

Chemical Analysis Report

SO-DIST-2018-07-25-03

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

Event Description: **LaBelle->Lake O.**
Request ID: **RQ-2018-07-02-26**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 20-AUG-2018 15:14

A handwritten signature in black ink, appearing to read "Liang Lin", 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: Nine Mile Canal @ SR 80

Collection Date/Time: 07/24/2018 10:00

Field ID: G3SD0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2010725	EPA 180.1 Rev. 2.0	Turbidity	6.5		NTU	P349131	
	EPA 300.0 Rev. 2.1	Chloride	34		mg Cl/L	P349411	
		Sulfate	17		mg SO4/L	P349413	
		Color (true)	210		PCU	P349166	
	SM 2320 B-97	Total Alkalinity	102		mg CaCO3/L	P349353	
	SM 2540 C-97	TDS	231		mg/L	P349674	
	SM 2540 D-97	TSS	5	I	mg/L	P349367	
	SM 4500 F-C-97	Fluoride	0.16		mg F/L	P349357	
2010727	EPA 350.1 Rev. 2.0	Ammonia-N	0.16		mg N/L	P349522	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P349386	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P349333	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P349385	
	SM 5310 B-00	Organic Carbon	21		mg C/L	P349457	
2010729	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P349141	
2010749	EPA 200.7 Rev. 4.4	Calcium	40.4		mg/L	P349205	
		Iron	510		ug/L	P349205	
		Magnesium	6.95		mg/L	P349205	
		Potassium	5.0		mg/L	P349205	
		Sodium	19.1		mg/L	P349205	
		Zinc	5.0	U	ug/L	P349205	
	EPA 200.8 Rev. 5.4	Arsenic	1.46		ug/L	P349205	
		Cadmium	0.020	U	ug/L	P349205	
		Chromium	0.44	I	ug/L	P349205	
		Copper	0.73	I	ug/L	P349205	
		Lead	0.24		ug/L	P349205	
		Nickel	0.40	I	ug/L	P349205	
		Silver	0.010	U	ug/L	P349205	

Ref. Method and Comment:

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

Sample Location: Nine Mile Canal @ SR 80

Collection Date/Time: 07/24/2018 10:00

Field ID: G3SD0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2010745	EPA 8321B	Aldicarb	0.020	U	ug/L	P349225	
		Aldicarb Sulfone	0.0020	UJ	ug/L	P349225	RPD
		Aldicarb Sulfoxide	0.0020	U	ug/L	P349225	
		Carbaryl	0.0020	U	ug/L	P349225	
		Carbofuran	0.0020	U	ug/L	P349225	
		3-Hydroxycarbofuran	0.0020	UJ	ug/L	P349225	RPD
		Methiocarb	0.0020	U	ug/L	P349225	
		Methomyl	0.0020	UJ	ug/L	P349225	RPD
		Oxamyl	0.0020	UJ	ug/L	P349225	RPD
		Propoxur	0.0020	UJ	ug/L	P349225	MS
2010746		2,4-D	0.042		ug/L	P349092	
		Sucralose**	0.010	U	ug/L	P349176	
		Bentazon	0.011		ug/L	P349092	
		MCP	0.0020	U	ug/L	P349092	
		Triclopyr**	0.0040	U	ug/L	P349092	MS
		Imidacloprid	0.016		ug/L	P349092	
		Diuron	0.0071	I	ug/L	P349092	
		Pyraclostrobin**	0.0020	U	ug/L	P349092	
		Primidone**	0.0040	U	ug/L	P349092	
		Linuron	0.0040	U	ug/L	P349092	
		Acetaminophen**	0.0080	U	ug/L	P349092	
		Fenuron	0.016	U	ug/L	P349092	
		Imazapyr**	0.076		ug/L	P349092	
		Carbamazepine**	8.0E-04	U	ug/L	P349092	
		Fluridone**	0.0023		ug/L	P349092	
		Hydrocodone**	8.0E-04	U	ug/L	P349092	
		Glyphosate**	0.89	J	ug/L	P349176	MS
		AMPA**	0.48		ug/L	P349176	
		Endothal**	0.10	U	ug/L	P349176	
		Glufosinate**	0.10	U	ug/L	P349176	
		Acesulfame K**	0.10	U	ug/L	P349176	RPD
2010747	EPA 8270D	Aldrin	4.3	U	ng/L	P349286	
		Alpha-BHC	2.2	U	ng/L	P349286	
		Beta-BHC	4.3	U	ng/L	P349286	
		Delta-BHC	4.3	U	ng/L	P349286	
		Gamma-BHC	4.3	U	ng/L	P349286	
		Carbophenothion	4.3	U	ng/L	P349286	
		Chlorothalonil	2.2	U	ng/L	P349286	
		Cypermethrin	22	U	ng/L	P349286	
		DDD-p,p'	3.2	U	ng/L	P349286	
		DDE-p,p'	3.2	U	ng/L	P349286	
		DDT-p,p'	3.2	U	ng/L	P349286	
		Dieldrin	4.3	U	ng/L	P349286	
		Endosulfan I	4.3	U	ng/L	P349286	

Field ID: G3SD0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2010747	EPA 8270D	Endosulfan II	4.3	U	ng/L	P349286	
		Endosulfan Sulfate	2.2	U	ng/L	P349286	
		Endrin	2.2	U	ng/L	P349286	
		Endrin Aldehyde	2.2	U	ng/L	P349286	
		Heptachlor	1.6	U	ng/L	P349286	
		Heptachlor Epoxide	2.2	U	ng/L	P349286	
		Methoxychlor	4.3	U	ng/L	P349286	
		Mirex	2.2	U	ng/L	P349286	
		Permethrin	11	U	ng/L	P349286	
		Trifluralin	1.1	U	ng/L	P349286	
		Alpha-Chlordane	1.1	U	ng/L	P349286	
		Gamma-Chlordane	1.1	U	ng/L	P349286	
		Endrin Ketone	2.2	U	ng/L	P349286	
		Dicofol	32	U	ng/L	P349286	
		Chlordane	2.7	U	ng/L	P349286	
		Toxaphene	32	U	ng/L	P349286	
2010748	EPA 8270D	Alachlor	0.26	U	ng/L	P349532	
		Ametryn	10		ng/L	P349532	
		Atrazine	88	J	ng/L	P349532	RPD
		Atrazine Desethyl	17	J	ng/L	P349532	RPD
		Azinphos Methyl	2.4	U	ng/L	P349532	
		Bromacil	45		ng/L	P349532	
		Butylate	0.42	UJ	ng/L	P349532	RPD
		Chlorpyrifos Ethyl	17		ng/L	P349532	
		Chlorpyrifos Methyl	0.11	U	ng/L	P349532	
		Demeton	2.1	U	ng/L	P349532	
		Diazinon	0.13	U	ng/L	P349532	
		Disulfoton	0.53	U	ng/L	P349532	
		EPTC	1.3	UJ	ng/L	P349532	RPD
		Ethion	0.16	U	ng/L	P349532	
		Ethoprop	0.11	U	ng/L	P349532	
		Fenamiphos	0.26	U	ng/L	P349532	
		Fipronil	0.26	U	ng/L	P349532	
		Fipronil Sulfide	0.16	UJ	ng/L	P349532	RPD
		Fipronil Sulfone	0.16	UJ	ng/L	P349532	RPD
		Hexazinone	63	J	ng/L	P349532	
		Malathion	0.37	U	ng/L	P349532	
		Metribuzin	0.42	I	ng/L	P349532	
		Mevinphos	0.53	U	ng/L	P349532	
		Molinate	0.32	U	ng/L	P349532	
		Norflurazon	36	J	ng/L	P349532	RPD
		Pendimethalin	1.1	I	ng/L	P349532	
		Phorate	0.26	U	ng/L	P349532	
		Prometon	0.95	U	ng/L	P349532	
		Prometryn	0.21	U	ng/L	P349532	

Field ID: G3SD0088

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2010748	EPA 8270D	Simazine	46		ng/L	P349532	
		Terbufos	0.11	U	ng/L	P349532	
		Terbuthylazine	0.45	U	ng/L	P349532	
		Fonofos	0.21	U	ng/L	P349532	
		Metalaxyl	5.4		ng/L	P349532	
		Metolachlor	73		ng/L	P349532	
		Acetochlor	0.26	U	ng/L	P349532	
		Cyanazine	0.53	U	ng/L	P349532	
		Parathion Ethyl	0.26	U	ng/L	P349532	
		Parathion Methyl	0.26	U	ng/L	P349532	

Ref. Method and Comment:

EPA 8321B: Refer to the narrative for an explanation of QC Codes.

