCS	P	0 - 30
LFB	Hexazinone	5.96	LCS	P	0 - 30
LFB	Malathion	3.33	LCS	P	0 - 30
LFB	Metalaxyl	3.37	LCS	P	0 - 30
LFB	Metolachlor	1.30	LCS	P	0 - 30
LFB	Metribuzin	1.73	LCS	P	0 - 30
LFB	Mevinphos	6.85	LCS	P	0 - 30
LFB	Molinate	10.6	LCS	P	0 - 30
LFB	Norflurazon	7.00	LCS	P	0 - 30
LFB	Parathion Ethyl	0.392	LCS	P	0 - 30
LFB	Parathion Methyl	2.19	LCS	P	0 - 30
LFB	Pendimethalin	2.50	LCS	P	0 - 30
LFB	Phorate	1.65	LCS	P	0 - 30
LFB	Prometon	4.22	LCS	P	0 - 30
LFB	Prometryn	1.86	LCS	P	0 - 30
LFB	Simazine	1.72	LCS	P	0 - 30
LFB	Terbufos	4.04	LCS	P	0 - 30
LFB	Terbuthylazine	0.623	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P349755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012798	Aldrin	20.5	Spike	P	0 - 30
2012798	Alpha-BHC	0.290	Spike	P	0 - 30
2012798	Alpha-Chlordane	10.5	Spike	P	0 - 30
2012798	Beta-BHC	13.3	Spike	P	0 - 30
2012798	Carbophenothion	15.0	Spike	P	0 - 30
2012798	Chlorothalonil	13.4	Spike	P	0 - 30
2012798	Cypermethrin	8.95	Spike	P	0 - 30
2012798	DDD-p,p'	3.79	Spike	P	0 - 30
2012798	DDE-p,p'	9.54	Spike	P	0 - 30
2012798	DDT-p,p'	11.3	Spike	P	0 - 30
2012798	Delta-BHC	3.55	Spike	P	0 - 30
2012798	Dicofol	13.0	Spike	P	0 - 30
2012798	Dieldrin	11.0	Spike	P	0 - 30
2012798	Endosulfan I	11.2	Spike	P	0 - 30
2012798	Endosulfan II	2.91	Spike	P	0 - 30
2012798	Endosulfan Sulfate	16.2	Spike	P	0 - 30
2012798	Endrin	3.32	Spike	P	0 - 30
2012798	Endrin Aldehyde	27.7	Spike	P	0 - 30
2012798	Endrin Ketone	6.30	Spike	P	0 - 30
2012798	Gamma-BHC	28.0	Spike	P	0 - 30
2012798	Gamma-Chlordane	11.8	Spike	P	0 - 30
2012798	Heptachlor	15.9	Spike	P	0 - 30
2012798	Heptachlor Epoxide	7.41	Spike	P	0 - 30
2012798	Methoxychlor	9.67	Spike	P	0 - 30
2012798	Mirex	22.0	Spike	P	0 - 30
2012798	Permethrin	20.5	Spike	P	0 - 30
2012798	Trifluralin	7.97	Spike	P	0 - 30
LFB	Aldrin	22.0	LCS	P	0 - 30
LFB	Alpha-BHC	5.12	LCS	P	0 - 30
LFB	Alpha-Chlordane	17.8	LCS	P	0 - 30
LFB	Beta-BHC	5.08	LCS	P	0 - 30
LFB	Carbophenothion	8.14	LCS	P	0 - 30
LFB	Chlorothalonil	1.79	LCS	P	0 - 30
LFB	Cypermethrin	38.2	LCS	F	0 - 30
LFB	DDD-p,p'	16.5	LCS	P	0 - 30
LFB	DDE-p,p'	22.3	LCS	P	0 - 30
LFB	DDT-p,p'	19.3	LCS	P	0 - 30
LFB	Delta-BHC	0.228	LCS	P	0 - 30
LFB	Dicofol	1.60	LCS	P	0 - 30
LFB	Dieldrin	13.3	LCS	P	0 - 30
LFB	Endosulfan I	8.45	LCS	P	0 - 30
LFB	Endosulfan II	4.18	LCS	P	0 - 30
LFB	Endosulfan Sulfate	0.190	LCS	P	0 - 30
LFB	Endrin	7.20	LCS	P	0 - 30
LFB	Endrin Aldehyde	2.76	LCS	P	0 - 30
LFB	Endrin Ketone	6.72	LCS	P	0 - 30
LFB	Gamma-BHC	15.6	LCS	P	0 - 30
LFB	Gamma-Chlordane	20.3	LCS	P	0 - 30
LFB	Heptachlor	25.2	LCS	P	0 - 30
LFB	Heptachlor Epoxide	7.79	LCS	P	0 - 30
LFB	Methoxychlor	4.50	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P349755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mirex	53.3	LCS	F	0 - 30
LFB	Permethrin	44.3	LCS	F	0 - 30
LFB	Trifluralin	19.8	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P349755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011923	Chlordane	1.11	Spike	P	0 - 30
2011923	Toxaphene	3.81	Spike	P	0 - 30
LFB	Chlordane	6.36	LCS	P	0 - 30
LFB	Toxaphene	8.29	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P349361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011588	2,4-D	14.7	Spike	P	0 - 30
2011588	3-Hydroxycarbofuran	5.35	Spike	P	0 - 30
2011588	Acetaminophen	8.52	Spike	P	0 - 30
2011588	Aldicarb	11.2	Spike	P	0 - 30
2011588	Aldicarb Sulfone	15.5	Spike	P	0 - 30
2011588	Aldicarb Sulfoxide	2.50	Spike	P	0 - 30
2011588	Bentazon	2.31	Spike	P	0 - 30
2011588	Carbamazepine	4.61	Spike	P	0 - 30
2011588	Carbaryl	24.6	Spike	P	0 - 30
2011588	Carbofuran	27.7	Spike	P	0 - 30
2011588	Diuron	21.9	Spike	P	0 - 30
2011588	Fenuron	2.34	Spike	P	0 - 30
2011588	Fluridone	9.41	Spike	P	0 - 30
2011588	Hydrocodone	1.06	Spike	P	0 - 30
2011588	Ibuprofen	1.74	Spike	P	0 - 30
2011588	Imazapyr	4.03	Spike	P	0 - 30
2011588	Imidacloprid	6.51	Spike	P	0 - 30
2011588	Linuron	19.4	Spike	P	0 - 30
2011588	MCPP	1.76	Spike	P	0 - 30
2011588	Methiocarb	3.83	Spike	P	0 - 30
2011588	Methomyl	3.69	Spike	P	0 - 30
2011588	Naproxen	6.02	Spike	P	0 - 30
2011588	Oxamyl	23.9	Spike	P	0 - 30
2011588	Primidone	6.60	Spike	P	0 - 30
2011588	Propoxur	4.50	Spike	P	0 - 30
2011588	Pyraclostrobin	0.342	Spike	P	0 - 30
2011588	Triclopyr	0.157	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P349535

