

Chemical Analysis Report

CEN-DIST-2020-03-03-01

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

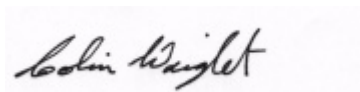
Event Description: **Baldwin Outfall / Leonore + D&B**
Request ID: **RQ-2020-03-02-60**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 27-MAR-2020 08:17

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

Case Narrative

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

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

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

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

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited 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: Lake Leonore @ Center

Collection Date/Time: 03/02/2020 14:15

Field ID: G4CE0184

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2161795	EPA 180.1 Rev. 2.0	Turbidity	14	A	NTU	P380009	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P380342	
		Sulfate	60		mg SO4/L	P380344	
	SM 2120 B-2011	Color (true)	18	A	PCU	P380004	
	SM 2320 B-2011	Total Alkalinity	43		mg CaCO3/L	P380270	
	SM 2540 C-2011	TDS	179		mg/L	P380543	
	SM 2540 D-2011	TSS	14		mg/L	P380424	
	SM 4500 F-C-2011	Fluoride	0.062	I	mg F/L	P380274	
2161796	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P380605	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P380114	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.2		mg N/L	P380284	
	EPA 365.1 Rev. 2.0	Total-P	0.036		mg P/L	P380307	
	SM 5310 B-2011	Organic Carbon	7.6		mg C/L	P380276	
2161797	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	I J	mg P/L	P379983	MS
2161805	EPA 8321B	Aldicarb	0.020	U	ug/L	P379970	
		Aldicarb Sulfone	0.0087		ug/L	P379970	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P379970	
		Carbaryl	0.0020	U	ug/L	P379970	
		Carbofuran	0.0020	U	ug/L	P379970	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P379970	
		Methiocarb	0.0020	U	ug/L	P379970	
		Methomyl	0.0020	U	ug/L	P379970	
		Oxamyl	0.012		ug/L	P379970	
		Propoxur	0.0020	U	ug/L	P379970	
2161806		2,4-D	0.0020	U	ug/L	P380128	
		Acesulfame K**	0.10	U	ug/L	P379958	MS
		AMPA**	0.10	U	ug/L	P379958	
		Sucralose**	0.010	U	ug/L	P379958	
		Acetaminophen**	0.0080	U	ug/L	P380128	
		Acetamidiprid**	0.0020	U	ug/L	P380128	
		Endothall**	0.25	U	ug/L	P379958	MS
		Glufosinate**	0.10	U	ug/L	P379958	
		Glyphosate**	0.10	U	ug/L	P379958	MS
		Afidopyropen**	0.0020	UJ	ug/L	P380128	
		Bentazon	8.0E-04	U	ug/L	P380128	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P380128	
		Carbamazepine**	8.0E-04	U	ug/L	P380128	
		Clothianidin**	0.014		ug/L	P380128	
		Dinotefuran**	0.0020	U	ug/L	P380128	
		Diuron	0.0053	I	ug/L	P380128	
		Fenuron	0.016	U	ug/L	P380128	
		Fluridone**	8.0E-04	U	ug/L	P380128	
		Imazapyr**	0.0040	U	ug/L	P380128	

Field ID: G4CE0184

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2161806	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P380128	
		Ibuprofen**	0.020	U	ug/L	P380128	
		Imidacloprid	0.14		ug/L	P380128	
		Linuron	0.0040	U	ug/L	P380128	
		Mandestrobin**	0.0020	UJ	ug/L	P380128	
		MCP	0.0020	U	ug/L	P380128	
		Naproxen**	0.0080	U	ug/L	P380128	RPD
		Primidone**	0.0040	U	ug/L	P380128	
		Pyraclostrobin**	0.0020	U	ug/L	P380128	
		Thiamethoxam**	0.054		ug/L	P380128	
		Tolfenpyrad**	0.0020	U	ug/L	P380128	
		Triclopyr**	0.0040	U	ug/L	P380128	
2161811	EPA 8270E	Aldrin	4.2	U	ng/L	P379957	
		Alpha-BHC	2.1	U	ng/L	P379957	
		Alpha-Chlordane	1.1	U	ng/L	P379957	
		Beta-BHC	11	U	ng/L	P379957	
		Beta-Cyfluthrin**	16	U	ng/L	P379957	
		Bifenthrin**	4.2	U	ng/L	P379957	
		Delta-BHC	8.4	U	ng/L	P379957	MS
		Gamma-BHC	8.4	U	ng/L	P379957	
		Carbophenothion	11	U	ng/L	P379957	
		Chlorothalonil	2.1	U	ng/L	P379957	
		Cis-Nonachlor**	1.1	U	ng/L	P379957	
		Cypermethrin	21	U	ng/L	P379957	
		Dacthal**	1.1	U	ng/L	P379957	
		DDD-p,p'	6.3	U	ng/L	P379957	
		DDE-p,p'	6.3	U	ng/L	P379957	
		DDT-p,p'	7.4	U	ng/L	P379957	
		Dicofol	32	U	ng/L	P379957	
		Dieldrin	4.2	U	ng/L	P379957	
		Endosulfan I	4.2	U	ng/L	P379957	
		Endosulfan II	4.2	U	ng/L	P379957	
		Endosulfan Sulfate	2.1	U	ng/L	P379957	
		Endrin	2.1	U	ng/L	P379957	
		Endrin Aldehyde	2.1	U	ng/L	P379957	
		Endrin Ketone	2.1	U	ng/L	P379957	
		Ethalfuralin**	3.2	U	ng/L	P379957	
		Gamma-Chlordane	1.1	U	ng/L	P379957	
		Heptachlor	1.6	U	ng/L	P379957	
		Heptachlor Epoxide	2.1	U	ng/L	P379957	
		Hexachlorobenzene	2.1	U	ng/L	P379957	
		Lambda-Cyhalothrin**	16	U	ng/L	P379957	
		Methoxychlor	4.2	U	ng/L	P379957	
		Mirex	2.1	U	ng/L	P379957	
		Permethrin	11	U	ng/L	P379957	

Field ID: G4CE0184

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2161811	EPA 8270E	Phenothrin**	32	U	ng/L	P379957	
		Prallethrin**	32	U	ng/L	P379957	
		Trans-Nonachlor**	1.1	U	ng/L	P379957	
		Trifluralin	2.6	U	ng/L	P379957	
	EPA 8276	Chlordane	5.3	U	ng/L	P379957	
		Toxaphene	32	U	ng/L	P379957	
2161812	EPA 8270E	Acetochlor	0.26	UQ	ng/L	P380780	
		Alachlor	0.26	UQ	ng/L	P380780	
		Ametryn	0.62	UQ	ng/L	P380780	
		Atrazine	2.6	Q	ng/L	P380780	
		Atrazine Desethyl	1.5	UQ	ng/L	P380780	
		Azinphos Methyl	2.1	UQ	ng/L	P380780	
		Bromacil	610	Q	ng/L	P380780	
		Butylate	0.41	UQ	ng/L	P380780	
		Carbophenothion	0.51	UQ	ng/L	P380780	
		Chlorpyrifos Ethyl	0.26	UQ	ng/L	P380780	
		Chlorpyrifos Methyl	0.051	UQ	ng/L	P380780	
		Cyanazine	3.3	UQJ	ng/L	P380780	RPD
		Demeton	1.5	UQ	ng/L	P380780	
		Diazinon	0.13	UQ	ng/L	P380780	
		Dimethenamid**	0.10	UQJ	ng/L	P380780	MS, RPD
		Disulfoton	0.51	UQ	ng/L	P380780	
		Dithiopyr**	0.10	UQJ	ng/L	P380780	MS
		EPTC	1.3	UQJ	ng/L	P380780	RPD
		Ethion	0.15	UQJ	ng/L	P380780	LCS, MS, RPD
		Ethoprop	0.10	UQ	ng/L	P380780	
		Fenamiphos	0.51	UQ	ng/L	P380780	
		Fipronil	0.26	UQ	ng/L	P380780	
		Fipronil Desulfinyl**	0.13	UQ	ng/L	P380780	
		Fipronil Sulfide	0.15	UQ	ng/L	P380780	
		Fipronil Sulfone	0.15	UQ	ng/L	P380780	
		Flumioxazin**	1.8	UQJ	ng/L	P380780	RPD
		Fonofos	0.21	UQ	ng/L	P380780	
		Hexazinone	0.51	UQ	ng/L	P380780	
		Imazalil**	0.77	UQ	ng/L	P380780	
		Malathion	0.36	UQ	ng/L	P380780	
		Metalaxyl	94	Q	ng/L	P380780	
		Metolachlor	0.51	UQ	ng/L	P380780	
		Metribuzin	3.3	UQ	ng/L	P380780	
		Mevinphos	0.51	UQ	ng/L	P380780	
		Molinate	0.31	UQ	ng/L	P380780	
		Naled**	1.5	UQ	ng/L	P380780	
		Norflurazon	1.1E+03	Q	ng/L	P380780	
		Oxadiazon**	0.10	UQ	ng/L	P380780	

