

Chemical Analysis Report

NE-DIST-2019-05-29-01

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

Event Description: **LSJR West Boat**
Request ID: **RQ-2019-05-27-12**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 20-JUN-2019 10:48

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

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program 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: FISHING CREEK AT WESCONNETT

Collection Date/Time: 05/28/2019 11:15

Field ID: 20030608

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2089534	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P364699	
	EPA 300.0 Rev. 2.1	Chloride	28	A	mg Cl/L	P364935	
		Sulfate	18	A	mg SO4/L	P364937	
	SM 2120 B	Color (true)	36		PCU	P364663	
	SM 2320 B-97	Total Alkalinity	109		mg CaCO3/L	P365079	
	SM 2540 C-97	TDS	174		mg/L	P365258	
	SM 2540 D-97	TSS	2	U	mg/L	P365056	
	SM 4500 F-C-97	Fluoride	0.14		mg F/L	P365084	
2089535	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P364916	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.40		mg N/L	P364962	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.030		mg N/L	P364728	
	EPA 365.1 Rev. 2.0	Total-P	0.085		mg P/L	P364901	
	SM 5310 B-00	Organic Carbon	7.1		mg C/L	P364799	
2089536	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.045		mg P/L	P364677	
2089560	EPA 200.7 Rev. 4.4	Barium	44.3		ug/L	P364766	
		Calcium	41.4		mg/L	P364766	
		Iron	310		ug/L	P364766	
		Magnesium	5.21		mg/L	P364766	
		Potassium	2.8		mg/L	P364766	
		Sodium	19.2		mg/L	P364766	
		Zinc	5.0	U	ug/L	P364766	
	EPA 200.8 Rev. 5.4	Aluminum	47		ug/L	P364766	
		Antimony	0.11	I	ug/L	P364766	
		Arsenic	0.90		ug/L	P364766	
		Boron**	39.0		ug/L	P364766	
		Cadmium	0.020	U	ug/L	P364766	
		Chromium	0.40	U	ug/L	P364766	
		Copper	0.84		ug/L	P364766	
		Lead	0.20	U	ug/L	P364766	
		Nickel	0.50	U	ug/L	P364766	
		Selenium	0.20	U	ug/L	P364766	
		Silver	0.010	U	ug/L	P364766	
		Thallium	0.10	U	ug/L	P364766	

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: CEDAR CR BLANDING BLVD BR RT 21

Collection Date/Time: 05/28/2019 12:50

Field ID: 20030083

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2089528	EPA 180.1 Rev. 2.0	Turbidity	5.7		NTU	P364699	
	EPA 300.0	Bromide	8.9		mg Br/L	P364877	
	SM 2320 B-97	Total Alkalinity	97		mg CaCO3/L	P365082	
	SM 2540 D-97	TSS	6	I	mg/L	P365062	
	SM 4500 F-C-97	Fluoride	0.28		mg F/L	P365086	
2089530	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P364915	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.75		mg N/L	P364897	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P364988	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P364904	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P364799	
2089532	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.037		mg P/L	P364678	
2089558	EPA 200.7 Rev. 4.4	Iron	190		ug/L	P364766	
		Manganese	54.2		ug/L	P364766	
		Zinc	5.8	I	ug/L	P364766	
	EPA 200.8 Rev. 5.4	Aluminum	156		ug/L	P364766	
		Antimony	0.33		ug/L	P364766	
		Arsenic	2.89		ug/L	P364766	
		Cadmium	0.020	U	ug/L	P364766	
		Chromium	0.40	U	ug/L	P364766	
		Copper	1.73		ug/L	P364766	
		Lead	1.3		ug/L	P364766	
		Nickel	0.55	I	ug/L	P364766	
		Selenium	0.21	I	ug/L	P364766	
		Silver	0.010	U	ug/L	P364766	
		Thallium	0.30	U	ug/L	P364766	

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: ORTEGA R BR ROOSEVELT BLVD US 17

Collection Date/Time: 05/28/2019 13:10

Field ID: 20030077

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2089529	EPA 180.1 Rev. 2.0	Turbidity	7.1		NTU	P364699	
	EPA 300.0	Bromide	14		mg Br/L	P364877	
	SM 2320 B-97	Total Alkalinity	79		mg CaCO3/L	P364930	
	SM 2540 D-97	TSS	6	IA	mg/L	P365062	
	SM 4500 F-C-97	Fluoride	0.33		mg F/L	P364932	
2089531	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P364915	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.69		mg N/L	P364897	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P364988	
	EPA 365.1 Rev. 2.0	Total-P	0.085		mg P/L	P364904	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P364799	
2089533	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.037		mg P/L	P364678	
2089559	EPA 200.7 Rev. 4.4	Iron	220		ug/L	P364772	
		Manganese	27.2		ug/L	P364772	
		Zinc	5.0	U	ug/L	P364772	
	EPA 200.8 Rev. 5.4	Aluminum	280		ug/L	P364772	
		Antimony	0.20	U	ug/L	P364772	
		Arsenic	2.0		ug/L	P364772	
		Cadmium	0.080	U	ug/L	P364772	
		Chromium	4.0	U	ug/L	P364772	
		Copper	2.7	I	ug/L	P364772	
		Lead	0.95	I	ug/L	P364772	
		Nickel	2.0	U	ug/L	P364772	
		Selenium	0.80	U	ug/L	P364772	
		Silver	0.040	U	ug/L	P364772	
		Thallium	0.40	U	ug/L	P364772	

Ref. Method and Comment:

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

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: GOODBYS CR AT BAYMEADOWS

Collection Date/Time: 05/28/2019 14:25

Field ID: 20030593

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2089525	EPA 180.1 Rev. 2.0	Turbidity	6.5		NTU	P364699	
	EPA 300.0	Bromide	5.9		mg Br/L	P364877	
	SM 2320 B-97	Total Alkalinity	102		mg CaCO3/L	P365082	
	SM 2540 D-97	TSS	7	I	mg/L	P365062	
	SM 4500 F-C-97	Fluoride	0.22		mg F/L	P365086	
2089526	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P364915	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P364897	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P364988	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P364904	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P364799	
2089527	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.015		mg P/L	P364678	
2089557	EPA 200.7 Rev. 4.4	Iron	710		ug/L	P364766	
		Manganese	47.0		ug/L	P364766	
		Zinc	5.0	U	ug/L	P364766	
	EPA 200.8 Rev. 5.4	Aluminum	74		ug/L	P364766	
		Antimony	0.17	I	ug/L	P364766	
		Arsenic	4.48		ug/L	P364766	
		Cadmium	0.020	U	ug/L	P364766	
		Chromium	0.40	U	ug/L	P364766	
		Copper	1.04		ug/L	P364766	
		Lead	0.46		ug/L	P364766	
		Nickel	0.50	U	ug/L	P364766	
		Selenium	0.20	U	ug/L	P364766	
		Silver	0.010	U	ug/L	P364766	
		Thallium	0.10	U	ug/L	P364766	

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: GOODBYS CR @ SR-13

Collection Date/Time: 05/28/2019 14:50

Field ID: 20030518

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2089522	EPA 180.1 Rev. 2.0	Turbidity	4.3		NTU	P364699	
	EPA 300.0	Bromide	8.1		mg Br/L	P364877	
	SM 2320 B-97	Total Alkalinity	83		mg CaCO3/L	P365082	
	SM 2540 D-97	TSS	7	I	mg/L	P365062	
	SM 4500 F-C-97	Fluoride	0.25		mg F/L	P365086	
2089523	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P364915	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.77		mg N/L	P364897	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P364988	
	EPA 365.1 Rev. 2.0	Total-P	0.076		mg P/L	P364904	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P364798	
2089524	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.022		mg P/L	P364678	
2089542	EPA 8321B	Aldicarb	0.020	U	ug/L	P364627	
		Aldicarb Sulfone	0.0020	U	ug/L	P364627	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P364627	MS
		Carbaryl	0.0020	U	ug/L	P364627	
		Carbofuran	0.0020	U	ug/L	P364627	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P364627	
		Methiocarb	0.0020	U	ug/L	P364627	
		Methomyl	0.0020	U	ug/L	P364627	
		Oxamyl	0.0020	U	ug/L	P364627	
		Propoxur	0.0020	U	ug/L	P364627	
		2,4-D	0.0038	I	ug/L	P364627	
		Acesulfame K**	0.10	UJ	ug/L	P364605	SUR
		AMPA**	1.0	U	ug/L	P364605	
		Sucralose**	0.72		ug/L	P364605	
2089543		Acetaminophen**	0.0080	U	ug/L	P364627	
		Endothall**	0.25	UJ	ug/L	P364605	SUR
		Glufosinate**	1.0	U	ug/L	P364605	
		Bentazon	0.019		ug/L	P364627	
		Glyphosate**	1.0	U	ug/L	P364605	
		Carbamazepine**	0.0011	I	ug/L	P364627	
		Diuron	0.0084		ug/L	P364627	
		Fenuron	0.016	U	ug/L	P364627	
		Fluridone**	0.018		ug/L	P364627	
		Imazapyr**	0.098	J	ug/L	P364627	RPD
		Hydrocodone**	0.0020	U	ug/L	P364627	
		Ibuprofen**	0.020	U	ug/L	P364627	
		Imidacloprid	0.015	J	ug/L	P364627	MS
		Linuron	0.0040	U	ug/L	P364627	
		MCP	0.0020	UJ	ug/L	P364627	MS
		Naproxen**	0.0080	U	ug/L	P364627	
		Primidone**	0.0040	U	ug/L	P364627	
		Pyraclostrobin**	0.0020	U	ug/L	P364627	

