

Chemical Analysis Report

SE-DIST-2019-07-30-01

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

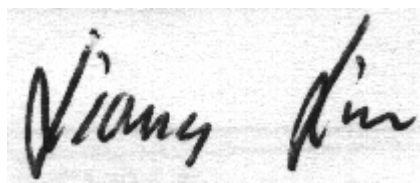
Event Description: **SMP-Greasy**
Request ID: **RQ-2019-07-29-60**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Drew Liddick

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Liang Lin, Environmental Administrator

Date Certified: 23-AUG-2019 10:30

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: North New River @ Hiatus

Collection Date/Time: 07/29/2019 12:45

Field ID: G4SE0114

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106831	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P368159	
	EPA 300.0 Rev. 2.1	Chloride	87		mg Cl/L	P368401	
		Sulfate	9.5		mg SO4/L	P368403	
	SM 2120 B	Color (true)	61		PCU	P368173	
	SM 2320 B-97	Total Alkalinity	214		mg CaCO3/L	P368559	
	SM 2540 C-97	TDS	428		mg/L	P368579	
	SM 2540 D-97	TSS	2	U	mg/L	P368353	
	SM 4500 F-C-97	Fluoride	0.37		mg F/L	P368562	
2106833	EPA 350.1 Rev. 2.0	Ammonia-N	0.34		mg N/L	P368748	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P368290	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.029		mg N/L	P368381	
	EPA 365.1 Rev. 2.0	Total-P	0.008		mg P/L	P368213	
	SM 5310 B-00	Organic Carbon	20		mg C/L	P368262	
2106835	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P368216	
2106917	EPA 8321B	Aldicarb	0.020	U	ug/L	P367831	
		Aldicarb Sulfone	0.0020	U	ug/L	P367831	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P367831	
		Carbaryl	0.0020	U	ug/L	P367831	
		Carbofuran	0.0020	U	ug/L	P367831	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P367831	
		Methiocarb	0.0020	U	ug/L	P367831	
		Methomyl	0.0020	U	ug/L	P367831	MS, RPD
		Oxamyl	0.0020	U	ug/L	P367831	
		Propoxur	0.0020	U	ug/L	P367831	
2106919		Acesulfame K**	0.10	U	ug/L	P368170	
		2,4-D	0.0067	I	ug/L	P368092	MS
		AMPA**	0.10	U	ug/L	P368170	
		Sucralose**	0.010	U	ug/L	P368170	
		Acetaminophen**	0.0080	U	ug/L	P368092	
		Endothall**	0.25	U	ug/L	P368170	
		Acetamiprid**	0.0020	U	ug/L	P368092	
		Glufosinate**	0.10	U	ug/L	P368170	
		Glyphosate**	0.10	U	ug/L	P368170	
		Afidopyropen**	0.0020	UJ	ug/L	P368092	
		Bentazon	0.049		ug/L	P368092	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P368092	
		Carbamazepine**	8.0E-04	U	ug/L	P368092	
		Clothianidin**	0.0020	U	ug/L	P368092	
		Dinotefuran**	0.0020	U	ug/L	P368092	
		Diuron	0.0020	U	ug/L	P368092	
		Fenuron	0.016	U	ug/L	P368092	
		Fluridone**	8.0E-04	U	ug/L	P368092	
		Imazapyr**	0.051		ug/L	P368092	

Field ID: G4SE0114

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106919	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P368092	
		Ibuprofen**	0.020	U	ug/L	P368092	
		Imidacloprid	0.0020	U	ug/L	P368092	MS
		Linuron	0.0040	U	ug/L	P368092	
		Mandestrobin**	0.0020	UJ	ug/L	P368092	
		MCP	0.0020	UJ	ug/L	P368092	LCS, MS
		Naproxen**	0.0080	U	ug/L	P368092	MS
		Primidone**	0.0040	U	ug/L	P368092	
		Pyraclostrobin**	0.0020	U	ug/L	P368092	
		Thiamethoxam**	0.0020	U	ug/L	P368092	MS
		Tolfenpyrad**	0.0020	U	ug/L	P368092	
		Triclopyr**	0.0040	U	ug/L	P368092	
2106925	EPA 8270E	Aldrin	4.6	U	ng/L	P368067	
		Alpha-BHC	2.3	U	ng/L	P368067	MS
		Alpha-Chlordane	1.2	U	ng/L	P368067	
		Beta-BHC	12	UJ	ng/L	P368067	LCS, MS
		Bifenthrin**	4.6	U	ng/L	P368067	
		Delta-BHC	9.3	U	ng/L	P368067	
		Gamma-BHC	9.3	UJ	ng/L	P368067	LCS, MS
		Carbophenothion	12	U	ng/L	P368067	
		Chlorothalonil	2.3	U	ng/L	P368067	RPD
		Cis-Nonachlor**	1.2	U	ng/L	P368067	
		Cypermethrin	23	U	ng/L	P368067	
		DDD-p,p'	6.9	U	ng/L	P368067	
		DDE-p,p'	6.9	U	ng/L	P368067	
		DDT-p,p'	8.1	U	ng/L	P368067	
		Dicofol	35	U	ng/L	P368067	
		Dieldrin	4.6	U	ng/L	P368067	
		Endosulfan I	4.6	U	ng/L	P368067	
		Endosulfan II	4.6	U	ng/L	P368067	MS
		Endosulfan Sulfate	2.3	U	ng/L	P368067	
		Endrin	2.3	U	ng/L	P368067	
		Endrin Aldehyde	2.3	U	ng/L	P368067	
		Endrin Ketone	2.3	U	ng/L	P368067	
		Ethalfuralin**	3.5	U	ng/L	P368067	
		Gamma-Chlordane	1.2	U	ng/L	P368067	
		Heptachlor	1.7	U	ng/L	P368067	
		Heptachlor Epoxide	2.3	U	ng/L	P368067	
		Hexachlorobenzene	2.3	U	ng/L	P368067	
		Methoxychlor	4.6	U	ng/L	P368067	MS
		Mirex	2.3	U	ng/L	P368067	RPD
		Permethrin	12	U	ng/L	P368067	
		Trans-Nonachlor**	1.2	U	ng/L	P368067	
		Trifluralin	2.9	U	ng/L	P368067	
	EPA 8276	Chlordane	5.8	U	ng/L	P368067	

Field ID: G4SE0114

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106925	EPA 8276	Toxaphene	35	U	ng/L	P368067	
2106927	EPA 8270E	Acetochlor	0.27	U	ng/L	P368257	
		Alachlor	0.27	U	ng/L	P368257	
		Ametryn	0.65	U	ng/L	P368257	
		Atrazine	9.6		ng/L	P368257	
		Atrazine Desethyl	1.6	U	ng/L	P368257	
		Azinphos Methyl	5.4	U	ng/L	P368257	
		Bromacil	0.54	U	ng/L	P368257	
		Butylate	0.44	U	ng/L	P368257	RPD
		Chlorpyrifos Ethyl	0.27	U	ng/L	P368257	
		Chlorpyrifos Methyl	0.11	U	ng/L	P368257	
		Cyanazine	3.5	U	ng/L	P368257	
		Demeton	7.6	U	ng/L	P368257	
		Diazinon	0.14	U	ng/L	P368257	
		Dimethenamid**	0.11	U	ng/L	P368257	
		Disulfoton	0.54	U	ng/L	P368257	
		Dithiopyr**	0.11	U	ng/L	P368257	
		EPTC	1.4	U	ng/L	P368257	RPD
		Ethion	0.16	UJ	ng/L	P368257	LCS, RPD
		Ethoprop	0.11	U	ng/L	P368257	
		Fenamiphos	0.54	U	ng/L	P368257	
		Fipronil	0.27	U	ng/L	P368257	
		Fipronil Desulfinyl**	0.14	U	ng/L	P368257	
		Fipronil Sulfide	0.16	U	ng/L	P368257	
		Fipronil Sulfone	0.16	U	ng/L	P368257	
		Fonofos	0.22	U	ng/L	P368257	
		Hexazinone	3.4		ng/L	P368257	
		Malathion	0.38	U	ng/L	P368257	
		Metalaxyl	0.33	U	ng/L	P368257	
		Metolachlor	0.79	I	ng/L	P368257	
		Metribuzin	1.4	IJ	ng/L	P368257	RPD
		Mevinphos	0.54	U	ng/L	P368257	
		Molinate	0.33	U	ng/L	P368257	RPD
		Norflurazon	0.54	U	ng/L	P368257	
		Oxadiazon**	0.49		ng/L	P368257	
		Parathion Ethyl	0.27	U	ng/L	P368257	
		Parathion Methyl	0.60	U	ng/L	P368257	
		Pendimethalin	1.1	U	ng/L	P368257	
		Phorate	0.27	U	ng/L	P368257	
		Prodiamine**	0.19	UJ	ng/L	P368257	LCS, RPD
		Prometon	0.98	U	ng/L	P368257	
		Prometryn	0.22	U	ng/L	P368257	
		Simazine	0.54	U	ng/L	P368257	
		Tebuconazole**	0.54	UJ	ng/L	P368257	RPD
		Terbufos	0.11	U	ng/L	P368257	

Field ID: G4SE0114

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106927	EPA 8270E	Terbutylazine	0.46	U	ng/L	P368257	
2106937	EPA 200.7 Rev. 4.4	Barium	27.9		ug/L	P368250	
		Calcium	69.2		mg/L	P368250	
		Iron	230		ug/L	P368250	
		Magnesium	17.0		mg/L	P368250	
		Potassium	5.0		mg/L	P368250	
		Sodium	60.5		mg/L	P368250	
		Zinc	5.0	U	ug/L	P368250	
	EPA 200.8 Rev. 5.4	Aluminum	7.5	I	ug/L	P368250	
		Antimony	0.050	U	ug/L	P368250	
		Arsenic	0.70		ug/L	P368250	
		Boron**	60.3		ug/L	P368250	
		Cadmium	0.020	U	ug/L	P368250	
		Chromium	0.40	U	ug/L	P368250	
		Copper	0.40	U	ug/L	P368250	
		Lead	0.20	U	ug/L	P368250	
		Nickel	0.50	U	ug/L	P368250	
		Selenium	0.20	U	ug/L	P368250	
		Silver	0.010	U	ug/L	P368250	
		Thallium	0.10	U	ug/L	P368250	

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: J - second source check standards for some analytes were not available for analysis. MS accuracy for acetaminophen and 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 8270E: Refer to the narrative for an explanation of QC Codes.

Sample Location: C-42 @ Broward

Collection Date/Time: 07/29/2019 13:00

Field ID: G4SE0057

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106825	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P368159	
	EPA 300.0 Rev. 2.1	Chloride	88		mg Cl/L	P368401	
		Sulfate	9.0		mg SO4/L	P368403	
	SM 2120 B	Color (true)	57		PCU	P368173	
	SM 2320 B-97	Total Alkalinity	212		mg CaCO3/L	P368559	
	SM 2540 C-97	TDS	421		mg/L	P368579	
	SM 2540 D-97	TSS	3	I	mg/L	P368353	
	SM 4500 F-C-97	Fluoride	0.36		mg F/L	P368562	
2106826	EPA 350.1 Rev. 2.0	Ammonia-N	0.30		mg N/L	P368745	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P368290	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.031		mg N/L	P368381	
	EPA 365.1 Rev. 2.0	Total-P	0.009		mg P/L	P368213	
	SM 5310 B-00	Organic Carbon	20		mg C/L	P368262	
2106827	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P368216	

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: Holloway @ Peters

Collection Date/Time: 07/29/2019 13:30

Field ID: G4SE0107

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106828	EPA 180.1 Rev. 2.0	Turbidity	0.55		NTU	P368159	
	EPA 300.0 Rev. 2.1	Chloride	69		mg Cl/L	P368401	
		Sulfate	5.2		mg SO4/L	P368403	
	SM 2120 B	Color (true)	35		PCU	P368173	
	SM 2320 B-97	Total Alkalinity	162		mg CaCO3/L	P368559	
	SM 2540 C-97	TDS	318	A	mg/L	P368579	
	SM 2540 D-97	TSS	2	UA	mg/L	P368353	
	SM 4500 F-C-97	Fluoride	0.28		mg F/L	P368562	
2106829	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P368748	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.93		mg N/L	P368290	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P368381	
	EPA 365.1 Rev. 2.0	Total-P	0.008		mg P/L	P368213	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P368262	
2106830	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	I	mg P/L	P368216	

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: North New River Canal (NNR-3)

Collection Date/Time: 07/29/2019 14:30

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106832	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P368159	
	EPA 300.0 Rev. 2.1	Chloride	84		mg Cl/L	P368401	
		Sulfate	6.8		mg SO4/L	P368403	
	SM 2120 B	Color (true)	51	A	PCU	P368173	
	SM 2320 B-97	Total Alkalinity	208		mg CaCO3/L	P368559	
	SM 2540 C-97	TDS	417		mg/L	P368579	
	SM 2540 D-97	TSS	2	U	mg/L	P368353	
	SM 4500 F-C-97	Fluoride	0.34		mg F/L	P368562	
2106834	EPA 350.1 Rev. 2.0	Ammonia-N	0.29		mg N/L	P368748	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P368290	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.038		mg N/L	P368381	
	EPA 365.1 Rev. 2.0	Total-P	0.007		mg P/L	P368213	
	SM 5310 B-00	Organic Carbon	19		mg C/L	P368263	
2106836	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P368216	
2106918	EPA 8321B	Aldicarb	0.020	U	ug/L	P367831	
		Aldicarb Sulfone	0.0020	U	ug/L	P367831	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P367831	
		Carbaryl	0.0020	U	ug/L	P367831	
		Carbofuran	0.0020	U	ug/L	P367831	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P367831	
		Methiocarb	0.0020	U	ug/L	P367831	
		Methomyl	0.0020	U	ug/L	P367831	MS, RPD
		Oxamyl	0.0020	U	ug/L	P367831	
		Propoxur	0.0020	U	ug/L	P367831	
2106926	EPA 8270E	Aldrin	4.5	U	ng/L	P368067	
		Alpha-BHC	2.3	U	ng/L	P368067	MS
		Alpha-Chlordane	1.1	U	ng/L	P368067	
		Beta-BHC	11	UJ	ng/L	P368067	LCS, MS
		Bifenthrin**	4.5	U	ng/L	P368067	
		Delta-BHC	9.0	U	ng/L	P368067	
		Gamma-BHC	9.0	UJ	ng/L	P368067	LCS, MS
		Carbophenothion	11	U	ng/L	P368067	
		Chlorothalonil	2.3	U	ng/L	P368067	RPD
		Cis-Nonachlor**	1.1	U	ng/L	P368067	
		Cypermethrin	23	U	ng/L	P368067	
		DDD-p,p'	6.8	U	ng/L	P368067	
		DDE-p,p'	6.8	U	ng/L	P368067	
		DDT-p,p'	7.9	U	ng/L	P368067	
		Dicofol	34	U	ng/L	P368067	
		Dieltin	4.5	U	ng/L	P368067	
		Endosulfan I	4.5	U	ng/L	P368067	
		Endosulfan II	4.5	U	ng/L	P368067	MS
		Endosulfan Sulfate	2.3	U	ng/L	P368067	