Field ID: G4CE0184

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2161812	EPA 8270E	Parathion Ethyl	0.26	UQ	ng/L	P380780	
		Parathion Methyl	0.57	UQ	ng/L	P380780	
		Pendimethalin	1.0	UQ	ng/L	P380780	
		Phorate	0.26	UQ	ng/L	P380780	
		Prodiamine**	0.18	UQJ	ng/L	P380780	RPD
		Prometon	0.92	UQ	ng/L	P380780	
		Prometryn	0.21	UQ	ng/L	P380780	
		Pronamide**	0.15	UQ	ng/L	P380780	
		Propiconazole**	0.51	UQ	ng/L	P380780	
		Simazine	8.7	Q	ng/L	P380780	
		Sulfentrazone**	0.51	UQ	ng/L	P380780	
		Tebuconazole**	0.51	UQJ	ng/L	P380780	MS, RPD
		Terbufos	0.10	UQ	ng/L	P380780	
		Terbuthylazine	0.44	UQ	ng/L	P380780	
2161817	EPA 200.7 Rev. 4.4	Barium	33.7		ug/L	P380202	
		Calcium	24.8		mg/L	P380202	
		Iron	33	I	ug/L	P380202	
		Magnesium	13.7		mg/L	P380202	
		Potassium	16.8		mg/L	P380202	
		Sodium	6.9		mg/L	P380202	
		Zinc	5.0	U	ug/L	P380202	
	EPA 200.8 Rev. 5.4	Aluminum	85		ug/L	P380202	
		Antimony	0.054	I	ug/L	P380202	
		Arsenic	0.18	I	ug/L	P380202	
		Boron**	56.6		ug/L	P380202	
		Cadmium	0.028	I	ug/L	P380202	
		Chromium	0.40	U	ug/L	P380202	
		Copper	0.68	I	ug/L	P380202	
		Lead	0.20	U	ug/L	P380202	
		Nickel	0.50	U	ug/L	P380202	
		Selenium	0.43	I	ug/L	P380202	
		Silver	0.010	U	ug/L	P380202	
		Thallium	0.10	U	ug/L	P380202	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8321B: J - second source check standards for some analytes were not available for analysis. MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample. Results confirmed in re-extraction.

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Sample expired due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Lake Leonore @ Center

Collection Date/Time: 03/02/2020 14:21

Field ID: G4CE0184_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2161798	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P380009	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P380342	
		Sulfate	60		mg SO4/L	P380344	
	SM 2120 B-2011	Color (true)	18		PCU	P380004	
	SM 2320 B-2011	Total Alkalinity	41		mg CaCO3/L	P380270	
	SM 2540 C-2011	TDS	187		mg/L	P380543	
	SM 2540 D-2011	TSS	14		mg/L	P380424	
	SM 4500 F-C-2011	Fluoride	0.066	I	mg F/L	P380274	
2161800	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P380605	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P380114	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.2		mg N/L	P380284	
	EPA 365.1 Rev. 2.0	Total-P	0.037		mg P/L	P380307	
	SM 5310 B-2011	Organic Carbon	7.2		mg C/L	P380276	
2161802	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P379983	MS
2161807	EPA 8321B	Aldicarb	0.020	U	ug/L	P379970	
		Aldicarb Sulfone	0.0086		ug/L	P379970	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P379970	
		Carbaryl	0.0020	U	ug/L	P379970	
		Carbofuran	0.0020	U	ug/L	P379970	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P379970	
		Methiocarb	0.0020	U	ug/L	P379970	
		Methomyl	0.0020	U	ug/L	P379970	
		Oxamyl	0.011		ug/L	P379970	
		Propoxur	0.0020	U	ug/L	P379970	
2161809		2,4-D	0.0020	U	ug/L	P380128	
		Acesulfame K**	0.10	U	ug/L	P379958	MS
		AMPA**	0.10	U	ug/L	P379958	
		Sucralose**	0.010	U	ug/L	P379958	
		Acetaminophen**	0.0080	U	ug/L	P380128	
		Acetamidiprid**	0.0020	U	ug/L	P380128	
		Endothall**	0.25	U	ug/L	P379958	MS
		Glufosinate**	0.10	U	ug/L	P379958	
		Glyphosate**	0.10	U	ug/L	P379958	MS
		Afidopyrophen**	0.0020	UJ	ug/L	P380128	
		Bentazon	8.0E-04	U	ug/L	P380128	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P380128	
		Carbamazepine**	8.0E-04	U	ug/L	P380128	
		Clothianidin**	0.017		ug/L	P380128	
		Dinotefuran**	0.0020	U	ug/L	P380128	
		Diuron	0.0061	I	ug/L	P380128	
		Fenuron	0.016	U	ug/L	P380128	
		Fluridone**	8.0E-04	U	ug/L	P380128	
		Imazapyr**	0.0040	U	ug/L	P380128	

Field ID: G4CE0184_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2161809	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P380128	
		Ibuprofen**	0.020	U	ug/L	P380128	
		Imidacloprid	0.19		ug/L	P380128	
		Linuron	0.0040	U	ug/L	P380128	
		Mandestrobin**	0.0020	UJ	ug/L	P380128	
		MCP	0.0020	U	ug/L	P380128	
		Naproxen**	0.0080	U	ug/L	P380128	RPD
		Primidone**	0.0040	U	ug/L	P380128	
		Pyraclostrobin**	0.0020	U	ug/L	P380128	
		Thiamethoxam**	0.064		ug/L	P380128	
		Tolfenpyrad**	0.0020	U	ug/L	P380128	
		Triclopyr**	0.0040	U	ug/L	P380128	
2161813	EPA 8270E	Aldrin	4.4	U	ng/L	P379957	
		Alpha-BHC	2.2	U	ng/L	P379957	
		Alpha-Chlordane	1.1	U	ng/L	P379957	
		Beta-BHC	11	U	ng/L	P379957	
		Beta-Cyfluthrin**	17	U	ng/L	P379957	
		Bifenthrin**	4.4	U	ng/L	P379957	
		Delta-BHC	8.8	U	ng/L	P379957	MS
		Gamma-BHC	8.8	U	ng/L	P379957	
		Carbophenothion	11	U	ng/L	P379957	
		Chlorothalonil	2.2	U	ng/L	P379957	
		Cis-Nonachlor**	1.1	U	ng/L	P379957	
		Cypermethrin	22	U	ng/L	P379957	
		Dacthal**	1.1	U	ng/L	P379957	
		DDD-p,p'	6.6	U	ng/L	P379957	
		DDE-p,p'	6.6	U	ng/L	P379957	
		DDT-p,p'	7.7	U	ng/L	P379957	
		Dicofol	33	U	ng/L	P379957	
		Dieldrin	4.4	U	ng/L	P379957	
		Endosulfan I	4.4	U	ng/L	P379957	
		Endosulfan II	4.4	U	ng/L	P379957	
		Endosulfan Sulfate	2.2	U	ng/L	P379957	
		Endrin	2.2	U	ng/L	P379957	
		Endrin Aldehyde	2.2	U	ng/L	P379957	
		Endrin Ketone	2.2	U	ng/L	P379957	
		Ethalfuralin**	3.3	U	ng/L	P379957	
		Gamma-Chlordane	1.1	U	ng/L	P379957	
		Heptachlor	1.7	U	ng/L	P379957	
		Heptachlor Epoxide	2.2	U	ng/L	P379957	
		Hexachlorobenzene	2.2	U	ng/L	P379957	
		Lambda-Cyhalothrin**	17	U	ng/L	P379957	
		Methoxychlor	4.4	U	ng/L	P379957	
		Mirex	2.2	U	ng/L	P379957	
		Permethrin	11	U	ng/L	P379957	