Field ID: 20030518

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2089543	EPA 8321B	Triclopyr**	0.0040	U	ug/L	P364627	
2089549	EPA 8270E	Aldrin	4.1	U	ng/L	P364810	
		Alpha-BHC	2.0	U	ng/L	P364810	
		Alpha-Chlordane	1.0	U	ng/L	P364810	
		Beta-BHC	10	U	ng/L	P364810	
		Bifenthrin**	4.1	U	ng/L	P364810	
		Delta-BHC	10	U	ng/L	P364810	
		Gamma-BHC	10	U	ng/L	P364810	
		Carbophenothion	12	U	ng/L	P364810	
		Chlorothalonil	2.0	U	ng/L	P364810	RPD
		Cis-Nonachlor**	1.0	U	ng/L	P364810	
		Cypermethrin	20	U	ng/L	P364810	
		DDD-p,p'	8.2	U	ng/L	P364810	
		DDE-p,p'	8.2	U	ng/L	P364810	
		DDT-p,p'	10	U	ng/L	P364810	
		Dicofol	31	U	ng/L	P364810	
		Dieldrin	4.1	U	ng/L	P364810	
		Endosulfan I	4.1	U	ng/L	P364810	
		Endosulfan II	4.1	U	ng/L	P364810	
		Endosulfan Sulfate	2.0	U	ng/L	P364810	
		Endrin	2.0	U	ng/L	P364810	
		Endrin Aldehyde	2.0	U	ng/L	P364810	
		Endrin Ketone	2.0	U	ng/L	P364810	
		Ethalfuralin**	3.1	U	ng/L	P364810	
		Gamma-Chlordane	1.0	U	ng/L	P364810	
		Heptachlor	1.5	U	ng/L	P364810	
		Heptachlor Epoxide	2.0	U	ng/L	P364810	
		Hexachlorobenzene**	2.0	U	ng/L	P364810	
		Methoxychlor	4.1	U	ng/L	P364810	
		Mirex	2.0	U	ng/L	P364810	
		Permethrin	10	U	ng/L	P364810	
		Trans-Nonachlor**	1.0	U	ng/L	P364810	
		Trifluralin	2.6	U	ng/L	P364810	
	EPA 8276	Chlordane	6.6	I	ng/L	P364810	
		Toxaphene	31	U	ng/L	P364810	
2089550	EPA 8270E	Acetochlor	0.25	U	ng/L	P364696	
		Alachlor	0.25	U	ng/L	P364696	
		Ametryn	2.0	I	ng/L	P364696	
		Atrazine	34		ng/L	P364696	
		Atrazine Desethyl	4.2	I	ng/L	P364696	
		Azinphos Methyl	5.1	U	ng/L	P364696	
		Bromacil	0.68	I	ng/L	P364696	
		Butylate	0.41	U	ng/L	P364696	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P364696	
		Chlorpyrifos Methyl	0.10	U	ng/L	P364696	

Field ID: 20030518

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2089550	EPA 8270E	Cyanazine	3.3	U	ng/L	P364696	
		Demeton	7.1	U	ng/L	P364696	
		Diazinon	0.13	U	ng/L	P364696	
		Dimethenamid**	0.10	U	ng/L	P364696	
		Disulfoton	0.51	U	ng/L	P364696	
		Dithiopyr**	0.18	I	ng/L	P364696	
		EPTC	1.3	U	ng/L	P364696	
		Ethion	0.15	U	ng/L	P364696	
		Ethoprop	0.10	U	ng/L	P364696	
		Fenamiphos	0.51	UJ	ng/L	P364696	LCS, RPD
		Fipronil	1.2		ng/L	P364696	
		Fipronil Desulfinyl**	0.47	I	ng/L	P364696	
		Fipronil Sulfide	0.99		ng/L	P364696	
		Fipronil Sulfone	2.0		ng/L	P364696	
		Fonofos	0.20	U	ng/L	P364696	
		Hexazinone	7.5		ng/L	P364696	
		Malathion	0.36	U	ng/L	P364696	
		Metaxyl	0.71	I	ng/L	P364696	
		Metolachlor	12		ng/L	P364696	
		Metribuzin	21		ng/L	P364696	
		Mevinphos	0.51	U	ng/L	P364696	
		Molinate	0.31	U	ng/L	P364696	
		Norflurazon	0.51	U	ng/L	P364696	
		Oxadiazon**	0.59		ng/L	P364696	
		Parathion Ethyl	0.25	U	ng/L	P364696	
		Parathion Methyl	0.56	UJ	ng/L	P364696	LCS
		Pendimethalin	1.0	U	ng/L	P364696	
		Phorate	0.25	U	ng/L	P364696	
		Prodiamine**	0.18	U	ng/L	P364696	
		Prometon	0.92	U	ng/L	P364696	
		Prometryn	0.20	U	ng/L	P364696	
		Simazine	4.7		ng/L	P364696	
		Tebuconazole**	1.6	I	ng/L	P364696	
		Terbufos	0.10	U	ng/L	P364696	
		Terbutylazine	0.43	U	ng/L	P364696	
2089556	EPA 200.7 Rev. 4.4	Iron	250		ug/L	P364766	
		Manganese	29.3		ug/L	P364766	
		Zinc	5.0	U	ug/L	P364766	
	EPA 200.8 Rev. 5.4	Aluminum	140		ug/L	P364766	
		Antimony	0.14	I	ug/L	P364766	
		Arsenic	2.36		ug/L	P364766	
		Cadmium	0.020	U	ug/L	P364766	
		Chromium	0.40	U	ug/L	P364766	
		Copper	1.57		ug/L	P364766	
		Lead	0.46		ug/L	P364766	

Field ID: 20030518

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2089556	EPA 200.8 Rev. 5.4	Nickel	0.50	U	ug/L	P364766	
		Selenium	0.20	U	ug/L	P364766	
		Silver	0.010	U	ug/L	P364766	
		Thallium	0.10	U	ug/L	P364766	

Ref. Method and Comment:

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

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

EPA 8321B: MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample. Refer to the narrative for an explanation of QC Codes.

EPA 8321B: Refer to the narrative for an explanation of QC Codes. Surrogate spike recovery exceeding the control limits. Results confirmed in sample duplicate. MDL for some parameters elevated due to matrix interference.

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P364699

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P364766

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Manganese	1.0	U	ug/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P364772

Component	Result	Code	Units
Iron	30	U	ug/L
Manganese	1.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364766

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364772

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364772

Component	Result	Code	Units
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0
Batch ID: P364877

Component	Result	Code	Units
Bromide	0.013	U	mg Br/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364935

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364937

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364915

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364916

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364897

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364962

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364728

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364988

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364901

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364904

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364677

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364678

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

Reference Method: EPA 8270E
Batch ID: P364696

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	5.0	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	3.2	U	ng/L
Demeton	7.0	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.10	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P364696

Component	Result	Code	Units
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	0.30	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	0.75	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270E
Batch ID: P364810

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	10	U	ng/L
Bifenthrin	4.0	U	ng/L
Carbophenothion	12	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	8.0	U	ng/L
DDE-p,p'	8.0	U	ng/L
DDT-p,p'	10	U	ng/L
Delta-BHC	10	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
Ethalfuralin	3.0	U	ng/L
Gamma-BHC	10	U	ng/L
Gamma-Chlordane	1.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P364810

Component	Result	Code	Units
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8276
Batch ID: P364810

Component	Result	Code	Units
Chlordane	5.0	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: EPA 8321B
Batch ID: P364605

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	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: P364627

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	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P364627

Component	Result	Code	Units
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: SM 2120 B
Batch ID: P364663

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P364930

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

Reference Method: SM 2320 B-97
Batch ID: P365079

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

Reference Method: SM 2320 B-97
Batch ID: P365082

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

Reference Method: SM 2540 C-97
Batch ID: P365258

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P365056

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P365062

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 4500 F-C-97
Batch ID: P364932

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P365084

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P365086

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P364798

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

Reference Method: SM 5310 B-00
Batch ID: P364799

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: P364766

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	100		P	85 - 115
Calcium	103		P	85 - 115
Iron	102		P	85 - 115
Magnesium	104		P	85 - 115
Manganese	98.7		P	85 - 115
Potassium	98.6		P	85 - 115
Sodium	102		P	85 - 115
Zinc	98.2		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P364772

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	103		P	85 - 115
Manganese	98.9		P	85 - 115
Zinc	98.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364766

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	102		P	85 - 115
Boron	101		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	101		P	85 - 115
Copper	101		P	85 - 115
Lead	95.3		P	85 - 115
Nickel	101		P	85 - 115
Selenium	101		P	85 - 115
Silver	102		P	85 - 115
Thallium	99.8		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364772

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.4		P	85 - 115
Antimony	99.6		P	85 - 115
Arsenic	101		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	102		P	85 - 115
Copper	98.7		P	85 - 115
Lead	92.1		P	85 - 115
Nickel	98.6		P	85 - 115
Selenium	100		P	85 - 115
Silver	99.4		P	85 - 115
Thallium	103		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0
Batch ID: P364877

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364935

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364937

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364916

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364897

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364962

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364728

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	99.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364988

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	99.5		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P364901

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P364904

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P364677

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P364678

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

Reference Method: EPA 8270E
 Batch ID: P364696

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	77.8	80.9	P/P	69 - 122
Alachlor	77.3	81.2	P/P	71 - 120
Ametryn	77.5	80.5	P/P	47 - 138
Atrazine	77.5	80.0	P/P	74 - 124
Atrazine Desethyl	42.8	38.7	P/P	38 - 138
Azinphos Methyl	79.4	86.7	P/P	69 - 154
Bromacil	47.9	50.9	P/P	39 - 121
Butylate	67.5	58.6	P/P	27 - 87.0
Chlorpyrifos Ethyl	85.0	80.1	P/P	69 - 118
Chlorpyrifos Methyl	77.6	71.6	P/P	70 - 120
Cyanazine	74.6	71.1	P/P	20 - 250
Demeton	52.8	45.1	P/P	39 - 118
Diazinon	71.4	74.6	P/P	68 - 127
Dimethenamid	79.8	82.7	P/P	66 - 125
Disulfoton	60.5	53.5	P/P	52 - 126
Dithiopyr	78.1	82.3	P/P	67 - 127
EPTC	63.2	57.9	P/P	24 - 88.0
Ethion	86.8	85.0	P/P	51 - 132
Ethoprop	79.2	74.9	P/P	58 - 117
Fenamiphos	37.0	41.0	F/P	38 - 139
Fipronil	68.3	72.6	P/P	61 - 124
Fipronil Desulfinyl	74.9	79.9	P/P	47 - 120
Fipronil Sulfide	82.1	78.5	P/P	56 - 119
Fipronil Sulfone	76.8	75.8	P/P	50 - 117
Fonofos	70.0	64.6	P/P	60 - 121
Hexazinone	90.8	87.3	P/P	55 - 137
Malathion	87.2	84.2	P/P	66 - 126
Metalaxyl	33.1	37.6	P/P	33 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P364696

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metolachlor	80.2	83.9	P/P	69 - 119
Metribuzin	74.2	65.4	P/P	31 - 238
Mevinphos	54.6	53.7	P/P	42 - 113
Molinate	78.9	66.4	P/P	32 - 96.0
Norflurazon	56.6	64.0	P/P	54 - 123
Oxadiazon	83.6	87.2	P/P	63 - 128
Parathion Ethyl	74.0	73.3	P/P	72 - 111
Parathion Methyl	72.8	72.2	F/F	74 - 126
Pendimethalin	81.9	77.7	P/P	61 - 131
Phorate	62.9	53.4	P/P	51 - 115
Prodiamine	85.7	86.1	P/P	38 - 144
Prometon	71.5	77.4	P/P	54 - 119
Prometryn	74.6	78.3	P/P	63 - 120
Simazine	78.8	84.5	P/P	75 - 126
Tebuconazole	32.1	39.1	P/P	20 - 119
Terbufos	75.2	66.3	P/P	64 - 116
Terbutylazine	78.4	81.3	P/P	73 - 117