EPA 8270D: MS accuracy for Atrazine, Simazine, Ametryn, Bromacil, Chlorpyrifos Ethyl, Metolachlor, Hexazinone, and Norflurazon not assessed due to high content of these parameters in the sample spiked. Estimated value for Hexazinone due to internal standard recovery outside control limits.

Refer to the narrative for an explanation of QC Codes.

Sample Location: Lake Hicpochee in Canal

Collection Date/Time: 07/24/2018 10:50

Field ID: G3SD0102

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2010719	EPA 180.1 Rev. 2.0	Turbidity	55	A	NTU	P349133	
	EPA 300.0 Rev. 2.1	Chloride	31		mg Cl/L	P349411	
		Sulfate	15		mg SO4/L	P349413	
	SM 2120 B	Color (true)	210		PCU	P349167	
	SM 2320 B-97	Total Alkalinity	67		mg CaCO3/L	P349353	
	SM 2540 C-97	TDS	179		mg/L	P349674	
	SM 2540 D-97	TSS	40		mg/L	P349367	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P349357	
2010721	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P349522	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.9		mg N/L	P349379	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.078		mg N/L	P349333	
	EPA 365.1 Rev. 2.0	Total-P	0.66		mg P/L	P349384	
	SM 5310 B-00	Organic Carbon	23		mg C/L	P349457	
2010723	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.083		mg P/L	P349141	

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: C-19 @ US 27

Collection Date/Time: 07/24/2018 11:30

Field ID: G3SD0087

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2010720	EPA 180.1 Rev. 2.0	Turbidity	14		NTU	P349131	
	EPA 300.0 Rev. 2.1	Chloride	34		mg Cl/L	P349411	
		Sulfate	16		mg SO4/L	P349413	
	SM 2120 B	Color (true)	230		PCU	P349166	
	SM 2320 B-97	Total Alkalinity	92		mg CaCO3/L	P349353	
	SM 2540 C-97	TDS	219		mg/L	P349674	
	SM 2540 D-97	TSS	9	I	mg/L	P349367	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P349357	
2010722	EPA 350.1 Rev. 2.0	Ammonia-N	0.31		mg N/L	P349522	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P349379	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.093		mg N/L	P349333	
	EPA 365.1 Rev. 2.0	Total-P	0.26		mg P/L	P349384	
	SM 5310 B-00	Organic Carbon	21		mg C/L	P349457	
2010724	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.19		mg P/L	P349141	

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: OK Branch @ Eucalyptus

Collection Date/Time: 07/24/2018 12:30

Field ID: G3SD0099

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2010726	EPA 180.1 Rev. 2.0	Turbidity	9.2		NTU	P349131	
	EPA 300.0 Rev. 2.1	Chloride	71		mg Cl/L	P349411	
		Sulfate	26		mg SO4/L	P349413	
		Color (true)	69	A	PCU	P349169	
	SM 2320 B-97	Total Alkalinity	246		mg CaCO3/L	P349353	
	SM 2540 C-97	TDS	425		mg/L	P349674	
	SM 2540 D-97	TSS	8	I	mg/L	P349367	
	SM 4500 F-C-97	Fluoride	0.21		mg F/L	P349357	
2010728	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P349522	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.89		mg N/L	P349386	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.064		mg N/L	P349333	
	EPA 365.1 Rev. 2.0	Total-P	0.082		mg P/L	P349385	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P349457	
2010730	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.031		mg P/L	P349143	
2010750	EPA 200.7 Rev. 4.4	Calcium	98.7		mg/L	P349205	
		Iron	750		ug/L	P349205	
		Magnesium	6.08		mg/L	P349205	
		Potassium	3.6		mg/L	P349205	
		Sodium	50.0		mg/L	P349205	
		Zinc	5.0	U	ug/L	P349205	
	EPA 200.8 Rev. 5.4	Arsenic	2.08		ug/L	P349205	
		Cadmium	0.020	U	ug/L	P349205	
		Chromium	0.53	I	ug/L	P349205	
		Copper	0.35	I	ug/L	P349205	
		Lead	0.11	I	ug/L	P349205	
		Nickel	0.66	I	ug/L	P349205	
		Silver	0.010	U	ug/L	P349205	

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: P349131

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349133

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P349205

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: P349205

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: P349411

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349413

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349522

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349379

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349386

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349333

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349384

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349385

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349141

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349143

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

Reference Method: EPA 8270D
Batch ID: P349286

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D
 Batch ID: P349286

Component	Result	Code	Units
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: P349532

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P349532

Component	Result	Code	Units
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: P349286

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

Reference Method: EPA 8321B
Batch ID: P349092

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	4.0E-04	U	ug/L
Hydrocodone	8.0E-04	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P349176

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: EPA 8321B
Batch ID: P349225

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P349225

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: SM 2120 B
Batch ID: P349166

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P349167

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P349169

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P349353

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

Reference Method: SM 2540 C-97
Batch ID: P349674

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P349367

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P349357

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

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Method Blank Results

Reference Method: SM 5310 B-00
Batch ID: P349457

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: P349205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	101		P	85 - 115
Iron	104		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	101		P	85 - 115
Sodium	98.3		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	99.3		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	95.7		P	85 - 115
Copper	98.0		P	85 - 115
Lead	94.5		P	85 - 115
Nickel	100		P	85 - 115
Silver	97.3		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349411

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349413

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349522

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349386

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P349333

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: P349384

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P349385

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P349141

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P349143

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

Reference Method: EPA 8270D
 Batch ID: P349286

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	56.8	48.1	P/P	24 - 89.0
Alpha-BHC	78.8	75.7	P/P	58 - 117
Alpha-Chlordane	89.9	78.9	P/P	56 - 115
Beta-BHC	94.6	100	P/P	55 - 137
Carbophenothion	84.3	64.6	P/P	37 - 145
Chlorothalonil	90.3	86.6	P/P	26 - 163
Cypermethrin	96.9	84.9	P/P	42 - 156
DDD-p,p'	94.4	80.6	P/P	59 - 129
DDE-p,p'	95.2	85.7	P/P	52 - 117
DDT-p,p'	96.3	88.0	P/P	48 - 128
Delta-BHC	109	103	P/P	59 - 158
Dicofol	96.7	98.5	P/P	19 - 124
Dieldrin	106	91.0	P/P	57 - 126
Endosulfan I	90.4	84.0	P/P	59 - 133
Endosulfan II	91.9	81.8	P/P	58 - 148
Endosulfan Sulfate	93.5	78.8	P/P	56 - 135
Endrin	88.2	77.7	P/P	50 - 140
Endrin Aldehyde	94.1	76.5	P/P	47 - 141
Endrin Ketone	93.9	85.8	P/P	63 - 123
Gamma-BHC	107	91.7	P/P	59 - 132
Gamma-Chlordane	87.8	77.0	P/P	55 - 112
Heptachlor	71.7	57.5	P/P	45 - 102

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
 Batch ID: P349286

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Heptachlor Epoxide	90.0	78.8	P/P	61 - 116
Methoxychlor	96.8	88.6	P/P	60 - 133
Mirex	81.4	77.9	P/P	40 - 98.0
Permethrin	92.0	82.2	P/P	45 - 131
Trifluralin	88.6	83.8	P/P	38 - 179