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106926	EPA 8270E	Endrin	2.3	U	ng/L	P368067	
		Endrin Aldehyde	2.3	U	ng/L	P368067	
		Endrin Ketone	2.3	U	ng/L	P368067	
		Ethalfuralin**	3.4	U	ng/L	P368067	
		Gamma-Chlordane	1.1	U	ng/L	P368067	
		Heptachlor	1.7	U	ng/L	P368067	
		Heptachlor Epoxide	2.3	U	ng/L	P368067	
		Hexachlorobenzene	2.3	U	ng/L	P368067	
		Methoxychlor	4.5	U	ng/L	P368067	MS
		Mirex	2.3	U	ng/L	P368067	RPD
		Permethrin	11	U	ng/L	P368067	
		Trans-Nonachlor**	1.1	U	ng/L	P368067	
		Trifluralin	2.8	U	ng/L	P368067	
		Chlordane	5.7	U	ng/L	P368067	
		Toxaphene	34	U	ng/L	P368067	
2106928	EPA 8270E	Acetochlor	0.26	U	ng/L	P368257	
		Alachlor	0.26	U	ng/L	P368257	
		Ametryn	0.63	U	ng/L	P368257	
		Atrazine	11		ng/L	P368257	
		Atrazine Desethyl	1.6	U	ng/L	P368257	
		Azinphos Methyl	5.3	U	ng/L	P368257	
		Bromacil	0.53	U	ng/L	P368257	
		Butylate	0.42	U	ng/L	P368257	RPD
		Chlorpyrifos Ethyl	0.26	U	ng/L	P368257	
		Chlorpyrifos Methyl	0.11	U	ng/L	P368257	
		Cyanazine	3.4	U	ng/L	P368257	
		Demeton	7.4	U	ng/L	P368257	
		Diazinon	0.13	U	ng/L	P368257	
		Dimethenamid**	0.11	U	ng/L	P368257	
		Disulfoton	0.53	U	ng/L	P368257	
		Dithiopyr**	0.11	U	ng/L	P368257	
		EPTC	1.3	U	ng/L	P368257	RPD
		Ethion	0.16	UJ	ng/L	P368257	LCS, RPD
		Ethoprop	0.11	U	ng/L	P368257	
		Fenamiphos	0.53	U	ng/L	P368257	
		Fipronil	0.26	U	ng/L	P368257	
		Fipronil DesulfinyI**	0.13	U	ng/L	P368257	
		Fipronil Sulfide	0.16	U	ng/L	P368257	
		Fipronil Sulfone	0.16	U	ng/L	P368257	
		Fonofos	0.21	U	ng/L	P368257	
		Hexazinone	2.9		ng/L	P368257	
		Malathion	0.37	U	ng/L	P368257	
		Metalaxyl	0.32	U	ng/L	P368257	
		Metolachlor	0.53	U	ng/L	P368257	
		Metribuzin	0.79	UJ	ng/L	P368257	RPD

Field ID: G4SENNR3

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106928	EPA 8270E	Mevinphos	0.53	U	ng/L	P368257	
		Molinate	0.32	U	ng/L	P368257	RPD
		Norflurazon	0.53	U	ng/L	P368257	
		Oxadiazon**	2.8		ng/L	P368257	
		Parathion Ethyl	0.26	U	ng/L	P368257	
		Parathion Methyl	0.58	U	ng/L	P368257	
		Pendimethalin	1.1	U	ng/L	P368257	
		Phorate	0.26	U	ng/L	P368257	
		Prodiamine**	0.18	UJ	ng/L	P368257	LCS, RPD
		Prometon	0.95	U	ng/L	P368257	
		Prometryn	0.21	U	ng/L	P368257	
		Simazine	0.53	U	ng/L	P368257	
		Tebuconazole**	0.53	UJ	ng/L	P368257	RPD
		Terbufos	0.11	U	ng/L	P368257	
		Terbuthylazine	0.45	U	ng/L	P368257	
2106938	EPA 200.7 Rev. 4.4	Barium	28.2		ug/L	P368250	
		Calcium	64.5		mg/L	P368250	
		Iron	160		ug/L	P368250	
		Magnesium	15.1		mg/L	P368250	
		Potassium	4.6		mg/L	P368250	
		Sodium	56.2		mg/L	P368250	
		Zinc	5.0	U	ug/L	P368250	
	EPA 200.8 Rev. 5.4	Aluminum	12	I	ug/L	P368250	
		Antimony	0.052	I	ug/L	P368250	
		Arsenic	0.63		ug/L	P368250	
		Boron**	52.6		ug/L	P368250	
		Cadmium	0.020	U	ug/L	P368250	
		Chromium	0.40	U	ug/L	P368250	
		Copper	0.58	I	ug/L	P368250	
		Lead	0.20	U	ug/L	P368250	
		Nickel	0.50	U	ug/L	P368250	
		Selenium	0.20	U	ug/L	P368250	
		Silver	0.010	U	ug/L	P368250	
		Thallium	0.10	U	ug/L	P368250	

Ref. Method and Comment:

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

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

Sample Location: North Fork Snake Creek @ Sunshine Reach

Collection Date/Time: 07/29/2019 12:30

Field ID: G4SE0116

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106837	EPA 180.1 Rev. 2.0	Turbidity	0.95		NTU	P368159	
	EPA 300.0 Rev. 2.1	Chloride	59		mg Cl/L	P368401	
		Sulfate	2.6		mg SO4/L	P368403	
	SM 2120 B	Color (true)	33		PCU	P368173	
	SM 2320 B-97	Total Alkalinity	209	A	mg CaCO3/L	P368559	
	SM 2540 C-97	TDS	337		mg/L	P368579	
	SM 2540 D-97	TSS	2	U	mg/L	P368353	
	SM 4500 F-C-97	Fluoride	0.23		mg F/L	P368562	
2106839	EPA 350.1 Rev. 2.0	Ammonia-N	0.044		mg N/L	P368748	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P368290	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.056		mg N/L	P368381	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P368213	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P368263	
2106841	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P368216	

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: Snake Creek Canal (North Fork) @ Stirling

Collection Date/Time: 07/29/2019 12:50

Field ID: G4SE0049

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106838	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P368160	
	EPA 300.0 Rev. 2.1	Chloride	57		mg Cl/L	P368401	
		Sulfate	3.1		mg SO4/L	P368403	
	SM 2120 B	Color (true)	33		PCU	P368173	
	SM 2320 B-97	Total Alkalinity	209		mg CaCO3/L	P368560	
	SM 2540 C-97	TDS	338		mg/L	P368579	
	SM 2540 D-97	TSS	2	U	mg/L	P368353	
	SM 4500 F-C-97	Fluoride	0.23		mg F/L	P368563	
2106840	EPA 350.1 Rev. 2.0	Ammonia-N	0.057		mg N/L	P368748	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P368290	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P368381	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P368213	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P368263	
2106842	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P368218	

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: West Lake @ Sheridan

Collection Date/Time: 07/29/2019 13:25

Field ID: G4SE0037

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106843	EPA 180.1 Rev. 2.0	Turbidity	6.8	A	NTU	P368160	
	EPA 300.0	Bromide	61		mg Br/L	P368407	
	SM 2320 B-97	Total Alkalinity	156		mg CaCO3/L	P368719	
	SM 2540 D-97	TSS	7	I	mg/L	P368358	
	SM 4500 F-C-97	Fluoride	1.1		mg F/L	P368722	
2106844	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P368747	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.33	I	mg N/L	P368366	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P368297	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P368211	
	SM 5310 B-00	Organic Carbon	4.0		mg C/L	P368264	
2106845	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P368217	

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: North Fork New River @ Sistrunk

Collection Date/Time: 07/29/2019 14:15

Field ID: G4SEB064

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106819	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P368159	
	EPA 300.0	Bromide	8.5		mg Br/L	P368407	
	SM 2320 B-97	Total Alkalinity	196		mg CaCO3/L	P368559	
	SM 2540 D-97	TSS	5	I	mg/L	P368355	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P368562	
2106821	EPA 350.1 Rev. 2.0	Ammonia-N	0.16		mg N/L	P368747	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.80		mg N/L	P368287	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.081		mg N/L	P368297	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P368211	
	SM 5310 B-00	Organic Carbon	7.7		mg C/L	P368262	
2106823	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.070		mg P/L	P368217	
2106913	EPA 8321B	Aldicarb	0.020	U	ug/L	P367831	
		Aldicarb Sulfone	0.0020	U	ug/L	P367831	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P367831	
		Carbaryl	0.0020	U	ug/L	P367831	
		Carbofuran	0.0020	U	ug/L	P367831	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P367831	
		Methiocarb	0.0020	U	ug/L	P367831	
		Methomyl	0.0020	U	ug/L	P367831	MS, RPD
		Oxamyl	0.0020	U	ug/L	P367831	
		Propoxur	0.0020	U	ug/L	P367831	
		2,4-D	0.020		ug/L	P368092	MS
		Acesulfame K**	0.10	UJ	ug/L	P368170	SUR
		AMPA**	1.0	U	ug/L	P368170	
2106915		Sucralose**	0.16		ug/L	P368170	
		Acetaminophen**	0.0080	U	ug/L	P368092	
		Endothall**	0.25	UJ	ug/L	P368170	SUR
		Acetamiprid**	0.0020	U	ug/L	P368092	
		Glufosinate**	1.0	U	ug/L	P368170	
		Glyphosate**	1.0	U	ug/L	P368170	
		Afidopyropen**	0.0020	UJ	ug/L	P368092	
		Bentazon	0.042		ug/L	P368092	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P368092	
		Carbamazepine**	0.0013	I	ug/L	P368092	
		Clothianidin**	0.0021	I	ug/L	P368092	
		Dinotefuran**	0.0072	I	ug/L	P368092	
		Diuron	0.017		ug/L	P368092	
		Fenuron	0.016	U	ug/L	P368092	
		Fluridone**	0.0088		ug/L	P368092	
		Imazapyr**	0.090		ug/L	P368092	
		Hydrocodone**	0.0020	U	ug/L	P368092	
		Ibuprofen**	0.020	U	ug/L	P368092	
		Imidacloprid	0.022		ug/L	P368092	MS

Field ID: G4SEB064

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106915	EPA 8321B	Linuron	0.0040	U	ug/L	P368092	
		Mandestrobin**	0.0020	UJ	ug/L	P368092	
		MCPP	0.0035	IJ	ug/L	P368092	LCS, MS
		Naproxen**	0.0080	U	ug/L	P368092	MS
		Primidone**	0.0040	U	ug/L	P368092	
		Pyraclostrobin**	0.0020	U	ug/L	P368092	
		Thiamethoxam**	0.0020	U	ug/L	P368092	MS
		Tolfenpyrad**	0.0020	U	ug/L	P368092	
		Triclopyr**	0.0040	U	ug/L	P368092	
2106921	EPA 8270E	Aldrin	4.2	U	ng/L	P368067	
		Alpha-BHC	2.1	U	ng/L	P368067	MS
		Alpha-Chlordane	1.1	U	ng/L	P368067	
		Beta-BHC	11	UJ	ng/L	P368067	LCS, MS
		Bifenthrin**	4.2	U	ng/L	P368067	
		Delta-BHC	8.5	U	ng/L	P368067	
		Gamma-BHC	8.5	UJ	ng/L	P368067	LCS, MS
		Carbophenothion	11	U	ng/L	P368067	
		Chlorothalonil	2.1	U	ng/L	P368067	RPD
		Cis-Nonachlor**	1.1	U	ng/L	P368067	
		Cypermethrin	21	U	ng/L	P368067	
		DDD-p,p'	6.4	U	ng/L	P368067	
		DDE-p,p'	6.4	U	ng/L	P368067	
		DDT-p,p'	7.4	U	ng/L	P368067	
		Dicofol	32	U	ng/L	P368067	
		Dieldrin	4.2	U	ng/L	P368067	
		Endosulfan I	4.2	U	ng/L	P368067	
		Endosulfan II	4.2	U	ng/L	P368067	MS
		Endosulfan Sulfate	2.1	U	ng/L	P368067	
		Endrin	2.1	U	ng/L	P368067	
		Endrin Aldehyde	2.1	U	ng/L	P368067	
		Endrin Ketone	2.1	U	ng/L	P368067	
		Ethalfuralin**	3.2	U	ng/L	P368067	
		Gamma-Chlordane	1.1	U	ng/L	P368067	
		Heptachlor	1.6	U	ng/L	P368067	
		Heptachlor Epoxide	2.1	U	ng/L	P368067	
		Hexachlorobenzene	2.1	U	ng/L	P368067	
		Methoxychlor	4.2	U	ng/L	P368067	MS
		Mirex	2.1	U	ng/L	P368067	RPD
		Permethrin	11	U	ng/L	P368067	
		Trans-Nonachlor**	1.1	U	ng/L	P368067	
		Trifluralin	2.6	U	ng/L	P368067	
		Chlordane	5.3	U	ng/L	P368067	
		Toxaphene	32	U	ng/L	P368067	
2106923	EPA 8270E	Acetochlor	0.26	U	ng/L	P368257	
		Alachlor	0.26	U	ng/L	P368257	

Field ID: G4SEB064

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106923	EPA 8270E	Ametryn	0.62	U	ng/L	P368257	
		Atrazine	18		ng/L	P368257	
		Atrazine Desethyl	4.3	I	ng/L	P368257	
		Azinphos Methyl	5.1	U	ng/L	P368257	
		Bromacil	0.51	U	ng/L	P368257	
		Butylate	0.41	U	ng/L	P368257	RPD
		Chlorpyrifos Ethyl	0.26	U	ng/L	P368257	
		Chlorpyrifos Methyl	0.10	U	ng/L	P368257	
		Cyanazine	3.3	U	ng/L	P368257	
		Demeton	7.2	U	ng/L	P368257	
		Diazinon	0.13	U	ng/L	P368257	
		Dimethenamid**	0.10	U	ng/L	P368257	
		Disulfoton	0.51	U	ng/L	P368257	
		Dithiopyr**	0.10	U	ng/L	P368257	
		EPTC	1.3	I	ng/L	P368257	RPD
		Ethion	0.15	UJ	ng/L	P368257	LCS, RPD
		Ethoprop	0.10	U	ng/L	P368257	
		Fenamiphos	0.51	U	ng/L	P368257	
		Fipronil	0.80	I	ng/L	P368257	
		Fipronil Desulfinyl**	0.59		ng/L	P368257	
		Fipronil Sulfide	0.66		ng/L	P368257	
		Fipronil Sulfone	1.4		ng/L	P368257	
		Fonofos	0.21	U	ng/L	P368257	
		Hexazinone	6.4		ng/L	P368257	
		Malathion	0.36	U	ng/L	P368257	
		Metalaxyl	0.31	U	ng/L	P368257	
		Metolachlor	0.51	U	ng/L	P368257	
		Metribuzin	0.77	UJ	ng/L	P368257	RPD
		Mevinphos	0.51	U	ng/L	P368257	
		Molinate	0.31	U	ng/L	P368257	RPD
		Norflurazon	0.51	U	ng/L	P368257	
		Oxadiazon**	0.83		ng/L	P368257	
		Parathion Ethyl	0.26	U	ng/L	P368257	
		Parathion Methyl	0.57	U	ng/L	P368257	
		Pendimethalin	1.0	U	ng/L	P368257	
		Phorate	0.26	U	ng/L	P368257	
		Prodiamine**	0.18	UJ	ng/L	P368257	LCS, RPD
		Prometon	0.92	U	ng/L	P368257	
		Prometryn	0.21	U	ng/L	P368257	
		Simazine	0.51	U	ng/L	P368257	
		Tebuconazole**	0.65	IJ	ng/L	P368257	RPD
		Terbufos	0.10	U	ng/L	P368257	
		Terbutylazine	0.44	U	ng/L	P368257	
2106935	EPA 200.7 Rev. 4.4	Iron	130		ug/L	P368250	
		Manganese	15.3		ug/L	P368250	

Field ID: G4SEB064

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106935	EPA 200.7 Rev. 4.4	Zinc	5.0	U	ug/L	P368250	
	EPA 200.8 Rev. 5.4	Aluminum	13	I	ug/L	P368250	
		Antimony	0.26		ug/L	P368250	
		Arsenic	2.34		ug/L	P368250	
		Cadmium	0.020	U	ug/L	P368250	
		Chromium	0.40	U	ug/L	P368250	
		Copper	1.38		ug/L	P368250	
		Lead	0.37	I	ug/L	P368250	
		Nickel	0.50	U	ug/L	P368250	
		Selenium	0.20	U	ug/L	P368250	
		Silver	0.010	U	ug/L	P368250	
		Thallium	0.10	U	ug/L	P368250	

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: J - second source check standards for some analytes were not available for analysis. MS accuracy for acetaminophen and 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.