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011995	Acesulfame K	34.6	Spike	F	0 - 30
2011995	Endothall	8.09	Spike	P	0 - 30
2011995	Sucralose	1.55	Spike	P	0 - 30
2012183	AMPA	1.93	Spike	P	0 - 30
2012183	Glufosinate	9.80	Spike	P	0 - 30
2012183	Glyphosate	2.95	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P349458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011869	Color (true)	0.416	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P349459

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011890	Color (true)	0.649	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P349651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012258	Total Alkalinity	0.275	Sample	P	0 - 1.6

Reference Method: SM 2320 B-97
Batch ID: P349652

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011974	Total Alkalinity	1.13	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P349795

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011869	TDS	5.22	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P349796

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011875	TDS	4.00	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
Batch ID: P349654

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2012258	Fluoride	0.474	Spike	P	0 - 3.5

Reference Method: SM 4500 F-C-97
Batch ID: P349655

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011974	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P349690

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011652	Organic Carbon	0.565	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P349691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2011976	Organic Carbon	1.43	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: 2011921
Field Sample ID: G2CE0135

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	52.8	P	30 - 160

Lab Sample ID: 2011922
Field Sample ID: G2CE0135

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	140	P	30 - 160
EPA 8321B	Acetaminophen-d4	80.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	61.0	P	30 - 160
EPA 8321B	Diuron-d6	52.7	P	30 - 160
EPA 8321B	Endothall-d6	134	P	40 - 160
EPA 8321B	Endothall-d6	134	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	91.7	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	91.7	P	40 - 160
EPA 8321B	Ibuprofen-d3	98.1	P	30 - 160
EPA 8321B	Primidone-d5	93.9	P	30 - 160
EPA 8321B	Sucralose-d6	152	P	40 - 160
EPA 8321B	Sucralose-d6	152	P	40 - 160

Lab Sample ID: 2011923
Field Sample ID: G2CE0135

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	65.8	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	53.8	P	34 - 101
EPA 8276	Decachlorobiphenyl	55.4	P	31 - 108
EPA 8276	PCNB	85.1	P	62 - 142

Lab Sample ID: 2011924
Field Sample ID: G2CE0135

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	94.6	P	71 - 126
EPA 8270D	Terbufos-d10	115	P	59 - 149

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A85560

Included Lab Sample IDs: 2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A85586

Included Lab Sample IDs: 2011883, 2011884, 2011885, 2011886, 2011887, 2011888, 2011889, 2011892

