

Chemical Analysis Report

SO-DIST-2019-02-27-02

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

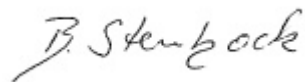
Event Description: **P Cricks 1**
Request ID: **RQ-2019-02-25-13**
Customer: **SO-DIST**
Project ID: **SMP**

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

Date Certified: 19-MAR-2019 16:48



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: Shell Cr@HathawayPark

Collection Date/Time: 02/26/2019 09:30

Field ID: G3SD0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065708	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P359637	
	EPA 300.0 Rev. 2.1	Chloride	110		mg Cl/L	P360202	
		Sulfate	62		mg SO4/L	P360207	
	SM 2120 B	Color (true)	87		PCU	P359668	
	SM 2320 B-97	Total Alkalinity	166		mg CaCO3/L	P360160	
	SM 2540 C-97	TDS	444		mg/L	P360082	
	SM 2540 D-97	TSS	8	I	mg/L	P359986	
	SM 4500 F-C-97	Fluoride	0.19		mg F/L	P360163	
2065710	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P359942	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P359797	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P359737	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P359706	
	SM 5310 B-00	Organic Carbon	17		mg C/L	P359952	
2065712	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.042		mg P/L	P359645	
2065728	EPA 8321B	Aldicarb	0.020	U	ug/L	P359578	
		Aldicarb Sulfone	0.0020	U	ug/L	P359578	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P359578	
		Carbaryl	0.0020	U	ug/L	P359578	
		Carbofuran	0.0020	U	ug/L	P359578	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P359578	
		Methiocarb	0.0020	U	ug/L	P359578	
		Methomyl	0.0020	U	ug/L	P359578	
		Oxamyl	0.0020	U	ug/L	P359578	
		Propoxur	0.0020	U	ug/L	P359578	
		2,4-D	0.014		ug/L	P359578	
		Acesulfame K**	0.10	U	ug/L	P359544	
		AMPA**	0.58		ug/L	P359544	MS
2065730		Sucralose**	0.050		ug/L	P359544	
		Acetaminophen**	0.0080	U	ug/L	P359578	
		Endothall**	0.25	U	ug/L	P359544	
		Glufosinate**	0.10	U	ug/L	P359544	
		Bentazon	0.0010	I	ug/L	P359578	
		Glyphosate**	0.71		ug/L	P359544	
		Carbamazepine**	8.0E-04	U	ug/L	P359578	
		Diuron	0.055		ug/L	P359578	
		Fenuron	0.016	UJ	ug/L	P359578	LCS
		Fluridone**	0.010		ug/L	P359578	
		Imazapyr**	0.027		ug/L	P359578	
		Hydrocodone**	0.0020	U	ug/L	P359578	
		Ibuprofen**	0.020	U	ug/L	P359578	
		Imidacloprid	0.25		ug/L	P359578	
		Linuron	0.0040	U	ug/L	P359578	
		MCP	0.0020	U	ug/L	P359578	

Field ID: G3SD0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065730	EPA 8321B	Naproxen**	0.0080	U	ug/L	P359578	
		Primidone**	0.0040	U	ug/L	P359578	
		Pyraclostrobin**	0.0020	UJ	ug/L	P359578	MS, RPD
		Triclopyr**	0.0040	U	ug/L	P359578	
2065732	EPA 8270D	Aldrin	4.4	U	ng/L	P359723	RPD
		Alpha-BHC	2.2	U	ng/L	P359723	
		Alpha-Chlordane	1.1	U	ng/L	P359723	
		Beta-BHC	11	U	ng/L	P359723	MS
		Bifenthrin**	4.4	U	ng/L	P359723	
		Delta-BHC	11	U	ng/L	P359723	
		Gamma-BHC	11	U	ng/L	P359723	
		Carbophenothion	13	U	ng/L	P359723	
		Chlorothalonil	2.2	U	ng/L	P359723	RPD
		Cis-Nonachlor**	1.1	U	ng/L	P359723	
		Cypermethrin	22	U	ng/L	P359723	RPD
		DDD-p,p'	8.8	U	ng/L	P359723	
		DDE-p,p'	8.8	U	ng/L	P359723	
		DDT-p,p'	11	U	ng/L	P359723	
		Dicofol	33	U	ng/L	P359723	
		Dieldrin	4.4	U	ng/L	P359723	
		Endosulfan I	4.4	U	ng/L	P359723	
		Endosulfan II	4.4	U	ng/L	P359723	
		Endosulfan Sulfate	2.2	U	ng/L	P359723	
		Endrin	2.2	U	ng/L	P359723	
		Endrin Aldehyde	2.2	U	ng/L	P359723	
		Endrin Ketone	2.2	U	ng/L	P359723	
		Ethalfuralin**	3.3	U	ng/L	P359723	
		Gamma-Chlordane	1.1	U	ng/L	P359723	
		Heptachlor	1.6	U	ng/L	P359723	
		Heptachlor Epoxide	2.2	U	ng/L	P359723	
		Hexachlorobenzene**	2.2	U	ng/L	P359723	
		Methoxychlor	4.4	U	ng/L	P359723	
		Mirex	2.2	UJ	ng/L	P359723	LCS, MS, RPD
		Permethrin	11	U	ng/L	P359723	RPD
		Trans-Nonachlor**	1.1	U	ng/L	P359723	
		Trifluralin	2.7	U	ng/L	P359723	
		Chlordane	5.5	U	ng/L	P359723	
		Toxaphene	33	U	ng/L	P359723	
2065734	EPA 8270D	Acetochlor	0.25	U	ng/L	P359947	
		Alachlor	0.25	U	ng/L	P359947	
		Ametryn	0.59	U	ng/L	P359947	
		Atrazine	9.2		ng/L	P359947	
		Atrazine Desethyl	1.5	U	ng/L	P359947	
		Azinphos Methyl	4.9	U	ng/L	P359947	

Field ID: G3SD0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065734	EPA 8270D	Bromacil	190	J	ng/L	P359947	RPD
		Butylate	0.39	UJ	ng/L	P359947	LCS
		Chlorpyrifos Ethyl	0.25	U	ng/L	P359947	
		Chlorpyrifos Methyl	0.098	U	ng/L	P359947	
		Cyanazine	3.2	U	ng/L	P359947	
		Demeton	6.9	U	ng/L	P359947	
		Diazinon	0.12	U	ng/L	P359947	
		Dimethenamid**	0.098	U	ng/L	P359947	
		Disulfoton	0.49	U	ng/L	P359947	
		Dithiopyr**	0.098	U	ng/L	P359947	
		EPTC	1.2	U	ng/L	P359947	RPD
		Ethion	0.15	U	ng/L	P359947	
		Ethoprop	0.098	U	ng/L	P359947	
		Fenamiphos	0.49	U	ng/L	P359947	
		Fipronil	0.25	U	ng/L	P359947	
		Fipronil Desulfinyl**	0.12	U	ng/L	P359947	
		Fipronil Sulfide	0.15	U	ng/L	P359947	
		Fipronil Sulfone	0.15	U	ng/L	P359947	
		Fonofos	0.20	U	ng/L	P359947	
		Hexazinone	27		ng/L	P359947	
		Malathion	0.34	U	ng/L	P359947	
		Metalaxyl	30		ng/L	P359947	
		Metolachlor	24		ng/L	P359947	
		Metribuzin	0.92	IJ	ng/L	P359947	RPD
		Mevinphos	0.49	U	ng/L	P359947	
		Molinate	0.29	U	ng/L	P359947	
		Norflurazon	450		ng/L	P359947	
		Oxadiazon**	0.23	I	ng/L	P359947	
		Parathion Ethyl	0.25	U	ng/L	P359947	
		Parathion Methyl	0.54	U	ng/L	P359947	
		Pendimethalin	1.9	I	ng/L	P359947	
		Phorate	0.25	U	ng/L	P359947	
		Prodiamine**	0.17	U	ng/L	P359947	
		Prometon	0.88	U	ng/L	P359947	
		Prometryn	0.20	U	ng/L	P359947	
		Simazine	170		ng/L	P359947	
		Tebuconazole**	0.49	UJ	ng/L	P359947	RPD
		Terbufos	0.098	U	ng/L	P359947	
		Terbuthylazine	0.42	U	ng/L	P359947	
2065736	EPA 200.7 Rev. 4.4	Barium	33.2		ug/L	P359631	
		Calcium	90.0		mg/L	P359631	
		Iron	560		ug/L	P359631	
		Magnesium	11.1		mg/L	P359631	
		Potassium	6.4		mg/L	P359631	
		Sodium	49.0		mg/L	P359631	

Field ID: G3SD0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065736	EPA 200.7 Rev. 4.4	Zinc	5.0	U	ug/L	P359631	MS
	EPA 200.8 Rev. 5.4	Aluminum	66		ug/L	P359631	
		Antimony	0.22		ug/L	P359631	
		Arsenic	1.58		ug/L	P359631	
		Boron**	56.7		ug/L	P359631	
		Cadmium	0.020	U	ug/L	P359631	
		Chromium	0.57	I	ug/L	P359631	
		Copper	1.59		ug/L	P359631	
		Lead	0.20	U	ug/L	P359631	
		Nickel	1.0	I	ug/L	P359631	
		Selenium	0.45	I	ug/L	P359631	
		Silver	0.010	U	ug/L	P359631	
		Thallium	0.10	U	ug/L	P359631	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
EPA 8270D: Refer to the narrative for an explanation of QC Codes.