Sample Location: New River @ NW 27th

Collection Date/Time: 07/29/2019 14:45

Field ID: G4SE0085

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106820	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P368159	
	EPA 300.0	Bromide	4.0		mg Br/L	P368407	
	SM 2320 B-97	Total Alkalinity	203		mg CaCO3/L	P368719	
	SM 2540 D-97	TSS	4	IA	mg/L	P368356	
	SM 4500 F-C-97	Fluoride	0.22		mg F/L	P368828	
2106822	EPA 350.1 Rev. 2.0	Ammonia-N	0.19		mg N/L	P368747	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P368287	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.092		mg N/L	P368297	
	EPA 365.1 Rev. 2.0	Total-P	0.079		mg P/L	P368211	
	SM 5310 B-00	Organic Carbon	7.7		mg C/L	P368262	
2106824	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.050		mg P/L	P368217	
2106914	EPA 8321B	Aldicarb	0.020	U	ug/L	P367831	
		Aldicarb Sulfone	0.0020	U	ug/L	P367831	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P367831	
		Carbaryl	0.0020	U	ug/L	P367831	
		Carbofuran	0.0020	U	ug/L	P367831	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P367831	
		Methiocarb	0.0020	U	ug/L	P367831	
		Methomyl	0.0020	U	ug/L	P367831	MS, RPD
		Oxamyl	0.0020	U	ug/L	P367831	
		Propoxur	0.0020	U	ug/L	P367831	
		Acesulfame K**	1.0	U	ug/L	P368170	
		2,4-D	0.012		ug/L	P368092	MS
		AMPA**	1.0	U	ug/L	P368170	
		Sucralose**	0.094		ug/L	P368170	
2106916		Acetaminophen**	0.0080	U	ug/L	P368092	
		Endothall**	2.5	U	ug/L	P368170	
		Acetamiprid**	0.0020	U	ug/L	P368092	
		Glufosinate**	1.0	U	ug/L	P368170	
		Glyphosate**	1.0	U	ug/L	P368170	
		Afidopyropen**	0.0020	UJ	ug/L	P368092	
		Bentazon	0.041		ug/L	P368092	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P368092	
		Carbamazepine**	0.0012	I	ug/L	P368092	
		Clothianidin**	0.0029	I	ug/L	P368092	
		Dinotefuran**	0.018		ug/L	P368092	
		Diuron	0.015		ug/L	P368092	
		Fenuron	0.016	U	ug/L	P368092	
		Fluridone**	0.0083		ug/L	P368092	
		Imazapyr**	0.062		ug/L	P368092	
		Hydrocodone**	0.0020	U	ug/L	P368092	
		Ibuprofen**	0.020	U	ug/L	P368092	
		Imidacloprid	0.019		ug/L	P368092	MS

Field ID: G4SE0085

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106916	EPA 8321B	Linuron	0.0040	U	ug/L	P368092	
		Mandestrobin**	0.0020	UJ	ug/L	P368092	
		MCP	0.0037	IJ	ug/L	P368092	LCS, MS
		Naproxen**	0.0080	U	ug/L	P368092	MS
		Primidone**	0.0045	I	ug/L	P368092	
		Pyraclostrobin**	0.0020	U	ug/L	P368092	
		Thiamethoxam**	0.0020	U	ug/L	P368092	MS
		Tolfenpyrad**	0.0020	U	ug/L	P368092	
		Triclopyr**	0.0040	U	ug/L	P368092	
2106922	EPA 8270E	Aldrin	4.2	U	ng/L	P368067	
		Alpha-BHC	2.1	U	ng/L	P368067	MS
		Alpha-Chlordane	1.0	U	ng/L	P368067	
		Beta-BHC	10	UJ	ng/L	P368067	LCS, MS
		Bifenthrin**	4.2	U	ng/L	P368067	
		Delta-BHC	8.4	U	ng/L	P368067	
		Gamma-BHC	8.4	UJ	ng/L	P368067	LCS, MS
		Carbophenothion	10	U	ng/L	P368067	
		Chlorothalonil	2.1	U	ng/L	P368067	RPD
		Cis-Nonachlor**	1.0	U	ng/L	P368067	
		Cypermethrin	21	U	ng/L	P368067	
		DDD-p,p'	6.3	U	ng/L	P368067	
		DDE-p,p'	6.3	U	ng/L	P368067	
		DDT-p,p'	7.3	U	ng/L	P368067	
		Dicofol	31	U	ng/L	P368067	
		Dieldrin	4.2	U	ng/L	P368067	
		Endosulfan I	4.2	U	ng/L	P368067	
		Endosulfan II	4.2	U	ng/L	P368067	MS
		Endosulfan Sulfate	2.1	U	ng/L	P368067	
		Endrin	2.1	U	ng/L	P368067	
		Endrin Aldehyde	2.1	U	ng/L	P368067	
		Endrin Ketone	2.1	U	ng/L	P368067	
		Ethalfuralin**	3.1	U	ng/L	P368067	
		Gamma-Chlordane	1.0	U	ng/L	P368067	
		Heptachlor	1.6	U	ng/L	P368067	
		Heptachlor Epoxide	2.1	U	ng/L	P368067	
		Hexachlorobenzene	2.1	U	ng/L	P368067	
		Methoxychlor	4.2	U	ng/L	P368067	MS
		Mirex	2.1	U	ng/L	P368067	RPD
		Permethrin	10	U	ng/L	P368067	
		Trans-Nonachlor**	1.0	U	ng/L	P368067	
		Trifluralin	2.6	U	ng/L	P368067	
		Chlordane	5.2	U	ng/L	P368067	
		Toxaphene	31	U	ng/L	P368067	
2106924	EPA 8270E	Acetochlor	0.27	U	ng/L	P368257	
		Alachlor	0.27	U	ng/L	P368257	

Field ID: G4SE0085

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106924	EPA 8270E	Ametryn	0.64	U	ng/L	P368257	
		Atrazine	20		ng/L	P368257	
		Atrazine Desethyl	6.3	I	ng/L	P368257	
		Azinphos Methyl	5.3	U	ng/L	P368257	
		Bromacil	0.53	U	ng/L	P368257	
		Butylate	0.43	U	ng/L	P368257	RPD
		Chlorpyrifos Ethyl	0.27	U	ng/L	P368257	
		Chlorpyrifos Methyl	0.11	U	ng/L	P368257	
		Cyanazine	3.5	U	ng/L	P368257	
		Demeton	7.5	U	ng/L	P368257	
		Diazinon	0.13	U	ng/L	P368257	
		Dimethenamid**	0.11	U	ng/L	P368257	
		Disulfoton	0.53	U	ng/L	P368257	
		Dithiopyr**	0.11	U	ng/L	P368257	
		EPTC	1.5	I	ng/L	P368257	RPD
		Ethion	0.16	UJ	ng/L	P368257	LCS, RPD
		Ethoprop	0.11	U	ng/L	P368257	
		Fenamiphos	0.53	U	ng/L	P368257	
		Fipronil	0.92	I	ng/L	P368257	
		Fipronil Desulfinyl**	0.69		ng/L	P368257	
		Fipronil Sulfide	0.91		ng/L	P368257	
		Fipronil Sulfone	1.9		ng/L	P368257	
		Fonofos	0.21	U	ng/L	P368257	
		Hexazinone	6.0		ng/L	P368257	
		Malathion	0.37	U	ng/L	P368257	
		Metalaxyl	0.32	U	ng/L	P368257	
		Metolachlor	0.53	U	ng/L	P368257	
		Metribuzin	0.80	UJ	ng/L	P368257	RPD
		Mevinphos	0.53	U	ng/L	P368257	
		Molinate	0.32	U	ng/L	P368257	RPD
		Norflurazon	0.53	U	ng/L	P368257	
		Oxadiazon**	0.86		ng/L	P368257	
		Parathion Ethyl	0.27	U	ng/L	P368257	
		Parathion Methyl	0.59	U	ng/L	P368257	
		Pendimethalin	1.1	U	ng/L	P368257	
		Phorate	0.27	U	ng/L	P368257	
		Prodiamine**	0.19	UJ	ng/L	P368257	LCS, RPD
		Prometon	0.96	U	ng/L	P368257	
		Prometryn	0.21	U	ng/L	P368257	
		Simazine	0.53	U	ng/L	P368257	
		Tebuconazole**	0.53	UJ	ng/L	P368257	RPD
		Terbufos	0.11	U	ng/L	P368257	
		Terbutylazine	0.45	U	ng/L	P368257	
2106936	EPA 200.7 Rev. 4.4	Iron	200		ug/L	P368222	
		Manganese	15.5		ug/L	P368222	

Field ID: G4SE0085

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106936	EPA 200.7 Rev. 4.4	Zinc	5.0	U	ug/L	P368222	
	EPA 200.8 Rev. 5.4	Aluminum	20	U	ug/L	P368222	
		Antimony	0.27	I	ug/L	P368222	
		Arsenic	2.58		ug/L	P368222	
		Cadmium	0.080	U	ug/L	P368222	
		Chromium	4.0	U	ug/L	P368222	
		Copper	1.6	U	ug/L	P368222	
		Lead	0.80	U	ug/L	P368222	
		Nickel	2.0	U	ug/L	P368222	
		Selenium	2.0	U	ug/L	P368222	
		Silver	0.040	U	ug/L	P368222	
		Thallium	0.40	U	ug/L	P368222	

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. Surrogate spike recovery exceeding the control limits. Results confirmed in sample duplicate. MDL for some parameters elevated due to matrix interference.

EPA 8321B: J - second source check standards for some analytes were not available for analysis. MS accuracy for acetaminophen and 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 8270E: Refer to the narrative for an explanation of QC Codes.

EPA 200.8 Rev. 5.4: The sample required dilution due to matrix interference.

Sample Location: Cypress @ 441 Margate

Collection Date/Time: 07/29/2019 15:20

Field ID: G4SE0038

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106816	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P368159	
	EPA 300.0 Rev. 2.1	Chloride	39		mg Cl/L	P368401	
		Sulfate	14		mg SO4/L	P368403	
	SM 2120 B	Color (true)	29		PCU	P368172	
	SM 2320 B-97	Total Alkalinity	135		mg CaCO3/L	P368559	
	SM 2540 C-97	TDS	240		mg/L	P368578	
	SM 2540 D-97	TSS	2	I	mg/L	P368352	
	SM 4500 F-C-97	Fluoride	0.20		mg F/L	P368562	
2106817	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P368745	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P368290	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P368380	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P368213	
	SM 5310 B-00	Organic Carbon	8.7		mg C/L	P368262	
2106818	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P368216	

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: Cypress @ 441 Margate

Collection Date/Time: 07/29/2019 15:25

Field ID: FB_29072019

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2106846	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P368160	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P368428	
		Sulfate	0.20	U	mg SO4/L	P368430	
		Color (true)	2.5	U	PCU	P368173	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P368560	
	SM 2540 C-97	TDS	15	U	mg/L	P368579	
	SM 2540 D-97	TSS	2	U	mg/L	P368353	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P368563	
2106847	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P368748	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P368290	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P368206	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P368213	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P368263	
2106848	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P368218	

Ref. Method and Comment:

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

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P368159

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P368160

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P368222

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P368250

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 200.8 Rev. 5.4
Batch ID: P368222

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
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: P368250

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P368250

Component	Result	Code	Units
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 300.0
Batch ID: P368407

Component	Result	Code	Units
Bromide	0.013	U	mg Br/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368401

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368403

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368428

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368430

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368745

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368747

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368748

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368287

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368290

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368366

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368206

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368297

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368380

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368381

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P368211

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P368213

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368216

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368217

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368218

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

Reference Method: EPA 8270E
Batch ID: P368067

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	10	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	6.0	U	ng/L
DDE-p,p'	6.0	U	ng/L
DDT-p,p'	7.0	U	ng/L
Delta-BHC	8.0	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
Ethalfuralin	3.0	U	ng/L
Gamma-BHC	8.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P368067

Component	Result	Code	Units
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 8270E
Batch ID: P368257

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
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.30	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P368257

Component	Result	Code	Units
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P368067

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

Reference Method: EPA 8321B
Batch ID: P367831

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: EPA 8321B
Batch ID: P368092

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	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
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P368092

Component	Result	Code	Units
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P368170

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: SM 2120 B
Batch ID: P368172

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P368173

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P368559

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

Reference Method: SM 2320 B-97
Batch ID: P368560

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

Reference Method: SM 2320 B-97
Batch ID: P368719

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

Reference Method: SM 2540 C-97
Batch ID: P368578

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 C-97
Batch ID: P368579

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P368352

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P368353

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P368355

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P368356

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P368358

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P368562

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P368563

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P368722

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500 F-C-97
Batch ID: P368828

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P368262

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

Reference Method: SM 5310 B-00
Batch ID: P368263

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

Reference Method: SM 5310 B-00
Batch ID: P368264

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: P368222

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	104		P	85 - 115
Manganese	100		P	85 - 115
Zinc	98.4		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P368250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	99.3		P	85 - 115
Calcium	105		P	85 - 115
Iron	103		P	85 - 115
Magnesium	110		P	85 - 115
Manganese	100		P	85 - 115
Potassium	107		P	85 - 115
Sodium	107		P	85 - 115
Zinc	97.3		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P368222

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	99.5		P	85 - 115
Arsenic	101		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	97.5		P	85 - 115
Copper	97.7		P	85 - 115
Lead	102		P	85 - 115
Nickel	99.6		P	85 - 115
Selenium	96.0		P	85 - 115
Silver	103		P	85 - 115
Thallium	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P368250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	95.8		P	85 - 115
Arsenic	99.7		P	85 - 115
Boron	103		P	85 - 115
Cadmium	98.8		P	85 - 115
Chromium	94.4		P	85 - 115
Copper	97.1		P	85 - 115
Lead	94.5		P	85 - 115
Nickel	96.4		P	85 - 115
Selenium	100		P	85 - 115
Silver	96.3		P	85 - 115
Thallium	97.3		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0
Batch ID: P368407

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368401

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	96.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368403

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368428

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	96.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368430

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368745

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368747

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368748

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: P368287

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.6		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368290

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368366

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368206

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368297

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368380

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368381

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P368211

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P368213

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368216

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368217

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368218

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

Reference Method: EPA 8270E
Batch ID: P368067

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	38.4	44.0	P/P	20 - 93.0
Alpha-BHC	102	113	P/P	57 - 119
Alpha-Chlordane	78.0	86.7	P/P	58 - 112
Beta-BHC	116	150	P/F	56 - 149
Bifenthrin	59.5	67.2	P/P	30 - 134
Carbophenothion	70.7	64.3	P/P	26 - 147
Chlorothalonil	131	133	P/P	20 - 155
Cis-Nonachlor	77.2	86.8	P/P	54 - 115
Cypermethrin	69.6	74.5	P/P	40 - 137
DDD-p,p'	91.0	100	P/P	65 - 129
DDE-p,p'	74.8	82.6	P/P	57 - 116
DDT-p,p'	100	106	P/P	53 - 133
Delta-BHC	133	152	P/P	59 - 163
Dicofol	94.4	99.0	P/P	24 - 138
Dieldrin	90.3	97.5	P/P	60 - 120
Endosulfan I	93.4	98.0	P/P	64 - 118
Endosulfan II	103	124	P/P	58 - 142
Endosulfan Sulfate	84.2	100	P/P	60 - 127
Endrin	116	92.7	P/P	59 - 122
Endrin Aldehyde	98.1	113	P/P	49 - 132
Endrin Ketone	82.5	95.5	P/P	64 - 121
Ethalfuralin	85.7	86.0	P/P	60 - 126
Gamma-BHC	137	146	P/F	56 - 141
Gamma-Chlordane	73.2	81.9	P/P	56 - 110
Heptachlor	62.8	73.5	P/P	46 - 96.0
Heptachlor Epoxide	87.4	95.8	P/P	61 - 112
Hexachlorobenzene	68.5	75.9	P/P	44 - 98.0
Methoxychlor	125	130	P/P	63 - 134
Mirex	45.9	51.6	P/P	45 - 100
Permethrin	55.5	60.2	P/P	53 - 115
Trans-Nonachlor	70.7	78.8	P/P	47 - 110
Trifluralin	91.0	96.4	P/P	39 - 142

Reference Method: EPA 8270E
Batch ID: P368257

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	82.1	96.6	P/P	69 - 122
Alachlor	79.3	96.2	P/P	71 - 120
Ametryn	91.3	96.5	P/P	47 - 138