Field ID: G4CE0184_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2161813	EPA 8270E	Phenothrin**	33	U	ng/L	P379957	
		Prallethrin**	33	U	ng/L	P379957	
		Trans-Nonachlor**	1.1	U	ng/L	P379957	
		Trifluralin	2.8	U	ng/L	P379957	
		Chlordane	5.5	U	ng/L	P379957	
		Toxaphene	33	U	ng/L	P379957	
2161815	EPA 8270E	Acetochlor	0.24	UQ	ng/L	P380780	
		Alachlor	0.24	UQ	ng/L	P380780	
		Ametryn	0.59	UQ	ng/L	P380780	
		Atrazine	2.5	Q	ng/L	P380780	
		Atrazine Desethyl	1.5	UQ	ng/L	P380780	
		Azinphos Methyl	2.0	UQ	ng/L	P380780	
		Bromacil	630	Q	ng/L	P380780	
		Butylate	0.39	UQ	ng/L	P380780	
		Carbophenothion	0.49	UQ	ng/L	P380780	
		Chlorpyrifos Ethyl	0.27	IQ	ng/L	P380780	
		Chlorpyrifos Methyl	0.049	UQ	ng/L	P380780	
		Cyanazine	3.2	UQ	ng/L	P380780	RPD
		Demeton	1.5	UQ	ng/L	P380780	
		Diazinon	0.12	UQ	ng/L	P380780	
		Dimethenamid**	0.098	UQ	ng/L	P380780	MS, RPD
		Disulfoton	0.49	UQ	ng/L	P380780	
		Dithiopyr**	0.098	UQ	ng/L	P380780	MS
		EPTC	1.2	UQJ	ng/L	P380780	RPD
		Ethion	0.15	UQJ	ng/L	P380780	LCS, MS, RPD
		Ethoprop	0.098	UQ	ng/L	P380780	
		Fenamiphos	0.49	UQ	ng/L	P380780	
		Fipronil	0.24	UQ	ng/L	P380780	
		Fipronil Desulfinyl**	0.12	UQ	ng/L	P380780	
		Fipronil Sulfide	0.15	UQ	ng/L	P380780	
		Fipronil Sulfone	0.15	UQ	ng/L	P380780	
		Flumioxazin**	1.7	UQJ	ng/L	P380780	RPD
		Fonofos	0.20	UQ	ng/L	P380780	
		Hexazinone	0.49	UQ	ng/L	P380780	
		Imazalil**	0.73	UQ	ng/L	P380780	
		Malathion	0.34	UQ	ng/L	P380780	
		Metalaxyl	87	Q	ng/L	P380780	
		Metolachlor	0.49	UQ	ng/L	P380780	
		Metribuzin	3.2	UQ	ng/L	P380780	
		Mevinphos	0.49	UQ	ng/L	P380780	
		Molinate	0.29	UQ	ng/L	P380780	
		Naled**	1.5	UQ	ng/L	P380780	
		Norflurazon	1.3E+03	Q	ng/L	P380780	
		Oxadiazon**	0.098	UQ	ng/L	P380780	

Field ID: G4CE0184_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2161815	EPA 8270E	Parathion Ethyl	0.24	UQ	ng/L	P380780	RPD
		Parathion Methyl	0.54	UQ	ng/L	P380780	
		Pendimethalin	0.98	UQ	ng/L	P380780	
		Phorate	0.24	UQ	ng/L	P380780	
		Prodiamine**	0.17	UQ	ng/L	P380780	
		Prometon	0.88	UQ	ng/L	P380780	
		Prometryn	0.20	UQ	ng/L	P380780	
		Pronamide**	0.15	UQ	ng/L	P380780	
		Propiconazole**	0.49	UQ	ng/L	P380780	
		Simazine	8.2	Q	ng/L	P380780	
		Sulfentrazone**	0.49	UQ	ng/L	P380780	
		Tebuconazole**	0.49	UQ	ng/L	P380780	
		Terbufos	0.098	UQ	ng/L	P380780	
		Terbutylazine	0.42	UQ	ng/L	P380780	
2161818	EPA 200.7 Rev. 4.4	Barium	32.5		ug/L	P380202	MS, RPD
		Calcium	24.1		mg/L	P380202	
		Iron	38	I	ug/L	P380202	
		Magnesium	13.6		mg/L	P380202	
		Potassium	16.5		mg/L	P380202	
		Sodium	6.7		mg/L	P380202	
		Zinc	5.0	U	ug/L	P380202	
	EPA 200.8 Rev. 5.4	Aluminum	89		ug/L	P380202	
		Antimony	0.053	I	ug/L	P380202	
		Arsenic	0.17	I	ug/L	P380202	
		Boron**	56.1		ug/L	P380202	
		Cadmium	0.027	I	ug/L	P380202	
		Chromium	0.40	U	ug/L	P380202	
		Copper	0.58	I	ug/L	P380202	
		Lead	0.20	U	ug/L	P380202	
		Nickel	0.50	U	ug/L	P380202	
		Selenium	0.46	I	ug/L	P380202	
		Silver	0.010	U	ug/L	P380202	
		Thallium	0.10	U	ug/L	P380202	

Ref. Method and Comment:

SM 2540 D-2011: 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 imazapyr could not be assessed due to high concentration of parameter in the spiked sample. Results confirmed in re-extraction.

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Sample expired due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB_03022020

Collection Date/Time: 03/02/2020 14:46

Field ID: FB-03022020

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2161799	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P380009	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P380342	
		Sulfate	0.20	U	mg SO4/L	P380344	
	SM 2120 B-2011	Color (true)	2.5	U	PCU	P380003	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P380270	
	SM 2540 C-2011	TDS	15	U	mg/L	P380540	
	SM 2540 D-2011	TSS	2	U	mg/L	P380421	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P380274	
2161801	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P380605	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P380114	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P380284	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P380307	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P380276	
2161803	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P379983	MS
2161808	EPA 8321B	Aldicarb	0.020	U	ug/L	P379970	
		Aldicarb Sulfone	0.0020	U	ug/L	P379970	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P379970	
		Carbaryl	0.0020	U	ug/L	P379970	
		Carbofuran	0.0020	U	ug/L	P379970	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P379970	
		Methiocarb	0.0020	U	ug/L	P379970	
		Methomyl	0.0020	U	ug/L	P379970	
		Oxamyl	0.0020	U	ug/L	P379970	
		Propoxur	0.0020	U	ug/L	P379970	
2161810		2,4-D	0.0020	U	ug/L	P380128	
		Acesulfame K**	0.10	U	ug/L	P379958	MS
		AMPA**	0.10	U	ug/L	P379958	
		Sucralose**	0.010	U	ug/L	P379958	
		Acetaminophen**	0.0080	U	ug/L	P380128	
		Acetamidiprid**	0.0020	U	ug/L	P380128	
		Endothall**	0.25	U	ug/L	P379958	MS
		Glufosinate**	0.10	U	ug/L	P379958	
		Glyphosate**	0.10	U	ug/L	P379958	MS
		Afidopypropen**	0.0020	UJ	ug/L	P380128	
		Bentazon	8.0E-04	U	ug/L	P380128	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P380128	
		Carbamazepine**	8.0E-04	U	ug/L	P380128	
		Clothianidin**	0.0020	U	ug/L	P380128	
		Dinotefuran**	0.0020	U	ug/L	P380128	
		Diuron	0.0020	U	ug/L	P380128	
		Fenuron	0.016	U	ug/L	P380128	
		Fluridone**	8.0E-04	U	ug/L	P380128	
		Imazapyr**	0.0040	U	ug/L	P380128	