Reference Method: EPA 8270D
 Batch ID: P349532

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	86.9	102	P/P	74 - 119
Alachlor	85.3	102	P/P	75 - 118
Ametryn	87.3	102	P/P	59 - 137
Atrazine	88.1	101	P/P	73 - 120
Atrazine Desethyl	69.8	73.0	P/P	19 - 129
Azinphos Methyl	91.7	106	P/P	65 - 181
Bromacil	77.0	77.0	P/P	43 - 123
Butylate	55.8	69.2	P/P	28 - 85.0
Chlorpyrifos Ethyl	84.9	99.7	P/P	55 - 112
Chlorpyrifos Methyl	81.8	96.3	P/P	35 - 124
Cyanazine	112	117	P/P	26 - 262
Demeton	69.3	85.6	P/P	43 - 122
Diazinon	87.7	104	P/P	72 - 120
Disulfoton	68.6	84.1	P/P	45 - 137
EPTC	56.2	68.0	P/P	28 - 95.0
Ethion	86.7	103	P/P	63 - 127
Ethoprop	74.3	87.4	P/P	63 - 109
Fenamiphos	82.4	96.1	P/P	66 - 136
Fipronil	85.4	96.2	P/P	63 - 126
Fipronil Sulfide	79.4	92.3	P/P	59 - 123
Fipronil Sulfone	71.6	84.6	P/P	56 - 122
Fonofos	73.4	89.3	P/P	64 - 114
Hexazinone	88.8	104	P/P	49 - 144
Malathion	89.2	105	P/P	68 - 131
Metaxyl	84.7	99.9	P/P	57 - 126
Metolachlor	89.7	107	P/P	75 - 118
Metribuzin	96.6	97.6	P/P	46 - 169
Mevinphos	70.5	87.4	P/P	34 - 126
Molinate	60.3	75.4	P/P	37 - 101
Norflurazon	82.9	93.8	P/P	63 - 127
Parathion Ethyl	82.6	96.7	P/P	78 - 109
Parathion Methyl	86.5	97.9	P/P	74 - 123
Pendimethalin	98.3	118	P/P	51 - 130
Phorate	65.9	79.8	P/P	53 - 116
Prometon	82.8	99.8	P/P	66 - 124
Prometryn	85.5	101	P/P	66 - 124
Simazine	92.3	102	P/P	62 - 134
Terbufos	76.2	89.9	P/P	59 - 115
Terbuthylazine	89.2	102	P/P	76 - 113

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276

Batch ID: P349286

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	92.6	91.9	P/P	47 - 125
Toxaphene	80.3	67.8	P/P	46 - 147

Reference Method: EPA 8321B

Batch ID: P349092

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	91.9		P	40 - 150
Acetaminophen	87.4		P	30 - 150
Bentazon	96.2		P	30 - 150
Carbamazepine	81.8		P	40 - 150
Diuron	62.4		P	40 - 150
Fenuron	96.0		P	40 - 150
Fluridone	78.7		P	40 - 150
Hydrocodone	84.3		P	40 - 150
Imazapyr	98.7		P	40 - 150
Imidacloprid	104		P	40 - 160
Linuron	69.0		P	40 - 150
MCPP	93.3		P	40 - 150
Primidone	107		P	40 - 150
Pyraclostrobin	70.2		P	40 - 150
Triclopyr	95.3		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P349176

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	127		P	40 - 140
AMPA	107		P	40 - 140
Endothall	110		P	40 - 140
Glufosinate	109		P	40 - 140
Glyphosate	121		P	40 - 140
Sucralose	106		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P349225

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	89.8	99.0	P/P	40 - 150
Aldicarb	68.5	54.7	P/P	30 - 150
Aldicarb Sulfone	86.2	105	P/P	40 - 150
Aldicarb Sulfoxide	95.3	93.4	P/P	40 - 150
Carbaryl	69.8	68.5	P/P	40 - 150
Carbofuran	75.9	69.2	P/P	40 - 150
Methiocarb	56.4	56.1	P/P	40 - 150
Methomyl	81.3	103	P/P	40 - 150
Oxamyl	82.5	99.8	P/P	40 - 150
Propoxur	75.5	72.0	P/P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2120 B
Batch ID: P349166

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	103		P	85 - 115

Reference Method: SM 2120 B
Batch ID: P349167

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	104		P	85 - 115

Reference Method: SM 2120 B
Batch ID: P349169

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

Reference Method: SM 2320 B-97
Batch ID: P349353

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

Reference Method: SM 4500 F-C-97
Batch ID: P349357

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.4		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P349457

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	92.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P349205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010488	Calcium	101		P	80 - 120
2010488	Iron	101		P	80 - 120
2010488	Magnesium	99.5		P	80 - 120
2010488	Potassium	97.2		P	80 - 120
2010488	Sodium	96.5		P	80 - 120
2010488	Zinc	104		P	80 - 120
2010664	Calcium	101		P	80 - 120
2010664	Iron	99.7	101	P/P	80 - 120
2010664	Magnesium	99.2		P	80 - 120
2010664	Potassium	100	100	P/P	80 - 120
2010664	Sodium	99.3		P	80 - 120
2010664	Zinc	99.0	98.3	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010488	Arsenic	104		P	80 - 120
2010488	Cadmium	102		P	80 - 120
2010488	Chromium	95.3		P	80 - 120
2010488	Copper	99.6		P	80 - 120
2010488	Lead	97.8		P	80 - 120
2010488	Nickel	101		P	80 - 120
2010488	Silver	98.0		P	80 - 120
2010664	Arsenic	102	102	P/P	80 - 120
2010664	Cadmium	99.6	102	P/P	80 - 120
2010664	Chromium	96.1	96.0	P/P	80 - 120
2010664	Copper	95.0	95.8	P/P	80 - 120
2010664	Lead	95.4	95.2	P/P	80 - 120
2010664	Nickel	96.7	98.1	P/P	80 - 120
2010664	Silver	96.4	96.1	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349411

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010616	Chloride	109		P	90 - 110
2010787	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349413

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010616	Sulfate	108		P	90 - 110
2010787	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349522

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010869	Ammonia-N	105	104	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010631	Kjeldahl Nitrogen	99.7	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349386

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010791	Kjeldahl Nitrogen	101	98.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349333

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010682	NO2NO3-N	99.8		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349384

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010626	Total-P	94.4	96.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010791	Total-P	90.8	92.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349141

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010627	O-Phosphate-P	97.3	97.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349143

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010792	O-Phosphate-P	98.4	97.8	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P349286

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010765	Aldrin	82.4	69.4	P/P	26 - 96.0
2010765	Alpha-BHC	91.4	88.9	P/P	51 - 123
2010765	Alpha-Chlordane	96.8	87.0	P/P	45 - 120
2010765	Beta-BHC	101	101	P/P	43 - 146
2010765	Carbophenothion	140	127	P/P	26 - 179
2010765	Chlorothalonil	21.4	21.5	P/P	10 - 215
2010765	Cypermethrin	123	118	P/P	35 - 169
2010765	DDD-p,p'	99.4	87.6	P/P	49 - 131
2010765	DDE-p,p'	97.9	90.3	P/P	39 - 127
2010765	DDT-p,p'	91.5	88.9	P/P	49 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
 Batch ID: P349286

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010765	Delta-BHC	124	115	P/P	49 - 187
2010765	Dicofol	99.6	92.1	P/P	10 - 129
2010765	Dieldrin	101	95.4	P/P	46 - 132
2010765	Endosulfan I	99.7	97.3	P/P	57 - 130
2010765	Endosulfan II	115	91.0	P/P	52 - 148
2010765	Endosulfan Sulfate	104	99.2	P/P	55 - 129
2010765	Endrin	95.4	87.1	P/P	45 - 133
2010765	Endrin Aldehyde	78.0	73.0	P/P	26 - 140
2010765	Endrin Ketone	104	105	P/P	60 - 125
2010765	Gamma-BHC	112	99.3	P/P	50 - 145
2010765	Gamma-Chlordane	96.0	86.3	P/P	44 - 118
2010765	Heptachlor	85.0	73.2	P/P	35 - 106
2010765	Heptachlor Epoxide	99.4	88.2	P/P	52 - 123
2010765	Methoxychlor	101	95.7	P/P	54 - 132
2010765	Mirex	88.1	85.7	P/P	36 - 107
2010765	Permethrin	111	105	P/P	47 - 135
2010765	Trifluralin	95.5	90.5	P/P	32 - 228