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P368257

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine	94.6	97.6	P/P	74 - 124
Atrazine Desethyl	73.6	67.2	P/P	38 - 138
Azinphos Methyl	102	112	P/P	69 - 154
Bromacil	84.4	77.1	P/P	39 - 121
Butylate	65.1	69.2	P/P	27 - 87.0
Chlorpyrifos Ethyl	84.3	97.6	P/P	69 - 118
Chlorpyrifos Methyl	90.4	94.7	P/P	70 - 120
Cyanazine	90.2	87.6	P/P	20 - 250
Demeton	83.0	67.5	P/P	39 - 118
Diazinon	95.0	94.9	P/P	68 - 127
Dimethenamid	84.0	93.9	P/P	66 - 125
Disulfoton	82.2	61.1	P/P	52 - 126
Dithiopyr	82.5	99.0	P/P	67 - 127
EPTC	60.9	73.0	P/P	24 - 88.0
Ethion	49.6	98.8	F/P	51 - 132
Ethoprop	93.2	81.4	P/P	58 - 117
Fenamiphos	78.1	83.9	P/P	38 - 139
Fipronil	82.8	90.1	P/P	61 - 124
Fipronil Desulfinyl	74.0	83.2	P/P	47 - 120
Fipronil Sulfide	82.2	84.8	P/P	56 - 119
Fipronil Sulfone	70.7	76.2	P/P	50 - 117
Fonofos	102	88.6	P/P	60 - 121
Hexazinone	84.4	102	P/P	55 - 137
Malathion	88.7	97.4	P/P	66 - 126
Metalaxyl	84.8	92.6	P/P	33 - 140
Metolachlor	79.0	96.5	P/P	69 - 119
Metribuzin	127	87.2	P/P	31 - 238
Mevinphos	94.2	82.0	P/P	42 - 113
Molinate	68.2	81.1	P/P	32 - 96.0
Norflurazon	80.1	89.6	P/P	54 - 123
Oxadiazon	79.9	96.4	P/P	63 - 128
Parathion Ethyl	86.5	91.1	P/P	72 - 111
Parathion Methyl	99.5	97.2	P/P	74 - 126
Pendimethalin	75.0	83.4	P/P	61 - 131
Phorate	84.1	69.9	P/P	51 - 115
Prodiamine	28.6	72.2	F/P	38 - 144
Prometon	72.5	89.4	P/P	54 - 119
Prometryn	79.4	89.4	P/P	63 - 120
Simazine	106	99.7	P/P	75 - 126
Tebuconazole	27.8	65.4	P/P	20 - 119
Terbufos	99.2	81.1	P/P	64 - 116
Terbutylazine	89.9	94.1	P/P	73 - 117

Reference Method: EPA 8276
Batch ID: P368067

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	77.6	81.0	P/P	43 - 128
Toxaphene	58.6	59.5	P/P	38 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P367831

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	104		P	40 - 160
Aldicarb	88.1		P	30 - 160
Aldicarb Sulfone	101		P	40 - 160
Aldicarb Sulfoxide	55.1		P	40 - 160
Carbaryl	89.1		P	40 - 160
Carbofuran	101		P	40 - 160
Methiocarb	81.2		P	40 - 160
Methomyl	103		P	40 - 160
Oxamyl	106		P	40 - 160
Propoxur	90.0		P	40 - 160

Reference Method: EPA 8321B
Batch ID: P368092

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	142		P	40 - 150
Acetaminophen	99.3		P	30 - 150
Acetamiprid	101		P	40 - 150
Afidopyropen	99.1		P	40 - 150
Bentazon	130		P	30 - 150
Benzovindiflupyr	98.3		P	40 - 150
Carbamazepine	102		P	40 - 150
Clothianidin	106		P	40 - 150
Dinotefuran	99.7		P	40 - 150
Diuron	106		P	40 - 150
Fenuron	111		P	40 - 150
Fluridone	105		P	40 - 150
Hydrocodone	105		P	40 - 150
Ibuprofen	100		P	30 - 150
Imazapyr	98.9		P	40 - 150
Imidacloprid	103		P	40 - 150
Linuron	70.1		P	40 - 150
Mandestrobin	102		P	40 - 150
MCPPP	151		F	40 - 150
Naproxen	119		P	40 - 150
Primidone	100		P	40 - 150
Pyraclostrobin	87.5		P	30 - 150
Thiamethoxam	107		P	40 - 150
Tolfenpyrad	53.7		P	40 - 150
Triclopyr	121		P	30 - 150

Reference Method: EPA 8321B
Batch ID: P368170

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	87.9		P	40 - 150
AMPA	83.4		P	40 - 150
Endothall	91.4		P	40 - 150
Glufosinate	70.1		P	40 - 150
Glyphosate	83.1		P	40 - 140
Sucralose	93.9		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2120 B
Batch ID: P368172

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

Reference Method: SM 2120 B
Batch ID: P368173

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

Reference Method: SM 2320 B-97
Batch ID: P368559

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

Reference Method: SM 2320 B-97
Batch ID: P368560

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

Reference Method: SM 2320 B-97
Batch ID: P368719

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	105		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P368562

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

Reference Method: SM 4500 F-C-97
Batch ID: P368563

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.9		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P368722

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.6		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P368828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.0		P	92 - 103

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P368262

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.8		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P368263

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

Reference Method: SM 5310 B-00
Batch ID: P368264

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P368222

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2105061	Iron	99.1		P	70 - 130
2105061	Manganese	93.9		P	70 - 130
2105061	Zinc	101		P	70 - 130
2106936	Iron	98.3	97.6	P/P	70 - 130
2106936	Manganese	93.9	94.0	P/P	70 - 130
2106936	Zinc	99.4	100	P/P	70 - 130

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P368250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106787	Barium	99.7	100	P/P	80 - 120
2106787	Calcium	104	104	P/P	80 - 120
2106787	Iron	103	103	P/P	80 - 120
2106787	Magnesium	108	108	P/P	80 - 120
2106787	Manganese	99.4	100	P/P	80 - 120
2106787	Potassium	107	106	P/P	80 - 120
2106787	Sodium	101	102	P/P	80 - 120
2106787	Zinc	97.8	98.6	P/P	80 - 120
2107130	Barium	96.4		P	80 - 120
2107130	Calcium	99.0		P	80 - 120
2107130	Iron	101		P	80 - 120
2107130	Magnesium	103		P	80 - 120
2107130	Manganese	97.4		P	80 - 120
2107130	Potassium	107		P	80 - 120
2107130	Sodium	107		P	80 - 120
2107130	Zinc	96.1		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P368222

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2105061	Aluminum	113		P	70 - 130
2105061	Antimony	107		P	70 - 130
2105061	Arsenic	117		P	70 - 130
2105061	Cadmium	102		P	70 - 130
2105061	Chromium	91.0		P	70 - 130
2105061	Copper	71.5		P	70 - 130
2105061	Lead	110		P	70 - 130
2105061	Nickel	107		P	70 - 130
2105061	Selenium	101		P	70 - 130
2105061	Silver	101		P	70 - 130
2105061	Thallium	109		P	70 - 130
2106936	Aluminum	98.7	92.0	P/P	70 - 130
2106936	Antimony	101	94.5	P/P	70 - 130
2106936	Arsenic	108	102	P/P	70 - 130
2106936	Cadmium	99.2	93.5	P/P	70 - 130
2106936	Chromium	91.1	86.3	P/P	70 - 130
2106936	Copper	98.7	94.3	P/P	70 - 130
2106936	Lead	101	94.1	P/P	70 - 130
2106936	Nickel	98.1	94.1	P/P	70 - 130
2106936	Selenium	103	101	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P368222

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106936	Silver	97.4	93.3	P/P	70 - 130
2106936	Thallium	100	94.3	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P368250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106787	Aluminum	99.3	99.1	P/P	80 - 120
2106787	Antimony	96.1	94.8	P/P	80 - 120
2106787	Arsenic	101	100	P/P	80 - 120
2106787	Boron	102	101	P/P	80 - 120
2106787	Cadmium	100	99.6	P/P	80 - 120
2106787	Chromium	95.3	93.9	P/P	80 - 120
2106787	Copper	97.3	96.7	P/P	80 - 120
2106787	Lead	96.0	95.7	P/P	80 - 120
2106787	Nickel	96.0	96.5	P/P	80 - 120
2106787	Selenium	100	99.8	P/P	80 - 120
2106787	Silver	95.6	95.1	P/P	80 - 120
2106787	Thallium	99.7	100	P/P	80 - 120
2107130	Aluminum	101		P	80 - 120
2107130	Antimony	96.8		P	80 - 120
2107130	Arsenic	101		P	80 - 120
2107130	Boron	106		P	80 - 120
2107130	Cadmium	101		P	80 - 120
2107130	Chromium	93.4		P	80 - 120
2107130	Copper	96.7		P	80 - 120
2107130	Lead	94.6		P	80 - 120
2107130	Nickel	93.9		P	80 - 120
2107130	Selenium	102		P	80 - 120
2107130	Silver	96.2		P	80 - 120
2107130	Thallium	98.8		P	80 - 120

Reference Method: EPA 300.0
Batch ID: P368407

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106858	Bromide	99.5	101	P/P	90 - 110
2106859	Bromide	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368401

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106563	Chloride	98.2		P	90 - 110
2106794	Chloride	99.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368403

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106563	Sulfate	103		P	90 - 110
2106794	Sulfate	101		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368428

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106956	Chloride	96.2		P	90 - 110
2107024	Chloride	98.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2107024	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368745

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106746	Ammonia-N	99.0	99.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106758	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368748

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106839	Ammonia-N	100	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368287

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106716	Kjeldahl Nitrogen	97.6	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368290

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106817	Kjeldahl Nitrogen	103	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368366

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106844	Kjeldahl Nitrogen	110	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368206

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106854	NO2NO3-N	98.5	97.5	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106758	NO2NO3-N	96.8	96.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368380

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106670	NO2NO3-N	98.0	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106826	NO2NO3-N	97.5	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P368211

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106758	Total-P	98.6	98.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P368213

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106840	Total-P	99.8	96.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368216

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106818	O-Phosphate-P	98.1	98.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368217

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106845	O-Phosphate-P	98.5	99.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368218

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106862	O-Phosphate-P	97.4	97.3	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P368067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106474	Aldrin	68.7	51.3	P/P	25 - 92.0
2106474	Alpha-BHC	147	129	F/P	49 - 130
2106474	Alpha-Chlordane	90.1	77.5	P/P	50 - 115
2106474	Beta-BHC	160	181	F/F	43 - 157

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P368067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106474	Bifenthrin	93.7	70.7	P/P	46 - 116
2106474	Carbophenothion	109	84.0	P/P	27 - 180
2106474	Chlorothalonil	117	70.5	P/P	10 - 216
2106474	Cis-Nonachlor	90.5	76.1	P/P	55 - 112
2106474	Cypermethrin	96.4	75.9	P/P	40 - 153
2106474	DDD-p,p'	104	96.7	P/P	53 - 128
2106474	DDE-p,p'	90.8	75.2	P/P	48 - 116
2106474	DDT-p,p'	126	107	P/P	47 - 128
2106474	Delta-BHC	193	181	P/P	51 - 196
2106474	Dicofol	101	109	P/P	10 - 147
2106474	Dieldrin	102	90.9	P/P	48 - 128
2106474	Endosulfan I	122	107	P/P	58 - 126
2106474	Endosulfan II	173	149	F/P	50 - 150
2106474	Endosulfan Sulfate	91.2	94.1	P/P	56 - 130
2106474	Endrin	122	110	P/P	50 - 126
2106474	Endrin Aldehyde	93.7	101	P/P	12 - 145
2106474	Endrin Ketone	94.7	96.3	P/P	59 - 132
2106474	Ethalfuralin	114	99.4	P/P	65 - 122
2106474	Gamma-BHC	152	174	P/F	50 - 155
2106474	Gamma-Chlordane	87.9	71.9	P/P	50 - 112
2106474	Heptachlor	79.0	62.0	P/P	41 - 98.0
2106474	Heptachlor Epoxide	95.9	88.4	P/P	55 - 117
2106474	Hexachlorobenzene	83.0	71.0	P/P	47 - 91.0
2106474	Methoxychlor	137	132	F/P	55 - 133
2106474	Mirex	70.6	50.8	P/P	44 - 101
2106474	Permethrin	78.5	59.4	P/P	52 - 124
2106474	Trans-Nonachlor	84.7	69.5	P/P	53 - 99.0
2106474	Trifluralin	109	93.7	P/P	10 - 201

Reference Method: EPA 8270E
Batch ID: P368257

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106786	Acetochlor	89.3	82.8	P/P	63 - 129
2106786	Alachlor	92.4	85.2	P/P	65 - 127
2106786	Ametryn	91.1	93.7	P/P	40 - 164
2106786	Atrazine	96.4	92.4	P/P	66 - 135
2106786	Atrazine Desethyl	64.2	80.2	P/P	14 - 157
2106786	Azinphos Methyl	91.8	89.8	P/P	49 - 180
2106786	Bromacil	67.1	78.9	P/P	48 - 130
2106786	Butylate	49.3	76.1	P/P	10 - 94.0
2106786	Chlorpyrifos Ethyl	87.5	93.0	P/P	58 - 123
2106786	Chlorpyrifos Methyl	89.9	101	P/P	58 - 125
2106786	Cyanazine	115	140	P/P	24 - 253
2106786	Demeton	71.1	89.6	P/P	25 - 149
2106786	Diazinon	89.6	97.0	P/P	59 - 144
2106786	Dimethenamid	86.9	74.8	P/P	46 - 139
2106786	Disulfoton	76.8	90.2	P/P	54 - 132
2106786	Dithiopyr	90.9	82.4	P/P	64 - 130
2106786	EPTC	48.2	75.4	P/P	10 - 92.0
2106786	Ethion	93.2	57.0	P/P	30 - 148
2106786	Ethoprop	81.1	102	P/P	50 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P368257

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106786	Fenamiphos	82.9	82.1	P/P	49 - 142
2106786	Fipronil	86.1	77.6	P/P	46 - 140
2106786	Fipronil Desulfinyl	78.4	70.2	P/P	30 - 121
2106786	Fipronil Sulfide	81.5	83.9	P/P	31 - 136
2106786	Fipronil Sulfone	79.6	73.5	P/P	16 - 136
2106786	Fonofos	84.8	108	P/P	55 - 129
2106786	Hexazinone	103	88.8	P/P	56 - 141
2106786	Malathion	89.0	95.5	P/P	56 - 135
2106786	Metalaxyl	88.8	83.4	P/P	54 - 135
2106786	Metolachlor	93.3	79.7	P/P	51 - 140
2106786	Metribuzin	120	246	P/P	45 - 254
2106786	Mevinphos	78.3	97.3	P/P	33 - 131
2106786	Molinate	66.8	95.0	P/P	14 - 98.0
2106786	Norflurazon	86.8	78.9	P/P	34 - 136
2106786	Oxadiazon	85.6	81.8	P/P	67 - 116
2106786	Parathion Ethyl	86.5	88.7	P/P	66 - 118
2106786	Parathion Methyl	90.9	101	P/P	64 - 136
2106786	Pendimethalin	89.8	88.0	P/P	59 - 144
2106786	Phorate	78.2	86.4	P/P	42 - 130
2106786	Prodiamine	66.1	49.6	P/P	42 - 148
2106786	Prometon	81.2	78.4	P/P	59 - 134
2106786	Prometryn	86.8	81.8	P/P	54 - 135
2106786	Simazine	91.6	103	P/P	53 - 156
2106786	Tebuconazole	58.7	28.6	P/P	10 - 131
2106786	Terbufos	85.7	105	P/P	57 - 131
2106786	Terbutylazine	86.7	89.8	P/P	68 - 125

Reference Method: EPA 8276
Batch ID: P368067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106785	Chlordane	69.5	57.8	P/P	34 - 136
2106785	Toxaphene	47.0	42.1	P/P	22 - 152

Reference Method: EPA 8321B
Batch ID: P367831

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106783	3-Hydroxycarbofuran	98.2	95.1	P/P	40 - 160
2106783	Aldicarb	66.4	75.9	P/P	30 - 160
2106783	Aldicarb Sulfone	85.5	90.3	P/P	40 - 160
2106783	Aldicarb Sulfoxide	44.6	41.9	P/P	40 - 160
2106783	Carbaryl	76.6	77.7	P/P	40 - 160
2106783	Carbofuran	87.3	82.7	P/P	40 - 160
2106783	Methiocarb	73.7	73.6	P/P	40 - 160
2106783	Methomyl	39.9	83.0	F/P	40 - 160
2106783	Oxamyl	67.8	90.1	P/P	40 - 160
2106783	Propoxur	80.9	75.3	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P368092