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.9	98.6	P/P	90 - 110
O-Phosphate-P	98.2	97.8	P/P	90 - 110
O-Phosphate-P	98.6	98.2	P/P	90 - 110
O-Phosphate-P	99.1	97.9	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A85589

Included Lab Sample IDs: 2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 115
Color (true)	99.1	101	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A85591

Included Lab Sample IDs: 2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	102	P/P	95 - 105
Turbidity	102	102	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A85611

Included Lab Sample IDs: 2011876, 2011877, 2011878, 2011879, 2011880, 2011881, 2011882, 2011891

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110
NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A85631

Included Lab Sample IDs: 2011876, 2011877, 2011878, 2011879, 2011880, 2011881, 2011882, 2011891

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	94.2	P/P	90 - 110
Kjeldahl Nitrogen	94.2	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A85648

Included Lab Sample IDs: 2011876, 2011877, 2011878, 2011879, 2011880, 2011881, 2011882, 2011891

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	96.2	P/P	90 - 110
Ammonia-N	96.2	101	P/P	90 - 110
Ammonia-N	99.2	101	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A85663

Included Lab Sample IDs: 2011929, 2011930, 2011931, 2011932, 2011933, 2011934, 2011935

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A85666

Included Lab Sample IDs: 2011891

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	99.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A85668

Included Lab Sample IDs: 2011876, 2011877, 2011878, 2011879, 2011880, 2011881, 2011882

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

Reference Method: EPA 8321B

Run ID: A85681

Included Lab Sample IDs: 2011922

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	90.3	85.5	P/P	60 - 150
Glufosinate	112	109	P/P	60 - 150
Glyphosate	98.6	98.4	P/P	60 - 150

Reference Method: EPA 8321B

Run ID: A85682

Included Lab Sample IDs: 2011922

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	109	93.6	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A85682
Included Lab Sample IDs: 2011922

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endothall	109	76.6	P/P	60 - 150

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A85689
Included Lab Sample IDs: 2011929, 2011930, 2011931, 2011932, 2011933, 2011934, 2011935

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	102	104	P/P	90 - 110
Cadmium	100	102	P/P	90 - 110
Chromium	98.5	98.0	P/P	90 - 110
Copper	100	101	P/P	90 - 110
Lead	97.2	97.5	P/P	90 - 110
Nickel	99.7	101	P/P	90 - 110
Silver	95.5	96.1	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A85692
Included Lab Sample IDs: 2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	104	P/P	90 - 110
Total Alkalinity	103	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A85692
Included Lab Sample IDs: 2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.1	99.5	P/P	90 - 110
Fluoride	99.5	100	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A85704
Included Lab Sample IDs: 2011876, 2011877, 2011878, 2011879, 2011880, 2011881, 2011882, 2011891

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.4	99.0	P/P	90 - 110
Organic Carbon	98.6	98.4	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A85787
Included Lab Sample IDs: 2011922

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	99.0	106	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A85801
Included Lab Sample IDs: 2011921

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

Reference Method: EPA 8321B

Run ID: A85801

Included Lab Sample IDs: 2011921

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	109	111	P/P	50 - 150
Acetaminophen	114	113	P/P	60 - 160
Aldicarb	99.2	105	P/P	60 - 150
Aldicarb Sulfone	103	117	P/P	50 - 150
Aldicarb Sulfoxide	104	89.8	P/P	50 - 150
Carbamazepine	109	101	P/P	60 - 160
Carbaryl	102	87.3	P/P	60 - 150
Carbofuran	110	99.1	P/P	50 - 150
Diuron	97.0	92.0	P/P	60 - 150
Fenuron	104	101	P/P	60 - 150
Fluridone	103	100	P/P	60 - 160
Hydrocodone	93.6	96.3	P/P	60 - 150
Imazapyr	94.8	87.1	P/P	50 - 150
Imidacloprid	96.2	95.8	P/P	60 - 150
Linuron	97.4	94.2	P/P	60 - 150
Methiocarb	129	118	P/P	50 - 150
Methomyl	105	139	P/P	50 - 150
Oxamyl	111	88.9	P/P	50 - 150
Primidone	97.8	110	P/P	60 - 150
Propoxur	112	117	P/P	50 - 150
Pyraclostrobin	90.0	85.0	P/P	60 - 150