Reference Method: EPA 8270D
 Batch ID: P349532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010748	Acetochlor	102	105	P/P	67 - 125
2010748	Alachlor	106	109	P/P	69 - 123
2010748	Atrazine Desethyl	42.8	92.7	P/P	10 - 129
2010748	Azinphos Methyl	97.2	112	P/P	48 - 200
2010748	Butylate	64.5	35.2	P/P	10 - 85.0
2010748	Chlorpyrifos Methyl	96.2	99.4	P/P	44 - 117
2010748	Cyanazine	101	135	P/P	10 - 262
2010748	Demeton	84.6	81.9	P/P	24 - 145
2010748	Diazinon	114	116	P/P	66 - 129
2010748	Disulfoton	90.9	94.0	P/P	45 - 139
2010748	EPTC	64.1	32.3	P/P	10 - 86.0
2010748	Ethion	96.9	104	P/P	59 - 133
2010748	Ethoprop	93.8	91.6	P/P	54 - 116
2010748	Fenamiphos	88.5	94.8	P/P	55 - 140
2010748	Fipronil	75.8	97.6	P/P	37 - 142
2010748	Fipronil Sulfide	65.8	90.9	P/P	37 - 130
2010748	Fipronil Sulfone	42.4	74.5	P/P	18 - 143
2010748	Fonofos	95.8	98.2	P/P	55 - 118
2010748	Malathion	97.9	104	P/P	64 - 132
2010748	Metalaxyl	103	112	P/P	55 - 129
2010748	Metribuzin	134	158	P/P	16 - 218
2010748	Mevinphos	88.3	90.9	P/P	34 - 129
2010748	Molinate	69.1	52.8	P/P	16 - 99.0
2010748	Parathion Ethyl	96.9	102	P/P	71 - 112
2010748	Parathion Methyl	97.1	110	P/P	65 - 127
2010748	Pendimethalin	138	138	P/P	35 - 159
2010748	Phorate	98.0	94.6	P/P	41 - 129
2010748	Prometon	91.5	103	P/P	56 - 140
2010748	Prometryn	105	112	P/P	65 - 130
2010748	Terbufos	97.5	99.3	P/P	53 - 126

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
 Batch ID: P349532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010748	Terbutylazine	98.8	106	P/P	73 - 114

Reference Method: EPA 8276
 Batch ID: P349286

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010747	Chlordane	92.3	99.6	P/P	41 - 134
2010747	Toxaphene	60.1	60.4	P/P	39 - 158

Reference Method: EPA 8321B
 Batch ID: P349092

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010342	2,4-D	136	120	P/P	40 - 150
2010342	Acetaminophen	74.0	75.0	P/P	30 - 150
2010342	Bentazon	65.3	58.1	P/P	30 - 150
2010342	Carbamazepine	56.9	51.6	P/P	40 - 150
2010342	Diuron	53.2	52.3	P/P	40 - 150
2010342	Fenuron	69.4	74.3	P/P	40 - 150
2010342	Fluridone	65.7	60.8	P/P	40 - 150
2010342	Hydrocodone	80.2	71.5	P/P	40 - 150
2010342	Imazapyr	79.3	97.1	P/P	40 - 150
2010342	Imidacloprid	128	117	P/P	40 - 160
2010342	Linuron	65.5	60.5	P/P	40 - 150
2010342	MCP	143	136	P/P	40 - 150
2010342	Primidone	75.4	74.7	P/P	40 - 150
2010342	Pyraclostrobin	71.3	68.6	P/P	40 - 150
2010342	Triclopyr	161	154	F/F	40 - 150

Reference Method: EPA 8321B
 Batch ID: P349176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010469	Acesulfame K	68.5	41.9	P/P	40 - 140
2010469	Endothall	71.1	62.2	P/P	40 - 140
2010469	Sucralose	60.6	73.9	P/P	40 - 150
2010746	AMPA	78.7	78.1	P/P	40 - 140
2010746	Glufosinate	105	117	P/P	40 - 140
2010746	Glyphosate	134	146	P/F	40 - 140

Reference Method: EPA 8321B
 Batch ID: P349225

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010745	3-Hydroxycarbofuran	50.3	79.3	P/P	40 - 150
2010745	Aldicarb	43.3	51.3	P/P	30 - 150
2010745	Aldicarb Sulfone	63.5	107	P/P	40 - 150
2010745	Aldicarb Sulfoxide	40.6	44.2	P/P	40 - 150
2010745	Carbaryl	45.7	49.7	P/P	40 - 150
2010745	Carbofuran	41.9	51.4	P/P	40 - 150
2010745	Methiocarb	45.1	46.3	P/P	40 - 150
2010745	Methomyl	53.7	108	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P349225

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010745	Oxamyl	56.2	82.0	P/P	40 - 150
2010745	Propoxur	37.1	49.2	F/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P349357

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010787	Fluoride	101	100	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P349457

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2010631	Organic Carbon	94.6	92.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349131

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010624	Turbidity	6.56	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P349133

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010719	Turbidity	3.58	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P349205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010664	Calcium	0.497	Spike	P	0 - 20
2010664	Iron	0.980	Spike	P	0 - 20
2010664	Magnesium	0.562	Spike	P	0 - 20
2010664	Potassium	0.223	Spike	P	0 - 20
2010664	Sodium	0.833	Spike	P	0 - 20
2010664	Zinc	0.688	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P349205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010664	Arsenic	0.0953	Spike	P	0 - 20
2010664	Cadmium	2.66	Spike	P	0 - 20
2010664	Chromium	0.193	Spike	P	0 - 20
2010664	Copper	0.799	Spike	P	0 - 20
2010664	Lead	0.195	Spike	P	0 - 20
2010664	Nickel	1.41	Spike	P	0 - 20
2010664	Silver	0.379	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349411

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010616	Chloride	0.338	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P349413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010616	Sulfate	0.344	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P349522

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010869	Ammonia-N	1.01	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010631	Kjeldahl Nitrogen	0.558	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P349386

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010791	Kjeldahl Nitrogen	2.06	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P349333

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010682	NO2NO3-N	0.437	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349384

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010626	Total-P	1.81	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P349385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010791	Total-P	2.16	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349141

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010627	O-Phosphate-P	0.358	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P349143

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010792	O-Phosphate-P	0.445	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P349286

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010765	Aldrin	17.1	Spike	P	0 - 30
2010765	Alpha-BHC	2.73	Spike	P	0 - 30
2010765	Alpha-Chlordane	10.6	Spike	P	0 - 30
2010765	Beta-BHC	0.504	Spike	P	0 - 30
2010765	Carbophenothion	10.3	Spike	P	0 - 30
2010765	Chlorothalonil	0.702	Spike	P	0 - 30
2010765	Cypermethrin	3.98	Spike	P	0 - 30
2010765	DDD-p,p'	12.7	Spike	P	0 - 30
2010765	DDE-p,p'	8.12	Spike	P	0 - 30
2010765	DDT-p,p'	2.79	Spike	P	0 - 30
2010765	Delta-BHC	7.99	Spike	P	0 - 30
2010765	Dicofol	7.76	Spike	P	0 - 30
2010765	Dieldrin	6.19	Spike	P	0 - 30
2010765	Endosulfan I	2.48	Spike	P	0 - 30
2010765	Endosulfan II	23.2	Spike	P	0 - 30
2010765	Endosulfan Sulfate	4.28	Spike	P	0 - 30
2010765	Endrin	9.07	Spike	P	0 - 30
2010765	Endrin Aldehyde	6.63	Spike	P	0 - 30
2010765	Endrin Ketone	0.836	Spike	P	0 - 30
2010765	Gamma-BHC	12.3	Spike	P	0 - 30
2010765	Gamma-Chlordane	10.6	Spike	P	0 - 30
2010765	Heptachlor	14.9	Spike	P	0 - 30
2010765	Heptachlor Epoxide	11.9	Spike	P	0 - 30
2010765	Methoxychlor	5.62	Spike	P	0 - 30
2010765	Mirex	2.74	Spike	P	0 - 30
2010765	Permethrin	5.05	Spike	P	0 - 30
2010765	Trifluralin	5.40	Spike	P	0 - 30
LFB	Aldrin	16.5	LCS	P	0 - 30
LFB	Alpha-BHC	4.02	LCS	P	0 - 30
LFB	Alpha-Chlordane	13.1	LCS	P	0 - 30
LFB	Beta-BHC	6.00	LCS	P	0 - 30
LFB	Carbophenothion	26.4	LCS	P	0 - 30
LFB	Chlorothalonil	4.22	LCS	P	0 - 30
LFB	Cypermethrin	13.2	LCS	P	0 - 30
LFB	DDD-p,p'	15.8	LCS	P	0 - 30
LFB	DDE-p,p'	10.5	LCS	P	0 - 30
LFB	DDT-p,p'	9.02	LCS	P	0 - 30
LFB	Delta-BHC	5.65	LCS	P	0 - 30
LFB	Dicofol	1.83	LCS	P	0 - 30
LFB	Dieldrin	14.9	LCS	P	0 - 30
LFB	Endosulfan I	7.40	LCS	P	0 - 30
LFB	Endosulfan II	11.7	LCS	P	0 - 30
LFB	Endosulfan Sulfate	17.0	LCS	P	0 - 30
LFB	Endrin	12.7	LCS	P	0 - 30
LFB	Endrin Aldehyde	20.7	LCS	P	0 - 30
LFB	Endrin Ketone	8.99	LCS	P	0 - 30
LFB	Gamma-BHC	15.0	LCS	P	0 - 30
LFB	Gamma-Chlordane	13.1	LCS	P	0 - 30
LFB	Heptachlor	22.1	LCS	P	0 - 30
LFB	Heptachlor Epoxide	13.3	LCS	P	0 - 30
LFB	Methoxychlor	8.86	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P349286