Sample Location: PrairieCreek@WshgtnLoop

Collection Date/Time: 02/26/2019 10:05

Field ID: G3SD0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065709	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P359637	
	EPA 300.0 Rev. 2.1	Chloride	80		mg Cl/L	P360202	
		Sulfate	92		mg SO4/L	P360207	
	SM 2120 B	Color (true)	120		PCU	P359668	
	SM 2320 B-97	Total Alkalinity	107		mg CaCO3/L	P360160	
	SM 2540 C-97	TDS	418		mg/L	P360082	
	SM 2540 D-97	TSS	3	I	mg/L	P359986	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P360163	
2065711	EPA 350.1 Rev. 2.0	Ammonia-N	0.084		mg N/L	P359942	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P359797	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.44		mg N/L	P359737	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P359706	
	SM 5310 B-00	Organic Carbon	18		mg C/L	P359952	
2065713	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.11		mg P/L	P359645	
2065729	EPA 8321B	Aldicarb	0.020	U	ug/L	P359578	
		Aldicarb Sulfone	0.0020	U	ug/L	P359578	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P359578	
		Carbaryl	0.0020	U	ug/L	P359578	
		Carbofuran	0.0020	U	ug/L	P359578	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P359578	
		Methiocarb	0.0020	U	ug/L	P359578	
		Methomyl	0.0020	U	ug/L	P359578	
		Oxamyl	0.0020	U	ug/L	P359578	
		Propoxur	0.0020	U	ug/L	P359578	
2065731		2,4-D	0.015		ug/L	P359578	
		Acesulfame K**	0.10	U	ug/L	P359544	
		AMPA**	1.5		ug/L	P359544	MS
		Sucralose**	0.010	U	ug/L	P359544	
		Acetaminophen**	0.0080	U	ug/L	P359578	
		Endothall**	0.25	U	ug/L	P359544	
		Glufosinate**	0.10	U	ug/L	P359544	
		Bentazon	0.018		ug/L	P359578	
		Glyphosate**	1.6		ug/L	P359544	
		Carbamazepine**	8.0E-04	U	ug/L	P359578	
		Diuron	0.084		ug/L	P359578	
		Fenuron	0.017	IJ	ug/L	P359578	LCS
		Fluridone**	0.039		ug/L	P359578	
		Imazapyr**	0.030		ug/L	P359578	
		Hydrocodone**	0.0020	U	ug/L	P359578	
		Ibuprofen**	0.020	U	ug/L	P359578	
		Imidacloprid	0.65		ug/L	P359578	
		Linuron	0.0040	U	ug/L	P359578	
		MCP	0.0020	I	ug/L	P359578	

Field ID: G3SD0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065731	EPA 8321B	Naproxen**	0.0080	U	ug/L	P359578	
		Primidone**	0.0040	U	ug/L	P359578	
		Pyraclostrobin**	0.0020	U	ug/L	P359578	MS, RPD
		Triclopyr**	0.0040	U	ug/L	P359578	
2065733	EPA 8270D	Aldrin	4.4	U	ng/L	P359723	RPD
		Alpha-BHC	2.2	U	ng/L	P359723	
		Alpha-Chlordane	1.1	U	ng/L	P359723	
		Beta-BHC	11	U	ng/L	P359723	MS
		Bifenthrin**	4.4	U	ng/L	P359723	
		Delta-BHC	11	U	ng/L	P359723	
		Gamma-BHC	11	U	ng/L	P359723	
		Carbophenothion	13	U	ng/L	P359723	
		Chlorothalonil	2.2	U	ng/L	P359723	RPD
		Cis-Nonachlor**	1.1	U	ng/L	P359723	
		Cypermethrin	22	U	ng/L	P359723	RPD
		DDD-p,p'	8.8	U	ng/L	P359723	
		DDE-p,p'	8.8	U	ng/L	P359723	
		DDT-p,p'	11	U	ng/L	P359723	
		Dicofol	33	U	ng/L	P359723	
		Dieldrin	4.4	U	ng/L	P359723	
		Endosulfan I	4.4	U	ng/L	P359723	
		Endosulfan II	4.4	U	ng/L	P359723	
		Endosulfan Sulfate	2.2	U	ng/L	P359723	
		Endrin	2.2	U	ng/L	P359723	
		Endrin Aldehyde	2.2	U	ng/L	P359723	
		Endrin Ketone	2.2	U	ng/L	P359723	
		Ethalfuralin**	3.3	U	ng/L	P359723	
		Gamma-Chlordane	1.1	U	ng/L	P359723	
		Heptachlor	1.6	U	ng/L	P359723	
		Heptachlor Epoxide	2.2	U	ng/L	P359723	
		Hexachlorobenzene**	2.2	U	ng/L	P359723	
		Methoxychlor	4.4	U	ng/L	P359723	
		Mirex	2.2	UJ	ng/L	P359723	LCS, MS, RPD
		Permethrin	11	U	ng/L	P359723	RPD
		Trans-Nonachlor**	1.1	U	ng/L	P359723	
		Trifluralin	2.7	U	ng/L	P359723	
		Chlordane	5.5	U	ng/L	P359723	
		Toxaphene	33	U	ng/L	P359723	
2065735	EPA 8270D	Acetochlor	0.28	U	ng/L	P359947	
		Alachlor	0.28	U	ng/L	P359947	
		Ametryn	0.67	U	ng/L	P359947	
		Atrazine	18		ng/L	P359947	
		Atrazine Desethyl	1.8	I	ng/L	P359947	
		Azinphos Methyl	5.6	U	ng/L	P359947	

Field ID: G3SD0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065735	EPA 8270D	Bromacil	710	J	ng/L	P359947	RPD
		Butylate	0.45	UJ	ng/L	P359947	LCS
		Chlorpyrifos Ethyl	0.28	U	ng/L	P359947	
		Chlorpyrifos Methyl	0.11	U	ng/L	P359947	
		Cyanazine	3.6	U	ng/L	P359947	
		Demeton	7.8	U	ng/L	P359947	
		Diazinon	0.14	U	ng/L	P359947	
		Dimethenamid**	0.11	U	ng/L	P359947	
		Disulfoton	0.56	U	ng/L	P359947	
		Dithiopyr**	0.11	U	ng/L	P359947	
		EPTC	1.4	U	ng/L	P359947	RPD
		Ethion	0.17	U	ng/L	P359947	
		Ethoprop	0.11	U	ng/L	P359947	
		Fenamiphos	0.56	U	ng/L	P359947	
		Fipronil	0.28	U	ng/L	P359947	
		Fipronil Desulfinyl**	0.14	U	ng/L	P359947	
		Fipronil Sulfide	0.17	U	ng/L	P359947	
		Fipronil Sulfone	0.17	U	ng/L	P359947	
		Fonofos	0.22	U	ng/L	P359947	
		Hexazinone	30		ng/L	P359947	
		Malathion	0.39	U	ng/L	P359947	
		Metalaxyl	100		ng/L	P359947	
		Metolachlor	18		ng/L	P359947	
		Metribuzin	0.84	UJ	ng/L	P359947	RPD
		Mevinphos	0.56	U	ng/L	P359947	
		Molinate	0.33	U	ng/L	P359947	
		Norflurazon	340		ng/L	P359947	
		Oxadiazon**	0.17	I	ng/L	P359947	
		Parathion Ethyl	0.28	U	ng/L	P359947	
		Parathion Methyl	0.61	U	ng/L	P359947	
		Pendimethalin	2.9	I	ng/L	P359947	
		Phorate	0.28	U	ng/L	P359947	
		Prodiamine**	0.20	U	ng/L	P359947	
		Prometon	1.0	U	ng/L	P359947	
		Prometryn	0.22	U	ng/L	P359947	
		Simazine	15		ng/L	P359947	
		Tebuconazole**	0.56	UJ	ng/L	P359947	RPD
		Terbufos	0.11	U	ng/L	P359947	
		Terbuthylazine	0.47	U	ng/L	P359947	
2065737	EPA 200.7 Rev. 4.4	Barium	39.0		ug/L	P359631	
		Calcium	63.8		mg/L	P359631	
		Iron	830		ug/L	P359631	
		Magnesium	18.0		mg/L	P359631	
		Potassium	10.6		mg/L	P359631	
		Sodium	37.9		mg/L	P359631	

Field ID: G3SD0067

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065737	EPA 200.7 Rev. 4.4	Zinc	5.0	U	ug/L	P359631	
	EPA 200.8 Rev. 5.4	Aluminum	126		ug/L	P359631	
		Antimony	0.15	I	ug/L	P359631	
		Arsenic	1.35		ug/L	P359631	
		Boron**	66.2		ug/L	P359631	
		Cadmium	0.020	U	ug/L	P359631	
		Chromium	0.81	I	ug/L	P359631	
		Copper	1.43		ug/L	P359631	
		Lead	0.20	U	ug/L	P359631	
		Nickel	1.0	I	ug/L	P359631	
		Selenium	0.41	I	ug/L	P359631	MS
		Silver	0.010	U	ug/L	P359631	
		Thallium	0.10	U	ug/L	P359631	

Ref. Method and Comment:

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

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

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

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

Sample Location: RunofftoPeaceRiverSite3

Collection Date/Time: 02/26/2019 10:45

Field ID: G3SD0132

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065714	EPA 180.1 Rev. 2.0	Turbidity	14	A	NTU	P359637	
	EPA 300.0 Rev. 2.1	Chloride	42	A	mg Cl/L	P360202	
		Sulfate	27	A	mg SO4/L	P360207	
	SM 2120 B	Color (true)	120	A	PCU	P359669	
	SM 2320 B-97	Total Alkalinity	48		mg CaCO3/L	P360160	
	SM 2540 C-97	TDS	199		mg/L	P360083	
	SM 2540 D-97	TSS	6	I	mg/L	P359987	
	SM 4500 F-C-97	Fluoride	0.42		mg F/L	P360163	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.028		mg N/L	P359942	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.85		mg N/L	P359797	
2065716	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P359737	
	EPA 365.1 Rev. 2.0	Total-P	0.54		mg P/L	P360130	
	SM 5310 B-00	Organic Carbon	21		mg C/L	P359952	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.34		mg P/L	P359645	
	dissolved						

Ref. Method and Comment:

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

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

Sample Location: BobcatCreekPreserveEast

Collection Date/Time: 02/26/2019 11:15

Field ID: G3SD0131

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065715	EPA 180.1 Rev. 2.0	Turbidity	6.3		NTU	P359637	
	EPA 300.0 Rev. 2.1	Chloride	33		mg Cl/L	P360202	
		Sulfate	13		mg SO4/L	P360207	
	SM 2120 B	Color (true)	200		PCU	P359668	
	SM 2320 B-97	Total Alkalinity	67		mg CaCO3/L	P360160	
	SM 2540 C-97	TDS	181		mg/L	P360083	
	SM 2540 D-97	TSS	5	I	mg/L	P359987	
	SM 4500 F-C-97	Fluoride	0.37		mg F/L	P360163	
2065717	EPA 350.1 Rev. 2.0	Ammonia-N	0.043		mg N/L	P359942	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P359797	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.15		mg N/L	P359737	
	EPA 365.1 Rev. 2.0	Total-P	0.89		mg P/L	P360130	
	SM 5310 B-00	Organic Carbon	21		mg C/L	P360190	
2065719	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.67		mg P/L	P359646	

Ref. Method and Comment:

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

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359637

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P359631

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
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: P359631

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360202

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360207

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359942

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359797

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359737

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359706

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P360130

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359645

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359646

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

Reference Method: EPA 8270D
Batch ID: P359723

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	10	U	ng/L
Bifenthrin	4.0	U	ng/L
Carbophenothion	12	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	8.0	U	ng/L
DDE-p,p'	8.0	U	ng/L
DDT-p,p'	10	U	ng/L
Delta-BHC	10	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D
Batch ID: P359723