Reference Method: EPA 8270D

Run ID: A85803

Included Lab Sample IDs: 2011923

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.2		P	80 - 120
Alpha-BHC	97.4		P	80 - 120
Alpha-Chlordane	97.6		P	80 - 120
Beta-BHC	98.3		P	80 - 120
Carbophenothion	87.1		P	80 - 120
Chlorothalonil	96.8		P	80 - 120
Cypermethrin	91.2		P	80 - 120
DDD-p,p'	102		P	80 - 120
DDE-p,p'	97.3		P	80 - 120
DDT-p,p'	110		P	80 - 120
Delta-BHC	99.2		P	80 - 120
Dicofol	99.3		P	80 - 120
Dieldrin	99.0		P	80 - 120
Endosulfan I	99.0		P	80 - 120
Endosulfan II	92.1		P	80 - 120
Endosulfan Sulfate	105		P	80 - 120
Endrin	98.5		P	80 - 120
Endrin Aldehyde	96.5		P	80 - 120
Endrin Ketone	100		P	80 - 120
Gamma-BHC	99.4		P	80 - 120
Gamma-Chlordane	97.5		P	80 - 120
Heptachlor	95.9		P	80 - 120
Heptachlor Epoxide	97.6		P	80 - 120
Methoxychlor	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A85803
Included Lab Sample IDs: 2011923

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mirex	101		P	80 - 120
Permethrin	94.4		P	80 - 120
Trifluralin	99.6		P	80 - 120

Reference Method: EPA 8276
Run ID: A85820
Included Lab Sample IDs: 2011923

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Toxaphene	102		P	80 - 120

Reference Method: EPA 8321B
Run ID: A85823
Included Lab Sample IDs: 2011922

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	146	135	P/P	50 - 150
Bentazon	101	85.1	P/P	50 - 160
Ibuprofen	119	129	P/P	50 - 160
MCCP	115	104	P/P	50 - 150
Naproxen	101	107	P/P	50 - 160
Triclopyr	133	112	P/P	50 - 160

Reference Method: EPA 8270D
Run ID: A85914
Included Lab Sample IDs: 2011924

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.4		P	80 - 120
Alachlor	100		P	80 - 120
Ametryn	99.0		P	80 - 120
Atrazine Desethyl	96.2		P	80 - 120
Azinphos Methyl	95.6		P	80 - 120
Bromacil	93.1		P	80 - 120
Butylate	97.6		P	80 - 120
Chlorpyrifos Ethyl	97.6		P	80 - 120
Chlorpyrifos Methyl	96.6		P	80 - 120
Cyanazine	89.7		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	99.1		P	80 - 120
Disulfoton	98.8		P	80 - 120
EPTC	99.1		P	80 - 120
Ethion	94.7		P	80 - 120
Ethoprop	96.5		P	80 - 120
Fenamiphos	94.0		P	80 - 120
Fipronil	96.9		P	80 - 120
Fipronil Sulfide	94.0		P	80 - 120
Fipronil Sulfone	95.7		P	80 - 120
Fonofos	97.2		P	80 - 120
Hexazinone	97.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A85914

Included Lab Sample IDs: 2011924

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Malathion	97.8		P	80 - 120
Metalaxyl	98.9		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	95.0		P	80 - 120
Mevinphos	97.0		P	80 - 120
Molinate	109		P	80 - 120
Norflurazon	93.2		P	80 - 120
Parathion Ethyl	92.4		P	80 - 120
Parathion Methyl	93.6		P	80 - 120
Pendimethalin	99.8		P	80 - 120
Phorate	97.5		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	96.9		P	80 - 120
Simazine	103		P	80 - 120
Terbufos	95.2		P	80 - 120
Terbuthylazine	97.0		P	80 - 120