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mirex	4.33	LCS	P	0 - 30
LFB	Permethrin	11.2	LCS	P	0 - 30
LFB	Trifluralin	5.60	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P349532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010748	Acetochlor	2.71	Spike	P	0 - 30
2010748	Alachlor	2.77	Spike	P	0 - 30
2010748	Ametryn	1.83	Spike	P	0 - 30
2010748	Atrazine	39.3	Spike	F	0 - 30
2010748	Atrazine Desethyl	30.1	Spike	F	0 - 30
2010748	Azinphos Methyl	14.1	Spike	P	0 - 30
2010748	Bromacil	10.3	Spike	P	0 - 30
2010748	Butylate	58.7	Spike	F	0 - 30
2010748	Chlorpyrifos Ethyl	2.77	Spike	P	0 - 30
2010748	Chlorpyrifos Methyl	3.31	Spike	P	0 - 30
2010748	Cyanazine	29.1	Spike	P	0 - 30
2010748	Demeton	3.30	Spike	P	0 - 30
2010748	Diazinon	0.932	Spike	P	0 - 30
2010748	Disulfoton	3.35	Spike	P	0 - 30
2010748	EPTC	66.1	Spike	F	0 - 30
2010748	Ethion	6.78	Spike	P	0 - 30
2010748	Ethoprop	2.34	Spike	P	0 - 30
2010748	Fenamiphos	6.88	Spike	P	0 - 30
2010748	Fipronil	25.2	Spike	P	0 - 30
2010748	Fipronil Sulfide	32.1	Spike	F	0 - 30
2010748	Fipronil Sulfone	54.9	Spike	F	0 - 30
2010748	Fonofos	2.51	Spike	P	0 - 30
2010748	Hexazinone	1.92	Spike	P	0 - 30
2010748	Malathion	6.11	Spike	P	0 - 30
2010748	Metaxyl	6.15	Spike	P	0 - 30
2010748	Metolachlor	1.96	Spike	P	0 - 30
2010748	Metribuzin	16.1	Spike	P	0 - 30
2010748	Mevinphos	2.92	Spike	P	0 - 30
2010748	Molinate	26.8	Spike	P	0 - 30
2010748	Norflurazon	34.7	Spike	F	0 - 30
2010748	Parathion Ethyl	5.23	Spike	P	0 - 30
2010748	Parathion Methyl	12.9	Spike	P	0 - 30
2010748	Pendimethalin	0.495	Spike	P	0 - 30
2010748	Phorate	3.45	Spike	P	0 - 30
2010748	Prometon	11.8	Spike	P	0 - 30
2010748	Prometryn	6.54	Spike	P	0 - 30
2010748	Simazine	0.708	Spike	P	0 - 30
2010748	Terbufos	1.89	Spike	P	0 - 30
2010748	Terbuthylazine	6.97	Spike	P	0 - 30
LFB	Acetochlor	15.6	LCS	P	0 - 30
LFB	Alachlor	17.8	LCS	P	0 - 30
LFB	Ametryn	16.0	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P349532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Atrazine	14.0	LCS	P	0 - 30
LFB	Atrazine Desethyl	4.45	LCS	P	0 - 30
LFB	Azinphos Methyl	14.4	LCS	P	0 - 30
LFB	Bromacil	0.0933	LCS	P	0 - 30
LFB	Butylate	21.4	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	16.0	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	16.3	LCS	P	0 - 30
LFB	Cyanazine	4.00	LCS	P	0 - 30
LFB	Demeton	20.9	LCS	P	0 - 30
LFB	Diazinon	16.9	LCS	P	0 - 30
LFB	Disulfoton	20.4	LCS	P	0 - 30
LFB	EPTC	19.0	LCS	P	0 - 30
LFB	Ethion	17.4	LCS	P	0 - 30
LFB	Ethoprop	16.2	LCS	P	0 - 30
LFB	Fenamiphos	15.3	LCS	P	0 - 30
LFB	Fipronil	12.0	LCS	P	0 - 30
LFB	Fipronil Sulfide	15.0	LCS	P	0 - 30
LFB	Fipronil Sulfone	16.7	LCS	P	0 - 30
LFB	Fonofos	19.4	LCS	P	0 - 30
LFB	Hexazinone	15.6	LCS	P	0 - 30
LFB	Malathion	16.1	LCS	P	0 - 30
LFB	Metaxyl	16.5	LCS	P	0 - 30
LFB	Metolachlor	17.5	LCS	P	0 - 30
LFB	Metribuzin	1.10	LCS	P	0 - 30
LFB	Mevinphos	21.3	LCS	P	0 - 30
LFB	Molinate	22.3	LCS	P	0 - 30
LFB	Norflurazon	12.4	LCS	P	0 - 30
LFB	Parathion Ethyl	15.8	LCS	P	0 - 30
LFB	Parathion Methyl	12.3	LCS	P	0 - 30
LFB	Pendimethalin	18.1	LCS	P	0 - 30
LFB	Phorate	19.1	LCS	P	0 - 30
LFB	Prometon	18.6	LCS	P	0 - 30
LFB	Prometryn	16.9	LCS	P	0 - 30
LFB	Simazine	9.51	LCS	P	0 - 30
LFB	Terbufos	16.5	LCS	P	0 - 30
LFB	Terbuthylazine	12.9	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P349286

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010747	Chlordane	7.60	Spike	P	0 - 30
2010747	Toxaphene	0.437	Spike	P	0 - 30
LFB	Chlordane	0.727	LCS	P	0 - 30
LFB	Toxaphene	17.0	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P349092

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010342	2,4-D	12.6	Spike	P	0 - 30
2010342	Acetaminophen	1.31	Spike	P	0 - 30
2010342	Bentazon	10.8	Spike	P	0 - 30
2010342	Carbamazepine	9.90	Spike	P	0 - 30
2010342	Diuron	1.71	Spike	P	0 - 30
2010342	Fenuron	6.74	Spike	P	0 - 30
2010342	Fluridone	7.85	Spike	P	0 - 30
2010342	Hydrocodone	11.5	Spike	P	0 - 30
2010342	Imazapyr	9.50	Spike	P	0 - 30
2010342	Imidacloprid	8.02	Spike	P	0 - 30
2010342	Linuron	7.94	Spike	P	0 - 30
2010342	MCP	5.05	Spike	P	0 - 30
2010342	Primidone	0.991	Spike	P	0 - 30
2010342	Pyraclostrobin	3.92	Spike	P	0 - 30
2010342	Triclopyr	4.33	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P349176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010469	Acesulfame K	48.1	Spike	F	0 - 30
2010469	Endothall	13.3	Spike	P	0 - 30
2010469	Sucralose	19.7	Spike	P	0 - 30
2010746	AMPA	0.470	Spike	P	0 - 30
2010746	Glufosinate	11.5	Spike	P	0 - 30
2010746	Glyphosate	5.33	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P349225

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010745	3-Hydroxycarbofuran	44.7	Spike	F	0 - 30
2010745	Aldicarb	16.9	Spike	P	0 - 30
2010745	Aldicarb Sulfone	50.7	Spike	F	0 - 30
2010745	Aldicarb Sulfoxide	8.42	Spike	P	0 - 30
2010745	Carbaryl	8.38	Spike	P	0 - 30
2010745	Carbofuran	20.3	Spike	P	0 - 30
2010745	Methiocarb	2.75	Spike	P	0 - 30
2010745	Methomyl	66.9	Spike	F	0 - 30
2010745	Oxamyl	37.4	Spike	F	0 - 30
2010745	Propoxur	28.1	Spike	P	0 - 30
LFB	3-Hydroxycarbofuran	9.72	LCS	P	0 - 30
LFB	Aldicarb	22.5	LCS	P	0 - 30
LFB	Aldicarb Sulfone	20.0	LCS	P	0 - 30
LFB	Aldicarb Sulfoxide	2.03	LCS	P	0 - 30
LFB	Carbaryl	1.84	LCS	P	0 - 30
LFB	Carbofuran	9.20	LCS	P	0 - 30
LFB	Methiocarb	0.627	LCS	P	0 - 30
LFB	Methomyl	23.8	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P349225