Field ID: FB-03022020

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2161810	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P380128	
		Ibuprofen**	0.020	U	ug/L	P380128	
		Imidacloprid	0.0020	U	ug/L	P380128	
		Linuron	0.0040	U	ug/L	P380128	
		Mandestrobin**	0.0020	UJ	ug/L	P380128	
		MCP	0.0020	U	ug/L	P380128	
		Naproxen**	0.0080	U	ug/L	P380128	RPD
		Primidone**	0.0040	U	ug/L	P380128	
		Pyraclostrobin**	0.0020	U	ug/L	P380128	
		Thiamethoxam**	0.0020	U	ug/L	P380128	
		Tolfenpyrad**	0.0020	U	ug/L	P380128	
		Triclopyr**	0.0040	U	ug/L	P380128	
2161814	EPA 8270E	Aldrin	4.4	U	ng/L	P379957	
		Alpha-BHC	2.2	U	ng/L	P379957	
		Alpha-Chlordane	1.1	U	ng/L	P379957	
		Beta-BHC	11	U	ng/L	P379957	
		Beta-Cyfluthrin**	16	U	ng/L	P379957	
		Bifenthrin**	4.4	U	ng/L	P379957	
		Delta-BHC	8.8	U	ng/L	P379957	MS
		Gamma-BHC	8.8	U	ng/L	P379957	
		Carbophenothion	11	U	ng/L	P379957	
		Chlorothalonil	2.2	U	ng/L	P379957	
		Cis-Nonachlor**	1.1	U	ng/L	P379957	
		Cypermethrin	22	U	ng/L	P379957	
		Dacthal**	1.1	U	ng/L	P379957	
		DDD-p,p'	6.6	U	ng/L	P379957	
		DDE-p,p'	6.6	U	ng/L	P379957	
		DDT-p,p'	7.7	U	ng/L	P379957	
		Dicofol	33	U	ng/L	P379957	
		Dieldrin	4.4	U	ng/L	P379957	
		Endosulfan I	4.4	U	ng/L	P379957	
		Endosulfan II	4.4	U	ng/L	P379957	
		Endosulfan Sulfate	2.2	U	ng/L	P379957	
		Endrin	2.2	U	ng/L	P379957	
		Endrin Aldehyde	2.2	U	ng/L	P379957	
		Endrin Ketone	2.2	U	ng/L	P379957	
		Ethalfuralin**	3.3	U	ng/L	P379957	
		Gamma-Chlordane	1.1	U	ng/L	P379957	
		Heptachlor	1.6	U	ng/L	P379957	
		Heptachlor Epoxide	2.2	U	ng/L	P379957	
		Hexachlorobenzene	2.2	U	ng/L	P379957	
		Lambda-Cyhalothrin**	16	U	ng/L	P379957	
		Methoxychlor	4.4	U	ng/L	P379957	
		Mirex	2.2	U	ng/L	P379957	
		Permethrin	11	U	ng/L	P379957	

Field ID: FB-03022020

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2161814	EPA 8270E	Phenothrin**	33	U	ng/L	P379957	
		Prallethrin**	33	U	ng/L	P379957	
		Trans-Nonachlor**	1.1	U	ng/L	P379957	
		Trifluralin	2.7	U	ng/L	P379957	
		Chlordane	5.5	U	ng/L	P379957	
2161816	EPA 8270E	Toxaphene	33	U	ng/L	P379957	
		Acetochlor	0.25	U	ng/L	P380108	
		Alachlor	0.25	U	ng/L	P380108	
		Ametryn	0.60	U	ng/L	P380108	
		Atrazine	0.25	U	ng/L	P380108	
		Atrazine Desethyl	1.5	U	ng/L	P380108	
		Azinphos Methyl	5.0	U	ng/L	P380108	
		Bromacil	0.50	U	ng/L	P380108	
		Butylate	0.40	UJ	ng/L	P380108	LCS, RPD
		Carbophenothion	0.50	U	ng/L	P380108	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P380108	
		Chlorpyrifos Methyl	0.050	U	ng/L	P380108	
		Cyanazine	3.3	U	ng/L	P380108	
		Demeton	7.0	U	ng/L	P380108	
		Diazinon	0.13	U	ng/L	P380108	
		Dimethenamid**	0.10	U	ng/L	P380108	
		Disulfoton	0.50	U	ng/L	P380108	
		Dithiopyr**	0.10	U	ng/L	P380108	
		EPTC	1.3	UJ	ng/L	P380108	RPD
		Ethion	0.15	U	ng/L	P380108	
		Ethoprop	0.10	U	ng/L	P380108	
		Fenamiphos	0.50	U	ng/L	P380108	
		Fipronil	0.25	U	ng/L	P380108	
		Fipronil Desulfinyl**	0.13	U	ng/L	P380108	
		Fipronil Sulfide	0.15	U	ng/L	P380108	
		Fipronil Sulfone	0.15	U	ng/L	P380108	
		Flumioxazin**	1.8	UJ	ng/L	P380108	LCS
		Fonofos	0.20	U	ng/L	P380108	
		Hexazinone	0.50	U	ng/L	P380108	
		Imazalil**	0.75	U	ng/L	P380108	RPD
		Malathion	0.35	U	ng/L	P380108	
		Metalaxyl	0.75	U	ng/L	P380108	
		Metolachlor	0.50	U	ng/L	P380108	
		Metribuzin	3.3	U	ng/L	P380108	
		Mevinphos	0.50	U	ng/L	P380108	
		Molinate	0.30	U	ng/L	P380108	
		Naled**	1.5	U	ng/L	P380108	
		Norflurazon	0.50	U	ng/L	P380108	
		Oxadiazon**	0.10	U	ng/L	P380108	
		Parathion Ethyl	0.25	U	ng/L	P380108	

Field ID: FB-03022020

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2161816	EPA 8270E	Parathion Methyl	0.55	U	ng/L	P380108	
		Pendimethalin	1.0	U	ng/L	P380108	
		Phorate	0.25	U	ng/L	P380108	
		Prodiamine**	0.18	U	ng/L	P380108	
		Prometon	0.90	U	ng/L	P380108	
		Prometryn	0.20	U	ng/L	P380108	
		Pronamide**	0.15	U	ng/L	P380108	
		Propiconazole**	0.50	U	ng/L	P380108	
		Simazine	0.50	U	ng/L	P380108	
		Sulfentrazone**	0.50	UJ	ng/L	P380108	LCS
		Tebuconazole**	0.50	U	ng/L	P380108	
		Terbufos	0.10	U	ng/L	P380108	
		Terbuthylazine	0.43	U	ng/L	P380108	
2161819	EPA 200.7 Rev. 4.4	Barium	1.0	U	ug/L	P380202	
		Calcium	0.075	U	mg/L	P380202	
		Iron	30	U	ug/L	P380202	
		Magnesium	0.040	U	mg/L	P380202	
		Potassium	0.30	U	mg/L	P380202	
		Sodium	0.50	U	mg/L	P380202	
		Zinc	5.0	U	ug/L	P380202	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P380202	
		Antimony	0.050	U	ug/L	P380202	
		Arsenic	0.050	U	ug/L	P380202	
		Boron**	2.0	U	ug/L	P380202	
		Cadmium	0.020	U	ug/L	P380202	
		Chromium	0.40	U	ug/L	P380202	
		Copper	0.40	U	ug/L	P380202	
		Lead	0.20	U	ug/L	P380202	
		Nickel	0.50	U	ug/L	P380202	
		Selenium	0.20	U	ug/L	P380202	
		Silver	0.010	U	ug/L	P380202	
		Thallium	0.10	U	ug/L	P380202	

Ref. Method and Comment:

SM 2540 D-2011: 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 imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Results confirmed by re-extraction and re-analysis. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P380009

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P380202

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: P380202

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: P380342

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P380344

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P380605

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: P380114

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P380284

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P380307

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P379983

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

Reference Method: EPA 8270E
Batch ID: P379957

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
Beta-Cyfluthrin	15	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
Dacthal	1.0	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P379957

Component	Result	Code	Units
Hexachlorobenzene	2.0	U	ng/L
Lambda-Cyhalothrin	15	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Phenothrin	30	U	ng/L
Prallethrin	30	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8270E

Batch ID: P380108

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
Carbophenothion	0.50	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	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
Flumioxazin	1.8	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Naled	1.5	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P380108

Component	Result	Code	Units
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
Pronamide	0.15	U	ng/L
Propiconazole	0.50	U	ng/L
Simazine	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270E

Batch ID: P380780

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	2.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Carbophenothion	0.50	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	1.5	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
Flumioxazin	1.8	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	3.2	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P380780

Component	Result	Code	Units
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Naled	1.5	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
Pronamide	0.15	U	ng/L
Propiconazole	0.50	U	ng/L
Simazine	0.50	U	ng/L
Sulfentrazone	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: P379957