Reference Method: EPA 8270D

Run ID: A86018

Included Lab Sample IDs: 2011924

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	93.1		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						5.32	
	Turbidity						1.22	
EPA 200.7 Rev. 4.4	Calcium	105		104	106			1.48
	Iron	108		110	108	107		1.04
	Magnesium	111		113	110	108		0.990
	Potassium	106		110	105	103		0.826
	Sodium	103		103	104			0.705
	Zinc	102		105	105	102		3.08
EPA 200.8 Rev. 5.4	Arsenic	100		102	106	104		1.31
	Cadmium	101		102	105	105		0.318
	Chromium	94.3		95.9	98.6	97.7		0.877
	Copper	95.4		96.4	99.4	98.8		0.580
	Lead	95.4		96.9	98.0	98.2		0.197
	Nickel	97.5		98.8	102	100		1.82
	Silver	97.3		96.4	98.4	95.3		3.27
EPA 300.0 Rev. 2.1	Chloride	97.1		102	108		4.04	
	Chloride	99.3		99.0	113		0.772	
	Sulfate	97.2		99.8	104		3.88	
	Sulfate	98.4		100			1.99	
EPA 350.1 Rev. 2.0	Ammonia-N	99.7		92.6	91.4			1.11
	Ammonia-N	101		95.2	99.2			3.74
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.0						5.33
	Kjeldahl Nitrogen	100		97.1	97.7			0.438
EPA 353.2 Rev. 2.0	NO2NO3-N	100		102	104			1.46
	NO2NO3-N	102		102	103			0.487
EPA 365.1 Rev. 2.0	Total-P	100		95.5	95.3			0.220
	Total-P	103		99.2	102			2.54
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.2		94.3	97.8			3.64
EPA 8270D	Acetochlor	110	114	102	109	3.35		6.97
	Alachlor	110	114	101	114	3.24		11.8
	Aldrin	58.7	47.0	75.6	61.5	22.0		20.5
	Alpha-BHC	92.2	87.6	90.8	90.6	5.12		0.290
	Alpha-Chlordane	88.1	73.7	87.1	78.4	17.8		10.5
	Ametryn	104	108	117	128	4.05		8.79
	Atrazine	106	110			3.88		7.93
	Atrazine Desethyl	98.1	95.8	61.0	56.9	2.41		5.11
	Azinphos Methyl	125	129	97.9	102	2.69		4.44
	Beta-BHC	105	100	99.1	113	5.08		13.3
	Bromacil	102	107	83.9	85.0	4.09		0.949
	Butylate	79.3	66.6	60.6	70.4	17.5		15.0
	Carbophenothion	66.5	61.3	105	90.6	8.14		15.0
	Chlorothalonil	78.4	77.0	74.9	85.6	1.79		13.4
	Chlorpyrifos Ethyl	101	104	93.7	102	3.00		8.87
	Chlorpyrifos Methyl	106	108	90.8	103	2.51		12.5
	Cyanazine	130	128	90.9	85.2	1.80		6.51
	Cypermethrin	70.0	47.6	85.6	78.3	38.2		8.95
	DDD-p,p'	102	86.7	96.0	92.5	16.5		3.79
	DDE-p,p'	90.8	72.6	85.1	77.4	22.3		9.54
	DDT-p,p'	93.3	76.9	94.0	84.0	19.3		11.3
	Delta-BHC	111	110	133	129	0.228		3.55
	Demeton	93.2	87.2	83.6	94.2	6.62		11.9
	Diazinon	115	120	107	119	4.27		10.1
	Dicofol	92.3	90.9	95.4	83.7	1.60		13.0
	Dieldrin	97.6	85.5	95.1	85.2	13.3		11.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Disulfoton	99.3	110	89.2	97.9	9.96	9.34
	Endosulfan I	100	91.9	106	95.2	8.45	11.2
	Endosulfan II	100	95.9	99.8	96.9	4.18	2.91
	Endosulfan Sulfate	102	102	93.3	110	0.190	16.2
	Endrin	99.1	92.2	93.5	90.4	7.20	3.32
	Endrin Aldehyde	108	105	59.5	78.6	2.76	27.7
	Endrin Ketone	101	108	109	103	6.72	6.30
	EPTC	77.9	62.6	62.9	73.3	21.8	15.2
	Ethion	101	100	92.5	104	0.313	11.4