Component	Result	Code	Units
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Ethalfuralin	3.0	U	ng/L
Gamma-BHC	10	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8270D
Batch ID: P359947

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D
Batch ID: P359947

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

Reference Method: EPA 8276
Batch ID: P359723

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

Reference Method: EPA 8321B
Batch ID: P359544

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P359578

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P359578

Component	Result	Code	Units
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B
Batch ID: P359668

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P359669

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P360160

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

Reference Method: SM 2540 C-97
Batch ID: P360082

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P360083

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P359986

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P359987

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P360163

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P359952

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

Reference Method: SM 5310 B-00
Batch ID: P360190

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: P359631

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	104		P	85 - 115
Calcium	103		P	85 - 115
Iron	107		P	85 - 115
Magnesium	102		P	85 - 115
Potassium	110		P	85 - 115
Sodium	111		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P359631

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	103		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	108		P	85 - 115
Boron	107		P	85 - 115
Cadmium	104		P	85 - 115
Chromium	105		P	85 - 115
Copper	108		P	85 - 115
Lead	105		P	85 - 115
Nickel	105		P	85 - 115
Selenium	103		P	85 - 115
Silver	101		P	85 - 115
Thallium	106		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360202

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360207

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359942

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.1		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359797

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359737

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359706

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P360130

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359645

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359646

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	96.3		P	90 - 110

Reference Method: EPA 8270D
Batch ID: P359723

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	47.6	59.7	P/P	20 - 93.0
Alpha-BHC	111	111	P/P	57 - 119
Alpha-Chlordane	80.4	84.3	P/P	58 - 112
Beta-BHC	142	144	P/P	56 - 149
Bifenthrin	70.9	88.9	P/P	50 - 130
Carbophenothion	82.2	94.2	P/P	26 - 147
Chlorothalonil	112	116	P/P	20 - 155
Cis-Nonachlor	85.1	90.8	P/P	50 - 130
Cypermethrin	68.8	76.2	P/P	40 - 137
DDD-p,p'	97.5	102	P/P	65 - 129
DDE-p,p'	86.3	84.1	P/P	57 - 116
DDT-p,p'	96.2	107	P/P	53 - 133
Delta-BHC	151	152	P/P	59 - 163
Dicofol	95.3	97.2	P/P	24 - 138
Dieldrin	88.9	92.5	P/P	60 - 120
Endosulfan I	90.3	89.8	P/P	64 - 118
Endosulfan II	98.5	101	P/P	58 - 142
Endosulfan Sulfate	92.6	96.7	P/P	60 - 127
Endrin	99.5	102	P/P	59 - 122
Endrin Aldehyde	111	111	P/P	49 - 132
Endrin Ketone	92.6	95.2	P/P	64 - 121
Ethalfuralin	86.0	90.0	P/P	50 - 130

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P359723

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-BHC	130	122	P/P	56 - 141
Gamma-Chlordane	76.7	83.2	P/P	56 - 110
Heptachlor	58.8	66.9	P/P	46 - 96.0
Heptachlor Epoxide	86.1	86.4	P/P	61 - 112
Hexachlorobenzene	65.8	72.6	P/P	50 - 130
Methoxychlor	100	91.9	P/P	63 - 134
Mirex	44.8	55.8	F/P	45 - 100
Permethrin	68.0	78.5	P/P	53 - 115
Trans-Nonachlor	75.9	82.8	P/P	50 - 130
Trifluralin	83.4	90.1	P/P	39 - 142

Reference Method: EPA 8270D
Batch ID: P359947

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	112	109	P/P	71 - 121
Alachlor	109	96.4	P/P	72 - 119
Ametryn	112	110	P/P	47 - 144
Atrazine	103	101	P/P	75 - 123
Atrazine Desethyl	98.8	89.1	P/P	45 - 133
Azinphos Methyl	96.2	110	P/P	66 - 165
Bromacil	108	55.0	P/P	43 - 123
Butylate	84.6	65.3	F/P	27 - 83.0
Chlorpyrifos Ethyl	93.8	95.0	P/P	70 - 117
Chlorpyrifos Methyl	84.6	94.8	P/P	71 - 120
Cyanazine	99.0	94.0	P/P	34 - 264
Demeton	80.6	86.5	P/P	41 - 122
Diazinon	110	98.6	P/P	70 - 127
Dimethenamid	112	101	P/P	60 - 130
Disulfoton	87.8	94.8	P/P	56 - 127
Dithiopyr	110	97.0	P/P	60 - 130
EPTC	81.0	72.2	P/P	24 - 84.0
Ethion	103	77.8	P/P	53 - 132
Ethoprop	104	90.7	P/P	57 - 117
Fenamiphos	94.6	86.1	P/P	55 - 136
Fipronil	108	84.0	P/P	64 - 126
Fipronil Desulfinyl	99.4	88.7	P/P	60 - 130
Fipronil Sulfide	102	82.0	P/P	57 - 120
Fipronil Sulfone	104	82.7	P/P	52 - 115
Fonofos	87.6	93.1	P/P	61 - 121
Hexazinone	130	96.6	P/P	62 - 131
Malathion	98.5	97.9	P/P	67 - 126
Metalaxyl	111	98.0	P/P	54 - 128
Metolachlor	112	103	P/P	71 - 118
Metribuzin	86.2	145	P/P	42 - 221
Mevinphos	94.7	88.9	P/P	45 - 114
Molinate	84.4	76.6	P/P	33 - 91.0
Norflurazon	105	85.6	P/P	60 - 123
Oxadiazon	113	95.8	P/P	60 - 130
Parathion Ethyl	90.5	91.0	P/P	73 - 111
Parathion Methyl	96.6	117	P/P	74 - 126
Pendimethalin	88.6	93.6	P/P	63 - 131

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
 Batch ID: P359947

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	81.6	89.4	P/P	54 - 115
Prodiamine	93.6	91.8	P/P	60 - 130
Prometon	107	83.6	P/P	61 - 120
Prometryn	107	94.7	P/P	62 - 126
Simazine	101	105	P/P	75 - 126
Tebuconazole	100	73.9	P/P	30 - 100
Terbufos	89.7	91.5	P/P	65 - 116
Terbuthylazine	106	98.0	P/P	73 - 117

Reference Method: EPA 8276
 Batch ID: P359723

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	86.0	75.8	P/P	43 - 128
Toxaphene	62.4	63.3	P/P	38 - 140

Reference Method: EPA 8321B
 Batch ID: P359544

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	107		P	40 - 150
AMPA	67.9		P	40 - 150
Endothall	104		P	40 - 150
Glufosinate	112		P	40 - 150
Glyphosate	105		P	40 - 140
Sucralose	107		P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P359578

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	75.0		P	40 - 150
3-Hydroxycarbofuran	89.7		P	40 - 150
Acetaminophen	97.0		P	30 - 150
Aldicarb	77.6		P	30 - 150
Aldicarb Sulfone	111		P	40 - 150
Aldicarb Sulfoxide	108		P	40 - 150
Bentazon	99.5		P	30 - 150
Carbamazepine	86.0		P	40 - 150
Carbaryl	82.5		P	40 - 150
Carbofuran	80.1		P	40 - 150
Diuron	84.3		P	40 - 150
Fenuron	158		F	40 - 150
Fluridone	112		P	40 - 150
Hydrocodone	107		P	40 - 150
Ibuprofen	77.0		P	40 - 150
Imazapyr	104		P	40 - 150
Imidacloprid	102		P	40 - 150
Linuron	87.0		P	40 - 150
MCPP	83.4		P	40 - 150
Methiocarb	73.2		P	40 - 150
Methomyl	97.9		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P359578

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naproxen	62.2		P	40 - 150
Oxamyl	111		P	40 - 150
Primidone	103		P	40 - 150
Propoxur	76.6		P	40 - 150
Pyraclostrobin	75.9		P	40 - 150
Triclopyr	53.7		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P359668

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	85 - 115

Reference Method: SM 2120 B
Batch ID: P359669

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

Reference Method: SM 2320 B-97
Batch ID: P360160

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P360163

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

Reference Method: SM 5310 B-00
Batch ID: P359952

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.1		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P360190

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P359631

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065279	Barium	101		P	80 - 120
2065279	Calcium	101		P	80 - 120
2065279	Iron	105		P	80 - 120
2065279	Magnesium	101		P	80 - 120
2065279	Potassium	104		P	80 - 120
2065279	Sodium	101		P	80 - 120
2065279	Zinc	102		P	80 - 120
2065351	Barium	100	101	P/P	80 - 120
2065351	Calcium	101		P	80 - 120
2065351	Iron	105	105	P/P	80 - 120
2065351	Magnesium	99.7		P	80 - 120
2065351	Potassium	106	106	P/P	80 - 120
2065351	Sodium	104	106	P/P	80 - 120
2065351	Zinc	99.3	100	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P359631

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065279	Aluminum	100		P	80 - 120
2065279	Antimony	103		P	80 - 120
2065279	Arsenic	108		P	80 - 120
2065279	Boron	105		P	80 - 120
2065279	Cadmium	106		P	80 - 120
2065279	Chromium	102		P	80 - 120
2065279	Copper	106		P	80 - 120
2065279	Lead	104		P	80 - 120
2065279	Nickel	102		P	80 - 120
2065279	Selenium	54.6		F	80 - 120
2065279	Silver	101		P	80 - 120
2065279	Thallium	106		P	80 - 120
2065351	Aluminum	101	102	P/P	80 - 120
2065351	Antimony	103	103	P/P	80 - 120
2065351	Arsenic	108	108	P/P	80 - 120
2065351	Boron	105	105	P/P	80 - 120
2065351	Cadmium	104	106	P/P	80 - 120
2065351	Chromium	104	105	P/P	80 - 120
2065351	Copper	105	105	P/P	80 - 120
2065351	Lead	105	105	P/P	80 - 120
2065351	Nickel	104	104	P/P	80 - 120
2065351	Selenium	102	103	P/P	80 - 120
2065351	Silver	103	103	P/P	80 - 120
2065351	Thallium	106	107	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360202

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065633	Chloride	102		P	90 - 110
2065714	Chloride	99.8		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360207

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065633	Sulfate	102		P	90 - 110
2065714	Sulfate	99.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359942

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065636	Ammonia-N	92.1	98.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065710	NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065665	Total-P	96.3	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P360130

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065786	Total-P	104	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359645

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065637	O-Phosphate-P	96.5	97.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359646

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065719	O-Phosphate-P	95.0	95.6	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P359723