Reference Method: EPA 8270E
Batch ID: P364810

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	31.4	31.8	P/P	20 - 93.0
Alpha-BHC	81.8	99.1	P/P	57 - 119
Alpha-Chlordane	60.8	63.4	P/P	58 - 112
Beta-BHC	107	99.4	P/P	56 - 149
Bifenthrin	59.5	57.4	P/P	50 - 130
Carbophenothion	70.3	70.0	P/P	26 - 147
Chlorothalonil	87.3	85.6	P/P	20 - 155
Cis-Nonachlor	63.3	63.8	P/P	50 - 130
Cypermethrin	54.1	49.3	P/P	40 - 137
DDD-p,p'	73.7	74.3	P/P	65 - 129
DDE-p,p'	57.4	60.8	P/P	57 - 116
DDT-p,p'	79.5	81.2	P/P	53 - 133
Delta-BHC	98.2	102	P/P	59 - 163
Dicofol	86.3	79.6	P/P	24 - 138
Dieldrin	65.0	68.9	P/P	60 - 120
Endosulfan I	67.4	70.1	P/P	64 - 118
Endosulfan II	77.2	78.8	P/P	58 - 142
Endosulfan Sulfate	80.6	74.7	P/P	60 - 127
Endrin	71.4	75.0	P/P	59 - 122
Endrin Aldehyde	76.6	73.5	P/P	49 - 132
Endrin Ketone	74.7	72.7	P/P	64 - 121
Ethalfuralin	75.6	77.5	P/P	50 - 130
Gamma-BHC	102	111	P/P	56 - 141
Gamma-Chlordane	59.1	60.4	P/P	56 - 110
Heptachlor	51.3	53.9	P/P	46 - 96.0
Heptachlor Epoxide	66.4	69.2	P/P	61 - 112
Hexachlorobenzene	56.2	57.8	P/P	50 - 130
Methoxychlor	87.6	92.9	P/P	63 - 134
Mirex	45.1	45.6	P/P	45 - 100
Permethrin	54.9	53.3	P/P	53 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P364810

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Trans-Nonachlor	56.1	57.5	P/P	50 - 130
Trifluralin	69.2	71.2	P/P	39 - 142

Reference Method: EPA 8276
Batch ID: P364810

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	60.7	70.5	P/P	43 - 128
Toxaphene	52.5	59.4	P/P	38 - 140

Reference Method: EPA 8321B
Batch ID: P364605

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	119		P	40 - 150
AMPA	120		P	40 - 150
Endothall	96.4		P	40 - 150
Glufosinate	98.2		P	40 - 150
Glyphosate	91.7		P	40 - 140
Sucralose	94.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P364627

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	95.3		P	40 - 150
3-Hydroxycarbofuran	78.7		P	40 - 150
Acetaminophen	83.6		P	30 - 150
Aldicarb	84.7		P	30 - 150
Aldicarb Sulfone	92.4		P	40 - 150
Aldicarb Sulfoxide	87.3		P	40 - 150
Bentazon	129		P	30 - 150
Carbamazepine	94.6		P	40 - 150
Carbaryl	83.9		P	40 - 150
Carbofuran	68.7		P	40 - 150
Diuron	93.2		P	40 - 150
Fenuron	106		P	40 - 150
Fluridone	91.5		P	40 - 150
Hydrocodone	100		P	40 - 150
Ibuprofen	81.8		P	40 - 150
Imazapyr	95.7		P	40 - 150
Imidacloprid	102		P	40 - 150
Linuron	77.6		P	40 - 150
MCPP	114		P	40 - 150
Methiocarb	72.5		P	40 - 150
Methomyl	81.3		P	40 - 150
Naproxen	89.0		P	40 - 150
Oxamyl	97.3		P	40 - 150
Primidone	92.0		P	40 - 150
Propoxur	80.9		P	40 - 150
Pyraclostrobin	70.7		P	40 - 150
Triclopyr	72.9		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2120 B
Batch ID: P364663

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P364930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 106

Reference Method: SM 2320 B-97
Batch ID: P365079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 106

Reference Method: SM 2320 B-97
Batch ID: P365082

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P364932

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.7		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P365084

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.4		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P365086

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.9		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P364798

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	105		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P364799

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	105		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P364766

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089560	Barium	98.1		P	80 - 120
2089560	Calcium	103		P	80 - 120
2089560	Iron	101		P	80 - 120
2089560	Magnesium	102		P	80 - 120
2089560	Manganese	96.5		P	80 - 120
2089560	Potassium	101		P	80 - 120
2089560	Sodium	104		P	80 - 120
2089560	Zinc	96.1		P	80 - 120
2089760	Barium	102	100	P/P	80 - 120
2089760	Calcium	99.2		P	80 - 120
2089760	Iron	104	103	P/P	80 - 120
2089760	Magnesium	104	103	P/P	80 - 120
2089760	Manganese	99.8	98.4	P/P	80 - 120
2089760	Potassium	102	101	P/P	80 - 120
2089760	Sodium	102		P	80 - 120
2089760	Zinc	99.0	97.0	P/P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P364772

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089140	Iron	100	100	P/P	70 - 130
2089140	Manganese	92.6	92.3	P/P	70 - 130
2089140	Zinc	96.8	97.5	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364766

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089560	Aluminum	103		P	80 - 120
2089560	Antimony	101		P	80 - 120
2089560	Arsenic	106		P	80 - 120
2089560	Boron	99.0		P	80 - 120
2089560	Cadmium	103		P	80 - 120
2089560	Chromium	97.5		P	80 - 120
2089560	Copper	99.8		P	80 - 120
2089560	Lead	97.6		P	80 - 120
2089560	Nickel	100		P	80 - 120
2089560	Selenium	107		P	80 - 120
2089560	Silver	101		P	80 - 120
2089560	Thallium	104		P	80 - 120
2089760	Aluminum	101	99.9	P/P	80 - 120
2089760	Antimony	102	100	P/P	80 - 120
2089760	Arsenic	103	103	P/P	80 - 120
2089760	Boron	104	105	P/P	80 - 120
2089760	Cadmium	105	104	P/P	80 - 120
2089760	Chromium	102	101	P/P	80 - 120
2089760	Copper	101	101	P/P	80 - 120
2089760	Lead	98.4	97.3	P/P	80 - 120
2089760	Nickel	102	102	P/P	80 - 120
2089760	Selenium	104	103	P/P	80 - 120
2089760	Silver	105	103	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364766

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089760	Thallium	103	104	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364772

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089140	Aluminum	110	106	P/P	70 - 130
2089140	Antimony	102	100	P/P	70 - 130
2089140	Arsenic	108	106	P/P	70 - 130
2089140	Cadmium	97.7	95.5	P/P	70 - 130
2089140	Chromium	103	97.1	P/P	70 - 130
2089140	Copper	99.6	99.3	P/P	70 - 130
2089140	Lead	95.4	93.5	P/P	70 - 130
2089140	Nickel	95.8	94.0	P/P	70 - 130
2089140	Selenium	109	104	P/P	70 - 130
2089140	Silver	94.3	92.5	P/P	70 - 130
2089140	Thallium	103	103	P/P	70 - 130

Reference Method: EPA 300.0
Batch ID: P364877

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089522	Bromide	94.5	95.6	P/P	90 - 110
2089528	Bromide	95.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089211	Chloride	99.6		P	90 - 110
2089534	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364937

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089211	Sulfate	101		P	90 - 110
2089534	Sulfate	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364915

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089104	Ammonia-N	98.9	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364916

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089535	Ammonia-N	101	100	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364897

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2088982	Kjeldahl Nitrogen	107	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364962

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089569	Kjeldahl Nitrogen	105	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364728

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089505	NO2NO3-N	98.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364988

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089986	NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364901

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089433	Total-P	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364904

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089486	Total-P	94.0	91.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364677

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089411	O-Phosphate-P	93.7	94.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364678

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089501	O-Phosphate-P	95.6	98.3	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P364696

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2088861	Acetochlor	76.7	91.4	P/P	63 - 129
2088861	Alachlor	77.4	92.4	P/P	65 - 127
2088861	Ametryn	73.8	83.1	P/P	40 - 164
2088861	Atrazine	85.2	92.9	P/P	66 - 135

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P364696

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2088861	Atrazine Desethyl	63.6	66.7	P/P	14 - 157
2088861	Azinphos Methyl	95.1	103	P/P	49 - 180
2088861	Bromacil	68.2	78.6	P/P	48 - 130
2088861	Butylate	40.0	31.1	P/P	10 - 94.0
2088861	Chlorpyrifos Ethyl	83.7	101	P/P	58 - 123
2088861	Chlorpyrifos Methyl	80.5	93.8	P/P	58 - 125
2088861	Cyanazine	116	145	P/P	24 - 253
2088861	Demeton	61.2	61.5	P/P	25 - 149
2088861	Diazinon	82.2	91.7	P/P	59 - 144
2088861	Dimethenamid	78.5	93.3	P/P	46 - 139
2088861	Disulfoton	77.4	82.9	P/P	54 - 132
2088861	Dithiopyr	79.9	92.9	P/P	64 - 130
2088861	EPTC	37.5	28.1	P/P	10 - 92.0
2088861	Ethion	85.7	103	P/P	30 - 148
2088861	Ethoprop	74.4	87.2	P/P	50 - 130
2088861	Fenamiphos	67.0	96.8	P/P	49 - 142
2088861	Fipronil	72.4	81.3	P/P	46 - 140
2088861	Fipronil Desulfinyl	67.0	77.1	P/P	30 - 121
2088861	Fipronil Sulfide	72.9	84.8	P/P	31 - 136
2088861	Fipronil Sulfone	67.6	76.8	P/P	16 - 136
2088861	Fonofos	74.8	82.7	P/P	55 - 129
2088861	Hexazinone	88.3	107	P/P	56 - 141
2088861	Malathion	83.9	99.5	P/P	56 - 135
2088861	Metalaxyl	88.2	102	P/P	54 - 135
2088861	Metolachlor	74.2	91.8	P/P	51 - 140
2088861	Metribuzin	131	137	P/P	45 - 254
2088861	Mevinphos	70.7	73.9	P/P	33 - 131
2088861	Molinate	58.6	58.0	P/P	14 - 98.0
2088861	Norflurazon	71.1	78.3	P/P	34 - 136
2088861	Oxadiazon	77.2	94.8	P/P	67 - 116
2088861	Parathion Ethyl	75.3	89.8	P/P	66 - 118
2088861	Parathion Methyl	81.3	92.2	P/P	64 - 136
2088861	Pendimethalin	94.3	114	P/P	59 - 144
2088861	Phorate	71.5	80.0	P/P	42 - 130
2088861	Prodiamine	103	123	P/P	42 - 148
2088861	Prometon	74.7	93.3	P/P	59 - 134
2088861	Prometryn	74.5	88.0	P/P	54 - 135
2088861	Simazine	82.1	92.3	P/P	53 - 156
2088861	Tebuconazole	51.4	63.6	P/P	10 - 131
2088861	Terbufos	77.7	85.8	P/P	57 - 131
2088861	Terbuthylazine	82.2	95.4	P/P	68 - 125