	Ethoprop	96.7	99.8	84.5	91.5	3.13	7.94
	Fenamiphos	105	111	85.0	100	5.64	16.5
	Fipronil	103	108			4.54	2.97
	Fipronil Sulfide	91.9	95.6			3.94	0.765
	Fipronil Sulfone	86.5	88.6			2.41	3.17
	Fonofos	103	109	89.2	105	5.45	16.3
	Gamma-BHC	85.4	99.8	118	89.1	15.6	28.0
	Gamma-Chlordane	82.9	67.6	83.5	74.1	20.3	11.8
	Heptachlor	75.2	58.3	76.0	64.8	25.2	15.9
	Heptachlor Epoxide	91.6	84.7	95.2	88.4	7.79	7.41
	Hexazinone	104	111	102	108	5.96	5.15
	Malathion	103	107	94.2	104	3.33	9.83
	Metalaxyl	107	110	94.7	99.9	3.37	5.27
	Methoxychlor	102	97.1	109	98.9	4.50	9.67
	Metolachlor	107	108	98.7	107	1.30	7.75
	Metribuzin	130	128	113	118	1.73	4.31
	Mevinphos	92.1	98.7	85.3	93.1	6.85	8.76
	Mirex	75.5	43.7	83.5	66.9	53.3	22.0
	Molinate	89.5	80.5	78.6	91.8	10.6	15.5
	Norflurazon	99.0	106	81.9	82.6	7.00	0.843
	Parathion Ethyl	105	105	92.3	104	0.392	12.0
	Parathion Methyl	109	112	97.8	105	2.19	7.32
	Pendimethalin	124	128	125	140	2.50	10.9
	Permethrin	75.1	47.9	89.1	72.5	44.3	20.5
	Phorate	91.8	93.3	78.5	90.3	1.65	14.1
	Prometon	100	104	93.5	100	4.22	5.50
	Prometryn	104	106	93.5	101	1.86	6.90
	Simazine	111	113	99.1	104	1.72	3.11
	Terbufos	97.4	101	90.4	104	4.04	13.7
	Terbuthylazine	106	106	93.1	102	0.623	8.66
	Trifluralin	80.8	66.2	80.4	74.2	19.8	7.97
EPA 8276	Chlordane	76.0	71.3	65.6	66.4	6.36	1.11
	Toxaphene	77.4	84.1	55.7	57.8	8.29	3.81
EPA 8321B	2,4-D	126		124	153		14.7
	3-Hydroxycarbofuran	98.4		76.4	80.6		5.35
	Acesulfame K	101		137	96.5		34.6
	Acetaminophen	85.6		81.1	88.4		8.52
	Aldicarb	70.3		67.7	60.5		11.2
	Aldicarb Sulfone	89.6		90.7	106		15.5
	Aldicarb Sulfoxide	88.3		90.7	93.0		2.50
	AMPA	80.1		65.9	64.4		1.93
	Bentazon	88.1		46.6	45.3		2.31
	Carbamazepine	115		71.8	68.5		4.61
	Carbaryl	88.3		44.7	57.3		24.6
	Carbofuran	98.5		67.3	50.9		27.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Diuron	90.5	60.6	47.7		21.9
	Endothall	102	86.8	80.1		8.09
	Fenuron	105	87.3	85.3		2.34
	Fluridone	105	93.2	74.2		9.41
	Glufosinate	99.0	82.1	74.4		9.80
	Glyphosate	79.7	78.8	76.1		2.95
	Hydrocodone	98.0	81.9	81.0		1.06
	Ibuprofen	112	73.6	74.9		1.74
	Imazapyr	108	101	88.9		4.03
	Imidacloprid	98.7	134	149		6.51
	Linuron	80.2	48.6	59.1		19.4
	MCPP	126	121	119		1.76
	Methiocarb	87.3	61.0	58.7		3.83
	Methomyl	112	89.3	86.1		3.69
	Naproxen	120	103	96.9		6.02
	Oxamyl	86.6	74.6	94.9		23.9
	Primidone	115	87.6	82.0		6.60
	Propoxur	96.3	63.7	60.9		4.50
	Pyraclostrobin	86.9	75.3	75.1		0.342
	Sucralose	114	111	109		1.55
	Triclopyr	133	121	121		0.157
SM 2120 B	Color (true)	98.9				0.416
	Color (true)	98.6				0.649
SM 2320 B-97	Total Alkalinity	103				0.275
	Total Alkalinity	103				1.13
SM 2540 C-97	TDS					5.22
	TDS					4.00
SM 4500 F-C-97	Fluoride	99.2	98.2	97.6		0.474
	Fluoride	97.8	102	102		0.0
SM 5310 B-00	Organic Carbon	93.9	96.0	95.3		0.565
	Organic Carbon	93.5	94.0	95.7		1.43