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065655	Aldrin	68.1	48.8	P/P	25 - 92.0
2065655	Alpha-BHC	121	117	P/P	49 - 130
2065655	Alpha-Chlordane	88.7	72.3	P/P	50 - 115
2065655	Beta-BHC	170	171	F/F	43 - 157
2065655	Bifenthrin	94.5	72.8	P/P	50 - 130
2065655	Carbophenothion	119	101	P/P	27 - 180
2065655	Chlorothalonil	127	47.9	P/P	10 - 216
2065655	Cis-Nonachlor	91.6	74.2	P/P	50 - 130
2065655	Cypermethrin	85.0	61.5	P/P	40 - 153

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P359723

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065655	DDD-p,p'	106	91.4	P/P	53 - 128
2065655	DDE-p,p'	93.4	74.3	P/P	48 - 116
2065655	DDT-p,p'	108	87.4	P/P	47 - 128
2065655	Delta-BHC	181	181	P/P	51 - 196
2065655	Dicofol	99.9	90.0	P/P	10 - 147
2065655	Dieldrin	93.6	84.9	P/P	48 - 128
2065655	Endosulfan I	96.9	89.8	P/P	58 - 126
2065655	Endosulfan II	104	96.2	P/P	50 - 150
2065655	Endosulfan Sulfate	106	103	P/P	56 - 130
2065655	Endrin	106	94.8	P/P	50 - 126
2065655	Endrin Aldehyde	100	92.9	P/P	12 - 145
2065655	Endrin Ketone	106	107	P/P	59 - 132
2065655	Ethalfuralin	99.6	79.4	P/P	50 - 130
2065655	Gamma-BHC	140	141	P/P	50 - 155
2065655	Gamma-Chlordane	84.6	66.6	P/P	50 - 112
2065655	Heptachlor	70.3	54.9	P/P	41 - 98.0
2065655	Heptachlor Epoxide	92.8	85.9	P/P	55 - 117
2065655	Hexachlorobenzene	77.8	59.4	P/P	50 - 130
2065655	Methoxychlor	117	98.0	P/P	55 - 133
2065655	Mirex	60.0	40.1	P/F	44 - 101
2065655	Permethrin	82.6	58.6	P/P	52 - 124
2065655	Trans-Nonachlor	85.7	66.3	P/P	50 - 130
2065655	Trifluralin	97.6	76.4	P/P	10 - 201

Reference Method: EPA 8270D
Batch ID: P359947

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065382	Acetochlor	107	106	P/P	63 - 129
2065382	Alachlor	106	103	P/P	65 - 127
2065382	Ametryn	102	98.6	P/P	40 - 164
2065382	Atrazine	108	119	P/P	66 - 135
2065382	Atrazine Desethyl	89.1	77.1	P/P	14 - 157
2065382	Azinphos Methyl	133	124	P/P	49 - 180
2065382	Bromacil	91.8	88.4	P/P	48 - 130
2065382	Butylate	63.3	48.6	P/P	10 - 94.0
2065382	Chlorpyrifos Ethyl	88.6	99.9	P/P	58 - 123
2065382	Chlorpyrifos Methyl	92.5	95.3	P/P	58 - 125
2065382	Cyanazine	97.4	109	P/P	24 - 253
2065382	Demeton	89.6	90.9	P/P	25 - 149
2065382	Diazinon	101	102	P/P	59 - 144
2065382	Dimethenamid	103	108	P/P	60 - 130
2065382	Disulfoton	97.8	99.0	P/P	54 - 132
2065382	Dithiopyr	100	101	P/P	60 - 130
2065382	EPTC	65.1	45.8	P/P	10 - 92.0
2065382	Ethion	49.7	60.1	P/P	30 - 148
2065382	Ethoprop	100	97.1	P/P	50 - 130
2065382	Fenamiphos	105	78.5	P/P	49 - 142
2065382	Fipronil	89.5	96.9	P/P	46 - 140
2065382	Fipronil Desulfanyl	73.0	76.3	P/P	60 - 130
2065382	Fipronil Sulfide	80.9	82.0	P/P	31 - 136
2065382	Fipronil Sulfone	81.5	92.3	P/P	16 - 136

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P359947

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065382	Fonofos	96.1	100	P/P	55 - 129
2065382	Hexazinone	91.2	95.0	P/P	56 - 141
2065382	Malathion	92.5	96.9	P/P	56 - 135
2065382	Metalaxyl	97.4	98.1	P/P	54 - 135
2065382	Metolachlor	109	110	P/P	51 - 140
2065382	Metribuzin	149	150	P/P	45 - 254
2065382	Mevinphos	82.6	91.0	P/P	33 - 131
2065382	Molinate	85.2	75.0	P/P	14 - 98.0
2065382	Norflurazon	97.4	98.2	P/P	34 - 136
2065382	Oxadiazon	88.6	90.4	P/P	60 - 130
2065382	Parathion Ethyl	88.9	92.9	P/P	66 - 118
2065382	Parathion Methyl	120	124	P/P	64 - 136
2065382	Pendimethalin	71.9	71.8	P/P	59 - 144
2065382	Phorate	96.7	91.8	P/P	42 - 130
2065382	Prodiamine	89.6	80.9	P/P	60 - 130
2065382	Prometon	85.0	81.5	P/P	59 - 134
2065382	Prometryn	88.1	88.0	P/P	54 - 135
2065382	Simazine	105	111	P/P	53 - 156
2065382	Tebuconazole	64.3	72.1	P/P	30 - 100
2065382	Terbufos	99.4	99.0	P/P	57 - 131
2065382	Terbutylazine	96.9	98.5	P/P	68 - 125

Reference Method: EPA 8276
Batch ID: P359723

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2066296	Chlordane	83.1	80.0	P/P	34 - 136
2066296	Toxaphene	59.0	59.8	P/P	22 - 152

Reference Method: EPA 8321B
Batch ID: P359544

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065519	Acesulfame K	65.7	66.2	P/P	40 - 150
2065519	AMPA	37.3	48.7	F/P	40 - 150
2065519	Endothall	99.6	110	P/P	40 - 150
2065519	Glufosinate	75.1	72.6	P/P	40 - 150
2065519	Glyphosate	63.6	87.0	P/P	40 - 140
2065519	Sucralose	120	109	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P359578

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065728	3-Hydroxycarbofuran	83.0	79.1	P/P	40 - 150
2065728	Aldicarb	79.6	62.2	P/P	30 - 150
2065728	Aldicarb Sulfone	107	102	P/P	40 - 150
2065728	Aldicarb Sulfoxide	80.6	77.1	P/P	40 - 150
2065728	Carbaryl	52.1	49.7	P/P	40 - 150
2065728	Carbofuran	52.6	49.6	P/P	40 - 150
2065728	Methiocarb	51.5	44.5	P/P	40 - 150
2065728	Methomyl	71.1	67.4	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P359578

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065728	Oxamyl	92.4	87.6	P/P	40 - 150
2065728	Propoxur	49.8	46.9	P/P	40 - 150
2065730	2,4-D	72.2	81.1	P/P	40 - 150
2065730	Acetaminophen	92.9	97.5	P/P	30 - 150
2065730	Bentazon	60.8	62.8	P/P	30 - 150
2065730	Carbamazepine	64.4	62.1	P/P	40 - 150
2065730	Diuron	43.7	42.2	P/P	40 - 150
2065730	Fenuron	93.0	78.9	P/P	40 - 150
2065730	Fluridone	89.6	84.6	P/P	40 - 150
2065730	Hydrocodone	85.8	85.3	P/P	40 - 150
2065730	Ibuprofen	57.4	48.5	P/P	40 - 150
2065730	Imazapyr	95.2	97.5	P/P	40 - 150
2065730	Imidacloprid	128	120	P/P	40 - 150
2065730	Linuron	57.4	52.7	P/P	40 - 150
2065730	MCP	97.3	107	P/P	40 - 150
2065730	Naproxen	48.7	50.1	P/P	40 - 150
2065730	Primidone	84.5	81.9	P/P	40 - 150
2065730	Pyraclostrobin	57.8	28.7	P/F	40 - 150
2065730	Triclopyr	47.6	50.7	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P360163

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065779	Fluoride	101	101	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P359952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065710	Organic Carbon	93.4	96.2	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P360190

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065884	Organic Carbon	95.2	95.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359637

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065714	Turbidity	9.66	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P359631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065351	Barium	0.609	Spike	P	0 - 20
2065351	Calcium	2.29	Spike	P	0 - 20
2065351	Iron	0.503	Spike	P	0 - 20
2065351	Magnesium	2.53	Spike	P	0 - 20
2065351	Potassium	0.429	Spike	P	0 - 20
2065351	Sodium	1.40	Spike	P	0 - 20
2065351	Zinc	0.654	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P359631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065351	Aluminum	0.688	Spike	P	0 - 20
2065351	Antimony	0.322	Spike	P	0 - 20
2065351	Arsenic	0.424	Spike	P	0 - 20
2065351	Boron	0.191	Spike	P	0 - 20
2065351	Cadmium	1.19	Spike	P	0 - 20
2065351	Chromium	0.810	Spike	P	0 - 20
2065351	Copper	0.254	Spike	P	0 - 20
2065351	Lead	0.281	Spike	P	0 - 20
2065351	Nickel	0.717	Spike	P	0 - 20
2065351	Selenium	1.42	Spike	P	0 - 20
2065351	Silver	0.165	Spike	P	0 - 20
2065351	Thallium	1.02	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360202

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065714	Chloride	0.568	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360207

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065714	Sulfate	0.906	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359942

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065636	Ammonia-N	5.62	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359797

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065710	Kjeldahl Nitrogen	1.58	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359737

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065710	NO2NO3-N	0.487	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065665	Total-P	2.24	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P360130

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065786	Total-P	4.88	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359645

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065637	O-Phosphate-P	1.24	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359646

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065719	O-Phosphate-P	0.466	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P359723

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065655	Aldrin	32.9	Spike	F	0 - 30
2065655	Alpha-BHC	3.13	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270D
Batch ID: P359723