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Oxamyl	19.0	LCS	P	0 - 30
LFB	Propoxur	4.69	LCS	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P349166

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010615	Color (true)	0.931	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P349167

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010478	Color (true)	4.47	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P349169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010726	Color (true)	0.390	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P349353

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010787	Total Alkalinity	0.845	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P349674

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010624	TDS	3.50	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P349357

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010787	Fluoride	0.511	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P349457

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2010631	Organic Carbon	1.58	Spike	P	0 - 20

Quality Assurance Report

Precision

* 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: 2010745
Field Sample ID: G3SD0088

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	45.9	P	30 - 160

Lab Sample ID: 2010746
Field Sample ID: G3SD0088

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	113	P	30 - 160
EPA 8321B	Acetaminophen-d4	62.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.8	P	30 - 160
EPA 8321B	Diuron-d6	61.0	P	30 - 160
EPA 8321B	Endothall-d6	105	P	40 - 160
EPA 8321B	Endothall-d6	105	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	93.2	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	93.2	P	40 - 160
EPA 8321B	Primidone-d5	74.5	P	30 - 160
EPA 8321B	Sucralose-d6	132	P	40 - 160
EPA 8321B	Sucralose-d6	132	P	40 - 160

Lab Sample ID: 2010747
Field Sample ID: G3SD0088

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	78.1	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	50.1	P	34 - 101
EPA 8276	Decachlorobiphenyl	63.8	P	31 - 108
EPA 8276	PCNB	81.3	P	62 - 142

Lab Sample ID: 2010748
Field Sample ID: G3SD0088

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	102	P	71 - 126
EPA 8270D	Terbufos-d10	117	P	59 - 149

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A85472

Included Lab Sample IDs: 2010719, 2010720, 2010725, 2010726

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	102	P/P	95 - 105
Turbidity	103	102	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A85473

Included Lab Sample IDs: 2010723, 2010724, 2010729, 2010730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.0	97.6	P/P	90 - 110
O-Phosphate-P	98.1	96.1	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A85480

Included Lab Sample IDs: 2010719, 2010720, 2010725, 2010726

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	104	105	P/P	90 - 115
Color (true)	105	106	P/P	90 - 115
Color (true)	106	106	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A85538

Included Lab Sample IDs: 2010721, 2010722, 2010727, 2010728

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A85544

Included Lab Sample IDs: 2010749, 2010750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.3	99.5	P/P	90 - 110
Iron	99.7	98.8	P/P	90 - 110
Magnesium	99.0	98.6	P/P	90 - 110
Potassium	99.2	98.9	P/P	90 - 110
Sodium	98.3	98.5	P/P	90 - 110
Zinc	99.8	99.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A85545

Included Lab Sample IDs: 2010746

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	132	135	P/P	60 - 160
Glufosinate	88.6	90.7	P/P	60 - 160
Glyphosate	105	121	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A85546

Included Lab Sample IDs: 2010719, 2010720, 2010725, 2010726

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.5	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A85546

Included Lab Sample IDs: 2010719, 2010720, 2010725, 2010726

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A85560

Included Lab Sample IDs: 2010719, 2010720, 2010725, 2010726

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	105	P/P	90 - 110
Chloride	105	106	P/P	90 - 110
Sulfate	101	105	P/P	90 - 110
Sulfate	105	108	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A85567

Included Lab Sample IDs: 2010746

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	108	159	P/P	60 - 160
Endothall	114	105	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A85574

Included Lab Sample IDs: 2010721, 2010722, 2010727, 2010728

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	96.6	98.6	P/P	90 - 110
Total-P	97.9	96.6	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A85590

Included Lab Sample IDs: 2010721, 2010722, 2010727, 2010728

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.0	97.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A85594

Included Lab Sample IDs: 2010721, 2010722

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	91.5	96.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A85602
Included Lab Sample IDs: 2010746

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	122	110	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A85609
Included Lab Sample IDs: 2010746

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	78.6	86.8	P/P	50 - 150
Bentazon	117	123	P/P	50 - 150
MCP	83.0	86.7	P/P	50 - 150
Triclopyr	95.0	90.0	P/P	50 - 160

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A85615
Included Lab Sample IDs: 2010727, 2010728

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	100	P/P	90 - 110
Kjeldahl Nitrogen	94.1	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A85621
Included Lab Sample IDs: 2010721, 2010722, 2010727, 2010728

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

Reference Method: EPA 8321B
Run ID: A85635
Included Lab Sample IDs: 2010746

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	87.9	64.7	P/P	60 - 150
Carbamazepine	96.1	87.8	P/P	60 - 150
Diuron	93.6	85.2	P/P	60 - 150
Fenuron	77.4	72.0	P/P	60 - 150
Fluridone	91.4	92.9	P/P	60 - 160
Hydrocodone	88.4	80.7	P/P	60 - 150
Imazapyr	98.7	108	P/P	50 - 150
Imidacloprid	76.4	72.5	P/P	60 - 150
Linuron	86.2	84.8	P/P	60 - 150
Primidone	107	97.4	P/P	60 - 150
Pyraclostrobin	88.7	89.0	P/P	60 - 150

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A85664
Included Lab Sample IDs: 2010749, 2010750

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A85664

Included Lab Sample IDs: 2010749, 2010750

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cadmium	99.5	98.6	P/P	90 - 110
Chromium	97.0	95.6	P/P	90 - 110
Copper	99.8	99.1	P/P	90 - 110
Lead	96.3	95.2	P/P	90 - 110
Nickel	99.5	99.1	P/P	90 - 110
Silver	94.6	94.6	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A85674

Included Lab Sample IDs: 2010747

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	99.0		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	84.2		P	80 - 120
Carbophenothion	94.7		P	80 - 120
Chlorothalonil	90.3		P	80 - 120
Cypermethrin	105		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	105		P	80 - 120
Delta-BHC	99.8		P	80 - 120
Dicofol	97.4		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	97.9		P	80 - 120
Endosulfan Sulfate	102		P	80 - 120
Endrin	98.5		P	80 - 120
Endrin Aldehyde	99.7		P	80 - 120
Endrin Ketone	99.6		P	80 - 120
Gamma-BHC	107		P	80 - 120
Gamma-Chlordane	98.7		P	80 - 120
Heptachlor	97.8		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Methoxychlor	107		P	80 - 120
Mirex	97.1		P	80 - 120
Permethrin	101		P	80 - 120
Trifluralin	99.1		P	80 - 120

Reference Method: EPA 8276

Run ID: A85750

Included Lab Sample IDs: 2010747

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.9		P	80 - 120
Toxaphene	89.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
 Run ID: A85767
 Included Lab Sample IDs: 2010745

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	104	85.4	P/P	50 - 150
Aldicarb	75.7	84.1	P/P	60 - 150
Aldicarb Sulfone	117	130	P/P	50 - 150
Aldicarb Sulfoxide	102	109	P/P	50 - 150
Carbaryl	97.9	93.0	P/P	60 - 150
Carbofuran	97.2	90.0	P/P	50 - 150
Methiocarb	104	84.6	P/P	50 - 150
Methomyl	113	113	P/P	50 - 150
Oxamyl	107	127	P/P	50 - 150
Propoxur	95.5	94.6	P/P	50 - 150

Reference Method: EPA 8270D
 Run ID: A85884
 Included Lab Sample IDs: 2010748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	94.5		P	80 - 120
Alachlor	96.2		P	80 - 120
Ametryn	95.8		P	80 - 120
Atrazine Desethyl	105		P	80 - 120
Azinphos Methyl	96.3		P	80 - 120
Bromacil	97.9		P	80 - 120
Butylate	89.9		P	80 - 120
Chlorpyrifos Ethyl	97.0		P	80 - 120
Chlorpyrifos Methyl	97.6		P	80 - 120
Cyanazine	103		P	80 - 120
Demeton	106		P	80 - 120
Diazinon	96.0		P	80 - 120
Disulfoton	94.7		P	80 - 120
EPTC	97.1		P	80 - 120
Ethion	94.5		P	80 - 120
Ethoprop	99.3		P	80 - 120
Fenamiphos	93.2		P	80 - 120
Fipronil	93.7		P	80 - 120
Fipronil Sulfide	96.3		P	80 - 120
Fipronil Sulfone	96.7		P	80 - 120
Fonofos	97.8		P	80 - 120
Hexazinone	99.1		P	80 - 120
Malathion	97.9		P	80 - 120
Metalaxyl	96.6		P	80 - 120
Metolachlor	98.7		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	100		P	80 - 120
Norflurazon	97.5		P	80 - 120
Parathion Ethyl	93.5		P	80 - 120
Parathion Methyl	94.4		P	80 - 120
Pendimethalin	102		P	80 - 120
Phorate	95.1		P	80 - 120
Prometon	94.5		P	80 - 120
Prometryn	94.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A85884