Reference Method: EPA 8270E

Batch ID: P364810

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2090438	Aldrin	45.6	40.6	P/P	25 - 92.0
2090438	Alpha-BHC	106	113	P/P	49 - 130
2090438	Alpha-Chlordane	71.8	66.3	P/P	50 - 115
2090438	Beta-BHC	130	133	P/P	43 - 157
2090438	Bifenthrin	69.2	55.4	P/P	50 - 130
2090438	Carbophenothion	98.6	94.6	P/P	27 - 180

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P364810

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2090438	Chlorothalonil	14.9	30.4	P/P	10 - 216
2090438	Cis-Nonachlor	71.2	63.2	P/P	50 - 130
2090438	Cypermethrin	63.6	53.6	P/P	40 - 153
2090438	DDD-p,p'	86.7	80.9	P/P	53 - 128
2090438	DDE-p,p'	68.4	63.1	P/P	48 - 116
2090438	DDT-p,p'	96.0	83.7	P/P	47 - 128
2090438	Delta-BHC	163	149	P/P	51 - 196
2090438	Dicofol	94.1	96.1	P/P	10 - 147
2090438	Dieldrin	85.0	74.7	P/P	48 - 128
2090438	Endosulfan I	83.9	79.6	P/P	58 - 126
2090438	Endosulfan II	88.0	85.4	P/P	50 - 150
2090438	Endosulfan Sulfate	96.9	98.8	P/P	56 - 130
2090438	Endrin	88.1	83.6	P/P	50 - 126
2090438	Endrin Aldehyde	65.5	67.8	P/P	12 - 145
2090438	Endrin Ketone	91.2	91.1	P/P	59 - 132
2090438	Ethalfuralin	95.6	88.5	P/P	50 - 130
2090438	Gamma-BHC	127	133	P/P	50 - 155
2090438	Gamma-Chlordane	69.3	62.2	P/P	50 - 112
2090438	Heptachlor	60.2	57.1	P/P	41 - 98.0
2090438	Heptachlor Epoxide	80.8	76.5	P/P	55 - 117
2090438	Hexachlorobenzene	65.0	63.5	P/P	50 - 130
2090438	Methoxychlor	105	98.6	P/P	55 - 133
2090438	Mirex	54.8	46.3	P/P	44 - 101
2090438	Permethrin	63.6	52.0	P/P	52 - 124
2090438	Trans-Nonachlor	65.7	59.0	P/P	50 - 130
2090438	Trifluralin	86.4	79.6	P/P	10 - 201

Reference Method: EPA 8276
Batch ID: P364810

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089607	Chlordane	67.8	64.8	P/P	34 - 136
2089607	Toxaphene	46.2	51.8	P/P	22 - 152

Reference Method: EPA 8321B
Batch ID: P364605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2088857	Acesulfame K	112	108	P/P	40 - 150
2088857	AMPA	93.0	96.5	P/P	40 - 150
2088857	Endothall	86.4	90.3	P/P	40 - 150
2088857	Glufosinate	85.3	88.1	P/P	40 - 150
2088857	Glyphosate	77.9	78.8	P/P	40 - 140
2088857	Sucralose	94.9	85.1	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P364627

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089542	3-Hydroxycarbofuran	90.9	82.6	P/P	40 - 150
2089542	Aldicarb	68.5	66.0	P/P	30 - 150
2089542	Aldicarb Sulfone	99.1	103	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P364627

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089542	Aldicarb Sulfoxide	40.2	39.8	P/F	40 - 150
2089542	Carbaryl	69.8	68.1	P/P	40 - 150
2089542	Carbofuran	61.5	64.8	P/P	40 - 150
2089542	Methiocarb	63.2	62.9	P/P	40 - 150
2089542	Methomyl	83.4	71.3	P/P	40 - 150
2089542	Oxamyl	88.5	83.5	P/P	40 - 150
2089542	Propoxur	68.5	67.5	P/P	40 - 150
2089543	2,4-D	124	109	P/P	40 - 150
2089543	Acetaminophen	83.8	87.9	P/P	30 - 150
2089543	Bentazon	102	87.8	P/P	30 - 150
2089543	Carbamazepine	76.6	85.9	P/P	40 - 150
2089543	Diuron	77.8	79.3	P/P	40 - 150
2089543	Fenuron	99.4	86.2	P/P	40 - 150
2089543	Fluridone	92.8	91.3	P/P	40 - 150
2089543	Hydrocodone	94.6	98.2	P/P	40 - 150
2089543	Ibuprofen	72.6	71.2	P/P	40 - 150
2089543	Imidacloprid	131	163	P/F	40 - 150
2089543	Linuron	72.5	67.3	P/P	40 - 150
2089543	MCP	167	146	F/P	40 - 150
2089543	Naproxen	125	95.6	P/P	40 - 150
2089543	Primidone	101	97.1	P/P	40 - 150
2089543	Pyraclostrobin	86.4	80.7	P/P	40 - 150
2089543	Triclopyr	113	91.6	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P365084

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089430	Fluoride	105	104	P/P	89 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P365086

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2090176	Fluoride	101	99.3	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P364798

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089040	Organic Carbon	106	106	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P364799

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2089526	Organic Carbon	104	104	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P364699

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089445	Turbidity	1.35	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P364766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089760	Barium	1.72	Spike	P	0 - 20
2089760	Calcium	0.661	Spike	P	0 - 20
2089760	Iron	1.24	Spike	P	0 - 20
2089760	Magnesium	0.945	Spike	P	0 - 20
2089760	Manganese	1.20	Spike	P	0 - 20
2089760	Potassium	0.282	Spike	P	0 - 20
2089760	Sodium	0.156	Spike	P	0 - 20
2089760	Zinc	2.03	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P364772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089140	Iron	0.358	Spike	P	0 - 20
2089140	Manganese	0.283	Spike	P	0 - 20
2089140	Zinc	0.672	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089760	Aluminum	0.547	Spike	P	0 - 20
2089760	Antimony	1.37	Spike	P	0 - 20
2089760	Arsenic	0.321	Spike	P	0 - 20
2089760	Boron	0.517	Spike	P	0 - 20
2089760	Cadmium	1.14	Spike	P	0 - 20
2089760	Chromium	0.458	Spike	P	0 - 20
2089760	Copper	0.338	Spike	P	0 - 20
2089760	Lead	1.10	Spike	P	0 - 20
2089760	Nickel	0.247	Spike	P	0 - 20
2089760	Selenium	0.582	Spike	P	0 - 20
2089760	Silver	1.08	Spike	P	0 - 20
2089760	Thallium	0.387	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089140	Aluminum	3.56	Spike	P	0 - 20
2089140	Antimony	1.37	Spike	P	0 - 20
2089140	Arsenic	1.82	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089140	Cadmium	2.35	Spike	P	0 - 20
2089140	Chromium	5.76	Spike	P	0 - 20
2089140	Copper	0.256	Spike	P	0 - 20
2089140	Lead	1.95	Spike	P	0 - 20
2089140	Nickel	1.83	Spike	P	0 - 20
2089140	Selenium	4.62	Spike	P	0 - 20
2089140	Silver	1.95	Spike	P	0 - 20
2089140	Thallium	0.323	Spike	P	0 - 20

Reference Method: EPA 300.0
Batch ID: P364877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089522	Bromide	0.625	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089534	Chloride	6.03	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089534	Sulfate	6.30	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089104	Ammonia-N	2.14	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364916

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089535	Ammonia-N	0.672	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2088982	Kjeldahl Nitrogen	3.18	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P364962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089569	Kjeldahl Nitrogen	1.41	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P364728

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089505	NO2NO3-N	0.199	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P364988

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089986	NO2NO3-N	1.49	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P364901

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089433	Total-P	1.26	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P364904

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089486	Total-P	2.40	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P364677

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089411	O-Phosphate-P	1.00	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P364678

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089501	O-Phosphate-P	2.78	Spike	P	0 - 20

Reference Method: EPA 8270E
 Batch ID: P364696

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2088861	Acetochlor	17.4	Spike	P	0 - 30
2088861	Alachlor	17.6	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P364696

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2088861	Ametryn	11.8	Spike	P	0 - 30
2088861	Atrazine	8.64	Spike	P	0 - 30
2088861	Atrazine Desethyl	4.75	Spike	P	0 - 30
2088861	Azinphos Methyl	7.86	Spike	P	0 - 30
2088861	Bromacil	14.1	Spike	P	0 - 30
2088861	Butylate	25.1	Spike	P	0 - 30
2088861	Chlorpyrifos Ethyl	18.8	Spike	P	0 - 30
2088861	Chlorpyrifos Methyl	15.4	Spike	P	0 - 30
2088861	Cyanazine	22.0	Spike	P	0 - 30
2088861	Demeton	0.329	Spike	P	0 - 30
2088861	Diazinon	10.9	Spike	P	0 - 30
2088861	Dimethenamid	17.3	Spike	P	0 - 30
2088861	Disulfoton	6.87	Spike	P	0 - 30
2088861	Dithiopyr	15.1	Spike	P	0 - 30
2088861	EPTC	28.8	Spike	P	0 - 30
2088861	Ethion	18.7	Spike	P	0 - 30
2088861	Ethoprop	15.8	Spike	P	0 - 30
2088861	Fenamiphos	36.5	Spike	F	0 - 30
2088861	Fipronil	11.5	Spike	P	0 - 30
2088861	Fipronil Desulfinyl	13.9	Spike	P	0 - 30
2088861	Fipronil Sulfide	15.1	Spike	P	0 - 30
2088861	Fipronil Sulfone	12.8	Spike	P	0 - 30
2088861	Fonofos	9.93	Spike	P	0 - 30
2088861	Hexazinone	19.0	Spike	P	0 - 30
2088861	Malathion	17.0	Spike	P	0 - 30
2088861	Metaxyl	14.6	Spike	P	0 - 30
2088861	Metolachlor	19.7	Spike	P	0 - 30
2088861	Metribuzin	4.39	Spike	P	0 - 30
2088861	Mevinphos	4.32	Spike	P	0 - 30
2088861	Molinate	1.12	Spike	P	0 - 30
2088861	Norflurazon	9.64	Spike	P	0 - 30
2088861	Oxadiazon	20.4	Spike	P	0 - 30
2088861	Parathion Ethyl	17.7	Spike	P	0 - 30
2088861	Parathion Methyl	12.5	Spike	P	0 - 30
2088861	Pendimethalin	19.0	Spike	P	0 - 30
2088861	Phorate	11.2	Spike	P	0 - 30
2088861	Prodiamine	18.2	Spike	P	0 - 30
2088861	Prometon	22.0	Spike	P	0 - 30
2088861	Prometryn	16.5	Spike	P	0 - 30
2088861	Simazine	11.7	Spike	P	0 - 30
2088861	Tebuconazole	21.2	Spike	P	0 - 30
2088861	Terbufos	9.90	Spike	P	0 - 30
2088861	Terbutylazine	14.9	Spike	P	0 - 30
LFB	Acetochlor	3.85	LCS	P	0 - 30
LFB	Alachlor	4.93	LCS	P	0 - 30
LFB	Ametryn	3.72	LCS	P	0 - 30
LFB	Atrazine	3.13	LCS	P	0 - 30
LFB	Atrazine Desethyl	10.2	LCS	P	0 - 30
LFB	Azinphos Methyl	8.83	LCS	P	0 - 30
LFB	Bromacil	6.04	LCS	P	0 - 30
LFB	Butylate	14.2	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P364696