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065655	Alpha-Chlordane	20.4	Spike	P	0 - 30
2065655	Beta-BHC	0.424	Spike	P	0 - 30
2065655	Bifenthrin	25.9	Spike	P	0 - 30
2065655	Carbophenothion	15.9	Spike	P	0 - 30
2065655	Chlorothalonil	90.6	Spike	F	0 - 30
2065655	Cis-Nonachlor	21.0	Spike	P	0 - 30
2065655	Cypermethrin	32.1	Spike	F	0 - 30
2065655	DDD-p,p'	15.2	Spike	P	0 - 30
2065655	DDE-p,p'	22.8	Spike	P	0 - 30
2065655	DDT-p,p'	21.4	Spike	P	0 - 30
2065655	Delta-BHC	0.271	Spike	P	0 - 30
2065655	Dicofol	10.4	Spike	P	0 - 30
2065655	Dieldrin	9.71	Spike	P	0 - 30
2065655	Endosulfan I	7.63	Spike	P	0 - 30
2065655	Endosulfan II	7.80	Spike	P	0 - 30
2065655	Endosulfan Sulfate	3.61	Spike	P	0 - 30
2065655	Endrin	11.3	Spike	P	0 - 30
2065655	Endrin Aldehyde	7.44	Spike	P	0 - 30
2065655	Endrin Ketone	0.126	Spike	P	0 - 30
2065655	Ethalfuralin	22.6	Spike	P	0 - 30
2065655	Gamma-BHC	0.881	Spike	P	0 - 30
2065655	Gamma-Chlordane	23.8	Spike	P	0 - 30
2065655	Heptachlor	24.6	Spike	P	0 - 30
2065655	Heptachlor Epoxide	7.73	Spike	P	0 - 30
2065655	Hexachlorobenzene	26.8	Spike	P	0 - 30
2065655	Methoxychlor	18.1	Spike	P	0 - 30
2065655	Mirex	39.9	Spike	F	0 - 30
2065655	Permethrin	34.0	Spike	F	0 - 30
2065655	Trans-Nonachlor	25.5	Spike	P	0 - 30
2065655	Trifluralin	24.4	Spike	P	0 - 30
LFB	Aldrin	22.4	LCS	P	0 - 30
LFB	Alpha-BHC	0.0415	LCS	P	0 - 30
LFB	Alpha-Chlordane	4.64	LCS	P	0 - 30
LFB	Beta-BHC	1.46	LCS	P	0 - 30
LFB	Bifenthrin	22.5	LCS	P	0 - 30
LFB	Carbophenothion	13.5	LCS	P	0 - 30
LFB	Chlorothalonil	3.82	LCS	P	0 - 30
LFB	Cis-Nonachlor	6.44	LCS	P	0 - 30
LFB	Cypermethrin	10.2	LCS	P	0 - 30
LFB	DDD-p,p'	4.40	LCS	P	0 - 30
LFB	DDE-p,p'	2.58	LCS	P	0 - 30
LFB	DDT-p,p'	10.7	LCS	P	0 - 30
LFB	Delta-BHC	0.738	LCS	P	0 - 30
LFB	Dicofol	1.95	LCS	P	0 - 30
LFB	Dieldrin	3.99	LCS	P	0 - 30
LFB	Endosulfan I	0.490	LCS	P	0 - 30
LFB	Endosulfan II	2.66	LCS	P	0 - 30
LFB	Endosulfan Sulfate	4.36	LCS	P	0 - 30
LFB	Endrin	2.84	LCS	P	0 - 30
LFB	Endrin Aldehyde	0.249	LCS	P	0 - 30
LFB	Endrin Ketone	2.80	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P359723

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Ethalfuralin	4.51	LCS	P	0 - 30
LFB	Gamma-BHC	6.33	LCS	P	0 - 30
LFB	Gamma-Chlordane	8.12	LCS	P	0 - 30
LFB	Heptachlor	12.8	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.329	LCS	P	0 - 30
LFB	Hexachlorobenzene	9.87	LCS	P	0 - 30
LFB	Methoxychlor	8.65	LCS	P	0 - 30
LFB	Mirex	22.0	LCS	P	0 - 30
LFB	Permethrin	14.4	LCS	P	0 - 30
LFB	Trans-Nonachlor	8.76	LCS	P	0 - 30
LFB	Trifluralin	7.71	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P359947

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065382	Acetochlor	1.28	Spike	P	0 - 30
2065382	Alachlor	3.28	Spike	P	0 - 30
2065382	Ametryn	3.84	Spike	P	0 - 30
2065382	Atrazine	10.1	Spike	P	0 - 30
2065382	Atrazine Desethyl	14.5	Spike	P	0 - 30
2065382	Azinphos Methyl	6.98	Spike	P	0 - 30
2065382	Bromacil	3.84	Spike	P	0 - 30
2065382	Butylate	26.3	Spike	P	0 - 30
2065382	Chlorpyrifos Ethyl	12.0	Spike	P	0 - 30
2065382	Chlorpyrifos Methyl	2.98	Spike	P	0 - 30
2065382	Cyanazine	11.2	Spike	P	0 - 30
2065382	Demeton	1.42	Spike	P	0 - 30
2065382	Diazinon	1.42	Spike	P	0 - 30
2065382	Dimethenamid	4.83	Spike	P	0 - 30
2065382	Disulfoton	1.27	Spike	P	0 - 30
2065382	Dithiopyr	1.14	Spike	P	0 - 30
2065382	EPTC	34.8	Spike	F	0 - 30
2065382	Ethion	19.0	Spike	P	0 - 30
2065382	Ethoprop	3.38	Spike	P	0 - 30
2065382	Fenamiphos	28.8	Spike	P	0 - 30
2065382	Fipronil	7.95	Spike	P	0 - 30
2065382	Fipronil Desulfinyl	4.40	Spike	P	0 - 30
2065382	Fipronil Sulfide	1.30	Spike	P	0 - 30
2065382	Fipronil Sulfone	12.4	Spike	P	0 - 30
2065382	Fonofos	4.35	Spike	P	0 - 30
2065382	Hexazinone	4.02	Spike	P	0 - 30
2065382	Malathion	4.68	Spike	P	0 - 30
2065382	Metalaxyl	0.716	Spike	P	0 - 30
2065382	Metolachlor	1.24	Spike	P	0 - 30
2065382	Metribuzin	0.341	Spike	P	0 - 30
2065382	Mevinphos	9.75	Spike	P	0 - 30
2065382	Molinate	12.8	Spike	P	0 - 30
2065382	Norflurazon	0.794	Spike	P	0 - 30
2065382	Oxadiazon	2.01	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P359947

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065382	Parathion Ethyl	4.37	Spike	P	0 - 30
2065382	Parathion Methyl	2.71	Spike	P	0 - 30
2065382	Pendimethalin	0.106	Spike	P	0 - 30
2065382	Phorate	5.18	Spike	P	0 - 30
2065382	Prodiamine	10.2	Spike	P	0 - 30
2065382	Prometon	4.14	Spike	P	0 - 30
2065382	Prometryn	0.0766	Spike	P	0 - 30
2065382	Simazine	6.05	Spike	P	0 - 30
2065382	Tebuconazole	11.4	Spike	P	0 - 30
2065382	Terbufos	0.389	Spike	P	0 - 30
2065382	Terbuthylazine	1.62	Spike	P	0 - 30
LFB	Acetochlor	2.61	LCS	P	0 - 30
LFB	Alachlor	12.0	LCS	P	0 - 30
LFB	Ametryn	1.53	LCS	P	0 - 30
LFB	Atrazine	1.95	LCS	P	0 - 30
LFB	Atrazine Desethyl	10.3	LCS	P	0 - 30
LFB	Azinphos Methyl	13.2	LCS	P	0 - 30
LFB	Bromacil	65.1	LCS	F	0 - 30
LFB	Butylate	25.8	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	1.25	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	11.3	LCS	P	0 - 30
LFB	Cyanazine	5.11	LCS	P	0 - 30
LFB	Demeton	7.02	LCS	P	0 - 30
LFB	Diazinon	11.1	LCS	P	0 - 30
LFB	Dimethenamid	10.5	LCS	P	0 - 30
LFB	Disulfoton	7.62	LCS	P	0 - 30
LFB	Dithiopyr	12.5	LCS	P	0 - 30
LFB	EPTC	11.5	LCS	P	0 - 30
LFB	Ethion	28.3	LCS	P	0 - 30
LFB	Ethoprop	13.4	LCS	P	0 - 30
LFB	Fenamiphos	9.40	LCS	P	0 - 30
LFB	Fipronil	25.4	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	11.4	LCS	P	0 - 30
LFB	Fipronil Sulfide	22.0	LCS	P	0 - 30
LFB	Fipronil Sulfone	23.0	LCS	P	0 - 30
LFB	Fonofos	6.10	LCS	P	0 - 30
LFB	Hexazinone	29.3	LCS	P	0 - 30
LFB	Malathion	0.580	LCS	P	0 - 30
LFB	Metaxyl	12.6	LCS	P	0 - 30
LFB	Metolachlor	7.93	LCS	P	0 - 30
LFB	Metribuzin	51.1	LCS	F	0 - 30
LFB	Mevinphos	6.32	LCS	P	0 - 30
LFB	Molinate	9.68	LCS	P	0 - 30
LFB	Norflurazon	20.8	LCS	P	0 - 30
LFB	Oxadiazon	16.1	LCS	P	0 - 30
LFB	Parathion Ethyl	0.577	LCS	P	0 - 30
LFB	Parathion Methyl	18.7	LCS	P	0 - 30
LFB	Pendimethalin	5.45	LCS	P	0 - 30
LFB	Phorate	9.09	LCS	P	0 - 30
LFB	Prodiamine	1.90	LCS	P	0 - 30
LFB	Prometon	24.5	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P359947

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Prometryn	12.5	LCS	P	0 - 30
LFB	Simazine	4.64	LCS	P	0 - 30
LFB	Tebuconazole	30.1	LCS	F	0 - 30
LFB	Terbufos	2.01	LCS	P	0 - 30
LFB	Terbutylazine	7.93	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P359723

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2066296	Chlordane	3.87	Spike	P	0 - 30
2066296	Toxaphene	1.37	Spike	P	0 - 30
LFB	Chlordane	12.6	LCS	P	0 - 30
LFB	Toxaphene	1.49	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P359544

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065519	Acesulfame K	0.768	Spike	P	0 - 30
2065519	AMPA	17.5	Spike	P	0 - 30
2065519	Endothall	9.78	Spike	P	0 - 30
2065519	Glufosinate	3.37	Spike	P	0 - 30
2065519	Glyphosate	22.2	Spike	P	0 - 30
2065519	Sucralose	8.43	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P359578