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

Reference Method: EPA 8321B
Batch ID: P379958

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: P379970

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P380128

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
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B-2011
Batch ID: P380003

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B-2011
Batch ID: P380004

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P380270

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

Reference Method: SM 2540 C-2011
Batch ID: P380540

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2011
Batch ID: P380543

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P380421

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P380424

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P380274

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P380276

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: P380202

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	99.2		P	85 - 115
Calcium	102		P	85 - 115
Iron	100		P	85 - 115
Magnesium	102		P	85 - 115
Potassium	98.7		P	85 - 115
Sodium	99.6		P	85 - 115
Zinc	99.8		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P380202

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	94.4		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	98.6		P	85 - 115
Boron	99.4		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	98.8		P	85 - 115
Copper	98.1		P	85 - 115
Lead	95.8		P	85 - 115
Nickel	96.3		P	85 - 115
Selenium	94.0		P	85 - 115
Silver	94.1		P	85 - 115
Thallium	99.1		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P380342

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P380344

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P380605

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P380114

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P380284

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: P380307

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P379983

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

Reference Method: EPA 8270E
 Batch ID: P379957

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.3	49.6	P/P	20 - 87.0
Alpha-BHC	87.9	90.4	P/P	65 - 142
Alpha-Chlordane	88.7	87.8	P/P	58 - 106
Beta-BHC	97.0	99.4	P/P	65 - 179
Beta-Cyfluthrin	83.4	84.1	P/P	50 - 150
Bifenthrin	88.4	88.6	P/P	38 - 128
Carbophenothion	73.3	69.2	P/P	20 - 144
Chlorothalonil	86.3	93.4	P/P	20 - 214
Cis-Nonachlor	89.7	88.3	P/P	56 - 113
Cypermethrin	87.8	87.9	P/P	37 - 130
Dacthal	91.6	88.9	P/P	50 - 150
DDD-p,p'	95.0	93.7	P/P	66 - 119
DDE-p,p'	85.2	83.7	P/P	53 - 108
DDT-p,p'	79.0	78.9	P/P	57 - 133
Delta-BHC	113	110	P/P	68 - 187
Dicofol	75.2	73.8	P/P	66 - 123
Dieldrin	94.8	89.9	P/P	65 - 111
Endosulfan I	104	92.2	P/P	65 - 115
Endosulfan II	108	103	P/P	68 - 133
Endosulfan Sulfate	99.4	97.6	P/P	62 - 127
Endrin	96.6	90.6	P/P	64 - 122
Endrin Aldehyde	89.5	90.3	P/P	61 - 132
Endrin Ketone	97.4	96.0	P/P	66 - 120
Ethalfuralin	78.2	80.1	P/P	57 - 127
Gamma-BHC	99.1	98.9	P/P	71 - 158
Gamma-Chlordane	84.2	82.6	P/P	53 - 106
Heptachlor	77.4	75.7	P/P	45 - 96.0
Heptachlor Epoxide	89.7	87.8	P/P	64 - 109
Hexachlorobenzene	75.4	74.9	P/P	46 - 103
Lambda-Cyhalothrin	78.9	78.0	P/P	50 - 150
Methoxychlor	94.4	94.2	P/P	69 - 149
Mirex	69.5	69.2	P/P	31 - 90.0
Permethrin	76.2	77.4	P/P	41 - 108
Phenothrin	52.3	52.8	P/P	50 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P379957

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prallethrin	64.6	64.3	P/P	40 - 140
Trans-Nonachlor	84.4	82.3	P/P	50 - 107
Trifluralin	81.3	80.4	P/P	58 - 119

Reference Method: EPA 8270E

Batch ID: P380108

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	95.3	101	P/P	71 - 122
Alachlor	96.3	100	P/P	70 - 121
Ametryn	98.3	102	P/P	49 - 137
Atrazine	101	106	P/P	76 - 125
Atrazine Desethyl	81.3	90.2	P/P	31 - 144
Azinphos Methyl	102	98.1	P/P	67 - 150
Bromacil	65.1	69.0	P/P	36 - 121
Butylate	66.8	94.3	P/F	33 - 88.0
Carbophenothion	96.2	90.3	P/P	50 - 150
Chlorpyrifos Ethyl	98.6	101	P/P	73 - 117
Chlorpyrifos Methyl	97.8	98.4	P/P	68 - 121
Cyanazine	175	180	P/P	20 - 250
Demeton	86.9	89.7	P/P	30 - 123
Diazinon	94.0	100	P/P	70 - 128
Dimethenamid	92.5	99.2	P/P	66 - 122
Disulfoton	84.1	85.7	P/P	46 - 124
Dithiopyr	87.2	91.2	P/P	69 - 122
EPTC	56.5	88.7	P/P	31 - 90.0
Ethion	91.5	71.7	P/P	45 - 135
Ethoprop	90.7	96.7	P/P	59 - 118
Fenamiphos	91.1	86.4	P/P	30 - 136
Fipronil	92.7	93.6	P/P	57 - 127
Fipronil Desulfinyl	96.1	98.2	P/P	51 - 122
Fipronil Sulfide	89.7	86.1	P/P	57 - 119
Fipronil Sulfone	87.1	80.3	P/P	51 - 119
Flumioxazin	83.8	67.9	P/F	70 - 200
Fonofos	88.4	91.4	P/P	60 - 120
Hexazinone	101	101	P/P	57 - 142
Imazalil	93.4	92.1	P/P	50 - 150
Malathion	104	107	P/P	67 - 128
Metalaxyl	101	103	P/P	21 - 148
Metolachlor	90.1	96.7	P/P	70 - 120
Metribuzin	159	175	P/P	20 - 253
Mevinphos	92.5	107	P/P	47 - 116
Molinate	72.0	93.6	P/P	41 - 99.0
Naled	61.2	63.6	P/P	40 - 130
Norflurazon	94.4	93.9	P/P	54 - 127
Oxadiazon	91.8	91.7	P/P	65 - 122
Parathion Ethyl	97.5	95.1	P/P	71 - 113
Parathion Methyl	102	106	P/P	73 - 129
Pendimethalin	88.9	89.8	P/P	63 - 130
Phorate	95.4	100	P/P	48 - 118
Prodiamine	73.3	89.2	P/P	20 - 144
Prometon	94.9	95.3	P/P	53 - 120

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P380108

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prometryn	95.4	98.5	P/P	63 - 119
Pronamide	100	100	P/P	50 - 150
Propiconazole	87.4	84.1	P/P	50 - 150
Simazine	101	105	P/P	77 - 129
Sulfentrazone	15.6	17.7	F/F	50 - 150
Tebuconazole	60.6	47.8	P/P	20 - 118
Terbufos	93.8	96.4	P/P	61 - 119
Terbuthylazine	96.6	99.9	P/P	75 - 119

Reference Method: EPA 8270E

Batch ID: P380780

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	89.1	86.4	P/P	71 - 122
Alachlor	89.4	84.8	P/P	70 - 121
Ametryn	98.8	95.2	P/P	49 - 137
Atrazine	113	104	P/P	76 - 125
Atrazine Desethyl	82.1	80.0	P/P	31 - 144
Azinphos Methyl	112	89.9	P/P	67 - 150
Bromacil	92.9	86.2	P/P	36 - 121
Butylate	59.0	71.7	P/P	33 - 88.0
Carbophenothion	84.3	82.6	P/P	50 - 150
Chlorpyrifos Ethyl	92.2	87.7	P/P	73 - 117
Chlorpyrifos Methyl	96.5	92.4	P/P	68 - 121
Cyanazine	106	103	P/P	20 - 250
Demeton	89.5	93.1	P/P	30 - 123
Diazinon	93.1	89.9	P/P	70 - 128
Dimethenamid	80.8	83.5	P/P	66 - 122
Disulfoton	91.6	90.7	P/P	46 - 124
Dithiopyr	80.8	78.7	P/P	69 - 122
EPTC	51.2	70.2	P/P	31 - 90.0
Ethion	17.1	32.6	F/F	45 - 135
Ethoprop	98.2	93.6	P/P	59 - 118
Fenamiphos	77.8	84.8	P/P	30 - 136
Fipronil	84.2	86.0	P/P	57 - 127
Fipronil Desulfinyl	86.2	87.8	P/P	51 - 122
Fipronil Sulfide	82.2	80.0	P/P	57 - 119
Fipronil Sulfone	75.6	71.7	P/P	51 - 119
Flumioxazin	79.7	168	P/P	70 - 200
Fonofos	97.5	93.9	P/P	60 - 120
Hexazinone	95.9	92.8	P/P	57 - 142
Imazalil	93.2	86.9	P/P	50 - 150
Malathion	109	106	P/P	67 - 128
Metalaxyl	91.2	85.9	P/P	21 - 148
Metolachlor	79.6	76.4	P/P	70 - 120
Metribuzin	125	119	P/P	20 - 253
Mevinphos	115	100	P/P	47 - 116
Molinate	74.2	75.7	P/P	41 - 99.0
Naled	49.4	58.0	P/P	40 - 130
Norflurazon	81.3	78.8	P/P	54 - 127
Oxadiazon	82.0	79.9	P/P	65 - 122
Parathion Ethyl	97.3	91.5	P/P	71 - 113