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlorpyrifos Ethyl	5.91	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	8.00	LCS	P	0 - 30
LFB	Cyanazine	4.81	LCS	P	0 - 30
LFB	Demeton	15.7	LCS	P	0 - 30
LFB	Diazinon	4.39	LCS	P	0 - 30
LFB	Dimethenamid	3.58	LCS	P	0 - 30
LFB	Disulfoton	12.3	LCS	P	0 - 30
LFB	Dithiopyr	5.29	LCS	P	0 - 30
LFB	EPTC	8.70	LCS	P	0 - 30
LFB	Ethion	2.08	LCS	P	0 - 30
LFB	Ethoprop	5.67	LCS	P	0 - 30
LFB	Fenamiphos	10.3	LCS	P	0 - 30
LFB	Fipronil	6.19	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	6.45	LCS	P	0 - 30
LFB	Fipronil Sulfide	4.48	LCS	P	0 - 30
LFB	Fipronil Sulfone	1.26	LCS	P	0 - 30
LFB	Fonofos	8.06	LCS	P	0 - 30
LFB	Hexazinone	3.95	LCS	P	0 - 30
LFB	Malathion	3.60	LCS	P	0 - 30
LFB	Metalaxyl	12.7	LCS	P	0 - 30
LFB	Metolachlor	4.49	LCS	P	0 - 30
LFB	Metribuzin	12.7	LCS	P	0 - 30
LFB	Mevinphos	1.70	LCS	P	0 - 30
LFB	Molinate	17.2	LCS	P	0 - 30
LFB	Norflurazon	12.4	LCS	P	0 - 30
LFB	Oxadiazon	4.15	LCS	P	0 - 30
LFB	Parathion Ethyl	1.04	LCS	P	0 - 30
LFB	Parathion Methyl	0.810	LCS	P	0 - 30
LFB	Pendimethalin	5.28	LCS	P	0 - 30
LFB	Phorate	16.4	LCS	P	0 - 30
LFB	Prodiamine	0.549	LCS	P	0 - 30
LFB	Prometon	7.95	LCS	P	0 - 30
LFB	Prometryn	4.82	LCS	P	0 - 30
LFB	Simazine	6.98	LCS	P	0 - 30
LFB	Tebuconazole	19.7	LCS	P	0 - 30
LFB	Terbufos	12.5	LCS	P	0 - 30
LFB	Terbutylazine	3.65	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P364810

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2090438	Aldrin	11.6	Spike	P	0 - 30
2090438	Alpha-BHC	6.39	Spike	P	0 - 30
2090438	Alpha-Chlordane	8.00	Spike	P	0 - 30
2090438	Beta-BHC	2.94	Spike	P	0 - 30
2090438	Bifenthrin	22.2	Spike	P	0 - 30
2090438	Carbophenothion	4.12	Spike	P	0 - 30
2090438	Chlorothalonil	68.4	Spike	F	0 - 30
2090438	Cis-Nonachlor	11.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P364810

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2090438	Cypermethrin	17.0	Spike	P	0 - 30
2090438	DDD-p,p'	6.88	Spike	P	0 - 30
2090438	DDE-p,p'	8.10	Spike	P	0 - 30
2090438	DDT-p,p'	13.6	Spike	P	0 - 30
2090438	Delta-BHC	8.98	Spike	P	0 - 30
2090438	Dicofol	2.09	Spike	P	0 - 30
2090438	Dieldrin	12.9	Spike	P	0 - 30
2090438	Endosulfan I	5.22	Spike	P	0 - 30
2090438	Endosulfan II	2.99	Spike	P	0 - 30
2090438	Endosulfan Sulfate	1.93	Spike	P	0 - 30
2090438	Endrin	5.33	Spike	P	0 - 30
2090438	Endrin Aldehyde	3.39	Spike	P	0 - 30
2090438	Endrin Ketone	0.133	Spike	P	0 - 30
2090438	Ethalfuralin	7.74	Spike	P	0 - 30
2090438	Gamma-BHC	4.43	Spike	P	0 - 30
2090438	Gamma-Chlordane	10.7	Spike	P	0 - 30
2090438	Heptachlor	5.25	Spike	P	0 - 30
2090438	Heptachlor Epoxide	5.46	Spike	P	0 - 30
2090438	Hexachlorobenzene	2.41	Spike	P	0 - 30
2090438	Methoxychlor	5.93	Spike	P	0 - 30
2090438	Mirex	16.8	Spike	P	0 - 30
2090438	Permethrin	20.1	Spike	P	0 - 30
2090438	Trans-Nonachlor	10.7	Spike	P	0 - 30
2090438	Trifluralin	8.26	Spike	P	0 - 30
LFB	Aldrin	1.41	LCS	P	0 - 30
LFB	Alpha-BHC	19.1	LCS	P	0 - 30
LFB	Alpha-Chlordane	4.29	LCS	P	0 - 30
LFB	Beta-BHC	7.72	LCS	P	0 - 30
LFB	Bifenthrin	3.61	LCS	P	0 - 30
LFB	Carbophenothion	0.470	LCS	P	0 - 30
LFB	Chlorothalonil	2.00	LCS	P	0 - 30
LFB	Cis-Nonachlor	0.654	LCS	P	0 - 30
LFB	Cypermethrin	9.43	LCS	P	0 - 30
LFB	DDD-p,p'	0.867	LCS	P	0 - 30
LFB	DDE-p,p'	5.82	LCS	P	0 - 30
LFB	DDT-p,p'	2.18	LCS	P	0 - 30
LFB	Delta-BHC	3.43	LCS	P	0 - 30
LFB	Dicofol	8.14	LCS	P	0 - 30
LFB	Dieldrin	5.92	LCS	P	0 - 30
LFB	Endosulfan I	3.92	LCS	P	0 - 30
LFB	Endosulfan II	2.07	LCS	P	0 - 30
LFB	Endosulfan Sulfate	7.63	LCS	P	0 - 30
LFB	Endrin	4.90	LCS	P	0 - 30
LFB	Endrin Aldehyde	4.11	LCS	P	0 - 30
LFB	Endrin Ketone	2.72	LCS	P	0 - 30
LFB	Ethalfuralin	2.42	LCS	P	0 - 30
LFB	Gamma-BHC	8.96	LCS	P	0 - 30
LFB	Gamma-Chlordane	2.17	LCS	P	0 - 30
LFB	Heptachlor	5.06	LCS	P	0 - 30
LFB	Heptachlor Epoxide	4.21	LCS	P	0 - 30
LFB	Hexachlorobenzene	2.67	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P364810

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Methoxychlor	5.88	LCS	P	0 - 30
LFB	Mirex	0.971	LCS	P	0 - 30
LFB	Permethrin	2.93	LCS	P	0 - 30
LFB	Trans-Nonachlor	2.47	LCS	P	0 - 30
LFB	Trifluralin	2.92	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P364810

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089607	Chlordane	4.63	Spike	P	0 - 30
2089607	Toxaphene	11.4	Spike	P	0 - 30
LFB	Chlordane	15.0	LCS	P	0 - 30
LFB	Toxaphene	12.4	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P364605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2088857	Acesulfame K	2.93	Spike	P	0 - 30
2088857	AMPA	3.67	Spike	P	0 - 30
2088857	Endothall	4.43	Spike	P	0 - 30
2088857	Glufosinate	3.24	Spike	P	0 - 30
2088857	Glyphosate	1.20	Spike	P	0 - 30
2088857	Sucralose	10.4	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P364627

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089542	3-Hydroxycarbofuran	9.62	Spike	P	0 - 30
2089542	Aldicarb	3.66	Spike	P	0 - 30
2089542	Aldicarb Sulfone	4.22	Spike	P	0 - 30
2089542	Aldicarb Sulfoxide	1.22	Spike	P	0 - 30
2089542	Carbaryl	2.54	Spike	P	0 - 30
2089542	Carbofuran	5.22	Spike	P	0 - 30
2089542	Methiocarb	0.515	Spike	P	0 - 30
2089542	Methomyl	15.6	Spike	P	0 - 30
2089542	Oxamyl	5.85	Spike	P	0 - 30
2089542	Propoxur	1.49	Spike	P	0 - 30
2089543	2,4-D	12.2	Spike	P	0 - 30
2089543	Acetaminophen	4.72	Spike	P	0 - 30
2089543	Bentazon	7.76	Spike	P	0 - 30
2089543	Carbamazepine	10.7	Spike	P	0 - 30
2089543	Diuron	1.73	Spike	P	0 - 30
2089543	Fenuron	14.3	Spike	P	0 - 30
2089543	Fluridone	0.803	Spike	P	0 - 30
2089543	Hydrocodone	3.78	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P364627

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089543	Ibuprofen	2.01	Spike	P	0 - 30
2089543	Imazapyr	35.2	Spike	F	0 - 30
2089543	Imidacloprid	18.9	Spike	P	0 - 30
2089543	Linuron	7.48	Spike	P	0 - 30
2089543	MCP	13.5	Spike	P	0 - 30
2089543	Naproxen	26.8	Spike	P	0 - 30
2089543	Primidone	4.11	Spike	P	0 - 30
2089543	Pyraclostrobin	6.91	Spike	P	0 - 30
2089543	Triclopyr	21.2	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P364663

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089429	Color (true)	4.68	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P364930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089083	Total Alkalinity	1.42	Sample	P	0 - 2.8

Reference Method: SM 2320 B-97
Batch ID: P365079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089430	Total Alkalinity	0.863	Sample	P	0 - 2.8

Reference Method: SM 2320 B-97
Batch ID: P365082

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2090176	Total Alkalinity	0.703	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
Batch ID: P365258

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089431	TDS	4.05	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P364932