Included Lab Sample IDs: 2010748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Simazine	95.9		P	80 - 120
Terbufos	94.4		P	80 - 120
Terbuthylazine	94.5		P	80 - 120

Reference Method: EPA 8270D

Run ID: A85889

Included Lab Sample IDs: 2010748

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	97.6		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	
							LCS	MS
EPA 180.1 Rev. 2.0	Turbidity						6.56	
	Turbidity						3.58	
EPA 200.7 Rev. 4.4	Calcium	101		101	101			0.497
	Iron	104		101	99.7	101		0.980
	Magnesium	101		99.5	99.2			0.562
	Potassium	101		97.2	100	100		0.223
	Sodium	98.3		96.5	99.3			0.833
	Zinc	102		104	99.0	98.3		0.688
EPA 200.8 Rev. 5.4	Arsenic	99.3		104	102	102		0.0953
	Cadmium	101		102	99.6	102		2.66
	Chromium	95.7		95.3	96.1	96.0		0.193
	Copper	98.0		99.6	95.0	95.8		0.799
	Lead	94.5		97.8	95.4	95.2		0.195
	Nickel	100		101	96.7	98.1		1.41
	Silver	97.3		98.0	96.4	96.1		0.379
EPA 300.0 Rev. 2.1	Chloride	105		109	103		0.338	
	Sulfate	105		108	101		0.344	
EPA 350.1 Rev. 2.0	Ammonia-N	102		105	104			1.01
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.8		99.7	98.8			0.558
	Kjeldahl Nitrogen	100		101	98.6			2.06
EPA 353.2 Rev. 2.0	NO2NO3-N	102		99.8				0.437
EPA 365.1 Rev. 2.0	Total-P	97.8		94.4	96.5			1.81
	Total-P	95.2		90.8	92.9			2.16
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.4		97.3	97.7			0.358
	O-Phosphate-P	99.1		98.4	97.8			0.445
EPA 8270D	Acetochlor	102	86.9	102	105	15.6		2.71
	Alachlor	85.3	102	106	109	17.8		2.77
	Aldrin	56.8	48.1	82.4	69.4	16.5		17.1
	Alpha-BHC	78.8	75.7	91.4	88.9	4.02		2.73
	Alpha-Chlordane	89.9	78.9	96.8	87.0	13.1		10.6
	Ametryn	102	87.3			16.0		1.83
	Atrazine	101	88.1			14.0		39.3
	Atrazine Desethyl	73.0	69.8	42.8	92.7	4.45		30.1
	Azinphos Methyl	106	91.7	97.2	112	14.4		14.1
	Beta-BHC	94.6	100	101	101	6.00		0.504
	Bromacil	77.0	77.0			0.0933		10.3
	Butylate	69.2	55.8	64.5	35.2	21.4		58.7
	Carbophenothion	84.3	64.6	140	127	26.4		10.3
	Chlorothalonil	90.3	86.6	21.4	21.5	4.22		0.702
	Chlorpyrifos Ethyl	99.7	84.9			16.0		2.77
	Chlorpyrifos Methyl	96.3	81.8	96.2	99.4	16.3		3.31
	Cyanazine	117	112	101	135	4.00		29.1
	Cypermethrin	96.9	84.9	123	118	13.2		3.98
	DDD-p,p'	94.4	80.6	99.4	87.6	15.8		12.7
	DDE-p,p'	95.2	85.7	97.9	90.3	10.5		8.12
	DDT-p,p'	96.3	88.0	91.5	88.9	9.02		2.79
	Delta-BHC	109	103	124	115	5.65		7.99
	Demeton	69.3	85.6	84.6	81.9	20.9		3.30
	Diazinon	104	87.7	114	116	16.9		0.932
	Dicofol	96.7	98.5	99.6	92.1	1.83		7.76
	Dieldrin	106	91.0	101	95.4	14.9		6.19
	Disulfoton	84.1	68.6	90.9	94.0	20.4		3.35
	Endosulfan I	90.4	84.0	99.7	97.3	7.40		2.48
	Endosulfan II	91.9	81.8	115	91.0	11.7		23.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Endosulfan Sulfate	93.5	78.8	104	99.2	17.0	4.28
	Endrin	88.2	77.7	95.4	87.1	12.7	9.07
	Endrin Aldehyde	94.1	76.5	78.0	73.0	20.7	6.63
	Endrin Ketone	93.9	85.8	104	105	8.99	0.836
	EPTC	68.0	56.2	64.1	32.3	19.0	66.1
	Ethion	103	86.7	96.9	104	17.4	6.78
	Ethoprop	87.4	74.3	93.8	91.6	16.2	2.34
	Fenamiphos	96.1	82.4	88.5	94.8	15.3	6.88
	Fipronil	96.2	85.4	75.8	97.6	12.0	25.2
	Fipronil Sulfide	92.3	79.4	65.8	90.9	15.0	32.1
	Fipronil Sulfone	84.6	71.6	42.4	74.5	16.7	54.9
	Fonofos	89.3	73.4	95.8	98.2	19.4	2.51
	Gamma-BHC	107	91.7	112	99.3	15.0	12.3
	Gamma-Chlordane	87.8	77.0	96.0	86.3	13.1	10.6
	Heptachlor	71.7	57.5	85.0	73.2	22.1	14.9
	Heptachlor Epoxide	90.0	78.8	99.4	88.2	13.3	11.9
	Hexazinone	104	88.8			15.6	1.92
	Malathion	105	89.2	97.9	104	16.1	6.11
	Metalaxyl	99.9	84.7	103	112	16.5	6.15
	Methoxychlor	96.8	88.6	101	95.7	8.86	5.62
	Metolachlor	107	89.7			17.5	1.96
	Metribuzin	97.6	96.6	134	158	1.10	16.1
	Mevinphos	87.4	70.5	88.3	90.9	21.3	2.92
	Mirex	81.4	77.9	88.1	85.7	4.33	2.74
	Molinate	75.4	60.3	69.1	52.8	22.3	26.8
	Norflurazon	93.8	82.9			12.4	34.7
	Parathion Ethyl	96.7	82.6	96.9	102	15.8	5.23
	Parathion Methyl	97.9	86.5	97.1	110	12.3	12.9
	Pendimethalin	118	98.3	138	138	18.1	0.495
	Permethrin	92.0	82.2	111	105	11.2	5.05
	Phorate	79.8	65.9	98.0	94.6	19.1	3.45
	Prometon	99.8	82.8	91.5	103	18.6	11.8
	Prometryn	101	85.5	105	112	16.9	6.54
	Simazine	102	92.3			9.51	0.708
	Terbufos	89.9	76.2	97.5	99.3	16.5	1.89
	Terbutylazine	102	89.2	98.8	106	12.9	6.97
	Trifluralin	88.6	83.8	95.5	90.5	5.60	5.40
EPA 8276	Chlordane	92.6	91.9	92.3	99.6	0.727	7.60
	Toxaphene	80.3	67.8	60.1	60.4	17.0	0.437
EPA 8321B	2,4-D	91.9		136	120		12.6
	3-Hydroxycarbofuran	89.8	99.0	50.3	79.3	9.72	44.7
	Acesulfame K	127		68.5	41.9		48.1
	Acetaminophen	87.4		74.0	75.0		1.31
	Aldicarb	68.5	54.7	43.3	51.3	22.5	16.9
	Aldicarb Sulfone	86.2	105	63.5	107	20.0	50.7
	Aldicarb Sulfoxide	95.3	93.4	40.6	44.2	2.03	8.42
	AMPA	107		78.7	78.1		0.470
	Bentazon	96.2		65.3	58.1		10.8
	Carbamazepine	81.8		56.9	51.6		9.90
	Carbaryl	69.8	68.5	45.7	49.7	1.84	8.38
	Carbofuran	75.9	69.2	41.9	51.4	9.20	20.3
	Diuron	62.4		53.2	52.3		1.71
	Endothall	110		71.1	62.2		13.3
	Fenuron	96.0		69.4	74.3		6.74