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P380780

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Parathion Methyl	110	106	P/P	73 - 129
Pendimethalin	85.0	77.6	P/P	63 - 130
Phorate	101	95.9	P/P	48 - 118
Prodiamine	50.0	57.3	P/P	20 - 144
Prometon	95.6	89.3	P/P	53 - 120
Prometryn	96.5	93.1	P/P	63 - 119
Pronamide	97.4	98.8	P/P	50 - 150
Propiconazole	76.8	73.4	P/P	50 - 150
Simazine	108	106	P/P	77 - 129
Sulfentrazone	63.7	57.4	P/P	50 - 150
Tebuconazole	32.9	41.8	P/P	20 - 118
Terbufos	104	98.3	P/P	61 - 119
Terbutylazine	95.2	90.7	P/P	75 - 119

Reference Method: EPA 8276
Batch ID: P379957

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	98.1	95.8	P/P	47 - 119
Toxaphene	92.1	94.4	P/P	41 - 112

Reference Method: EPA 8321B
Batch ID: P379958

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	96.0		P	40 - 150
AMPA	97.8		P	40 - 150
Endothall	133		P	40 - 150
Glufosinate	123		P	40 - 150
Glyphosate	114		P	40 - 140
Sucralose	101		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P379970

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	67.6		P	30 - 160
Aldicarb	48.6		P	30 - 160
Aldicarb Sulfone	76.4		P	30 - 160
Aldicarb Sulfoxide	74.4		P	30 - 160
Carbaryl	70.2		P	30 - 160
Carbofuran	66.6		P	30 - 160
Methiocarb	65.8		P	30 - 160
Methomyl	75.9		P	30 - 160
Oxamyl	78.1		P	30 - 160
Propoxur	64.2		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P380128

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	127		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P380128

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	109		P	30 - 160
Acetamiprid	91.6		P	30 - 160
Afidopyropen	81.1		P	30 - 160
Bentazon	89.6		P	30 - 160
Benzovindiflupyr	80.6		P	30 - 160
Carbamazepine	93.1		P	30 - 160
Clothianidin	93.9		P	30 - 160
Dinotefuran	114		P	30 - 160
Diuron	74.0		P	30 - 160
Fenuron	102		P	30 - 160
Fluridone	76.1		P	30 - 160
Hydrocodone	88.9		P	30 - 160
Ibuprofen	82.1		P	30 - 160
Imazapyr	93.5		P	30 - 160
Imidacloprid	99.2		P	30 - 160
Linuron	71.5		P	30 - 160
Mandestrobin	84.5		P	30 - 160
MCPP	120		P	30 - 160
Naproxen	102		P	30 - 160
Primidone	92.7		P	30 - 160
Pyraclostrobin	81.0		P	30 - 160
Thiamethoxam	95.3		P	30 - 160
Tolfenpyrad	40.0		P	30 - 160
Triclopyr	102		P	30 - 160

Reference Method: SM 2120 B-2011
Batch ID: P380003

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

Reference Method: SM 2120 B-2011
Batch ID: P380004

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.8		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P380270

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.1		P	98 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P380274

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.8		P	92 - 103

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P380276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P380202

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161902	Barium	103		P	80 - 120
2161902	Calcium	100		P	80 - 120
2161902	Iron	102		P	80 - 120
2161902	Magnesium	103		P	80 - 120
2161902	Potassium	105		P	80 - 120
2161902	Sodium	99.1		P	80 - 120
2161902	Zinc	104		P	80 - 120
2161957	Barium	102	102	P/P	80 - 120
2161957	Calcium	100	99.7	P/P	80 - 120
2161957	Iron	102	102	P/P	80 - 120
2161957	Magnesium	102	103	P/P	80 - 120
2161957	Potassium	101	101	P/P	80 - 120
2161957	Sodium	99.2	98.4	P/P	80 - 120
2161957	Zinc	101	101	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P380202

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161902	Aluminum	95.0		P	80 - 120
2161902	Antimony	100		P	80 - 120
2161902	Arsenic	97.9		P	80 - 120
2161902	Boron	102		P	80 - 120
2161902	Cadmium	102		P	80 - 120
2161902	Chromium	97.9		P	80 - 120
2161902	Copper	93.0		P	80 - 120
2161902	Lead	96.3		P	80 - 120
2161902	Nickel	99.3		P	80 - 120
2161902	Selenium	86.9		P	80 - 120
2161902	Silver	92.2		P	80 - 120
2161902	Thallium	102		P	80 - 120
2161957	Aluminum	93.9	95.2	P/P	80 - 120
2161957	Antimony	103	103	P/P	80 - 120
2161957	Arsenic	96.6	96.3	P/P	80 - 120
2161957	Boron	102	101	P/P	80 - 120
2161957	Cadmium	103	101	P/P	80 - 120
2161957	Chromium	97.8	98.4	P/P	80 - 120
2161957	Copper	95.6	95.9	P/P	80 - 120
2161957	Lead	96.8	96.1	P/P	80 - 120
2161957	Nickel	96.2	95.1	P/P	80 - 120
2161957	Selenium	93.2	92.7	P/P	80 - 120
2161957	Silver	93.3	94.1	P/P	80 - 120
2161957	Thallium	101	100	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P380342

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161390	Chloride	96.5		P	90 - 110
2161732	Chloride	95.9		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P380344

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161390	Sulfate	98.0		P	90 - 110
2161732	Sulfate	98.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P380605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161796	Ammonia-N	99.0	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P380114

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161772	Kjeldahl Nitrogen	106	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P380284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161771	NO2NO3-N	96.9	96.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P380307

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161734	Total-P	106	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P379983

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161797	O-Phosphate-P	64.5	62.2	F/F	90 - 110

Reference Method: EPA 8270E
Batch ID: P379957

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161118	Aldrin	67.9	66.4	P/P	32 - 82.0
2161118	Alpha-BHC	93.3	92.6	P/P	68 - 157
2161118	Alpha-Chlordane	89.9	88.5	P/P	54 - 108
2161118	Beta-BHC	104	100	P/P	54 - 200
2161118	Beta-Cyfluthrin	91.4	95.5	P/P	50 - 150
2161118	Bifenthrin	96.9	98.2	P/P	49 - 124
2161118	Carbophenothion	113	115	P/P	42 - 173
2161118	Chlorothalonil	41.8	31.8	P/P	10 - 289
2161118	Cis-Nonachlor	92.0	90.9	P/P	53 - 112
2161118	Cypermethrin	102	112	P/P	43 - 141
2161118	Dacthal	90.5	88.1	P/P	50 - 150
2161118	DDD-p,p'	97.2	96.2	P/P	58 - 125
2161118	DDE-p,p'	81.4	79.5	P/P	50 - 108
2161118	DDT-p,p'	79.7	77.3	P/P	52 - 140
2161118	Delta-BHC	219	233	P/F	61 - 228