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106899	2,4-D	157	166	F/F	40 - 150
2106899	Acetamiprid	110	116	P/P	40 - 150
2106899	Afidopyropen	119	113	P/P	40 - 150
2106899	Bentazon	86.2	96.4	P/P	30 - 150
2106899	Benzovindiflupyr	105	100	P/P	40 - 150
2106899	Carbamazepine	98.7	99.8	P/P	40 - 150
2106899	Clothianidin	113	111	P/P	40 - 150
2106899	Dinotefuran	109	103	P/P	40 - 150
2106899	Diuron	89.1	87.8	P/P	40 - 150
2106899	Fenuron	97.8	95.7	P/P	40 - 150
2106899	Fluridone	100	96.2	P/P	40 - 150
2106899	Hydrocodone	110	109	P/P	40 - 150
2106899	Ibuprofen	90.6	92.1	P/P	30 - 150
2106899	Imidacloprid	177	172	F/F	40 - 150
2106899	Linuron	68.3	67.6	P/P	40 - 150
2106899	Mandestrobin	98.5	96.4	P/P	40 - 150
2106899	MCCP	169	171	F/F	40 - 150
2106899	Naproxen	152	104	F/P	40 - 150
2106899	Primidone	109	105	P/P	40 - 150
2106899	Pyraclostrobin	96.9	92.5	P/P	30 - 150
2106899	Thiamethoxam	153	147	F/P	40 - 150
2106899	Tolfenpyrad	67.6	66.4	P/P	40 - 150
2106899	Triclopyr	134	137	P/P	30 - 150

Reference Method: EPA 8321B
Batch ID: P368170

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106299	Acesulfame K	117	96.4	P/P	40 - 150
2106299	AMPA	45.2	44.3	P/P	40 - 150
2106299	Endothall	81.6	83.0	P/P	40 - 150
2106299	Glufosinate	65.8	54.0	P/P	40 - 150
2106299	Glyphosate	61.9	63.2	P/P	40 - 140
2106299	Sucralose	104	94.9	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P368562

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106837	Fluoride	98.1	97.4	P/P	89 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P368563

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2107125	Fluoride	96.8	96.3	P/P	89 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P368722

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2105216	Fluoride	97.6	97.6	P/P	89 - 106

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P368828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2108513	Fluoride	99.2	98.6	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P368262

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106624	Organic Carbon	98.2	94.0	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P368263

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106854	Organic Carbon	100	95.8	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P368264

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2106710	Organic Carbon	99.0	98.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P368159

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106800	Turbidity	4.75	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P368160

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106843	Turbidity	5.89	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P368222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106936	Iron	0.714	Spike	P	0 - 20
2106936	Manganese	0.122	Spike	P	0 - 20
2106936	Zinc	0.644	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P368250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106787	Barium	0.235	Spike	P	0 - 20
2106787	Calcium	0.241	Spike	P	0 - 20
2106787	Iron	0.178	Spike	P	0 - 20
2106787	Magnesium	0.315	Spike	P	0 - 20
2106787	Manganese	0.574	Spike	P	0 - 20
2106787	Potassium	0.786	Spike	P	0 - 20
2106787	Sodium	0.547	Spike	P	0 - 20
2106787	Zinc	0.796	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P368222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106936	Aluminum	7.02	Spike	P	0 - 20
2106936	Antimony	6.76	Spike	P	0 - 20
2106936	Arsenic	5.47	Spike	P	0 - 20
2106936	Cadmium	5.91	Spike	P	0 - 20
2106936	Chromium	5.31	Spike	P	0 - 20
2106936	Copper	4.59	Spike	P	0 - 20
2106936	Lead	6.75	Spike	P	0 - 20
2106936	Nickel	4.18	Spike	P	0 - 20
2106936	Selenium	1.97	Spike	P	0 - 20
2106936	Silver	4.29	Spike	P	0 - 20
2106936	Thallium	5.85	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P368250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106787	Aluminum	0.257	Spike	P	0 - 20
2106787	Antimony	1.38	Spike	P	0 - 20
2106787	Arsenic	0.771	Spike	P	0 - 20
2106787	Boron	0.695	Spike	P	0 - 20
2106787	Cadmium	0.439	Spike	P	0 - 20
2106787	Chromium	1.43	Spike	P	0 - 20
2106787	Copper	0.612	Spike	P	0 - 20
2106787	Lead	0.234	Spike	P	0 - 20
2106787	Nickel	0.494	Spike	P	0 - 20
2106787	Selenium	0.382	Spike	P	0 - 20
2106787	Silver	0.567	Spike	P	0 - 20
2106787	Thallium	0.434	Spike	P	0 - 20

Reference Method: EPA 300.0
Batch ID: P368407

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106858	Bromide	1.21	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368401

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106563	Chloride	0.162	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368403

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106563	Sulfate	0.380	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106956	Chloride	1.88	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P368430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106956	Sulfate	2.44	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368745

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106746	Ammonia-N	0.639	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106758	Ammonia-N	1.03	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P368748

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106839	Ammonia-N	0.376	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368287

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106716	Kjeldahl Nitrogen	4.74	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368290

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106817	Kjeldahl Nitrogen	2.13	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P368366

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106844	Kjeldahl Nitrogen	1.44	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368206

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106854	NO2NO3-N	0.565	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368297

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106758	NO2NO3-N	0.518	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368380

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106670	NO2NO3-N	0.267	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P368381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106826	NO2NO3-N	0.443	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P368211

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106758	Total-P	0.375	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P368213

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106840	Total-P	3.15	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368216

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106818	O-Phosphate-P	0.102	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106845	O-Phosphate-P	0.607	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368218

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106862	O-Phosphate-P	0.0748	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P368067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106474	Aldrin	28.9	Spike	P	0 - 30
2106474	Alpha-BHC	12.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P368067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106474	Alpha-Chlordane	15.0	Spike	P	0 - 30
2106474	Beta-BHC	12.4	Spike	P	0 - 30
2106474	Bifenthrin	27.9	Spike	P	0 - 30
2106474	Carbophenothion	26.1	Spike	P	0 - 30
2106474	Chlorothalonil	49.8	Spike	F	0 - 30
2106474	Cis-Nonachlor	17.3	Spike	P	0 - 30
2106474	Cypermethrin	23.8	Spike	P	0 - 30
2106474	DDD-p,p'	7.39	Spike	P	0 - 30
2106474	DDE-p,p'	18.8	Spike	P	0 - 30
2106474	DDT-p,p'	16.8	Spike	P	0 - 30
2106474	Delta-BHC	5.94	Spike	P	0 - 30
2106474	Dicofol	8.30	Spike	P	0 - 30
2106474	Dieldrin	11.6	Spike	P	0 - 30
2106474	Endosulfan I	13.2	Spike	P	0 - 30
2106474	Endosulfan II	14.8	Spike	P	0 - 30
2106474	Endosulfan Sulfate	3.21	Spike	P	0 - 30
2106474	Endrin	11.0	Spike	P	0 - 30
2106474	Endrin Aldehyde	7.40	Spike	P	0 - 30
2106474	Endrin Ketone	1.65	Spike	P	0 - 30
2106474	Ethalfuralin	14.1	Spike	P	0 - 30
2106474	Gamma-BHC	13.4	Spike	P	0 - 30
2106474	Gamma-Chlordane	20.0	Spike	P	0 - 30
2106474	Heptachlor	24.1	Spike	P	0 - 30
2106474	Heptachlor Epoxide	8.17	Spike	P	0 - 30
2106474	Hexachlorobenzene	15.6	Spike	P	0 - 30
2106474	Methoxychlor	3.58	Spike	P	0 - 30
2106474	Mirex	32.6	Spike	F	0 - 30
2106474	Permethrin	27.8	Spike	P	0 - 30
2106474	Trans-Nonachlor	19.6	Spike	P	0 - 30
2106474	Trifluralin	15.3	Spike	P	0 - 30
LFB	Aldrin	13.6	LCS	P	0 - 30
LFB	Alpha-BHC	10.1	LCS	P	0 - 30
LFB	Alpha-Chlordane	10.6	LCS	P	0 - 30
LFB	Beta-BHC	26.1	LCS	P	0 - 30
LFB	Bifenthrin	12.2	LCS	P	0 - 30
LFB	Carbophenothion	9.52	LCS	P	0 - 30
LFB	Chlorothalonil	1.13	LCS	P	0 - 30
LFB	Cis-Nonachlor	11.8	LCS	P	0 - 30
LFB	Cypermethrin	6.78	LCS	P	0 - 30
LFB	DDD-p,p'	9.44	LCS	P	0 - 30
LFB	DDE-p,p'	9.92	LCS	P	0 - 30
LFB	DDT-p,p'	5.82	LCS	P	0 - 30
LFB	Delta-BHC	13.7	LCS	P	0 - 30
LFB	Dicofol	4.82	LCS	P	0 - 30
LFB	Dieldrin	7.75	LCS	P	0 - 30
LFB	Endosulfan I	4.81	LCS	P	0 - 30
LFB	Endosulfan II	18.5	LCS	P	0 - 30
LFB	Endosulfan Sulfate	17.3	LCS	P	0 - 30
LFB	Endrin	22.5	LCS	P	0 - 30
LFB	Endrin Aldehyde	13.8	LCS	P	0 - 30
LFB	Endrin Ketone	14.5	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P368067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Ethalfuralin	0.329	LCS	P	0 - 30
LFB	Gamma-BHC	5.95	LCS	P	0 - 30
LFB	Gamma-Chlordane	11.2	LCS	P	0 - 30
LFB	Heptachlor	15.7	LCS	P	0 - 30
LFB	Heptachlor Epoxide	9.20	LCS	P	0 - 30
LFB	Hexachlorobenzene	10.4	LCS	P	0 - 30
LFB	Methoxychlor	3.65	LCS	P	0 - 30
LFB	Mirex	11.9	LCS	P	0 - 30
LFB	Permethrin	8.08	LCS	P	0 - 30
LFB	Trans-Nonachlor	10.8	LCS	P	0 - 30
LFB	Trifluralin	5.81	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P368257

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106786	Acetochlor	7.63	Spike	P	0 - 30
2106786	Alachlor	8.09	Spike	P	0 - 30
2106786	Ametryn	2.76	Spike	P	0 - 30
2106786	Atrazine	4.16	Spike	P	0 - 30
2106786	Atrazine Desethyl	22.2	Spike	P	0 - 30
2106786	Azinphos Methyl	2.18	Spike	P	0 - 30
2106786	Bromacil	16.3	Spike	P	0 - 30
2106786	Butylate	42.7	Spike	F	0 - 30
2106786	Chlorpyrifos Ethyl	6.12	Spike	P	0 - 30
2106786	Chlorpyrifos Methyl	11.7	Spike	P	0 - 30
2106786	Cyanazine	19.5	Spike	P	0 - 30
2106786	Demeton	23.0	Spike	P	0 - 30
2106786	Diazinon	7.94	Spike	P	0 - 30
2106786	Dimethenamid	15.0	Spike	P	0 - 30
2106786	Disulfoton	16.1	Spike	P	0 - 30
2106786	Dithiopyr	9.76	Spike	P	0 - 30
2106786	EPTC	44.0	Spike	F	0 - 30
2106786	Ethion	48.2	Spike	F	0 - 30
2106786	Ethoprop	22.6	Spike	P	0 - 30
2106786	Fenamiphos	1.01	Spike	P	0 - 30
2106786	Fipronil	10.4	Spike	P	0 - 30
2106786	Fipronil Desulfinyl	11.0	Spike	P	0 - 30
2106786	Fipronil Sulfide	2.87	Spike	P	0 - 30
2106786	Fipronil Sulfone	8.02	Spike	P	0 - 30
2106786	Fonofos	23.7	Spike	P	0 - 30
2106786	Hexazinone	13.3	Spike	P	0 - 30
2106786	Malathion	6.99	Spike	P	0 - 30
2106786	Metalaxyl	6.19	Spike	P	0 - 30
2106786	Metolachlor	7.47	Spike	P	0 - 30
2106786	Metribuzin	69.0	Spike	F	0 - 30
2106786	Mevinphos	21.6	Spike	P	0 - 30
2106786	Molinate	34.9	Spike	F	0 - 30
2106786	Norflurazon	9.55	Spike	P	0 - 30
2106786	Oxadiazon	4.56	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P368257

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106786	Parathion Ethyl	2.46	Spike	P	0 - 30
2106786	Parathion Methyl	10.4	Spike	P	0 - 30
2106786	Pendimethalin	1.98	Spike	P	0 - 30
2106786	Phorate	10.0	Spike	P	0 - 30
2106786	Prodiamine	28.5	Spike	P	0 - 30
2106786	Prometon	3.58	Spike	P	0 - 30
2106786	Prometryn	5.95	Spike	P	0 - 30
2106786	Simazine	11.5	Spike	P	0 - 30
2106786	Tebuconazole	68.8	Spike	F	0 - 30
2106786	Terbufos	20.4	Spike	P	0 - 30
2106786	Terbuthylazine	3.52	Spike	P	0 - 30
LFB	Acetochlor	16.3	LCS	P	0 - 30
LFB	Alachlor	19.2	LCS	P	0 - 30
LFB	Ametryn	5.61	LCS	P	0 - 30
LFB	Atrazine	3.12	LCS	P	0 - 30
LFB	Atrazine Desethyl	9.05	LCS	P	0 - 30
LFB	Azinphos Methyl	8.94	LCS	P	0 - 30
LFB	Bromacil	8.94	LCS	P	0 - 30
LFB	Butylate	6.13	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	14.6	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	4.63	LCS	P	0 - 30
LFB	Cyanazine	2.90	LCS	P	0 - 30
LFB	Demeton	20.6	LCS	P	0 - 30
LFB	Diazinon	0.126	LCS	P	0 - 30
LFB	Dimethenamid	11.1	LCS	P	0 - 30
LFB	Disulfoton	29.5	LCS	P	0 - 30
LFB	Dithiopyr	18.1	LCS	P	0 - 30
LFB	EPTC	18.2	LCS	P	0 - 30
LFB	Ethion	66.3	LCS	F	0 - 30
LFB	Ethoprop	13.5	LCS	P	0 - 30
LFB	Fenamiphos	7.26	LCS	P	0 - 30
LFB	Fipronil	8.45	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	11.6	LCS	P	0 - 30
LFB	Fipronil Sulfide	3.13	LCS	P	0 - 30
LFB	Fipronil Sulfone	7.37	LCS	P	0 - 30
LFB	Fonofos	14.1	LCS	P	0 - 30
LFB	Hexazinone	18.6	LCS	P	0 - 30
LFB	Malathion	9.39	LCS	P	0 - 30
LFB	Metaxyl	8.72	LCS	P	0 - 30
LFB	Metolachlor	20.0	LCS	P	0 - 30
LFB	Metribuzin	37.3	LCS	F	0 - 30
LFB	Mevinphos	13.9	LCS	P	0 - 30
LFB	Molinate	17.2	LCS	P	0 - 30
LFB	Norflurazon	11.1	LCS	P	0 - 30
LFB	Oxadiazon	18.7	LCS	P	0 - 30
LFB	Parathion Ethyl	5.17	LCS	P	0 - 30
LFB	Parathion Methyl	2.32	LCS	P	0 - 30
LFB	Pendimethalin	10.6	LCS	P	0 - 30
LFB	Phorate	18.5	LCS	P	0 - 30
LFB	Prodiamine	86.6	LCS	F	0 - 30
LFB	Prometon	20.9	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P368257

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Prometryn	11.9	LCS	P	0 - 30
LFB	Simazine	5.94	LCS	P	0 - 30
LFB	Tebuconazole	80.6	LCS	F	0 - 30
LFB	Terbufos	20.0	LCS	P	0 - 30
LFB	Terbutylazine	4.67	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P368067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106785	Chlordane	18.3	Spike	P	0 - 30
2106785	Toxaphene	11.0	Spike	P	0 - 30
LFB	Chlordane	4.35	LCS	P	0 - 30
LFB	Toxaphene	1.51	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P367831

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106783	3-Hydroxycarbofuran	3.27	Spike	P	0 - 30
2106783	Aldicarb	13.4	Spike	P	0 - 30
2106783	Aldicarb Sulfone	5.37	Spike	P	0 - 30
2106783	Aldicarb Sulfoxide	6.25	Spike	P	0 - 30
2106783	Carbaryl	1.34	Spike	P	0 - 30
2106783	Carbofuran	5.42	Spike	P	0 - 30
2106783	Methiocarb	0.105	Spike	P	0 - 30
2106783	Methomyl	70.1	Spike	F	0 - 30
2106783	Oxamyl	28.2	Spike	P	0 - 30
2106783	Propoxur	7.23	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P368092