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2011929, 2011930, 2011931, 2011932, 2011933, 2011934, 2011935
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2011929, 2011930, 2011931, 2011932, 2011933, 2011934, 2011935
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2011876, 2011877, 2011878, 2011879, 2011880, 2011881, 2011882, 2011891
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2011876, 2011877, 2011878, 2011879, 2011880, 2011881, 2011882, 2011891
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2011876, 2011877, 2011878, 2011879, 2011880, 2011881, 2011882, 2011891
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2011876, 2011877, 2011878, 2011879, 2011880, 2011881, 2011882, 2011891
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2011883, 2011884, 2011885, 2011886, 2011887, 2011888, 2011889, 2011892

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2011923
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	2011924
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2011923
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2011921
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2011922
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2011922
SM 2120 B / E31780	True Color measured at 450 nm	2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2011876, 2011877, 2011878, 2011879, 2011880, 2011881, 2011882, 2011891

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	07/31/2018			07/31/2018 14:19	Megan Treadwell	2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890
EPA 200.7 Rev. 4.4	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/02/2018 14:13	Betina Topolski	2011929
	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/02/2018 14:31	Betina Topolski	2011930
	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/02/2018 14:38	Betina Topolski	2011931
	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/02/2018 15:24	Betina Topolski	2011932
	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/02/2018 15:31	Betina Topolski	2011933
	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/02/2018 15:39	Betina Topolski	2011934
	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/02/2018 15:46	Betina Topolski	2011935
EPA 200.8 Rev. 5.4	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/04/2018 01:40	Allison Taylor	2011929
	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/04/2018 01:59	Allison Taylor	2011930
	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/04/2018 02:09	Allison Taylor	2011931
	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/04/2018 02:38	Allison Taylor	2011932
	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/04/2018 02:47	Allison Taylor	2011933
	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/04/2018 02:57	Allison Taylor	2011934
	07/31/2018	08/01/2018 15:30	Elliott D. Healy	08/04/2018 03:06	Allison Taylor	2011935
EPA 300.0 Rev. 2.1	07/31/2018			08/02/2018 22:42	Lipi Saha	2011869
	07/31/2018			08/03/2018 00:18	Lipi Saha	2011870
	07/31/2018			08/03/2018 01:06	Lipi Saha	2011871
	07/31/2018			08/03/2018 01:18	Lipi Saha	2011872
	07/31/2018			08/03/2018 01:29	Lipi Saha	2011873
	07/31/2018			08/03/2018 01:41	Lipi Saha	2011874
	07/31/2018			08/03/2018 01:53	Lipi Saha	2011875
	07/31/2018			08/03/2018 02:29	Lipi Saha	2011890
EPA 350.1 Rev. 2.0	07/31/2018			08/02/2018 12:15	Ping Hua	2011876
	07/31/2018			08/02/2018 12:26	Ping Hua	2011877
	07/31/2018			08/02/2018 12:33	Ping Hua	2011878
	07/31/2018			08/02/2018 12:35	Ping Hua	2011879
	07/31/2018			08/02/2018 12:36	Ping Hua	2011880
	07/31/2018			08/02/2018 12:42	Ping Hua	2011881
	07/31/2018			08/02/2018 12:53	Ping Hua	2011882
	07/31/2018			08/02/2018 12:55	Ping Hua	2011891
EPA 351.2 Rev. 2.0	07/31/2018	08/01/2018 10:30	Adrian Shelby	08/02/2018 09:34	Joseph Suarez	2011876
	07/31/2018	08/01/2018 10:30	Adrian Shelby	08/02/2018 09:35	Joseph Suarez	2011877
	07/31/2018	08/01/2018 10:30	Adrian Shelby	08/02/2018 09:37	Joseph Suarez	2011878
	07/31/2018	08/01/2018 10:30	Adrian Shelby	08/02/2018 09:39	Joseph Suarez	2011879
	07/31/2018	08/01/2018 10:30	Adrian Shelby	08/02/2018 09:46	Joseph Suarez	2011880
	07/31/2018	08/01/2018 10:30	Adrian Shelby	08/02/2018 09:48	Joseph Suarez	2011881
	07/31/2018	08/01/2018 10:30	Adrian Shelby	08/02/2018 09:50	Joseph Suarez	2011882
	07/31/2018	08/01/2018 10:30	Adrian Shelby	08/02/2018 09:51	Joseph Suarez	2011891