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065728	3-Hydroxycarbofuran	4.81	Spike	P	0 - 30
2065728	Aldicarb	24.5	Spike	P	0 - 30
2065728	Aldicarb Sulfone	4.73	Spike	P	0 - 30
2065728	Aldicarb Sulfoxide	4.48	Spike	P	0 - 30
2065728	Carbaryl	4.71	Spike	P	0 - 30
2065728	Carbofuran	5.98	Spike	P	0 - 30
2065728	Methiocarb	14.6	Spike	P	0 - 30
2065728	Methomyl	5.31	Spike	P	0 - 30
2065728	Oxamyl	5.32	Spike	P	0 - 30
2065728	Propoxur	6.09	Spike	P	0 - 30
2065730	2,4-D	9.41	Spike	P	0 - 30
2065730	Acetaminophen	4.84	Spike	P	0 - 30
2065730	Bentazon	3.04	Spike	P	0 - 30
2065730	Carbamazepine	3.66	Spike	P	0 - 30
2065730	Diuron	1.31	Spike	P	0 - 30
2065730	Fenuron	16.5	Spike	P	0 - 30
2065730	Fluridone	3.61	Spike	P	0 - 30
2065730	Hydrocodone	0.560	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P359578

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065730	Ibuprofen	16.8	Spike	P	0 - 30
2065730	Imazapyr	1.80	Spike	P	0 - 30
2065730	Imidacloprid	1.79	Spike	P	0 - 30
2065730	Linuron	8.44	Spike	P	0 - 30
2065730	MCP	9.20	Spike	P	0 - 30
2065730	Naproxen	2.87	Spike	P	0 - 30
2065730	Primidone	3.18	Spike	P	0 - 30
2065730	Pyraclostrobin	67.2	Spike	F	0 - 30
2065730	Triclopyr	6.23	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P359668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065662	Color (true)	2.14	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P359669

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065714	Color (true)	1.96	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P360160

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065779	Total Alkalinity	0.576	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P360082

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065661	TDS	5.73	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P360083

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065749	TDS	4.71	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P360163

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065779	Fluoride	0.0	Spike	P	0 - 3.5

Quality Assurance Report Precision

Reference Method: SM 5310 B-00
Batch ID: P359952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065710	Organic Carbon	1.59	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P360190

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065884	Organic Carbon	0.267	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: 2065728
Field Sample ID: G3SD0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	40.0	P	30 - 160

Lab Sample ID: 2065729
Field Sample ID: G3SD0067

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	46.5	P	30 - 160

Lab Sample ID: 2065730
Field Sample ID: G3SD0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	87.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	99.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	61.0	P	30 - 160
EPA 8321B	Diuron-d6	59.8	P	30 - 160
EPA 8321B	Endothall-d6	143	P	30 - 160
EPA 8321B	Endothall-d6	143	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	75.2	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	75.2	P	40 - 160
EPA 8321B	Ibuprofen-d3	66.2	P	30 - 160
EPA 8321B	Primidone-d5	78.5	P	30 - 160
EPA 8321B	Sucralose-d6	79.4	P	40 - 160
EPA 8321B	Sucralose-d6	79.4	P	40 - 160

Lab Sample ID: 2065731
Field Sample ID: G3SD0067

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	109	P	30 - 160
EPA 8321B	Acetaminophen-d4	119	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.3	P	30 - 160
EPA 8321B	Diuron-d6	62.7	P	30 - 160
EPA 8321B	Endothall-d6	137	P	30 - 160
EPA 8321B	Endothall-d6	137	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.3	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	85.3	P	40 - 160
EPA 8321B	Ibuprofen-d3	102	P	30 - 160
EPA 8321B	Primidone-d5	85.0	P	30 - 160
EPA 8321B	Sucralose-d6	79.5	P	40 - 160
EPA 8321B	Sucralose-d6	79.5	P	40 - 160

Lab Sample ID: 2065732
Field Sample ID: G3SD0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	83.5	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	72.0	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	52.3	P	30 - 103
EPA 8276	PCNB	91.8	P	37 - 143

Quality Assurance Report Surrogates

Lab Sample ID: 2065733
Field Sample ID: G3SD0067

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	73.5	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	60.8	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	44.6	P	30 - 103
EPA 8276	PCNB	81.1	P	37 - 143

Lab Sample ID: 2065734
Field Sample ID: G3SD0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	101	P	68 - 130
EPA 8270D	Terbufos-d10	81.8	P	61 - 136

Lab Sample ID: 2065735
Field Sample ID: G3SD0067

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	103	P	68 - 130
EPA 8270D	Terbufos-d10	84.6	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A89702

Included Lab Sample IDs: 2065708, 2065709, 2065714, 2065715

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A89703

Included Lab Sample IDs: 2065712, 2065713, 2065718, 2065719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	96.1	94.7	P/P	90 - 110
O-Phosphate-P	96.3	96.1	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A89714

Included Lab Sample IDs: 2065708, 2065709, 2065714

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: SM 2120 B

Run ID: A89716

Included Lab Sample IDs: 2065715

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.7	99.2	P/P	90 - 115

Reference Method: EPA 8321B

Run ID: A89717

Included Lab Sample IDs: 2065731

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	83.9	97.0	P/P	50 - 150
3-Hydroxycarbofuran	119	113	P/P	60 - 150
Acetaminophen	119	122	P/P	60 - 160
Aldicarb	97.5	112	P/P	60 - 150
Aldicarb Sulfone	111	112	P/P	50 - 150
Aldicarb Sulfoxide	106	110	P/P	50 - 150
Bentazon	91.3	92.8	P/P	50 - 160
Carbamazepine	105	106	P/P	60 - 150
Carbaryl	115	111	P/P	60 - 150
Carbofuran	113	115	P/P	50 - 150
Diuron	110	116	P/P	60 - 150
Fenuron	114	113	P/P	60 - 150
Fluridone	113	110	P/P	60 - 160
Hydrocodone	108	111	P/P	60 - 150
Ibuprofen	96.0	96.3	P/P	50 - 160
Imazapyr	100	99.6	P/P	50 - 150
Imidacloprid	97.9	97.6	P/P	60 - 150
Linuron	110	116	P/P	60 - 150
MCPP	88.0	87.7	P/P	50 - 150
Methiocarb	111	109	P/P	50 - 150
Methomyl	118	117	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A89717

Included Lab Sample IDs: 2065731

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naproxen	97.6	103	P/P	50 - 160
Oxamyl	113	109	P/P	50 - 150
Primidone	104	105	P/P	60 - 150
Propoxur	118	118	P/P	50 - 150
Pyraclostrobin	102	101	P/P	60 - 150
Triclopyr	94.7	102	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A89725

Included Lab Sample IDs: 2065710, 2065711, 2065716, 2065717

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A89732

Included Lab Sample IDs: 2065736, 2065737

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	99.0	99.0	P/P	90 - 110
Calcium	101	102	P/P	90 - 110
Iron	98.9	98.9	P/P	90 - 110
Magnesium	98.9	99.3	P/P	90 - 110
Potassium	99.9	99.5	P/P	90 - 110
Sodium	101	101	P/P	90 - 110
Zinc	98.0	98.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A89739

Included Lab Sample IDs: 2065730, 2065731

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	73.0	85.8	P/P	60 - 160
Glufosinate	119	115	P/P	60 - 160
Glyphosate	124	113	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A89751

Included Lab Sample IDs: 2065710, 2065711

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A89761

Included Lab Sample IDs: 2065736, 2065737

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.6	98.9	P/P	90 - 110
Antimony	96.7	98.1	P/P	90 - 110
Arsenic	99.9	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A89761

Included Lab Sample IDs: 2065736, 2065737

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	101	100	P/P	90 - 110
Cadmium	96.6	98.5	P/P	90 - 110
Chromium	100	102	P/P	90 - 110
Copper	104	105	P/P	90 - 110
Lead	101	102	P/P	90 - 110
Nickel	100	102	P/P	90 - 110
Selenium	97.2	98.3	P/P	90 - 110
Silver	95.6	96.3	P/P	90 - 110
Thallium	100	99.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A89762

Included Lab Sample IDs: 2065730, 2065731

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	120	116	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A89772

Included Lab Sample IDs: 2065710, 2065711, 2065716, 2065717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	100	P/P	90 - 110
Kjeldahl Nitrogen	98.2	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A89781

Included Lab Sample IDs: 2065730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	108	86.7	P/P	50 - 150
Acetaminophen	109	115	P/P	60 - 160
Bentazon	112	112	P/P	50 - 160
Carbamazepine	110	106	P/P	60 - 150
Diuron	112	105	P/P	60 - 150
Fenuron	104	104	P/P	60 - 150
Fluridone	108	108	P/P	60 - 160
Hydrocodone	102	108	P/P	60 - 150
Ibuprofen	107	105	P/P	50 - 160
Imazapyr	108	99.5	P/P	50 - 150
Imidacloprid	90.8	95.4	P/P	60 - 150
Linuron	98.9	101	P/P	60 - 150
MCPP	99.0	89.2	P/P	50 - 150
Naproxen	95.3	116	P/P	50 - 160
Primidone	102	94.5	P/P	60 - 150
Pyraclostrobin	105	100	P/P	60 - 150
Triclopyr	93.1	91.8	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A89814

Included Lab Sample IDs: 2065710, 2065711, 2065716, 2065717

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

Reference Method: EPA 8321B

Run ID: A89821

Included Lab Sample IDs: 2065730, 2065731

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	97.0	63.4	P/P	60 - 160
Endothall	101	71.2	P/P	60 - 160

Reference Method: SM 5310 B-00

Run ID: A89824

Included Lab Sample IDs: 2065710, 2065711, 2065716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	91.8	90.4	P/P	90 - 110
Organic Carbon	93.6	91.8	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A89833

Included Lab Sample IDs: 2065732, 2065733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	93.5		P	80 - 120
Alpha-BHC	95.2		P	80 - 120
Alpha-Chlordane	94.9		P	80 - 120
Beta-BHC	95.5		P	80 - 120
Bifenthrin	93.2		P	80 - 120
Carbophenothion	87.9		P	80 - 120
Chlorothalonil	89.7		P	80 - 120
Cis-Nonachlor	93.7		P	80 - 120
Cypermethrin	90.0		P	80 - 120
DDD-p,p'	97.2		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	103		P	80 - 120
Delta-BHC	95.1		P	80 - 120
Dicofol	92.7		P	80 - 120
Dieldrin	95.3		P	80 - 120
Endosulfan I	95.3		P	80 - 120
Endosulfan II	87.4		P	80 - 120
Endosulfan Sulfate	97.7		P	80 - 120
Endrin	96.5		P	80 - 120
Endrin Aldehyde	93.7		P	80 - 120
Endrin Ketone	98.6		P	80 - 120
Ethalfuralin	94.4		P	80 - 120
Gamma-BHC	96.7		P	80 - 120
Gamma-Chlordane	94.9		P	80 - 120
Heptachlor	91.0		P	80 - 120
Heptachlor Epoxide	95.2		P	80 - 120
Hexachlorobenzene	96.1		P	80 - 120
Methoxychlor	96.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A89833