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106899	2,4-D	4.29	Spike	P	0 - 30
2106899	Acetaminophen	3.93	Spike	P	0 - 30
2106899	Acetamiprid	5.14	Spike	P	0 - 30
2106899	Afidopyropen	5.70	Spike	P	0 - 30
2106899	Bentazon	9.68	Spike	P	0 - 30
2106899	Benzovindiflupyr	4.33	Spike	P	0 - 30
2106899	Carbamazepine	1.09	Spike	P	0 - 30
2106899	Clothianidin	1.69	Spike	P	0 - 30
2106899	Dinotefuran	5.37	Spike	P	0 - 30
2106899	Diuron	1.17	Spike	P	0 - 30
2106899	Fenuron	2.12	Spike	P	0 - 30
2106899	Fluridone	2.74	Spike	P	0 - 30
2106899	Hydrocodone	0.561	Spike	P	0 - 30
2106899	Ibuprofen	1.43	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P368092

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106899	Imazapyr	0.286	Spike	P	0 - 30
2106899	Imidacloprid	2.78	Spike	P	0 - 30
2106899	Linuron	0.969	Spike	P	0 - 30
2106899	Mandestrobin	2.19	Spike	P	0 - 30
2106899	MCP	0.649	Spike	P	0 - 30
2106899	Naproxen	26.9	Spike	P	0 - 30
2106899	Primidone	4.14	Spike	P	0 - 30
2106899	Pyraclostrobin	4.59	Spike	P	0 - 30
2106899	Thiamethoxam	3.76	Spike	P	0 - 30
2106899	Tolfenpyrad	1.79	Spike	P	0 - 30
2106899	Triclopyr	1.84	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P368170

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106299	Acesulfame K	19.1	Spike	P	0 - 30
2106299	AMPA	1.29	Spike	P	0 - 30
2106299	Endothall	1.76	Spike	P	0 - 30
2106299	Glufosinate	19.6	Spike	P	0 - 30
2106299	Glyphosate	1.36	Spike	P	0 - 30
2106299	Sucralose	9.13	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P368172

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106794	Color (true)	1.12	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P368173

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106832	Color (true)	2.36	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P368559

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106837	Total Alkalinity	0.515	Sample	P	0 - 2.8

Reference Method: SM 2320 B-97
Batch ID: P368560

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107125	Total Alkalinity	0.400	Sample	P	0 - 2.8

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P368719

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106700	Total Alkalinity	0.294	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
Batch ID: P368578

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106794	TDS	1.83	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P368579

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106828	TDS	0.315	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P368562

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106837	Fluoride	0.473	Spike	P	0 - 2.5

Reference Method: SM 4500 F-C-97
Batch ID: P368563

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2107125	Fluoride	0.482	Spike	P	0 - 2.5

Reference Method: SM 4500 F-C-97
Batch ID: P368722

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2105216	Fluoride	0.0	Spike	P	0 - 2.5

Reference Method: SM 4500 F-C-97
Batch ID: P368828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2108513	Fluoride	0.477	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P368262

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106624	Organic Carbon	3.81	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 5310 B-00
Batch ID: P368263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106854	Organic Carbon	3.39	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P368264

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2106710	Organic Carbon	0.905	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: 2106913
Field Sample ID: G4SEB064

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	65.5	P	30 - 160

Lab Sample ID: 2106914
Field Sample ID: G4SE0085

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	75.3	P	30 - 160

Lab Sample ID: 2106915
Field Sample ID: G4SEB064

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	156	P	30 - 160
EPA 8321B	Acetaminophen-d4	97.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.2	P	30 - 160
EPA 8321B	Diuron-d6	86.5	P	30 - 160
EPA 8321B	Endothall-d6	304	F	30 - 160
EPA 8321B	Endothall-d6	304	F	30 - 160
EPA 8321B	Glyphosate 13C 15N	55.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	55.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	85.1	P	30 - 160
EPA 8321B	Primidone-d5	97.3	P	30 - 160
EPA 8321B	Sucralose-d6	136	P	30 - 160
EPA 8321B	Sucralose-d6	136	P	30 - 160

Lab Sample ID: 2106916
Field Sample ID: G4SE0085

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	141	P	30 - 160
EPA 8321B	Acetaminophen-d4	94.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	92.1	P	30 - 160
EPA 8321B	Diuron-d6	88.2	P	30 - 160
EPA 8321B	Endothall-d6	119	P	30 - 160
EPA 8321B	Endothall-d6	119	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	70.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	70.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	82.9	P	30 - 160
EPA 8321B	Primidone-d5	89.0	P	30 - 160
EPA 8321B	Sucralose-d6	133	P	30 - 160
EPA 8321B	Sucralose-d6	133	P	30 - 160

Lab Sample ID: 2106917
Field Sample ID: G4SE0114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	62.8	P	30 - 160

Lab Sample ID: 2106918
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
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Quality Assurance Report Surrogates

Lab Sample ID: 2106918
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	67.1	P	30 - 160

Lab Sample ID: 2106919
Field Sample ID: G4SE0114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	149	P	30 - 160
EPA 8321B	Acetaminophen-d4	72.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	83.0	P	30 - 160
EPA 8321B	Diuron-d6	81.6	P	30 - 160
EPA 8321B	Endothall-d6	98.7	P	30 - 160
EPA 8321B	Endothall-d6	98.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	65.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	65.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	84.3	P	30 - 160
EPA 8321B	Primidone-d5	79.0	P	30 - 160
EPA 8321B	Sucralose-d6	68.0	P	30 - 160
EPA 8321B	Sucralose-d6	68.0	P	30 - 160

Lab Sample ID: 2106921
Field Sample ID: G4SEB064

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	68.5	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	50.8	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	49.4	P	30 - 103
EPA 8276	PCNB	92.9	P	37 - 143

Lab Sample ID: 2106922
Field Sample ID: G4SE0085

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	73.3	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	52.0	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	57.0	P	30 - 103
EPA 8276	PCNB	89.2	P	37 - 143

Lab Sample ID: 2106923
Field Sample ID: G4SEB064

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	96.3	P	68 - 130
EPA 8270E	Terbufos-d10	97.8	P	61 - 136

Lab Sample ID: 2106924
Field Sample ID: G4SE0085

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	109	P	68 - 130
EPA 8270E	Terbufos-d10	112	P	61 - 136

Quality Assurance Report Surrogates

Lab Sample ID: 2106925
Field Sample ID: G4SE0114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	67.0	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	50.8	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	48.9	P	30 - 103
EPA 8276	PCNB	80.9	P	37 - 143

Lab Sample ID: 2106926
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	63.1	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	47.3	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	44.9	P	30 - 103
EPA 8276	PCNB	78.7	P	37 - 143

Lab Sample ID: 2106927
Field Sample ID: G4SE0114

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	101	P	68 - 130
EPA 8270E	Terbufos-d10	112	P	61 - 136

Lab Sample ID: 2106928
Field Sample ID: G4SENNR3

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	107	P	68 - 130
EPA 8270E	Terbufos-d10	112	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A93137

Included Lab Sample IDs: 2106816, 2106819, 2106820, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106843, 2106846

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

Reference Method: SM 2120 B

Run ID: A93142

Included Lab Sample IDs: 2106816, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106846

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A93147

Included Lab Sample IDs: 2106816, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106846

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.1	96.1	P/P	90 - 110
Chloride	97.6	99.6	P/P	90 - 110
Chloride	98.0	97.6	P/P	90 - 110
Sulfate	101	101	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A93160

Included Lab Sample IDs: 2106847

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A93165

Included Lab Sample IDs: 2106818, 2106823, 2106824, 2106827, 2106830, 2106835, 2106836, 2106841, 2106842, 2106845, 2106848

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	100	P/P	90 - 110
O-Phosphate-P	100	101	P/P	90 - 110
O-Phosphate-P	101	99.7	P/P	90 - 110
O-Phosphate-P	98.9	97.9	P/P	90 - 110
O-Phosphate-P	99.7	99.2	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A93180

Included Lab Sample IDs: 2106817, 2106821, 2106822, 2106826, 2106829, 2106833, 2106834, 2106839, 2106840, 2106844, 2106847

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	97.1	P/P	90 - 110
Organic Carbon	97.1	97.8	P/P	90 - 110
Organic Carbon	97.1	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A93190

Included Lab Sample IDs: 2106817, 2106821, 2106822, 2106826, 2106829, 2106833, 2106834, 2106839, 2106840, 2106844, 2106847

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	99.2	P/P	90 - 110
Total-P	99.2	97.8	P/P	90 - 110
Total-P	99.8	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A93194

Included Lab Sample IDs: 2106821, 2106822, 2106844

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A93211

Included Lab Sample IDs: 2106936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	100	99.8	P/P	90 - 110
Manganese	102	102	P/P	90 - 110
Zinc	99.8	99.2	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A93226

Included Lab Sample IDs: 2106915, 2106916, 2106919

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	69.7	66.5	P/P	60 - 160
Acesulfame K	78.8	64.1	P/P	60 - 160
Endothall	100	99.7	P/P	60 - 160
Endothall	95.6	109	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A93229

Included Lab Sample IDs: 2106915, 2106916, 2106919

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	61.0	66.7	P/P	60 - 160
AMPA	86.4	83.1	P/P	60 - 160
Glufosinate	69.0	71.2	P/P	60 - 160
Glufosinate	84.8	84.8	P/P	60 - 160
Glyphosate	71.0	74.7	P/P	60 - 160
Glyphosate	89.8	89.7	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A93231

Included Lab Sample IDs: 2106817, 2106826, 2106829, 2106833, 2106834, 2106839, 2106840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	100	P/P	90 - 110
NO2NO3-N	99.5	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0

Run ID: A93239

Included Lab Sample IDs: 2106819, 2106820, 2106843

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A93244

Included Lab Sample IDs: 2106821, 2106822

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A93246

Included Lab Sample IDs: 2106935, 2106937, 2106938

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	101	101	P/P	90 - 110
Calcium	99.9	99.8	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Magnesium	102	101	P/P	90 - 110
Manganese	103	103	P/P	90 - 110
Potassium	102	101	P/P	90 - 110
Sodium	103	102	P/P	90 - 110
Zinc	101	102	P/P	90 - 110
Zinc	102	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A93259

Included Lab Sample IDs: 2106817, 2106826, 2106829, 2106833, 2106834, 2106839, 2106840, 2106847

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.9	100	P/P	90 - 110
Kjeldahl Nitrogen	98.2	96.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A93264

Included Lab Sample IDs: 2106915, 2106916, 2106919

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	101	98.1	P/P	50 - 150
Acetaminophen	108	115	P/P	60 - 160
Acetamiprid	102	107	P/P	50 - 150
Afidopyropen	105	114	P/P	50 - 150
Bentazon	115	108	P/P	50 - 160
Benzovindiflupyr	110	109	P/P	50 - 150
Carbamazepine	107	109	P/P	60 - 150
Clothianidin	108	111	P/P	60 - 150
Dinotefuran	97.5	108	P/P	50 - 150
Diuron	112	114	P/P	60 - 150
Fenuron	108	107	P/P	60 - 150
Fluridone	114	114	P/P	60 - 160
Hydrocodone	102	107	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A93264

Included Lab Sample IDs: 2106915, 2106916, 2106919

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ibuprofen	108	94.2	P/P	50 - 160
Imazapyr	89.0	87.0	P/P	50 - 150
Imidacloprid	94.7	100	P/P	60 - 150
Linuron	105	107	P/P	60 - 150
Mandestrobin	110	112	P/P	50 - 150
MCPP	88.8	89.5	P/P	50 - 150
Naproxen	98.4	106	P/P	50 - 160
Primidone	99.6	104	P/P	60 - 150
Pyraclostrobin	109	112	P/P	60 - 150
Thiamethoxam	107	109	P/P	50 - 150
Tolfenpyrad	102	106	P/P	60 - 150
Triclopyr	88.8	101	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A93275

Included Lab Sample IDs: 2106844

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.7	97.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A93286

Included Lab Sample IDs: 2106921, 2106922, 2106925, 2106926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	90.3		P	80 - 120
Alpha-BHC	93.1		P	80 - 120
Alpha-Chlordane	91.1		P	80 - 120
Beta-BHC	99.9		P	80 - 120
Bifenthrin	89.4		P	80 - 120
Carbophenothion	92.5		P	80 - 120
Chlorothalonil	100		P	80 - 120
Cis-Nonachlor	90.3		P	80 - 120
Cypermethrin	95.8		P	80 - 120
DDD-p,p'	92.4		P	80 - 120
DDE-p,p'	90.9		P	80 - 120
DDT-p,p'	99.1		P	80 - 120
Delta-BHC	100		P	80 - 120
Dicofol	96.6		P	80 - 120
Dieldrin	96.8		P	80 - 120
Endosulfan I	92.1		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	101		P	80 - 120
Endrin	93.0		P	80 - 120
Endrin Aldehyde	88.3		P	80 - 120
Endrin Ketone	94.6		P	80 - 120
Ethalfuralin	94.6		P	80 - 120
Gamma-BHC	94.2		P	80 - 120
Gamma-Chlordane	90.6		P	80 - 120
Heptachlor	90.3		P	80 - 120
Heptachlor Epoxide	90.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A93286

Included Lab Sample IDs: 2106921, 2106922, 2106925, 2106926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexachlorobenzene	97.4		P	80 - 120
Methoxychlor	99.0		P	80 - 120
Mirex	95.6		P	80 - 120
Permethrin	85.5		P	80 - 120
Trans-Nonachlor	91.5		P	80 - 120
Trifluralin	94.7		P	80 - 120

Reference Method: EPA 8321B

Run ID: A93291

Included Lab Sample IDs: 2106913, 2106914, 2106917, 2106918

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	117	114	P/P	60 - 150
Aldicarb	91.1	105	P/P	60 - 150
Aldicarb Sulfone	107	104	P/P	50 - 150
Aldicarb Sulfoxide	102	98.0	P/P	50 - 150
Carbaryl	109	102	P/P	60 - 150
Carbofuran	111	114	P/P	50 - 150
Methiocarb	103	106	P/P	50 - 150
Methomyl	104	107	P/P	50 - 150
Oxamyl	105	107	P/P	50 - 150
Propoxur	105	106	P/P	50 - 150

Reference Method: SM 2320 B-97

Run ID: A93315

Included Lab Sample IDs: 2106816, 2106819, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106846

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	104	P/P	90 - 110
Total Alkalinity	104	101	P/P	90 - 110
Total Alkalinity	104	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A93315

Included Lab Sample IDs: 2106816, 2106819, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106846

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.5	98.6	P/P	90 - 110
Fluoride	98.5	99.5	P/P	90 - 110
Fluoride	98.6	98.5	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A93327

Included Lab Sample IDs: 2106921

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	94.8		P	80 - 120
Toxaphene	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A93329

Included Lab Sample IDs: 2106922, 2106925, 2106926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.0		P	80 - 120
Toxaphene	87.8		P	80 - 120

Reference Method: SM 2320 B-97

Run ID: A93367

Included Lab Sample IDs: 2106820, 2106843

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	105	P/P	90 - 110
Total Alkalinity	105	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A93367

Included Lab Sample IDs: 2106843

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.6	98.1	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A93374

Included Lab Sample IDs: 2106817, 2106821, 2106822, 2106826, 2106829, 2106833, 2106834, 2106839, 2106840, 2106844, 2106847

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	103	104	P/P	90 - 110
Ammonia-N	103	104	P/P	90 - 110
Ammonia-N	103	103	P/P	90 - 110
Ammonia-N	104	104	P/P	90 - 110
Ammonia-N	105	105	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A93385

Included Lab Sample IDs: 2106935, 2106937, 2106938

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	103	P/P	90 - 110
Antimony	94.0	92.9	P/P	90 - 110
Arsenic	99.3	99.4	P/P	90 - 110
Boron	101	104	P/P	90 - 110
Cadmium	99.4	98.3	P/P	90 - 110
Chromium	95.3	94.3	P/P	90 - 110
Lead	96.2	96.5	P/P	90 - 110
Nickel	97.4	96.3	P/P	90 - 110
Selenium	99.9	100	P/P	90 - 110
Silver	94.3	94.4	P/P	90 - 110
Thallium	93.8	93.2	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A93413

Included Lab Sample IDs: 2106820

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

Reference Method: SM 4500 F-C-97

Run ID: A93413

Included Lab Sample IDs: 2106820

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	98.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A93447