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P379957

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161118	Dicofol	65.2	63.4	P/P	59 - 130
2161118	Dieldrin	90.3	88.9	P/P	57 - 121
2161118	Endosulfan I	101	108	P/P	62 - 123
2161118	Endosulfan II	114	109	P/P	48 - 163
2161118	Endosulfan Sulfate	112	114	P/P	63 - 132
2161118	Endrin	96.7	91.0	P/P	58 - 128
2161118	Endrin Aldehyde	92.0	89.0	P/P	44 - 126
2161118	Endrin Ketone	99.6	101	P/P	68 - 127
2161118	Ethalfuralin	82.8	83.3	P/P	55 - 131
2161118	Gamma-BHC	102	103	P/P	54 - 206
2161118	Gamma-Chlordane	84.9	84.8	P/P	52 - 105
2161118	Heptachlor	77.7	76.6	P/P	47 - 94.0
2161118	Heptachlor Epoxide	90.4	89.1	P/P	61 - 113
2161118	Hexachlorobenzene	72.2	72.5	P/P	45 - 100
2161118	Lambda-Cyhalothrin	92.6	95.0	P/P	50 - 150
2161118	Methoxychlor	98.0	98.3	P/P	63 - 153
2161118	Mirex	74.8	73.5	P/P	38 - 90.0
2161118	Permethrin	86.1	87.1	P/P	45 - 112
2161118	Phenothrin	75.4	76.4	P/P	50 - 150
2161118	Prallethrin	75.4	74.3	P/P	40 - 140
2161118	Trans-Nonachlor	84.4	82.9	P/P	50 - 103
2161118	Trifluralin	81.7	81.9	P/P	57 - 122

Reference Method: EPA 8270E
Batch ID: P380108

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161216	Acetochlor	102	93.2	P/P	68 - 126
2161216	Alachlor	104	94.6	P/P	66 - 125
2161216	Ametryn	99.7	107	P/P	31 - 182
2161216	Atrazine Desethyl	73.0	74.3	P/P	13 - 161
2161216	Azinphos Methyl	103	94.4	P/P	54 - 162
2161216	Butylate	78.1	75.0	P/P	16 - 92.0
2161216	Carbophenothion	92.3	86.7	P/P	50 - 150
2161216	Chlorpyrifos Ethyl	103	97.0	P/P	63 - 124
2161216	Chlorpyrifos Methyl	101	94.5	P/P	64 - 125
2161216	Cyanazine	180	159	P/P	13 - 245
2161216	Demeton	96.5	89.2	P/P	20 - 154
2161216	Diazinon	101	94.9	P/P	66 - 141
2161216	Dimethenamid	101	94.5	P/P	50 - 130
2161216	Disulfoton	86.9	77.8	P/P	55 - 130
2161216	Dithiopyr	89.1	88.3	P/P	66 - 122
2161216	EPTC	75.2	67.7	P/P	15 - 93.0
2161216	Ethion	89.3	84.1	P/P	15 - 148
2161216	Ethoprop	99.9	92.1	P/P	59 - 126
2161216	Fenamiphos	83.4	82.3	P/P	39 - 137
2161216	Fipronil	98.4	91.5	P/P	47 - 131
2161216	Fipronil Desulfinyl	97.9	94.9	P/P	43 - 121
2161216	Fipronil Sulfide	89.7	84.9	P/P	29 - 134
2161216	Fipronil Sulfone	87.8	74.8	P/P	19 - 131
2161216	Flumioxazin	134	131	P/P	70 - 200
2161216	Fonofos	95.0	90.0	P/P	62 - 128

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P380108

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161216	Hexazinone	114	95.3	P/P	58 - 154
2161216	Imazalil	86.5	148	P/P	50 - 150
2161216	Malathion	104	100	P/P	54 - 135
2161216	Metalaxyl	105	97.6	P/P	46 - 136
2161216	Metolachlor	96.2	91.7	P/P	62 - 126
2161216	Metribuzin	171	156	P/P	44 - 277
2161216	Mevinphos	107	96.0	P/P	44 - 135
2161216	Molinate	87.1	80.9	P/P	31 - 104
2161216	Naled	78.6	63.7	P/P	40 - 130
2161216	Norflurazon	92.5	87.6	P/P	32 - 134
2161216	Oxadiazon	95.1	90.2	P/P	55 - 123
2161216	Parathion Ethyl	99.2	91.6	P/P	67 - 120
2161216	Parathion Methyl	107	98.9	P/P	70 - 140
2161216	Pendimethalin	108	99.5	P/P	59 - 145
2161216	Phorate	96.8	90.2	P/P	52 - 127
2161216	Prodiamine	95.3	114	P/P	11 - 157
2161216	Prometon	97.8	90.9	P/P	55 - 130
2161216	Prometryn	101	96.3	P/P	55 - 127
2161216	Pronamide	124	116	P/P	50 - 150
2161216	Propiconazole	86.0	80.4	P/P	50 - 150
2161216	Simazine	107	82.8	P/P	58 - 159
2161216	Sulfentrazone	88.4	77.9	P/P	50 - 150
2161216	Tebuconazole	56.8	53.5	P/P	10 - 122
2161216	Terbufos	101	96.0	P/P	65 - 131
2161216	Terbutylazine	110	103	P/P	63 - 131

Reference Method: EPA 8270E
Batch ID: P380780

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161812	Acetochlor	80.8	82.3	P/P	68 - 126
2161812	Alachlor	77.1	76.7	P/P	66 - 125
2161812	Ametryn	81.0	85.1	P/P	31 - 182
2161812	Atrazine	101	103	P/P	68 - 137
2161812	Atrazine Desethyl	60.5	55.0	P/P	13 - 161
2161812	Azinphos Methyl	110	96.4	P/P	54 - 162
2161812	Butylate	64.8	84.3	P/P	16 - 92.0
2161812	Carbophenothion	53.7	59.8	P/P	50 - 150
2161812	Chlorpyrifos Ethyl	84.7	85.9	P/P	63 - 124
2161812	Chlorpyrifos Methyl	83.3	81.6	P/P	64 - 125
2161812	Cyanazine	72.6	35.2	P/P	13 - 245
2161812	Demeton	98.5	105	P/P	20 - 154
2161812	Diazinon	86.1	88.1	P/P	66 - 141
2161812	Dimethenamid	62.0	32.0	P/F	50 - 130
2161812	Disulfoton	80.1	68.4	P/P	55 - 130
2161812	Dithiopyr	61.6	68.5	F/P	66 - 122
2161812	EPTC	55.2	80.4	P/P	15 - 93.0
2161812	Ethion	13.0	5.67	F/F	15 - 148
2161812	Ethoprop	114	118	P/P	59 - 126
2161812	Fenamiphos	91.8	80.6	P/P	39 - 137
2161812	Fipronil	70.8	70.1	P/P	47 - 131
2161812	Fipronil Desulfinylyl	72.4	70.9	P/P	43 - 121

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P380780

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161812	Fipronil Sulfide	70.4	69.8	P/P	29 - 134
2161812	Fipronil Sulfone	60.7	60.7	P/P	19 - 131
2161812	Flumioxazin	114	96.7	P/P	70 - 200
2161812	Fonofos	86.8	90.7	P/P	62 - 128
2161812	Hexazinone	88.1	96.7	P/P	58 - 154
2161812	Imazalil	69.2	79.1	P/P	50 - 150
2161812	Malathion	90.6	96.6	P/P	54 - 135
2161812	Metolachlor	68.8	65.6	P/P	62 - 126
2161812	Metribuzin	103	102	P/P	44 - 277
2161812	Mevinphos	120	125	P/P	44 - 135
2161812	Molinate	68.9	86.0	P/P	31 - 104
2161812	Naled	54.9	59.7	P/P	40 - 130
2161812	Oxadiazon	63.6	64.0	P/P	55 - 123
2161812	Parathion Ethyl	88.6	95.8	P/P	67 - 120
2161812	Parathion Methyl	107	119	P/P	70 - 140
2161812	Pendimethalin	77.9	86.6	P/P	59 - 145
2161812	Phorate	94.6	95.8	P/P	52 - 127
2161812	Prodiamine	29.5	58.1	P/P	11 - 157
2161812	Prometon	82.2	86.9	P/P	55 - 130
2161812	Prometryn	80.8	85.3	P/P	55 - 127
2161812	Pronamide	92.9	92.6	P/P	50 - 150
2161812	Propiconazole	54.2	50.9	P/P	50 - 150
2161812	Simazine	108	101	P/P	58 - 159
2161812	Sulfentrazone	55.2	55.1	P/P	50 - 150
2161812	Tebuconazole	8.44	5.49	F/F	10 - 122
2161812	Terbufos	98.4	99.1	P/P	65 - 131
2161812	Terbutylazine	86.6	89.0	P/P	63 - 131