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089083	Fluoride	0.473	Spike	P	0 - 2.5

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
Batch ID: P365084

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089430	Fluoride	1.48	Spike	P	0 - 2.5

Reference Method: SM 4500 F-C-97
Batch ID: P365086

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2090176	Fluoride	0.992	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P364798

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089040	Organic Carbon	0.259	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P364799

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2089526	Organic Carbon	0.0899	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: 2089542
Field Sample ID: 20030518

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	74.2	P	30 - 160

Lab Sample ID: 2089543
Field Sample ID: 20030518

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	113	P	30 - 160
EPA 8321B	Acetaminophen-d4	97.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	77.4	P	30 - 160
EPA 8321B	Diuron-d6	73.7	P	30 - 160
EPA 8321B	Endothall-d6	410	F	30 - 160
EPA 8321B	Endothall-d6	410	F	30 - 160
EPA 8321B	Glyphosate 13C 15N	58.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	58.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	93.9	P	30 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Sucralose-d6	130	P	30 - 160
EPA 8321B	Sucralose-d6	130	P	30 - 160

Lab Sample ID: 2089549
Field Sample ID: 20030518

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	75.8	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	74.9	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	44.2	P	30 - 103
EPA 8276	PCNB	77.0	P	37 - 143

Lab Sample ID: 2089550
Field Sample ID: 20030518

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	79.1	P	68 - 130
EPA 8270E	Terbufos-d10	82.7	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A91720
Included Lab Sample IDs: 2089543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	145	95.3	P/P	60 - 160
Endothall	91.3	94.6	P/P	60 - 160

Reference Method: SM 2120 B
Run ID: A91724
Included Lab Sample IDs: 2089534

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A91728
Included Lab Sample IDs: 2089524, 2089527, 2089532, 2089533, 2089536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	95.8	96.1	P/P	90 - 110
O-Phosphate-P	96.1	94.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A91733
Included Lab Sample IDs: 2089522, 2089525, 2089528, 2089529, 2089534

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A91740
Included Lab Sample IDs: 2089535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	98.5	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A91744
Included Lab Sample IDs: 2089543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	89.3	85.7	P/P	60 - 160
Glufosinate	88.1	82.9	P/P	60 - 160
Glyphosate	79.2	84.9	P/P	60 - 160

Reference Method: SM 5310 B-00
Run ID: A91779
Included Lab Sample IDs: 2089523, 2089526, 2089530, 2089531, 2089535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	107	108	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0

Run ID: A91804

Included Lab Sample IDs: 2089522, 2089525, 2089528, 2089529

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromide	102	105	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A91814

Included Lab Sample IDs: 2089523, 2089526, 2089530, 2089531, 2089535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	102	P/P	90 - 110
Ammonia-N	102	103	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A91818

Included Lab Sample IDs: 2089529

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

Reference Method: SM 4500 F-C-97

Run ID: A91818

Included Lab Sample IDs: 2089529

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.5	99.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A91823

Included Lab Sample IDs: 2089534

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A91824

Included Lab Sample IDs: 2089559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	99.9	99.1	P/P	90 - 110
Manganese	98.4	97.7	P/P	90 - 110
Zinc	99.3	97.3	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A91825

Included Lab Sample IDs: 2089556, 2089557, 2089558, 2089560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	103	102	P/P	90 - 110
Calcium	102	102	P/P	90 - 110
Iron	101	102	P/P	90 - 110
Iron	102	101	P/P	95 - 105
Magnesium	101	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A91825

Included Lab Sample IDs: 2089556, 2089557, 2089558, 2089560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Manganese	100	100	P/P	90 - 110
Manganese	101	100	P/P	95 - 105
Potassium	101	101	P/P	90 - 110
Sodium	102	102	P/P	90 - 110
Zinc	102	103	P/P	95 - 105
Zinc	103	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A91828

Included Lab Sample IDs: 2089556, 2089557, 2089558, 2089560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	100	107	P/P	90 - 110
Aluminum	107	103	P/P	90 - 110
Antimony	96.5	97.6	P/P	90 - 110
Antimony	97.6	95.9	P/P	90 - 110
Arsenic	102	101	P/P	90 - 110
Arsenic	99.8	102	P/P	90 - 110
Cadmium	100	101	P/P	90 - 110
Cadmium	101	100	P/P	90 - 110
Chromium	94.9	98.6	P/P	90 - 110
Chromium	97.8	94.9	P/P	90 - 110
Copper	100	101	P/P	90 - 110
Copper	99.2	100	P/P	90 - 110
Lead	94.6	95.2	P/P	90 - 110
Lead	94.8	94.6	P/P	90 - 110
Nickel	98.5	100	P/P	90 - 110
Nickel	98.8	98.5	P/P	90 - 110
Selenium	102	102	P/P	90 - 110
Selenium	99.0	102	P/P	90 - 110
Silver	101	99.9	P/P	90 - 110
Silver	99.5	101	P/P	90 - 110
Thallium	93.2	93.5	P/P	90 - 110
Thallium	94.4	93.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A91830

Included Lab Sample IDs: 2089523, 2089526, 2089530, 2089531

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	107	105	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A91831

Included Lab Sample IDs: 2089543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.8	99.4	P/P	50 - 150
3-Hydroxycarbofuran	107	97.6	P/P	60 - 150
Acetaminophen	106	107	P/P	60 - 160
Aldicarb	112	75.3	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A91831
Included Lab Sample IDs: 2089542

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldicarb Sulfone	95.1	91.0	P/P	50 - 150
Aldicarb Sulfoxide	100	102	P/P	50 - 150
Bentazon	119	117	P/P	50 - 160
Carbamazepine	96.8	99.1	P/P	60 - 150
Carbaryl	104	96.5	P/P	60 - 150
Carbofuran	102	99.5	P/P	50 - 150
Diuron	103	104	P/P	60 - 150
Fenuron	104	104	P/P	60 - 150
Fluridone	101	98.2	P/P	60 - 160
Hydrocodone	107	114	P/P	60 - 150
Ibuprofen	84.5	102	P/P	50 - 160
Imazapyr	84.6	92.3	P/P	50 - 150
Imidacloprid	103	102	P/P	60 - 150
Linuron	102	104	P/P	60 - 150
MCPP	96.6	111	P/P	50 - 150
Methiocarb	103	97.2	P/P	50 - 150
Methomyl	96.6	104	P/P	50 - 150
Naproxen	82.7	108	P/P	50 - 160
Oxamyl	88.8	94.8	P/P	50 - 150
Primidone	100	101	P/P	60 - 150
Propoxur	103	109	P/P	50 - 150
Pyraclostrobin	96.1	96.0	P/P	60 - 150
Triclopyr	110	97.4	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A91836
Included Lab Sample IDs: 2089530, 2089535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	104	P/P	90 - 110
Total-P	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A91839
Included Lab Sample IDs: 2089523, 2089526, 2089531

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A91846
Included Lab Sample IDs: 2089523, 2089526, 2089530, 2089531

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	99.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A91852
Included Lab Sample IDs: 2089560

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A91852

Included Lab Sample IDs: 2089560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	96.9	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A91856

Included Lab Sample IDs: 2089558, 2089559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.8	102	P/P	90 - 110
Antimony	95.8	96.3	P/P	90 - 110
Arsenic	100	101	P/P	90 - 110
Cadmium	99.3	99.6	P/P	90 - 110
Lead	92.2	92.6	P/P	90 - 110
Lead	92.8	93.3	P/P	90 - 110
Selenium	101	102	P/P	90 - 110
Silver	97.8	98.3	P/P	90 - 110
Thallium	94.0	94.1	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A91867

Included Lab Sample IDs: 2089522, 2089525, 2089528, 2089534

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

Reference Method: SM 4500 F-C-97

Run ID: A91867

Included Lab Sample IDs: 2089522, 2089525, 2089528, 2089534

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.1	100	P/P	90 - 110
Fluoride	99.0	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A91898

Included Lab Sample IDs: 2089535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.3	97.4	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A91899

Included Lab Sample IDs: 2089559

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A91903
Included Lab Sample IDs: 2089549

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	95.3		P	80 - 120
Alpha-BHC	94.7		P	80 - 120
Alpha-Chlordane	92.5		P	80 - 120
Beta-BHC	88.6		P	80 - 120
Bifenthrin	93.4		P	80 - 120
Carbophenothion	88.0		P	80 - 120
Chlorothalonil	87.4		P	80 - 120
Cis-Nonachlor	91.2		P	80 - 120
Cypermethrin	87.3		P	80 - 120
DDD-p,p'	93.1		P	80 - 120
DDE-p,p'	94.8		P	80 - 120
DDT-p,p'	99.6		P	80 - 120
Delta-BHC	92.0		P	80 - 120
Dicofol	99.4		P	80 - 120
Dieldrin	93.0		P	80 - 120
Endosulfan I	92.5		P	80 - 120
Endosulfan II	89.6		P	80 - 120
Endosulfan Sulfate	92.3		P	80 - 120
Endrin	93.4		P	80 - 120
Endrin Aldehyde	86.3		P	80 - 120
Endrin Ketone	92.8		P	80 - 120
Ethalfuralin	93.8		P	80 - 120
Gamma-BHC	96.6		P	80 - 120
Gamma-Chlordane	92.3		P	80 - 120
Heptachlor	92.4		P	80 - 120
Heptachlor Epoxide	92.9		P	80 - 120
Hexachlorobenzene	94.6		P	80 - 120
Methoxychlor	99.7		P	80 - 120
Mirex	97.1		P	80 - 120
Permethrin	89.7		P	80 - 120
Trans-Nonachlor	91.4		P	80 - 120
Trifluralin	95.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A91924
Included Lab Sample IDs: 2089558, 2089559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.3	97.3	P/P	90 - 110
Copper	99.3	98.6	P/P	90 - 110
Nickel	99.1	98.0	P/P	90 - 110
Thallium	92.6	93.6	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A91968
Included Lab Sample IDs: 2089550

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	99.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A91968
Included Lab Sample IDs: 2089550