Included Lab Sample IDs: 2106915, 2106916, 2106919

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	91.1	89.7	P/P	60 - 160

Reference Method: EPA 8270E

Run ID: A93499

Included Lab Sample IDs: 2106923, 2106924, 2106927, 2106928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	104		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	99.1		P	80 - 120
Atrazine Desethyl	93.1		P	80 - 120
Azinphos Methyl	99.0		P	80 - 120
Bromacil	98.0		P	80 - 120
Butylate	102		P	80 - 120
Chlorpyrifos Ethyl	97.0		P	80 - 120
Chlorpyrifos Methyl	97.8		P	80 - 120
Cyanazine	88.8		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	103		P	80 - 120
Dimethenamid	103		P	80 - 120
Disulfoton	92.8		P	80 - 120
Dithiopyr	105		P	80 - 120
EPTC	99.5		P	80 - 120
Ethion	96.2		P	80 - 120
Ethoprop	97.2		P	80 - 120
Fenamiphos	96.4		P	80 - 120
Fipronil	102		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	98.6		P	80 - 120
Fipronil Sulfone	97.2		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	101		P	80 - 120
Malathion	94.1		P	80 - 120
Metalaxyl	105		P	80 - 120
Metolachlor	107		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	99.0		P	80 - 120
Molinate	112		P	80 - 120
Norflurazon	99.7		P	80 - 120
Oxadiazon	106		P	80 - 120
Parathion Ethyl	98.1		P	80 - 120
Parathion Methyl	95.5		P	80 - 120
Pendimethalin	99.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A93499

Included Lab Sample IDs: 2106923, 2106924, 2106927, 2106928

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Phorate	95.2		P	80 - 120
Prodiamine	100		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	104		P	80 - 120
Simazine	98.3		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	97.7		P	80 - 120
Terbutylazine	98.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A93596

Included Lab Sample IDs: 2106936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	103	103	P/P	90 - 110
Antimony	97.7	97.3	P/P	90 - 110
Arsenic	101	101	P/P	90 - 110
Cadmium	100	99.2	P/P	90 - 110
Chromium	94.5	94.3	P/P	90 - 110
Copper	100	99.9	P/P	90 - 110
Lead	101	101	P/P	90 - 110
Nickel	100	99.0	P/P	90 - 110
Silver	105	104	P/P	90 - 110
Thallium	96.2	96.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A93660

Included Lab Sample IDs: 2106936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Selenium	97.3	98.1	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A93703

Included Lab Sample IDs: 2106935, 2106937, 2106938

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	98.6	98.7	P/P	90 - 110
Lead	103	103	P/P	90 - 110
Thallium	98.2	97.5	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
EPA 180.1 Rev. 2.0	Turbidity					4.75	
	Turbidity					5.89	
EPA 200.7 Rev. 4.4	Barium	99.3	99.7	100	96.4		0.235
	Calcium	105	104	104	99.0		0.241
	Iron	104	99.1	98.3	97.6		0.714
	Iron	103	103	103	101		0.178
	Magnesium	110	108	108	103		0.315
	Manganese	100	93.9	93.9	94.0		0.122
	Manganese	100	99.4	100	97.4		0.574
	Potassium	107	107	106	107		0.786
	Sodium	107	101	102	107		0.547
	Zinc	98.4	101	99.4	100		0.644
	Zinc	97.3	97.8	98.6	96.1		0.796
EPA 200.8 Rev. 5.4	Aluminum	100	113	98.7	92.0		7.02
	Aluminum	100	99.3	99.1	101		0.257
	Antimony	99.5	107	101	94.5		6.76
	Antimony	95.8	96.1	94.8	96.8		1.38
	Arsenic	101	117	108	102		5.47
	Arsenic	99.7	101	100	101		0.771
	Boron	103	102	101	106		0.695
	Cadmium	101	102	99.2	93.5		5.91
	Cadmium	98.8	100	99.6	101		0.439
	Chromium	97.5	91.0	91.1	86.3		5.31
	Chromium	94.4	95.3	93.9	93.4		1.43
	Copper	97.7	71.5	98.7	94.3		4.59
	Copper	97.1	97.3	96.7	96.7		0.612
	Lead	102	110	101	94.1		6.75
	Lead	94.5	96.0	95.7	94.6		0.234
	Nickel	99.6	107	98.1	94.1		4.18
	Nickel	96.4	96.0	96.5	93.9		0.494
	Selenium	96.0	101	103	101		1.97
	Selenium	100	100	99.8	102		0.382
	Silver	103	101	97.4	93.3		4.29
	Silver	96.3	95.6	95.1	96.2		0.567
	Thallium	102	109	100	94.3		5.85
	Thallium	97.3	99.7	100	98.8		0.434
EPA 300.0	Bromide	100	99.5	101	100		1.21
EPA 300.0 Rev. 2.1	Chloride	96.6	98.2	99.0		0.162	
	Chloride	96.0	96.2	98.1		1.88	
	Sulfate	101	103	101		0.380	
	Sulfate	99.2	102			2.44	
EPA 350.1 Rev. 2.0	Ammonia-N	99.8	99.0	99.8			0.639
	Ammonia-N	101	101	102			1.03
	Ammonia-N	102	100	101			0.376
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.6	97.6	103			4.74
	Kjeldahl Nitrogen	94.0	103	99.0			2.13
	Kjeldahl Nitrogen	101	110	108			1.44
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	98.5	97.5			0.565
	NO2NO3-N	100	96.8	96.3			0.518
	NO2NO3-N	99.0	98.0	98.5			0.267
	NO2NO3-N	99.5	97.5	97.0			0.443
EPA 365.1 Rev. 2.0	Total-P	98.6	98.6	98.9			0.375
	Total-P	100	99.8	96.6			3.15
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3	98.1	98.2			0.102

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	105		98.5	99.1			0.607
	O-Phosphate-P	100		97.4	97.3			0.0748
EPA 8270E	Acetochlor	82.1	96.6	89.3	82.8	16.3		7.63
	Alachlor	79.3	96.2	92.4	85.2	19.2		8.09
	Aldrin	38.4	44.0	68.7	51.3	13.6		28.9
	Alpha-BHC	102	113	147	129	10.1		12.9
	Alpha-Chlordane	78.0	86.7	90.1	77.5	10.6		15.0
	Ametryn	91.3	96.5	91.1	93.7	5.61		2.76
	Atrazine	94.6	97.6	96.4	92.4	3.12		4.16
	Atrazine Desethyl	73.6	67.2	64.2	80.2	9.05		22.2
	Azinphos Methyl	102	112	91.8	89.8	8.94		2.18
	Beta-BHC	116	150	160	181	26.1		12.4
	Bifenthrin	59.5	67.2	93.7	70.7	12.2		27.9
	Bromacil	84.4	77.1	67.1	78.9	8.94		16.3
	Butylate	65.1	69.2	49.3	76.1	6.13		42.7
	Carbophenothion	70.7	64.3	109	84.0	9.52		26.1
	Chlorothalonil	131	133	117	70.5	1.13		49.8
	Chlorpyrifos Ethyl	84.3	97.6	87.5	93.0	14.6		6.12
	Chlorpyrifos Methyl	90.4	94.7	89.9	101	4.63		11.7
	Cis-Nonachlor	77.2	86.8	90.5	76.1	11.8		17.3
	Cyanazine	90.2	87.6	115	140	2.90		19.5
	Cypermethrin	69.6	74.5	96.4	75.9	6.78		23.8
	DDD-p,p'	91.0	100	104	96.7	9.44		7.39
	DDE-p,p'	74.8	82.6	90.8	75.2	9.92		18.8
	DDT-p,p'	100	106	126	107	5.82		16.8
	Delta-BHC	133	152	193	181	13.7		5.94
	Demeton	83.0	67.5	71.1	89.6	20.6		23.0
	Diazinon	95.0	94.9	89.6	97.0	0.126		7.94
	Dicofol	94.4	99.0	101	109	4.82		8.30
	Dieldrin	90.3	97.5	102	90.9	7.75		11.6
	Dimethenamid	84.0	93.9	86.9	74.8	11.1		15.0
	Disulfoton	82.2	61.1	76.8	90.2	29.5		16.1
	Dithiopyr	82.5	99.0	90.9	82.4	18.1		9.76
	Endosulfan I	93.4	98.0	122	107	4.81		13.2
	Endosulfan II	103	124	173	149	18.5		14.8
	Endosulfan Sulfate	84.2	100	91.2	94.1	17.3		3.21
	Endrin	116	92.7	122	110	22.5		11.0
	Endrin Aldehyde	98.1	113	93.7	101	13.8		7.40
	Endrin Ketone	82.5	95.5	94.7	96.3	14.5		1.65
	EPTC	60.9	73.0	48.2	75.4	18.2		44.0
	Ethalfuralin	85.7	86.0	114	99.4	0.329		14.1
	Ethion	49.6	98.8	93.2	57.0	66.3		48.2
	Ethoprop	93.2	81.4	81.1	102	13.5		22.6
	Fenamiphos	78.1	83.9	82.9	82.1	7.26		1.01
	Fipronil	82.8	90.1	86.1	77.6	8.45		10.4
	Fipronil Desulfinyl	74.0	83.2	78.4	70.2	11.6		11.0
	Fipronil Sulfide	82.2	84.8	81.5	83.9	3.13		2.87
	Fipronil Sulfone	70.7	76.2	79.6	73.5	7.37		8.02
	Fonofos	102	88.6	84.8	108	14.1		23.7
	Gamma-BHC	137	146	152	174	5.95		13.4
	Gamma-Chlordane	73.2	81.9	87.9	71.9	11.2		20.0
	Heptachlor	62.8	73.5	79.0	62.0	15.7		24.1
	Heptachlor Epoxide	87.4	95.8	95.9	88.4	9.20		8.17
	Hexachlorobenzene	68.5	75.9	83.0	71.0	10.4		15.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Hexazinone	84.4	102	103	88.8	18.6	13.3
	Malathion	88.7	97.4	89.0	95.5	9.39	6.99
	Metalaxyl	84.8	92.6	88.8	83.4	8.72	6.19
	Methoxychlor	125	130	137	132	3.65	3.58
	Metolachlor	79.0	96.5	93.3	79.7	20.0	7.47
	Metribuzin	127	87.2	120	246	37.3	69.0
	Mevinphos	94.2	82.0	78.3	97.3	13.9	21.6
	Mirex	45.9	51.6	70.6	50.8	11.9	32.6
	Molinate	68.2	81.1	66.8	95.0	17.2	34.9
	Norflurazon	80.1	89.6	86.8	78.9	11.1	9.55
	Oxadiazon	79.9	96.4	85.6	81.8	18.7	4.56
	Parathion Ethyl	86.5	91.1	86.5	88.7	5.17	2.46
	Parathion Methyl	99.5	97.2	90.9	101	2.32	10.4
	Pendimethalin	75.0	83.4	89.8	88.0	10.6	1.98
	Permethrin	55.5	60.2	78.5	59.4	8.08	27.8
	Phorate	84.1	69.9	78.2	86.4	18.5	10.0
	Prodiamine	28.6	72.2	66.1	49.6	86.6	28.5
	Prometon	72.5	89.4	81.2	78.4	20.9	3.58
	Prometryn	79.4	89.4	86.8	81.8	11.9	5.95
	Simazine	106	99.7	91.6	103	5.94	11.5
	Tebuconazole	27.8	65.4	58.7	28.6	80.6	68.8
	Terbufos	99.2	81.1	85.7	105	20.0	20.4
	Terbutylazine	89.9	94.1	86.7	89.8	4.67	3.52
	Trans-Nonachlor	70.7	78.8	84.7	69.5	10.8	19.6
	Trifluralin	91.0	96.4	109	93.7	5.81	15.3
EPA 8276	Chlordane	77.6	81.0	69.5	57.8	4.35	18.3
	Toxaphene	58.6	59.5	47.0	42.1	1.51	11.0
EPA 8321B	2,4-D	142		157	166		4.29
	3-Hydroxycarbofuran	104		98.2	95.1		3.27
	Acesulfame K	87.9		117	96.4		19.1
	Acetaminophen	99.3					3.93
	Acetamiprid	101		110	116		5.14
	Afidopyropen	99.1		119	113		5.70
	Aldicarb	88.1		66.4	75.9		13.4
	Aldicarb Sulfone	101		85.5	90.3		5.37
	Aldicarb Sulfoxide	55.1		44.6	41.9		6.25
	AMPA	83.4		45.2	44.3		1.29
	Bentazon	130		86.2	96.4		9.68
	Benzovindiflupyr	98.3		105	100		4.33
	Carbamazepine	102		98.7	99.8		1.09
	Carbaryl	89.1		76.6	77.7		1.34
	Carbofuran	101		87.3	82.7		5.42
	Clothianidin	106		113	111		1.69
	Dinotefuran	99.7		109	103		5.37
	Diuron	106		89.1	87.8		1.17
	Endothall	91.4		81.6	83.0		1.76
	Fenuron	111		97.8	95.7		2.12
	Fluridone	105		100	96.2		2.74
	Glufosinate	70.1		65.8	54.0		19.6
	Glyphosate	83.1		61.9	63.2		1.36
	Hydrocodone	105		110	109		0.561
	Ibuprofen	100		90.6	92.1		1.43
	Imazapyr	98.9					0.286
	Imidacloprid	103		177	172		2.78

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Linuron	70.1	68.3	67.6		0.969
	Mandestrobin	102	98.5	96.4		2.19
	MCPP	151	171	169		0.649
	Methiocarb	81.2	73.7	73.6		0.105
	Methomyl	103	39.9	83.0		70.1
	Naproxen	119	152	104		26.9
	Oxamyl	106	67.8	90.1		28.2
	Primidone	100	109	105		4.14
	Propoxur	90.0	80.9	75.3		7.23
	Pyraclostrobin	87.5	96.9	92.5		4.59
	Sucralose	93.9	104	94.9		9.13
	Thiamethoxam	107	153	147		3.76
	Tolfenpyrad	53.7	67.6	66.4		1.79
	Triclopyr	121	134	137		1.84
SM 2120 B	Color (true)	101			1.12	
	Color (true)	103			2.36	
SM 2320 B-97	Total Alkalinity	104			0.515	
	Total Alkalinity	104			0.400	
	Total Alkalinity	105			0.294	
SM 2540 C-97	TDS				1.83	
	TDS				0.315	
SM 4500 F-C-97	Fluoride	96.4	98.1	97.4		0.473
	Fluoride	95.9	96.8	96.3		0.482
	Fluoride	95.6	97.6	97.6		0.0
	Fluoride	97.0	99.2	98.6		0.477
SM 5310 B-00	Organic Carbon	97.8	98.2	94.0		3.81
	Organic Carbon	95.6	100	95.8		3.39
	Organic Carbon	96.2	99.0	98.0		0.905

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2106816, 2106819, 2106820, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106843, 2106846
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2106935, 2106936, 2106937, 2106938
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2106935, 2106936, 2106937, 2106938
EPA 300.0 / E31780	Bromide in aqueous matrices	2106819, 2106820, 2106843
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2106816, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106846
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2106816, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106846
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2106817, 2106821, 2106822, 2106826, 2106829, 2106833, 2106834, 2106839, 2106840, 2106844, 2106847
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2106817, 2106821, 2106822, 2106826, 2106829, 2106833, 2106834, 2106839, 2106840, 2106844, 2106847
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2106817, 2106821, 2106822, 2106826, 2106829, 2106833, 2106834, 2106839, 2106840, 2106844, 2106847
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2106817, 2106821, 2106822, 2106826, 2106829, 2106833, 2106834, 2106839, 2106840, 2106844, 2106847

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2106818, 2106823, 2106824, 2106827, 2106830, 2106835, 2106836, 2106841, 2106842, 2106845, 2106848
EPA 8270E / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2106921, 2106922, 2106925, 2106926
EPA 8270E / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2106923, 2106924, 2106927, 2106928
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2106921, 2106922, 2106925, 2106926
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2106913, 2106914, 2106917, 2106918
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2106915, 2106916, 2106919
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2106915, 2106916, 2106919
SM 2120 B / E31780	True Color measured at 450 nm	2106816, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106846
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2106816, 2106819, 2106820, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106843, 2106846
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2106816, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106846
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2106816, 2106819, 2106820, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106843, 2106846
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2106816, 2106819, 2106820, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106843, 2106846
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2106817, 2106821, 2106822, 2106826, 2106829, 2106833, 2106834, 2106839, 2106840, 2106844, 2106847