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
EPA 8321B	Fluridone	78.7		65.7	60.8		7.85
	Glufosinate	109		105	117		11.5
	Glyphosate	121		134	146		5.33
	Hydrocodone	84.3		80.2	71.5		11.5
	Imazapyr	98.7		79.3	97.1		9.50
	Imidacloprid	104		128	117		8.02
	Linuron	69.0		65.5	60.5		7.94
	MCPP	93.3		143	136		5.05
	Methiocarb	56.4	56.1	45.1	46.3	0.627	2.75
	Methomyl	81.3	103	53.7	108	23.8	66.9
	Oxamyl	82.5	99.8	56.2	82.0	19.0	37.4
	Primidone	107		75.4	74.7		0.991
	Propoxur	75.5	72.0	37.1	49.2	4.69	28.1
	Pyraclostrobin	70.2		71.3	68.6		3.92
	Sucralose	106		60.6	73.9		19.7
	Triclopyr	95.3		161	154		4.33
SM 2120 B	Color (true)	103					0.931
	Color (true)	104					4.47
	Color (true)	99.7					0.390
SM 2320 B-97	Total Alkalinity	103					0.845
SM 2540 C-97	TDS						3.50
SM 4500 F-C-97	Fluoride	97.4		101	100		0.511
SM 5310 B-00	Organic Carbon	92.8		94.6	92.2		1.58

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2010719, 2010720, 2010725, 2010726
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2010749, 2010750
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2010749, 2010750
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2010719, 2010720, 2010725, 2010726
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2010719, 2010720, 2010725, 2010726
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2010721, 2010722, 2010727, 2010728
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2010721, 2010722, 2010727, 2010728
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2010721, 2010722, 2010727, 2010728
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2010721, 2010722, 2010727, 2010728
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2010723, 2010724, 2010729, 2010730
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2010747
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	2010748
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2010747
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2010745
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2010746
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2010746

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 2120 B / E31780	True Color measured at 450 nm	2010719, 2010720, 2010725, 2010726
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2010719, 2010720, 2010725, 2010726
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2010719, 2010720, 2010725, 2010726
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2010719, 2010720, 2010725, 2010726
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2010719, 2010720, 2010725, 2010726
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2010721, 2010722, 2010727, 2010728

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	07/25/2018			07/25/2018 16:44	William L. Brown IV	2010719, 2010720, 2010725, 2010726
EPA 200.7 Rev. 4.4	07/25/2018	07/26/2018 14:30	Elliott D. Healy	07/27/2018 17:05	Betina Topolski	2010749
	07/25/2018	07/26/2018 14:30	Elliott D. Healy	07/27/2018 17:12	Betina Topolski	2010750
EPA 200.8 Rev. 5.4	07/25/2018	07/26/2018 14:30	Elliott D. Healy	08/02/2018 23:48	Allison Taylor	2010749
	07/25/2018	07/26/2018 14:30	Elliott D. Healy	08/02/2018 23:58	Allison Taylor	2010750
EPA 300.0 Rev. 2.1	07/25/2018			07/30/2018 20:34	Lipi Saha	2010719
	07/25/2018			07/30/2018 20:46	Lipi Saha	2010720
	07/25/2018			07/30/2018 20:58	Lipi Saha	2010725
	07/25/2018			07/30/2018 21:33	Lipi Saha	2010726
EPA 350.1 Rev. 2.0	07/25/2018			08/01/2018 11:43	Ping Hua	2010728
	07/25/2018			08/01/2018 11:51	Ping Hua	2010721
	07/25/2018			08/01/2018 13:44	Ping Hua	2010722
	07/25/2018			08/01/2018 13:45	Ping Hua	2010727
EPA 351.2 Rev. 2.0	07/25/2018	07/30/2018 10:15	Adrian Shelby	07/31/2018 14:43	Joseph Suarez	2010721
	07/25/2018	07/30/2018 10:15	Adrian Shelby	07/31/2018 14:45	Joseph Suarez	2010722
	07/25/2018	07/30/2018 10:15	Adrian Shelby	08/01/2018 13:26	Joseph Suarez	2010727
	07/25/2018	07/30/2018 10:15	Adrian Shelby	08/01/2018 13:31	Joseph Suarez	2010728
EPA 353.2 Rev. 2.0	07/25/2018			07/27/2018 13:39	Lauren Bottorf	2010721
	07/25/2018			07/27/2018 13:40	Lauren Bottorf	2010722
	07/25/2018			07/27/2018 13:42	Lauren Bottorf	2010727
	07/25/2018			07/27/2018 13:43	Lauren Bottorf	2010728
EPA 365.1 Rev. 2.0	07/25/2018	07/30/2018 11:20	Sima Feizi	07/31/2018 09:34	Beverly Y. Sanders	2010721
	07/25/2018	07/30/2018 11:20	Sima Feizi	07/31/2018 09:35	Beverly Y. Sanders	2010722
	07/25/2018	07/30/2018 11:20	Sima Feizi	07/31/2018 09:44	Beverly Y. Sanders	2010727
	07/25/2018	07/30/2018 11:20	Sima Feizi	07/31/2018 09:45	Beverly Y. Sanders	2010728
EPA 365.1 Rev. 2.0 dissolved	07/25/2018			07/25/2018 17:36	Julia Storbeck	2010723
	07/25/2018			07/25/2018 17:37	Julia Storbeck	2010724
	07/25/2018			07/25/2018 17:38	Julia Storbeck	2010729
	07/25/2018			07/25/2018 18:01	Julia Storbeck	2010730
EPA 8270D	07/25/2018	07/27/2018 09:00	Fe-Val Siddell	08/01/2018 18:05	Dinesh Mishra	2010747
	07/25/2018	07/30/2018 09:39	Dinesh Mishra	08/03/2018 16:54	Vandana T. Nagar	2010748
	07/25/2018	07/30/2018 09:39	Dinesh Mishra	08/07/2018 14:16	Vandana T. Nagar	2010748
EPA 8276	07/25/2018	07/27/2018 09:00	Fe-Val Siddell	08/02/2018 08:39	Arthur Maknenko	2010747
EPA 8321B	07/25/2018	07/27/2018 11:00	Hoor Shaik	07/29/2018 01:53	Juyoung Kim	2010746
	07/25/2018	07/27/2018 11:00	Hoor Shaik	08/01/2018 05:48	Juyoung Kim	2010746
	07/25/2018	07/27/2018 14:50	Hoor Shaik	07/29/2018 11:28	Mohammad Ghaffari	2010746
	07/25/2018	07/27/2018 14:50	Hoor Shaik	07/30/2018 13:28	Mohammad Ghaffari	2010746
	07/25/2018	07/27/2018 14:50	Hoor Shaik	07/30/2018 18:27	Mohammad Ghaffari	2010746
	07/25/2018	07/27/2018 14:50	Hoor Shaik	08/01/2018 04:23	Mohammad Ghaffari	2010746
	07/25/2018	07/30/2018 10:00	Hoor Shaik	08/09/2018 05:27	Juyoung Kim	2010745

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2120 B	07/25/2018			07/25/2018 17:23	Tanya Welborn	2010720, 2010725
	07/25/2018			07/25/2018 17:27	Tanya Welborn	2010719
	07/25/2018			07/25/2018 17:43	Tanya Welborn	2010726
SM 2320 B-97	07/25/2018			07/27/2018 02:50	Dale L. Simmons	2010719
	07/25/2018			07/27/2018 03:00	Dale L. Simmons	2010720
	07/25/2018			07/27/2018 03:11	Dale L. Simmons	2010725
	07/25/2018			07/27/2018 03:22	Dale L. Simmons	2010726
SM 2540 C-97	07/25/2018			07/28/2018 20:08	Yijie Li	2010719, 2010720, 2010725, 2010726
SM 2540 D-97	07/25/2018			07/28/2018 23:02	Yijie Li	2010719, 2010720, 2010725, 2010726
SM 4500 F-C-97	07/25/2018			07/27/2018 02:50	Dale L. Simmons	2010719
	07/25/2018			07/27/2018 03:00	Dale L. Simmons	2010720
	07/25/2018			07/27/2018 03:11	Dale L. Simmons	2010725
	07/25/2018			07/27/2018 03:22	Dale L. Simmons	2010726
SM 5310 B-00	07/25/2018			07/30/2018 19:17	Megan Treadwell	2010721
	07/25/2018			07/30/2018 19:31	Megan Treadwell	2010722
	07/25/2018			07/30/2018 19:44	Megan Treadwell	2010727
	07/25/2018			07/30/2018 19:58	Megan Treadwell	2010728