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	99.1		P	80 - 120
Atrazine Desethyl	93.9		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Bromacil	103		P	80 - 120
Butylate	99.7		P	80 - 120
Chlorpyrifos Ethyl	101		P	80 - 120
Chlorpyrifos Methyl	98.3		P	80 - 120
Cyanazine	109		P	80 - 120
Demeton	97.4		P	80 - 120
Diazinon	100		P	80 - 120
Dimethenamid	103		P	80 - 120
Disulfoton	98.2		P	80 - 120
Dithiopyr	101		P	80 - 120
EPTC	104		P	80 - 120
Ethion	97.7		P	80 - 120
Ethoprop	98.2		P	80 - 120
Fenamiphos	97.1		P	80 - 120
Fipronil	98.1		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	98.6		P	80 - 120
Fipronil Sulfone	98.7		P	80 - 120
Fonofos	99.6		P	80 - 120
Hexazinone	100		P	80 - 120
Malathion	98.9		P	80 - 120
Metalaxyl	100		P	80 - 120
Metolachlor	107		P	80 - 120
Metribuzin	87.6		P	80 - 120
Mevinphos	96.5		P	80 - 120
Molinate	105		P	80 - 120
Norflurazon	99.3		P	80 - 120
Oxadiazon	105		P	80 - 120
Parathion Ethyl	95.6		P	80 - 120
Parathion Methyl	95.5		P	80 - 120
Pendimethalin	101		P	80 - 120
Phorate	98.1		P	80 - 120
Prodiamine	105		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	102		P	80 - 120
Simazine	108		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	96.0		P	80 - 120
Terbuthylazine	101		P	80 - 120

Reference Method: EPA 8276
Run ID: A91992
Included Lab Sample IDs: 2089549

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	91.2		P	80 - 120
Toxaphene	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A92046
Included Lab Sample IDs: 2089543

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	103	116	P/P	60 - 160

* 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						1.35	
EPA 200.7 Rev. 4.4	Barium	100		98.1	102	100		1.72
	Calcium	103		103	99.2			0.661
	Iron	102		101	104	103		1.24
	Iron	103		100	100			0.358
	Magnesium	104		102	104	103		0.945
	Manganese	98.7		96.5	99.8	98.4		1.20
	Manganese	98.9		92.6	92.3			0.283
	Potassium	98.6		101	102	101		0.282
	Sodium	102		104	102			0.156
	Zinc	98.2		96.1	99.0	97.0		2.03
	Zinc	98.9		96.8	97.5			0.672
EPA 200.8 Rev. 5.4	Aluminum	101		103	101	99.9		0.547
	Aluminum	98.4		110	106			3.56
	Antimony	100		101	102	100		1.37
	Antimony	99.6		102	100			1.37
	Arsenic	102		106	103	103		0.321
	Arsenic	101		108	106			1.82
	Boron	101		99.0	104	105		0.517
	Cadmium	103		103	105	104		1.14
	Cadmium	102		97.7	95.5			2.35
	Chromium	101		97.5	102	101		0.458
	Chromium	102		103	97.1			5.76
	Copper	101		99.8	101	101		0.338
	Copper	98.7		99.6	99.3			0.256
	Lead	95.3		97.6	98.4	97.3		1.10
	Lead	92.1		95.4	93.5			1.95
	Nickel	101		100	102	102		0.247
	Nickel	98.6		95.8	94.0			1.83
	Selenium	101		107	104	103		0.582
	Selenium	100		109	104			4.62
	Silver	102		101	105	103		1.08
	Silver	99.4		94.3	92.5			1.95
	Thallium	99.8		104	103	104		0.387
	Thallium	103		103	103			0.323
EPA 300.0	Bromide	101		94.5	95.6	95.8		0.625
EPA 300.0 Rev. 2.1	Chloride	102		103	99.6		6.03	
	Sulfate	103		103	101		6.30	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4		98.9	101			2.14
	Ammonia-N	98.8		101	100			0.672
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		107	103			3.18
	Kjeldahl Nitrogen	106		105	103			1.41
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5		98.0				0.199
	NO2NO3-N	99.5		100	102			1.49
EPA 365.1 Rev. 2.0	Total-P	103		101	102			1.26
	Total-P	99.7		94.0	91.7			2.40
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1		93.7	94.7			1.00
	O-Phosphate-P	98.1		95.6	98.3			2.78
EPA 8270E	Acetochlor	77.8	80.9	76.7	91.4	3.85		17.4
	Alachlor	77.3	81.2	77.4	92.4	4.93		17.6
	Aldrin	31.4	31.8	45.6	40.6	1.41		11.6
	Alpha-BHC	81.8	99.1	106	113	19.1		6.39
	Alpha-Chlordane	60.8	63.4	71.8	66.3	4.29		8.00
	Ametryn	77.5	80.5	73.8	83.1	3.72		11.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Atrazine	77.5	80.0	85.2	92.9	3.13	8.64
	Atrazine Desethyl	42.8	38.7	63.6	66.7	10.2	4.75
	Azinphos Methyl	79.4	86.7	95.1	103	8.83	7.86
	Beta-BHC	107	99.4	130	133	7.72	2.94
	Bifenthrin	59.5	57.4	69.2	55.4	3.61	22.2
	Bromacil	47.9	50.9	68.2	78.6	6.04	14.1
	Butylate	67.5	58.6	40.0	31.1	14.2	25.1
	Carbophenothion	70.3	70.0	98.6	94.6	0.470	4.12
	Chlorothalonil	87.3	85.6	14.9	30.4	2.00	68.4
	Chlorpyrifos Ethyl	85.0	80.1	83.7	101	5.91	18.8
	Chlorpyrifos Methyl	77.6	71.6	80.5	93.8	8.00	15.4
	Cis-Nonachlor	63.3	63.8	71.2	63.2	0.654	11.9
	Cyanazine	74.6	71.1	116	145	4.81	22.0
	Cypermethrin	54.1	49.3	63.6	53.6	9.43	17.0
	DDD-p,p'	73.7	74.3	86.7	80.9	0.867	6.88
	DDE-p,p'	57.4	60.8	68.4	63.1	5.82	8.10
	DDT-p,p'	79.5	81.2	96.0	83.7	2.18	13.6
	Delta-BHC	98.2	102	163	149	3.43	8.98
	Demeton	52.8	45.1	61.2	61.5	15.7	0.329
	Diazinon	71.4	74.6	82.2	91.7	4.39	10.9
	Dicofol	86.3	79.6	94.1	96.1	8.14	2.09
	Dieldrin	65.0	68.9	85.0	74.7	5.92	12.9
	Dimethenamid	79.8	82.7	78.5	93.3	3.58	17.3
	Disulfoton	60.5	53.5	77.4	82.9	12.3	6.87
	Dithiopyr	78.1	82.3	79.9	92.9	5.29	15.1
	Endosulfan I	67.4	70.1	83.9	79.6	3.92	5.22
	Endosulfan II	77.2	78.8	88.0	85.4	2.07	2.99
	Endosulfan Sulfate	80.6	74.7	96.9	98.8	7.63	1.93
	Endrin	71.4	75.0	88.1	83.6	4.90	5.33
	Endrin Aldehyde	76.6	73.5	65.5	67.8	4.11	3.39
	Endrin Ketone	74.7	72.7	91.2	91.1	2.72	0.133
	EPTC	63.2	57.9	37.5	28.1	8.70	28.8
	Ethalfuralin	75.6	77.5	95.6	88.5	2.42	7.74
	Ethion	86.8	85.0	85.7	103	2.08	18.7
	Ethoprop	79.2	74.9	74.4	87.2	5.67	15.8
	Fenamiphos	37.0	41.0	67.0	96.8	10.3	36.5
	Fipronil	68.3	72.6	72.4	81.3	6.19	11.5
	Fipronil Desulfinyl	74.9	79.9	67.0	77.1	6.45	13.9
	Fipronil Sulfide	82.1	78.5	72.9	84.8	4.48	15.1
	Fipronil Sulfone	76.8	75.8	67.6	76.8	1.26	12.8
	Fonofos	70.0	64.6	74.8	82.7	8.06	9.93
	Gamma-BHC	102	111	127	133	8.96	4.43
	Gamma-Chlordane	59.1	60.4	69.3	62.2	2.17	10.7
	Heptachlor	51.3	53.9	60.2	57.1	5.06	5.25
	Heptachlor Epoxide	66.4	69.2	80.8	76.5	4.21	5.46
	Hexachlorobenzene	56.2	57.8	65.0	63.5	2.67	2.41
	Hexazinone	90.8	87.3	88.3	107	3.95	19.0
	Malathion	87.2	84.2	83.9	99.5	3.60	17.0
	Metalaxyl	33.1	37.6	88.2	102	12.7	14.6
	Methoxychlor	87.6	92.9	105	98.6	5.88	5.93
	Metolachlor	80.2	83.9	74.2	91.8	4.49	19.7
	Metribuzin	74.2	65.4	131	137	12.7	4.39
	Mevinphos	54.6	53.7	70.7	73.9	1.70	4.32
	Mirex	45.1	45.6	54.8	46.3	0.971	16.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Molinate	78.9	66.4	58.6	58.0	17.2		1.12
	Norflurazon	56.6	64.0	71.1	78.3	12.4		9.64
	Oxadiazon	83.6	87.2	77.2	94.8	4.15		20.4
	Parathion Ethyl	74.0	73.3	75.3	89.8	1.04		17.7
	Parathion Methyl	72.8	72.2	81.3	92.2	0.810		12.5
	Pendimethalin	81.9	77.7	94.3	114	5.28		19.0
	Permethrin	54.9	53.3	63.6	52.0	2.93		20.1
	Phorate	62.9	53.4	71.5	80.0	16.4		11.2
	Prodiamine	85.7	86.1	103	123	0.549		18.2
	Prometon	71.5	77.4	74.7	93.3	7.95		22.0
	Prometryn	74.6	78.3	74.5	88.0	4.82		16.5
	Simazine	78.8	84.5	82.1	92.3	6.98		11.7
	Tebuconazole	32.1	39.1	51.4	63.6	19.7		21.2
	Terbufos	75.2	66.3	77.7	85.8	12.5		9.90
	Terbuthylazine	78.4	81.3	82.2	95.4	3.65		14.9
	Trans-Nonachlor	56.1	57.5	65.7	59.0	2.47		10.7
	Trifluralin	69.2	71.2	86.4	79.6	2.92		8.26
	Chlordane	60.7	70.5	67.8	64.8	15.0		4.63
EPA 8276	Toxaphene	52.5	59.4	46.2	51.8	12.4		11.4
EPA 8321B	2,4-D	95.3		124	109			12.2
	3-Hydroxycarbofuran	78.7		90.9	82.6			9.62
	Acesulfame K	119		112	108			2.93
	Acetaminophen	83.6		83.8	87.9			4.72
	Aldicarb	84.7		68.5	66.0			3.66
	Aldicarb Sulfone	92.4		99.1	103			4.22
	Aldicarb Sulfoxide	87.3		40.2	39.8			1.22
	AMPA	120		93.0	96.5			3.67
	Bentazon	129		102	87.8			7.76
	Carbamazepine	94.6		76.6	85.9			10.7
	Carbaryl	83.9		69.8	68.1			2.54
	Carbofuran	68.7		61.5	64.8			5.22
	Diuron	93.2		77.8	79.3			1.73
	Endothall	96.4		86.4	90.3			4.43
	Fenuron	106		99.4	86.2			14.3
	Fluridone	91.5		92.8	91.3			0.803
	Glufosinate	98.2		85.3	88.1			3.24
	Glyphosate	91.7		77.9	78.8			1.20
	Hydrocodone	100		94.6	98.2			3.78
	Ibuprofen	81.8		72.6	71.2			2.01
	Imazapyr	95.7						35.2
	Imidacloprid	102		131	163			18.9
	Linuron	77.6		72.5	67.3			7.48
	MCPP	114		167	146			13.5
	Methiocarb	72.5		63.2	62.9			0.515
	Methomyl	81.3		83.4	71.3			15.6
	Naproxen	89.0		125	95.6			26.8
	Oxamyl	97.3		88.5	83.5			5.85
	Primidone	92.0		101	97.1			4.11
	Propoxur	80.9		68.5	67.5			1.49
	Pyraclostrobin	70.7		86.4	80.7			6.91
	Sucralose	94.2		94.9	85.1			10.4
	Triclopyr	72.9		113	91.6			21.2
SM 2120 B	Color (true)	101					4.68	
SM 2320 B-97	Total Alkalinity	103					1.42	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	Precision		
				LCS	SMP	MS
SM 2320 B-97	Total Alkalinity	103			0.863	
	Total Alkalinity	104			0.703	
SM 2540 C-97	TDS				4.05	
SM 4500 F-C-97	Fluoride	97.7				0.473
	Fluoride	96.4	105 104			1.48
	Fluoride	96.9	101 99.3			0.992
SM 5310 B-00	Organic Carbon	105	106 106			0.259
	Organic Carbon	105	104 104			0.0899