Included Lab Sample IDs: 2065732, 2065733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mirex	97.3		P	80 - 120
Permethrin	89.8		P	80 - 120
Trans-Nonachlor	94.9		P	80 - 120
Trifluralin	93.8		P	80 - 120

Reference Method: EPA 8270D

Run ID: A89854

Included Lab Sample IDs: 2065734, 2065735

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.6		P	80 - 120
Alachlor	100		P	80 - 120
Ametryn	100		P	80 - 120
Atrazine	95.3		P	80 - 120
Atrazine Desethyl	97.7		P	80 - 120
Azinphos Methyl	103		P	80 - 120
Butylate	95.3		P	80 - 120
Chlorpyrifos Ethyl	98.3		P	80 - 120
Chlorpyrifos Methyl	101		P	80 - 120
Cyanazine	89.0		P	80 - 120
Demeton	97.4		P	80 - 120
Diazinon	93.0		P	80 - 120
Dimethenamid	97.8		P	80 - 120
Disulfoton	93.3		P	80 - 120
Dithiopyr	95.3		P	80 - 120
EPTC	96.4		P	80 - 120
Ethion	98.3		P	80 - 120
Ethoprop	100		P	80 - 120
Fenamiphos	94.3		P	80 - 120
Fipronil	95.6		P	80 - 120
Fipronil Desulfinyl	97.3		P	80 - 120
Fipronil Sulfide	96.3		P	80 - 120
Fipronil Sulfone	98.3		P	80 - 120
Fonofos	98.1		P	80 - 120
Hexazinone	99.3		P	80 - 120
Malathion	97.1		P	80 - 120
Metaxyl	98.3		P	80 - 120
Metolachlor	99.7		P	80 - 120
Metribuzin	86.8		P	80 - 120
Mevinphos	103		P	80 - 120
Molinate	95.9		P	80 - 120
Oxadiazon	100		P	80 - 120
Parathion Ethyl	94.9		P	80 - 120
Parathion Methyl	97.5		P	80 - 120
Pendimethalin	93.0		P	80 - 120
Phorate	100		P	80 - 120
Prodiamine	97.9		P	80 - 120
Prometon	97.5		P	80 - 120
Prometryn	97.6		P	80 - 120
Simazine	102		P	80 - 120
Tebuconazole	95.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A89854

Included Lab Sample IDs: 2065734, 2065735

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Terbufos	99.1		P	80 - 120
Terbutylazine	98.7		P	80 - 120

Reference Method: EPA 8276

Run ID: A89856

Included Lab Sample IDs: 2065732, 2065733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.7		P	80 - 120
Toxaphene	98.8		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A89885

Included Lab Sample IDs: 2065708, 2065709, 2065714, 2065715

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

Reference Method: SM 2320 B-97

Run ID: A89907

Included Lab Sample IDs: 2065708, 2065709, 2065714, 2065715

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

Reference Method: SM 4500 F-C-97

Run ID: A89907

Included Lab Sample IDs: 2065708, 2065709, 2065714, 2065715

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

Reference Method: SM 5310 B-00

Run ID: A89919

Included Lab Sample IDs: 2065717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.4	93.5	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A89972

Included Lab Sample IDs: 2065734, 2065735

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	109		P	80 - 120
Norflurazon	106		P	80 - 120
Simazine	105		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A89989

Included Lab Sample IDs: 2065716, 2065717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	102	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			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity							9.66	
EPA 200.7 Rev. 4.4	Barium	104		101	100	101			0.609
	Calcium	103		101	101				2.29
	Iron	107		105	105	105			0.503
	Magnesium	102		101	99.7				2.53
	Potassium	110		104	106	106			0.429
	Sodium	111		101	104	106			1.40
	Zinc	103		102	99.3	100			0.654
EPA 200.8 Rev. 5.4	Aluminum	103		100	101	102			0.688
	Antimony	102		103	103	103			0.322
	Arsenic	108		108	108	108			0.424
	Boron	107		105	105	105			0.191
	Cadmium	104		106	104	106			1.19
	Chromium	105		102	104	105			0.810
	Copper	108		106	105	105			0.254
	Lead	105		104	105	105			0.281
	Nickel	105		102	104	104			0.717
	Selenium	103		54.6	102	103			1.42
	Silver	101		101	103	103			0.165
	Thallium	106		106	106	107			1.02
EPA 300.0 Rev. 2.1	Chloride	103		99.8	102			0.568	
	Sulfate	103		99.4	102			0.906	
EPA 350.1 Rev. 2.0	Ammonia-N	93.1		92.1	98.1				5.62
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102							1.58
EPA 353.2 Rev. 2.0	NO2NO3-N	102		103	102				0.487
EPA 365.1 Rev. 2.0	Total-P	105		96.3	101				2.24
	Total-P	99.0		104	99.2				4.88
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.4		96.5	97.7				1.24
	O-Phosphate-P	96.3		95.0	95.6				0.466
EPA 8270D	Acetochlor	112	109	107	106		2.61		1.28
	Alachlor	109	96.4	106	103		12.0		3.28
	Aldrin	47.6	59.7	68.1	48.8		22.4		32.9
	Alpha-BHC	111	111	121	117		0.0415		3.13
	Alpha-Chlordane	80.4	84.3	88.7	72.3		4.64		20.4
	Ametryn	112	110	102	98.6		1.53		3.84
	Atrazine	103	101	108	119		1.95		10.1
	Atrazine Desethyl	98.8	89.1	89.1	77.1		10.3		14.5
	Azinphos Methyl	96.2	110	133	124		13.2		6.98
	Beta-BHC	142	144	170	171		1.46		0.424
	Bifenthrin	70.9	88.9	94.5	72.8		22.5		25.9
	Bromacil	108	55.0	91.8	88.4		65.1		3.84
	Butylate	84.6	65.3	63.3	48.6		25.8		26.3
	Carbophenothion	82.2	94.2	119	101		13.5		15.9
	Chlorothalonil	112	116	127	47.9		3.82		90.6
	Chlorpyrifos Ethyl	93.8	95.0	88.6	99.9		1.25		12.0
	Chlorpyrifos Methyl	84.6	94.8	92.5	95.3		11.3		2.98
	Cis-Nonachlor	85.1	90.8	91.6	74.2		6.44		21.0
	Cyanazine	99.0	94.0	97.4	109		5.11		11.2
	Cypermethrin	68.8	76.2	85.0	61.5		10.2		32.1
	DDD-p,p'	97.5	102	106	91.4		4.40		15.2
	DDE-p,p'	86.3	84.1	93.4	74.3		2.58		22.8
	DDT-p,p'	96.2	107	108	87.4		10.7		21.4
	Delta-BHC	151	152	181	181		0.738		0.271
	Demeton	80.6	86.5	89.6	90.9		7.02		1.42

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Diazinon	110	98.6	101	102	11.1	1.42
	Dicofol	95.3	97.2	99.9	90.0	1.95	10.4
	Dieldrin	88.9	92.5	93.6	84.9	3.99	9.71
	Dimethenamid	112	101	103	108	10.5	4.83
	Disulfoton	87.8	94.8	97.8	99.0	7.62	1.27
	Dithiopyr	110	97.0	100	101	12.5	1.14
	Endosulfan I	90.3	89.8	96.9	89.8	0.490	7.63
	Endosulfan II	98.5	101	104	96.2	2.66	7.80
	Endosulfan Sulfate	92.6	96.7	106	103	4.36	3.61
	Endrin	99.5	102	106	94.8	2.84	11.3
	Endrin Aldehyde	111	111	100	92.9	0.249	7.44
	Endrin Ketone	92.6	95.2	106	107	2.80	0.126
	EPTC	81.0	72.2	65.1	45.8	11.5	34.8
	Ethalfuralin	86.0	90.0	99.6	79.4	4.51	22.6
	Ethion	103	77.8	49.7	60.1	28.3	19.0
	Ethoprop	104	90.7	100	97.1	13.4	3.38
	Fenamiphos	94.6	86.1	105	78.5	9.40	28.8
	Fipronil	108	84.0	89.5	96.9	25.4	7.95
	Fipronil Desulfinyl	99.4	88.7	73.0	76.3	11.4	4.40
	Fipronil Sulfide	102	82.0	80.9	82.0	22.0	1.30
	Fipronil Sulfone	104	82.7	81.5	92.3	23.0	12.4
	Fonofos	87.6	93.1	96.1	100	6.10	4.35
	Gamma-BHC	130	122	140	141	6.33	0.881
	Gamma-Chlordane	76.7	83.2	84.6	66.6	8.12	23.8
	Heptachlor	58.8	66.9	70.3	54.9	12.8	24.6
	Heptachlor Epoxide	86.1	86.4	92.8	85.9	0.329	7.73
	Hexachlorobenzene	65.8	72.6	77.8	59.4	9.87	26.8
	Hexazinone	130	96.6	91.2	95.0	29.3	4.02
	Malathion	98.5	97.9	92.5	96.9	0.580	4.68
	Metalaxyl	111	98.0	97.4	98.1	12.6	0.716
	Methoxychlor	100	91.9	117	98.0	8.65	18.1
	Metolachlor	112	103	109	110	7.93	1.24
	Metribuzin	86.2	145	149	150	51.1	0.341
	Mevinphos	94.7	88.9	82.6	91.0	6.32	9.75
	Mirex	44.8	55.8	60.0	40.1	22.0	39.9
	Molinate	84.4	76.6	85.2	75.0	9.68	12.8
	Norflurazon	105	85.6	97.4	98.2	20.8	0.794
	Oxadiazon	113	95.8	88.6	90.4	16.1	2.01
	Parathion Ethyl	90.5	91.0	88.9	92.9	0.577	4.37
	Parathion Methyl	96.6	117	120	124	18.7	2.71
	Pendimethalin	88.6	93.6	71.9	71.8	5.45	0.106
	Permethrin	68.0	78.5	82.6	58.6	14.4	34.0
	Phorate	81.6	89.4	96.7	91.8	9.09	5.18
	Prodiamine	93.6	91.8	89.6	80.9	1.90	10.2
	Prometon	107	83.6	85.0	81.5	24.5	4.14
	Prometryn	107	94.7	88.1	88.0	12.5	0.0766
	Simazine	101	105	105	111	4.64	6.05
	Tebuconazole	100	73.9	64.3	72.1	30.1	11.4
	Terbufos	89.7	91.5	99.4	99.0	2.01	0.389
	Terbuthylazine	106	98.0	96.9	98.5	7.93	1.62
	Trans-Nonachlor	75.9	82.8	85.7	66.3	8.76	25.5
	Trifluralin	83.4	90.1	97.6	76.4	7.71	24.4
EPA 8276	Chlordane	86.0	75.8	83.1	80.0	12.6	3.87
	Toxaphene	62.4	63.3	59.0	59.8	1.49	1.37