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	07/30/2019			07/30/2019 17:05	Adrian Shelby	2106816, 2106819, 2106820, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106843, 2106846
EPA 200.7 Rev. 4.4	07/30/2019	07/31/2019 15:35	Elliott D. Healy	08/01/2019 20:38	Betina Topolski	2106936
	07/30/2019	07/31/2019 18:00	Elliott D. Healy	08/02/2019 14:58	Betina Topolski	2106935
	07/30/2019	07/31/2019 18:00	Elliott D. Healy	08/02/2019 15:34	Betina Topolski	2106937
	07/30/2019	07/31/2019 18:00	Elliott D. Healy	08/02/2019 15:41	Betina Topolski	2106938
EPA 200.8 Rev. 5.4	07/30/2019	07/31/2019 15:35	Elliott D. Healy	08/16/2019 20:53	Martin Acosta	2106936
	07/30/2019	07/31/2019 15:35	Elliott D. Healy	08/17/2019 03:05	Martin Acosta	2106936
	07/30/2019	07/31/2019 15:35	Elliott D. Healy	08/21/2019 00:39	Martin Acosta	2106936
	07/30/2019	07/31/2019 18:00	Elliott D. Healy	08/09/2019 01:26	Robert K Palmer	2106935
	07/30/2019	07/31/2019 18:00	Elliott D. Healy	08/09/2019 01:36	Robert K Palmer	2106937
	07/30/2019	07/31/2019 18:00	Elliott D. Healy	08/09/2019 01:45	Robert K Palmer	2106938
	07/30/2019	07/31/2019 18:00	Elliott D. Healy	08/21/2019 20:46	Martin Acosta	2106935
	07/30/2019	07/31/2019 18:00	Elliott D. Healy	08/21/2019 20:56	Martin Acosta	2106937
	07/30/2019	07/31/2019 18:00	Elliott D. Healy	08/21/2019 21:05	Martin Acosta	2106938
	07/30/2019					
EPA 300.0	07/30/2019			08/02/2019 05:34	Jhamieka S. Greenwood	2106819
	07/30/2019			08/02/2019 05:52	Jhamieka S. Greenwood	2106820
	07/30/2019			08/02/2019 06:09	Jhamieka S. Greenwood	2106843
EPA 300.0 Rev. 2.1	07/30/2019			07/31/2019 21:53	Jhamieka S. Greenwood	2106816
	07/30/2019			07/31/2019 22:05	Jhamieka S. Greenwood	2106825
	07/30/2019			07/31/2019 22:17	Jhamieka S. Greenwood	2106828
	07/30/2019			07/31/2019 22:29	Jhamieka S. Greenwood	2106831
	07/30/2019			07/31/2019 22:41	Jhamieka S. Greenwood	2106832
	07/30/2019			07/31/2019 23:18	Jhamieka S. Greenwood	2106837
	07/30/2019			07/31/2019 23:30	Jhamieka S. Greenwood	2106838
	07/30/2019			08/02/2019 11:58	Jhamieka S. Greenwood	2106846
	07/30/2019					
EPA 350.1 Rev. 2.0	07/30/2019			08/08/2019 11:37	Ping Hua	2106817
	07/30/2019			08/08/2019 11:38	Ping Hua	2106826
	07/30/2019			08/08/2019 12:26	Ping Hua	2106821
	07/30/2019			08/08/2019 12:28	Ping Hua	2106822
	07/30/2019			08/08/2019 12:29	Ping Hua	2106844
	07/30/2019			08/08/2019 12:49	Ping Hua	2106840
	07/30/2019			08/08/2019 12:53	Ping Hua	2106829
	07/30/2019			08/08/2019 13:05	Ping Hua	2106847
	07/30/2019			08/08/2019 14:46	Ping Hua	2106833
	07/30/2019			08/08/2019 14:48	Ping Hua	2106834
	07/30/2019			08/08/2019 14:49	Ping Hua	2106839
	07/30/2019					
EPA 351.2 Rev. 2.0	07/30/2019	08/01/2019 11:45	Adrian Shelby	08/02/2019 16:17	Joseph Suarez	2106821
	07/30/2019	08/01/2019 11:45	Adrian Shelby	08/02/2019 16:19	Joseph Suarez	2106822

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 351.2 Rev. 2.0	07/30/2019	08/01/2019 18:00	Adrian Shelby	08/05/2019 11:01	Joseph Suarez	2106817
	07/30/2019	08/01/2019 18:00	Adrian Shelby	08/05/2019 11:05	Joseph Suarez	2106826
	07/30/2019	08/01/2019 18:00	Adrian Shelby	08/05/2019 11:07	Joseph Suarez	2106829
	07/30/2019	08/01/2019 18:00	Adrian Shelby	08/05/2019 11:08	Joseph Suarez	2106833
	07/30/2019	08/01/2019 18:00	Adrian Shelby	08/05/2019 11:10	Joseph Suarez	2106834
	07/30/2019	08/01/2019 18:00	Adrian Shelby	08/05/2019 11:11	Joseph Suarez	2106839
	07/30/2019	08/01/2019 18:00	Adrian Shelby	08/05/2019 11:12	Joseph Suarez	2106840
	07/30/2019	08/01/2019 18:00	Adrian Shelby	08/05/2019 11:16	Joseph Suarez	2106847
	07/30/2019	08/02/2019 12:30	Adrian Shelby	08/05/2019 14:07	Joseph Suarez	2106844
	07/30/2019			07/31/2019 10:23	Beverly Y. Sanders	2106847
EPA 353.2 Rev. 2.0	07/30/2019			08/01/2019 09:42	Beverly Y. Sanders	2106821
	07/30/2019			08/01/2019 09:43	Beverly Y. Sanders	2106822
	07/30/2019			08/01/2019 09:44	Beverly Y. Sanders	2106844
	07/30/2019			08/02/2019 10:42	Beverly Y. Sanders	2106817
	07/30/2019			08/02/2019 10:49	Beverly Y. Sanders	2106826
	07/30/2019			08/02/2019 10:55	Beverly Y. Sanders	2106829
	07/30/2019			08/02/2019 10:56	Beverly Y. Sanders	2106833
	07/30/2019			08/02/2019 10:57	Beverly Y. Sanders	2106834
	07/30/2019			08/02/2019 10:58	Beverly Y. Sanders	2106839
	07/30/2019			08/02/2019 10:59	Beverly Y. Sanders	2106840
EPA 365.1 Rev. 2.0	07/30/2019	07/31/2019 12:24	Vijayalakshmi Reddy	08/01/2019 11:59	Lipi Saha	2106821
	07/30/2019	07/31/2019 12:24	Vijayalakshmi Reddy	08/01/2019 12:00	Lipi Saha	2106822
	07/30/2019	07/31/2019 12:24	Vijayalakshmi Reddy	08/01/2019 12:01	Lipi Saha	2106844
	07/30/2019	07/31/2019 12:24	Vijayalakshmi Reddy	08/01/2019 12:22	Lipi Saha	2106840
	07/30/2019	07/31/2019 12:24	Vijayalakshmi Reddy	08/01/2019 12:23	Lipi Saha	2106817
	07/30/2019	07/31/2019 12:24	Vijayalakshmi Reddy	08/01/2019 12:30	Lipi Saha	2106826
	07/30/2019	07/31/2019 12:24	Vijayalakshmi Reddy	08/01/2019 12:31	Lipi Saha	2106829
	07/30/2019	07/31/2019 12:24	Vijayalakshmi Reddy	08/01/2019 12:32	Lipi Saha	2106833
	07/30/2019	07/31/2019 12:24	Vijayalakshmi Reddy	08/01/2019 12:33	Lipi Saha	2106834
	07/30/2019	07/31/2019 12:24	Vijayalakshmi Reddy	08/01/2019 12:34	Lipi Saha	2106839
EPA 365.1 Rev. 2.0 dissolved	07/30/2019	07/31/2019 12:24	Vijayalakshmi Reddy	08/01/2019 12:35	Lipi Saha	2106847
	07/30/2019			07/30/2019 16:33	Jhamieka S. Greenwood	2106818
	07/30/2019			07/30/2019 16:38	Jhamieka S. Greenwood	2106845
	07/30/2019			07/30/2019 17:18	Jhamieka S. Greenwood	2106830
	07/30/2019			07/30/2019 17:23	Jhamieka S. Greenwood	2106835
	07/30/2019			07/30/2019 17:24	Jhamieka S. Greenwood	2106836, 2106841
	07/30/2019			07/30/2019 17:27	Jhamieka S. Greenwood	2106823
	07/30/2019			07/30/2019 17:30	Jhamieka S. Greenwood	2106824
	07/30/2019			07/30/2019 17:36	Jhamieka S. Greenwood	2106848
	07/30/2019			07/30/2019 17:42	Jhamieka S. Greenwood	2106842

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 dissolved	07/30/2019			07/30/2019 18:07	Jhamieka S. Greenwood	2106827
EPA 8270E	07/30/2019	07/31/2019 09:00	Fe-Val Siddell	08/04/2019 23:52	Vandana T. Nagar	2106921
	07/30/2019	07/31/2019 09:00	Fe-Val Siddell	08/05/2019 00:24	Vandana T. Nagar	2106922
	07/30/2019	07/31/2019 09:00	Fe-Val Siddell	08/05/2019 00:55	Vandana T. Nagar	2106925
	07/30/2019	07/31/2019 09:00	Fe-Val Siddell	08/05/2019 01:27	Vandana T. Nagar	2106926
	07/30/2019	08/02/2019 12:30	Fe-Val Siddell	08/05/2019 18:52	Vandana T. Nagar	2106923
	07/30/2019	08/02/2019 12:30	Fe-Val Siddell	08/05/2019 19:18	Vandana T. Nagar	2106924
	07/30/2019	08/02/2019 12:30	Fe-Val Siddell	08/05/2019 19:44	Vandana T. Nagar	2106927
	07/30/2019	08/02/2019 12:30	Fe-Val Siddell	08/05/2019 20:09	Vandana T. Nagar	2106928
EPA 8276	07/30/2019	07/31/2019 09:00	Fe-Val Siddell	08/06/2019 06:03	Luis Flores	2106921
	07/30/2019	07/31/2019 09:00	Fe-Val Siddell	08/06/2019 19:58	Luis Flores	2106922
	07/30/2019	07/31/2019 09:00	Fe-Val Siddell	08/06/2019 20:54	Luis Flores	2106925
	07/30/2019	07/31/2019 09:00	Fe-Val Siddell	08/06/2019 21:49	Luis Flores	2106926
EPA 8321B	07/30/2019	07/31/2019 10:15	Rebecca Ware	07/31/2019 16:18	Rebecca Ware	2106915
	07/30/2019	07/31/2019 10:15	Rebecca Ware	07/31/2019 16:46	Rebecca Ware	2106919
	07/30/2019	07/31/2019 10:15	Rebecca Ware	07/31/2019 19:32	Rebecca Ware	2106916
	07/30/2019	07/31/2019 10:15	Rebecca Ware	08/01/2019 11:33	Rebecca Ware	2106919
	07/30/2019	07/31/2019 10:15	Rebecca Ware	08/01/2019 13:36	Rebecca Ware	2106915
	07/30/2019	07/31/2019 10:15	Rebecca Ware	08/01/2019 13:47	Rebecca Ware	2106916
	07/30/2019	07/31/2019 10:15	Rebecca Ware	08/12/2019 15:29	Rebecca Ware	2106915
	07/30/2019	07/31/2019 10:15	Rebecca Ware	08/12/2019 15:41	Rebecca Ware	2106916
	07/30/2019	07/31/2019 10:15	Rebecca Ware	08/12/2019 15:53	Rebecca Ware	2106919
	07/30/2019	08/01/2019 10:00	Hoor Shaik	08/02/2019 08:59	Juyoung Kim	2106915
	07/30/2019	08/01/2019 10:00	Hoor Shaik	08/02/2019 09:34	Juyoung Kim	2106916
	07/30/2019	08/01/2019 10:00	Hoor Shaik	08/02/2019 10:09	Juyoung Kim	2106919
	07/30/2019	08/05/2019 10:00	Hoor Shaik	08/05/2019 20:04	Juyoung Kim	2106913
	07/30/2019	08/05/2019 10:00	Hoor Shaik	08/05/2019 20:38	Juyoung Kim	2106914
	07/30/2019	08/05/2019 10:00	Hoor Shaik	08/05/2019 21:13	Juyoung Kim	2106917
	07/30/2019	08/05/2019 10:00	Hoor Shaik	08/05/2019 21:48	Juyoung Kim	2106918
SM 2120 B	07/30/2019			07/30/2019 17:43	Madeline Funaro	2106816
	07/30/2019			07/30/2019 17:46	Madeline Funaro	2106825
	07/30/2019			07/30/2019 17:47	Madeline Funaro	2106828
	07/30/2019			07/30/2019 17:48	Madeline Funaro	2106831
	07/30/2019			07/30/2019 17:49	Madeline Funaro	2106832
	07/30/2019			07/30/2019 17:50	Madeline Funaro	2106837
	07/30/2019			07/30/2019 17:51	Madeline Funaro	2106838
	07/30/2019			07/30/2019 17:52	Madeline Funaro	2106846
SM 2320 B-97	07/30/2019			08/05/2019 23:28	Dale L. Simmons	2106837
	07/30/2019			08/06/2019 02:58	Dale L. Simmons	2106816
	07/30/2019			08/06/2019 03:12	Dale L. Simmons	2106825

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-97	07/30/2019			08/06/2019 03:24	Dale L. Simmons	2106828
	07/30/2019			08/06/2019 03:38	Dale L. Simmons	2106831
	07/30/2019			08/06/2019 03:52	Dale L. Simmons	2106832
	07/30/2019			08/06/2019 04:06	Dale L. Simmons	2106819
	07/30/2019			08/06/2019 06:40	Dale L. Simmons	2106838
	07/30/2019			08/06/2019 06:55	Dale L. Simmons	2106846
	07/30/2019			08/06/2019 19:51	Dale L. Simmons	2106820
	07/30/2019			08/06/2019 23:29	Dale L. Simmons	2106843
	07/30/2019			07/31/2019 17:30	Blanca Fach	2106816, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106846
SM 2540 C-97						
SM 2540 D-97	07/30/2019			07/31/2019 16:50	Blanca Fach	2106816, 2106819, 2106820, 2106825, 2106828, 2106831, 2106832, 2106837, 2106838, 2106843, 2106846
SM 4500 F-C-97	07/30/2019			08/05/2019 23:17	Dale L. Simmons	2106837
	07/30/2019			08/06/2019 02:58	Dale L. Simmons	2106816
	07/30/2019			08/06/2019 03:12	Dale L. Simmons	2106825
	07/30/2019			08/06/2019 03:24	Dale L. Simmons	2106828
	07/30/2019			08/06/2019 03:38	Dale L. Simmons	2106831
	07/30/2019			08/06/2019 03:52	Dale L. Simmons	2106832
	07/30/2019			08/06/2019 04:06	Dale L. Simmons	2106819
	07/30/2019			08/06/2019 06:40	Dale L. Simmons	2106838
	07/30/2019			08/06/2019 06:55	Dale L. Simmons	2106846
	07/30/2019			08/06/2019 19:03	Dale L. Simmons	2106843
	07/30/2019			08/10/2019 03:21	Dale L. Simmons	2106820
SM 5310 B-00	07/30/2019			07/31/2019 18:26	Lauren Lees	2106817
	07/30/2019			07/31/2019 18:40	Lauren Lees	2106821
	07/30/2019			07/31/2019 18:54	Lauren Lees	2106822
	07/30/2019			07/31/2019 19:09	Lauren Lees	2106826
	07/30/2019			07/31/2019 19:25	Lauren Lees	2106829
	07/30/2019			07/31/2019 19:39	Lauren Lees	2106833
	07/30/2019			07/31/2019 21:41	Lauren Lees	2106839
	07/30/2019			07/31/2019 21:55	Lauren Lees	2106840
	07/30/2019			07/31/2019 22:09	Lauren Lees	2106847
	07/30/2019			07/31/2019 22:21	Lauren Lees	2106834
	07/30/2019			08/01/2019 06:13	Lauren Lees	2106844