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 353.2 Rev. 2.0	07/31/2018			08/01/2018 11:35	Lauren Bottorf	2011876
	07/31/2018			08/01/2018 11:48	Lauren Bottorf	2011877
	07/31/2018			08/01/2018 11:49	Lauren Bottorf	2011878
	07/31/2018			08/01/2018 11:50	Lauren Bottorf	2011879
	07/31/2018			08/01/2018 11:57	Lauren Bottorf	2011880
	07/31/2018			08/01/2018 12:03	Lauren Bottorf	2011881
	07/31/2018			08/01/2018 12:04	Lauren Bottorf	2011882
	07/31/2018			08/01/2018 12:06	Lauren Bottorf	2011891
	07/31/2018	08/02/2018 11:50	Sima Feizi	08/03/2018 09:11	Beverly Y. Sanders	2011891
EPA 365.1 Rev. 2.0	07/31/2018	08/02/2018 11:50	Sima Feizi	08/03/2018 10:52	Beverly Y. Sanders	2011876
	07/31/2018	08/02/2018 11:50	Sima Feizi	08/03/2018 10:53	Beverly Y. Sanders	2011877
	07/31/2018	08/02/2018 11:50	Sima Feizi	08/03/2018 10:54	Beverly Y. Sanders	2011878
	07/31/2018	08/02/2018 11:50	Sima Feizi	08/03/2018 10:55	Beverly Y. Sanders	2011879
	07/31/2018	08/02/2018 11:50	Sima Feizi	08/03/2018 10:56	Beverly Y. Sanders	2011880
	07/31/2018	08/02/2018 11:50	Sima Feizi	08/03/2018 10:57	Beverly Y. Sanders	2011881
	07/31/2018	08/02/2018 11:50	Sima Feizi	08/03/2018 10:58	Beverly Y. Sanders	2011882
	07/31/2018			07/31/2018 14:36	Julia Storbeck	2011883
	07/31/2018			07/31/2018 14:55	Julia Storbeck	2011884
EPA 365.1 Rev. 2.0 dissolved	07/31/2018			07/31/2018 15:04	Julia Storbeck	2011885
	07/31/2018			07/31/2018 15:05	Julia Storbeck	2011886
	07/31/2018			07/31/2018 15:06	Julia Storbeck	2011887
	07/31/2018			07/31/2018 15:07	Julia Storbeck	2011888
	07/31/2018			07/31/2018 15:08	Julia Storbeck	2011889
	07/31/2018			07/31/2018 15:13	Julia Storbeck	2011892
	07/31/2018	08/03/2018 08:45	Arthur Maknenko	08/10/2018 00:21	Dinesh Mishra	2011923
	07/31/2018	08/06/2018 08:51	Dinesh Mishra	08/07/2018 15:52	Vandana T. Nagar	2011924
	07/31/2018	08/06/2018 08:51	Dinesh Mishra	08/17/2018 15:08	Vandana T. Nagar	2011924
EPA 8276	07/31/2018	08/03/2018 08:45	Arthur Maknenko	08/11/2018 03:39	Arthur Maknenko	2011923
EPA 8321B	07/31/2018	08/02/2018 09:00	Hoor Shaik	08/09/2018 23:56	Juyoung Kim	2011921
	07/31/2018	08/02/2018 09:00	Hoor Shaik	08/10/2018 04:32	Juyoung Kim	2011922
	07/31/2018	08/02/2018 09:00	Hoor Shaik	08/10/2018 21:38	Juyoung Kim	2011922
	07/31/2018	08/03/2018 09:00	Mohammad Ghaffari	08/03/2018 13:15	Mohammad Ghaffari	2011922
	07/31/2018	08/03/2018 09:00	Mohammad Ghaffari	08/03/2018 18:29	Mohammad Ghaffari	2011922
	07/31/2018	08/03/2018 09:00	Mohammad Ghaffari	08/09/2018 03:43	Mohammad Ghaffari	2011922
	07/31/2018			07/31/2018 15:07	Tanya Welborn	2011869, 2011870
SM 2120 B	07/31/2018			07/31/2018 15:08	Tanya Welborn	2011871
	07/31/2018			07/31/2018 15:09	Tanya Welborn	2011872
	07/31/2018			07/31/2018 15:10	Tanya Welborn	2011873, 2011874
	07/31/2018			07/31/2018 15:11	Tanya Welborn	2011875
	07/31/2018			07/31/2018 15:16	Tanya Welborn	2011890

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-97	07/31/2018			08/03/2018 00:46	Dale L. Simmons	2011869
	07/31/2018			08/03/2018 02:26	Dale L. Simmons	2011870
	07/31/2018			08/03/2018 02:36	Dale L. Simmons	2011871
	07/31/2018			08/03/2018 02:46	Dale L. Simmons	2011872
	07/31/2018			08/03/2018 02:57	Dale L. Simmons	2011873
	07/31/2018			08/03/2018 03:07	Dale L. Simmons	2011874
	07/31/2018			08/03/2018 03:18	Dale L. Simmons	2011875
	07/31/2018			08/03/2018 03:28	Dale L. Simmons	2011890
SM 2540 C-97	07/31/2018			08/03/2018 16:45	Yijie Li	2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890
SM 2540 D-97	07/31/2018			08/03/2018 16:45	Yijie Li	2011869, 2011870, 2011871, 2011872, 2011873, 2011874, 2011875, 2011890
SM 4500 F-C-97	07/31/2018			08/03/2018 00:46	Dale L. Simmons	2011869
	07/31/2018			08/03/2018 02:26	Dale L. Simmons	2011870
	07/31/2018			08/03/2018 02:36	Dale L. Simmons	2011871
	07/31/2018			08/03/2018 02:46	Dale L. Simmons	2011872
	07/31/2018			08/03/2018 02:57	Dale L. Simmons	2011873
	07/31/2018			08/03/2018 03:07	Dale L. Simmons	2011874
	07/31/2018			08/03/2018 03:18	Dale L. Simmons	2011875
	07/31/2018			08/03/2018 03:28	Dale L. Simmons	2011890
SM 5310 B-00	07/31/2018			08/04/2018 03:59	Julia Storbeck	2011876
	07/31/2018			08/04/2018 05:33	Julia Storbeck	2011877
	07/31/2018			08/04/2018 05:47	Julia Storbeck	2011878
	07/31/2018			08/04/2018 06:00	Julia Storbeck	2011879
	07/31/2018			08/04/2018 06:40	Julia Storbeck	2011880
	07/31/2018			08/04/2018 06:53	Julia Storbeck	2011881
	07/31/2018			08/04/2018 07:06	Julia Storbeck	2011882
	07/31/2018			08/04/2018 07:20	Julia Storbeck	2011891