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	2,4-D	75.0	72.2	81.1			9.41
	3-Hydroxycarbofuran	89.7	83.0	79.1			4.81
	Acesulfame K	107	65.7	66.2			0.768
	Acetaminophen	97.0	92.9	97.5			4.84
	Aldicarb	77.6	79.6	62.2			24.5
	Aldicarb Sulfone	111	107	102			4.73
	Aldicarb Sulfoxide	108	80.6	77.1			4.48
	AMPA	67.9	37.3	48.7			17.5
	Bentazon	99.5	60.8	62.8			3.04
	Carbamazepine	86.0	64.4	62.1			3.66
	Carbaryl	82.5	49.7	52.1			4.71
	Carbofuran	80.1	49.6	52.6			5.98
	Diuron	84.3	43.7	42.2			1.31
	Endothall	104	99.6	110			9.78
	Fenuron	158	93.0	78.9			16.5
	Fluridone	112	89.6	84.6			3.61
	Glufosinate	112	75.1	72.6			3.37
	Glyphosate	105	63.6	87.0			22.2
	Hydrocodone	107	85.8	85.3			0.560
	Ibuprofen	77.0	57.4	48.5			16.8
	Imazapyr	104	95.2	97.5			1.80
	Imidacloprid	102	128	120			1.79
	Linuron	87.0	57.4	52.7			8.44
	MCPP	83.4	97.3	107			9.20
	Methiocarb	73.2	44.5	51.5			14.6
	Methomyl	97.9	71.1	67.4			5.31
	Naproxen	62.2	48.7	50.1			2.87
	Oxamyl	111	92.4	87.6			5.32
	Primidone	103	84.5	81.9			3.18
	Propoxur	76.6	46.9	49.8			6.09
	Pyraclostrobin	75.9	57.8	28.7			67.2
	Sucralose	107	120	109			8.43
	Triclopyr	53.7	47.6	50.7			6.23
SM 2120 B	Color (true)	102				2.14	
	Color (true)	103				1.96	
SM 2320 B-97	Total Alkalinity	102				0.576	
SM 2540 C-97	TDS					5.73	
	TDS					4.71	
SM 4500 F-C-97	Fluoride	94.8	101	101			0.0
SM 5310 B-00	Organic Carbon	94.1	93.4	96.2			1.59
	Organic Carbon	96.6	95.2	95.5			0.267

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2065708, 2065709, 2065714, 2065715
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2065736, 2065737
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2065736, 2065737
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2065708, 2065709, 2065714, 2065715

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2065708, 2065709, 2065714, 2065715
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2065710, 2065711, 2065716, 2065717
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2065710, 2065711, 2065716, 2065717
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2065710, 2065711, 2065716, 2065717
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2065710, 2065711, 2065716, 2065717
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2065712, 2065713, 2065718, 2065719
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2065732, 2065733
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2065734, 2065735
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2065732, 2065733
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2065728, 2065729
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2065730, 2065731
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2065730, 2065731
SM 2120 B / E31780	True Color measured at 450 nm	2065708, 2065709, 2065714, 2065715
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2065708, 2065709, 2065714, 2065715
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2065708, 2065709, 2065714, 2065715
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2065708, 2065709, 2065714, 2065715
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2065708, 2065709, 2065714, 2065715
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2065710, 2065711, 2065716, 2065717

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	02/27/2019			02/27/2019 17:05	Adrian Shelby	2065708, 2065709, 2065714, 2065715
EPA 200.7 Rev. 4.4	02/27/2019	02/27/2019 16:15	Elliott D. Healy	02/28/2019 17:35	Betina Topolski	2065736
	02/27/2019	02/27/2019 16:15	Elliott D. Healy	02/28/2019 17:39	Betina Topolski	2065737
EPA 200.8 Rev. 5.4	02/27/2019	02/27/2019 16:15	Elliott D. Healy	03/01/2019 20:35	Allison Taylor	2065736
	02/27/2019	02/27/2019 16:15	Elliott D. Healy	03/01/2019 20:45	Allison Taylor	2065737
EPA 300.0 Rev. 2.1	02/27/2019			03/08/2019 23:32	Lipi Saha	2065714
	02/27/2019			03/09/2019 02:59	Lipi Saha	2065708
	02/27/2019			03/09/2019 03:13	Lipi Saha	2065709
	02/27/2019			03/09/2019 03:28	Lipi Saha	2065715
EPA 350.1 Rev. 2.0	02/27/2019			03/05/2019 12:51	Ping Hua	2065710
	02/27/2019			03/05/2019 12:52	Ping Hua	2065711
	02/27/2019			03/05/2019 12:54	Ping Hua	2065716
	02/27/2019			03/05/2019 12:55	Ping Hua	2065717
EPA 351.2 Rev. 2.0	02/27/2019	03/01/2019 14:15	Adrian Shelby	03/04/2019 13:28	Joseph Suarez	2065710
	02/27/2019	03/01/2019 14:15	Adrian Shelby	03/04/2019 13:33	Joseph Suarez	2065711
	02/27/2019	03/01/2019 14:15	Adrian Shelby	03/04/2019 13:37	Joseph Suarez	2065716
	02/27/2019	03/01/2019 14:15	Adrian Shelby	03/04/2019 13:39	Joseph Suarez	2065717
EPA 353.2 Rev. 2.0	02/27/2019			02/28/2019 12:23	Beverly Y. Sanders	2065710
	02/27/2019			02/28/2019 12:30	Beverly Y. Sanders	2065711
	02/27/2019			02/28/2019 12:31	Beverly Y. Sanders	2065716
	02/27/2019			02/28/2019 12:32	Beverly Y. Sanders	2065717
EPA 365.1 Rev. 2.0	02/27/2019	02/28/2019 13:00	Sima Feizi	03/01/2019 15:20	Rosalyn Ballman	2065710
	02/27/2019	02/28/2019 13:00	Sima Feizi	03/01/2019 15:22	Rosalyn Ballman	2065711
	02/27/2019	03/08/2019 12:35	Sima Feizi	03/13/2019 15:16	Rosalyn Ballman	2065716
	02/27/2019	03/08/2019 12:35	Sima Feizi	03/13/2019 15:17	Rosalyn Ballman	2065717
EPA 365.1 Rev. 2.0 dissolved	02/27/2019			02/27/2019 13:51	Jhamieka S. Greenwood	2065713
	02/27/2019			02/27/2019 13:52	Jhamieka S. Greenwood	2065718
	02/27/2019			02/27/2019 14:03	Jhamieka S. Greenwood	2065712
	02/27/2019			02/27/2019 14:07	Jhamieka S. Greenwood	2065719
EPA 8270D	02/27/2019	03/04/2019 08:30	Rasheda Ghaffari	03/06/2019 16:37	Vandana T. Nagar	2065734
	02/27/2019	03/04/2019 08:30	Rasheda Ghaffari	03/06/2019 17:01	Vandana T. Nagar	2065735
	02/27/2019	03/04/2019 08:30	Rasheda Ghaffari	03/07/2019 13:19	Vandana T. Nagar	2065734
	02/27/2019	03/04/2019 08:30	Rasheda Ghaffari	03/07/2019 14:55	Vandana T. Nagar	2065735
	02/27/2019	03/04/2019 09:00	Fe-Val Siddell	03/05/2019 20:40	Dinesh Mishra	2065732
	02/27/2019	03/04/2019 09:00	Fe-Val Siddell	03/05/2019 21:12	Dinesh Mishra	2065733
EPA 8276	02/27/2019	03/04/2019 09:00	Fe-Val Siddell	03/06/2019 08:53	Arthur Maknenko	2065732
	02/27/2019	03/04/2019 09:00	Fe-Val Siddell	03/06/2019 09:48	Arthur Maknenko	2065733
EPA 8321B	02/27/2019	02/28/2019 10:00	Hoor Shaik	02/28/2019 17:13	Juyoung Kim	2065728
	02/27/2019	02/28/2019 10:00	Hoor Shaik	02/28/2019 17:48	Juyoung Kim	2065729
	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/01/2019 06:29	Juyoung Kim	2065731

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/04/2019 23:11	Juyoung Kim	2065730
	02/27/2019	02/28/2019 14:00	Rebecca Ware	02/28/2019 21:18	Rebecca Ware	2065730
	02/27/2019	02/28/2019 14:00	Rebecca Ware	02/28/2019 21:29	Rebecca Ware	2065731
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/01/2019 22:52	Rebecca Ware	2065730
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/01/2019 23:05	Rebecca Ware	2065731
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/03/2019 04:36	Mohammad Ghaffari	2065730
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/03/2019 04:49	Mohammad Ghaffari	2065731
	02/27/2019			02/27/2019 16:40	Chelsea Hernandez	2065708
SM 2120 B	02/27/2019			02/27/2019 16:41	Chelsea Hernandez	2065709
	02/27/2019			02/27/2019 16:49	Chelsea Hernandez	2065714
	02/27/2019			02/27/2019 17:45	Chelsea Hernandez	2065715
	02/27/2019			03/07/2019 23:08	Dale L. Simmons	2065708
SM 2320 B-97	02/27/2019			03/07/2019 23:20	Dale L. Simmons	2065709
	02/27/2019			03/07/2019 23:33	Dale L. Simmons	2065714
	02/27/2019			03/07/2019 23:45	Dale L. Simmons	2065715
	02/27/2019			03/01/2019 15:19	Yijie Li	2065708, 2065709, 2065714, 2065715
SM 2540 C-97	02/27/2019			03/01/2019 15:19	Yijie Li	2065708, 2065709, 2065714, 2065715
SM 2540 D-97	02/27/2019			03/07/2019 23:08	Dale L. Simmons	2065708
SM 4500 F-C-97	02/27/2019			03/07/2019 23:20	Dale L. Simmons	2065709
	02/27/2019			03/07/2019 23:33	Dale L. Simmons	2065714
	02/27/2019			03/07/2019 23:45	Dale L. Simmons	2065715
	02/27/2019			03/05/2019 04:13	Chelsea Hernandez	2065710
SM 5310 B-00	02/27/2019			03/05/2019 05:18	Chelsea Hernandez	2065711
	02/27/2019			03/05/2019 06:44	Chelsea Hernandez	2065716
	02/27/2019			03/08/2019 05:40	Julia Storbeck	2065717
	02/27/2019					