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2089522, 2089525, 2089528, 2089529, 2089534
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2089556, 2089557, 2089558, 2089559, 2089560
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2089556, 2089557, 2089558, 2089559, 2089560
EPA 300.0 / E31780	Bromide in aqueous matrices	2089522, 2089525, 2089528, 2089529
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2089534
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2089534
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2089523, 2089526, 2089530, 2089531, 2089535
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2089523, 2089526, 2089530, 2089531, 2089535
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2089523, 2089526, 2089530, 2089531, 2089535
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2089523, 2089526, 2089530, 2089531, 2089535
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2089524, 2089527, 2089532, 2089533, 2089536
EPA 8270E / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2089549
EPA 8270E / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2089550
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2089549
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2089542
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2089543
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2089543
SM 2120 B / E31780	True Color measured at 450 nm	2089534
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2089522, 2089525, 2089528, 2089529, 2089534
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2089534
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2089522, 2089525, 2089528, 2089529, 2089534
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2089522, 2089525, 2089528, 2089529, 2089534
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2089523, 2089526, 2089530, 2089531, 2089535

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	05/29/2019			05/29/2019 16:48	Adrian Shelby	2089522, 2089525, 2089528, 2089529, 2089534
EPA 200.7 Rev. 4.4	05/29/2019	05/30/2019 17:10	Elliott D. Healy	06/03/2019 14:21	Betina Topolski	2089556
	05/29/2019	05/30/2019 17:10	Elliott D. Healy	06/03/2019 15:23	Betina Topolski	2089557
	05/29/2019	05/30/2019 17:10	Elliott D. Healy	06/03/2019 15:42	Betina Topolski	2089558
	05/29/2019	05/30/2019 17:10	Elliott D. Healy	06/03/2019 15:59	Betina Topolski	2089560
	05/29/2019	05/30/2019 17:15	Elliott D. Healy	06/03/2019 15:45	Betina Topolski	2089559
EPA 200.8 Rev. 5.4	05/29/2019	05/30/2019 17:10	Elliott D. Healy	06/03/2019 17:09	Robert K Palmer	2089556
	05/29/2019	05/30/2019 17:10	Elliott D. Healy	06/03/2019 17:18	Robert K Palmer	2089557
	05/29/2019	05/30/2019 17:10	Elliott D. Healy	06/03/2019 17:28	Robert K Palmer	2089558
	05/29/2019	05/30/2019 17:10	Elliott D. Healy	06/03/2019 18:07	Robert K Palmer	2089560
	05/29/2019	05/30/2019 17:10	Elliott D. Healy	06/04/2019 13:24	Robert K Palmer	2089560
	05/29/2019	05/30/2019 17:10	Elliott D. Healy	06/04/2019 20:08	Robert K Palmer	2089558
	05/29/2019	05/30/2019 17:10	Elliott D. Healy	06/06/2019 16:45	Robert K Palmer	2089558
	05/29/2019	05/30/2019 17:15	Elliott D. Healy	06/05/2019 00:51	Robert K Palmer	2089559
	05/29/2019	05/30/2019 17:15	Elliott D. Healy	06/05/2019 02:59	Robert K Palmer	2089559
	05/29/2019	05/30/2019 17:15	Elliott D. Healy	06/06/2019 03:55	Robert K Palmer	2089559
	05/29/2019	05/30/2019 17:15	Elliott D. Healy	06/06/2019 15:57	Robert K Palmer	2089559
EPA 300.0	05/29/2019			05/30/2019 14:05	Lipi Saha	2089522
	05/29/2019			05/30/2019 14:56	Lipi Saha	2089528
	05/29/2019			05/30/2019 15:30	Lipi Saha	2089525
	05/29/2019			05/30/2019 15:47	Lipi Saha	2089529
EPA 300.0 Rev. 2.1	05/29/2019			06/03/2019 16:46	Lipi Saha	2089534
EPA 350.1 Rev. 2.0	05/29/2019			05/31/2019 14:18	Ping Hua	2089523
	05/29/2019			05/31/2019 14:19	Ping Hua	2089526
	05/29/2019			05/31/2019 14:21	Ping Hua	2089530
	05/29/2019			05/31/2019 14:28	Ping Hua	2089531
	05/29/2019			05/31/2019 14:33	Ping Hua	2089535
EPA 351.2 Rev. 2.0	05/29/2019	06/03/2019 13:00	Adrian Shelby	06/03/2019 23:35	Virginia P. Brown	2089523
	05/29/2019	06/03/2019 13:00	Adrian Shelby	06/03/2019 23:37	Virginia P. Brown	2089526
	05/29/2019	06/03/2019 13:00	Adrian Shelby	06/03/2019 23:38	Virginia P. Brown	2089530
	05/29/2019	06/03/2019 13:00	Adrian Shelby	06/03/2019 23:40	Virginia P. Brown	2089531
	05/29/2019	06/04/2019 11:15	Adrian Shelby	06/06/2019 09:11	Joseph Suarez	2089535
EPA 353.2 Rev. 2.0	05/29/2019			05/30/2019 10:01	Beverly Y. Sanders	2089535
	05/29/2019			06/04/2019 14:11	Beverly Y. Sanders	2089523
	05/29/2019			06/04/2019 14:13	Beverly Y. Sanders	2089526
	05/29/2019			06/04/2019 14:15	Beverly Y. Sanders	2089530
	05/29/2019			06/04/2019 14:18	Beverly Y. Sanders	2089531
EPA 365.1 Rev. 2.0	05/29/2019	06/03/2019 11:05	Sima Feizi	06/04/2019 10:08	Rosalyn Ballman	2089535
	05/29/2019	06/03/2019 11:05	Sima Feizi	06/04/2019 10:58	Rosalyn Ballman	2089530

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 365.1 Rev. 2.0	05/29/2019	06/03/2019 11:05	Sima Feizi	06/04/2019 13:12	Rosalyn Ballman	2089523
	05/29/2019	06/03/2019 11:05	Sima Feizi	06/04/2019 13:13	Rosalyn Ballman	2089526
	05/29/2019	06/03/2019 11:05	Sima Feizi	06/04/2019 13:14	Rosalyn Ballman	2089531
EPA 365.1 Rev. 2.0 dissolved	05/29/2019			05/29/2019 16:45	Jhamieka S. Greenwood	2089536
	05/29/2019			05/29/2019 17:01	Jhamieka S. Greenwood	2089524
	05/29/2019			05/29/2019 17:02	Jhamieka S. Greenwood	2089527
	05/29/2019			05/29/2019 17:03	Jhamieka S. Greenwood	2089532
	05/29/2019			05/29/2019 17:04	Jhamieka S. Greenwood	2089533
	05/29/2019					
EPA 8270E	05/29/2019	05/30/2019 08:30	Dinesh Mishra	06/03/2019 17:28	Vandana T. Nagar	2089550
	05/29/2019	06/03/2019 09:00	Fe-Val Siddell	06/06/2019 04:40	Arthur Maknenko	2089549
EPA 8276	05/29/2019	06/03/2019 09:00	Fe-Val Siddell	06/09/2019 06:48	Dinesh Mishra	2089549
EPA 8321B	05/29/2019	05/29/2019 12:30	Rebecca Ware	05/29/2019 13:16	Rebecca Ware	2089543
	05/29/2019	05/29/2019 12:30	Rebecca Ware	05/29/2019 15:50	Rebecca Ware	2089543
	05/29/2019	05/29/2019 12:30	Rebecca Ware	06/11/2019 18:52	Rebecca Ware	2089543
	05/29/2019	06/03/2019 09:00	Hoor Shaik	06/04/2019 04:22	Juyoung Kim	2089542
	05/29/2019	06/03/2019 09:00	Hoor Shaik	06/04/2019 08:24	Juyoung Kim	2089543
SM 2120 B	05/29/2019			05/29/2019 15:15	Madeline Funaro	2089534
SM 2320 B-97	05/29/2019			06/03/2019 09:46	Dale L. Simmons	2089529
	05/29/2019			06/04/2019 19:34	Samantha Davila	2089534
	05/29/2019			06/05/2019 09:16	Samantha Davila	2089522
	05/29/2019			06/05/2019 09:28	Samantha Davila	2089525
	05/29/2019			06/05/2019 09:40	Samantha Davila	2089528
SM 2540 C-97	05/29/2019			05/31/2019 15:11	Yijie Li	2089534
SM 2540 D-97	05/29/2019			05/31/2019 15:11	Yijie Li	2089522, 2089525, 2089528, 2089529, 2089534
SM 4500 F-C-97	05/29/2019			06/03/2019 06:11	Dale L. Simmons	2089529
	05/29/2019			06/04/2019 19:34	Samantha Davila	2089534
	05/29/2019			06/05/2019 09:16	Samantha Davila	2089522
	05/29/2019			06/05/2019 09:28	Samantha Davila	2089525
	05/29/2019			06/05/2019 09:40	Samantha Davila	2089528
SM 5310 B-00	05/29/2019			05/31/2019 04:33	Julia Storbeck	2089523
	05/29/2019			05/31/2019 05:12	Julia Storbeck	2089526
	05/29/2019			05/31/2019 06:01	Julia Storbeck	2089530
	05/29/2019			05/31/2019 06:17	Julia Storbeck	2089531
	05/29/2019			05/31/2019 06:33	Julia Storbeck	2089535