Reference Method: EPA 8276
Batch ID: P379957

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161141	Chlordane	105	105	P/P	34 - 129
2161141	Toxaphene	103	105	P/P	26 - 123

Reference Method: EPA 8321B
Batch ID: P379958

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161262	Acesulfame K	19.8	19.6	F/F	40 - 150
2161262	AMPA	70.8	70.8	P/P	40 - 150
2161262	Endothall	134	153	P/F	40 - 150
2161262	Glufosinate	109	124	P/P	40 - 150
2161262	Glyphosate	160	148	F/F	40 - 140
2161262	Sucralose	88.9	94.8	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P379970

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161211	3-Hydroxycarbofuran	71.9	62.1	P/P	30 - 160
2161211	Aldicarb	75.5	90.4	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P379970

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161211	Aldicarb Sulfone	75.4	81.2	P/P	30 - 160
2161211	Aldicarb Sulfoxide	31.2	30.1	P/P	30 - 160
2161211	Carbaryl	58.8	60.0	P/P	30 - 160
2161211	Carbofuran	53.7	54.0	P/P	30 - 160
2161211	Methiocarb	60.6	63.6	P/P	30 - 160
2161211	Methomyl	72.1	69.4	P/P	30 - 160
2161211	Oxamyl	75.2	69.8	P/P	30 - 160
2161211	Propoxur	56.4	55.2	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P380128

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161361	2,4-D	83.4	106	P/P	30 - 160
2161361	Acetaminophen	126	117	P/P	30 - 160
2161361	Acetamiprid	83.3	86.3	P/P	30 - 160
2161361	Afidopyropen	87.2	88.0	P/P	30 - 160
2161361	Bentazon	42.6	42.9	P/P	30 - 160
2161361	Benzovindiflupyr	86.6	80.7	P/P	30 - 160
2161361	Carbamazepine	73.9	74.2	P/P	30 - 160
2161361	Clothianidin	91.9	92.4	P/P	30 - 160
2161361	Dinotefuran	143	134	P/P	30 - 160
2161361	Diuron	65.1	61.0	P/P	30 - 160
2161361	Fenuron	77.1	74.8	P/P	30 - 160
2161361	Fluridone	79.9	65.1	P/P	30 - 160
2161361	Hydrocodone	88.4	85.6	P/P	30 - 160
2161361	Ibuprofen	78.2	67.9	P/P	30 - 160
2161361	Imidacloprid	157	145	P/P	30 - 160
2161361	Linuron	66.0	61.7	P/P	30 - 160
2161361	Mandestrobin	86.2	81.0	P/P	30 - 160
2161361	MCPP	125	104	P/P	30 - 160
2161361	Naproxen	105	68.3	P/P	30 - 160
2161361	Primidone	96.6	89.8	P/P	30 - 160
2161361	Pyraclostrobin	99.5	83.6	P/P	30 - 160
2161361	Thiamethoxam	138	136	P/P	30 - 160
2161361	Tolfenpyrad	47.2	46.0	P/P	30 - 160
2161361	Triclopyr	105	99.7	P/P	30 - 160

Reference Method: SM 4500 F-C-2011
Batch ID: P380274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161886	Fluoride	103	105	P/P	89 - 106

Reference Method: SM 5310 B-2011
Batch ID: P380276

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2161796	Organic Carbon	97.9	99.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P380009

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161795	Turbidity	2.12	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P380202

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161957	Barium	0.0477	Spike	P	0 - 20
2161957	Calcium	0.189	Spike	P	0 - 20
2161957	Iron	0.0367	Spike	P	0 - 20
2161957	Magnesium	0.464	Spike	P	0 - 20
2161957	Potassium	0.406	Spike	P	0 - 20
2161957	Sodium	0.618	Spike	P	0 - 20
2161957	Zinc	0.276	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P380202

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161957	Aluminum	1.12	Spike	P	0 - 20
2161957	Antimony	0.301	Spike	P	0 - 20
2161957	Arsenic	0.311	Spike	P	0 - 20
2161957	Boron	1.74	Spike	P	0 - 20
2161957	Cadmium	1.39	Spike	P	0 - 20
2161957	Chromium	0.663	Spike	P	0 - 20
2161957	Copper	0.357	Spike	P	0 - 20
2161957	Lead	0.709	Spike	P	0 - 20
2161957	Nickel	1.20	Spike	P	0 - 20
2161957	Selenium	0.531	Spike	P	0 - 20
2161957	Silver	0.904	Spike	P	0 - 20
2161957	Thallium	0.455	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P380342

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161732	Chloride	0.0634	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P380344

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161732	Sulfate	0.322	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P380605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161796	Ammonia-N	1.26	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P380114

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161772	Kjeldahl Nitrogen	0.611	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P380284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161771	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P380307

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161734	Total-P	1.02	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P379983

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161797	O-Phosphate-P	3.40	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P379957

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161118	Aldrin	2.24	Spike	P	0 - 30
2161118	Alpha-BHC	0.776	Spike	P	0 - 30
2161118	Alpha-Chlordane	1.61	Spike	P	0 - 30
2161118	Beta-BHC	3.54	Spike	P	0 - 30
2161118	Beta-Cyfluthrin	4.30	Spike	P	0 - 30
2161118	Bifenthrin	1.27	Spike	P	0 - 30
2161118	Carbophenothion	1.85	Spike	P	0 - 30
2161118	Chlorothalonil	27.3	Spike	P	0 - 30
2161118	Cis-Nonachlor	1.19	Spike	P	0 - 30
2161118	Cypermethrin	8.76	Spike	P	0 - 30
2161118	Dacthal	2.66	Spike	P	0 - 30
2161118	DDD-p,p'	1.07	Spike	P	0 - 30
2161118	DDE-p,p'	2.34	Spike	P	0 - 30
2161118	DDT-p,p'	3.15	Spike	P	0 - 30
2161118	Delta-BHC	6.31	Spike	P	0 - 30
2161118	Dicofol	2.70	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P379957

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161118	Dieldrin	1.59	Spike	P	0 - 30
2161118	Endosulfan I	6.54	Spike	P	0 - 30
2161118	Endosulfan II	3.88	Spike	P	0 - 30
2161118	Endosulfan Sulfate	1.60	Spike	P	0 - 30
2161118	Endrin	6.01	Spike	P	0 - 30
2161118	Endrin Aldehyde	3.34	Spike	P	0 - 30
2161118	Endrin Ketone	1.15	Spike	P	0 - 30
2161118	Ethalfuralin	0.576	Spike	P	0 - 30
2161118	Gamma-BHC	0.954	Spike	P	0 - 30
2161118	Gamma-Chlordane	0.149	Spike	P	0 - 30
2161118	Heptachlor	1.34	Spike	P	0 - 30
2161118	Heptachlor Epoxide	1.43	Spike	P	0 - 30
2161118	Hexachlorobenzene	0.489	Spike	P	0 - 30
2161118	Lambda-Cyhalothrin	2.58	Spike	P	0 - 30
2161118	Methoxychlor	0.215	Spike	P	0 - 30
2161118	Mirex	1.83	Spike	P	0 - 30
2161118	Permethrin	1.15	Spike	P	0 - 30
2161118	Phenothrin	1.27	Spike	P	0 - 30
2161118	Prallethrin	1.36	Spike	P	0 - 30
2161118	Trans-Nonachlor	1.88	Spike	P	0 - 30
2161118	Trifluralin	0.269	Spike	P	0 - 30
LFB	Aldrin	1.43	LCS	P	0 - 30
LFB	Alpha-BHC	2.75	LCS	P	0 - 30
LFB	Alpha-Chlordane	0.946	LCS	P	0 - 30
LFB	Beta-BHC	2.47	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	0.860	LCS	P	0 - 30
LFB	Bifenthrin	0.149	LCS	P	0 - 30
LFB	Carbophenothion	5.70	LCS	P	0 - 30
LFB	Chlorothalonil	7.93	LCS	P	0 - 30
LFB	Cis-Nonachlor	1.47	LCS	P	0 - 30
LFB	Cypermethrin	0.115	LCS	P	0 - 30
LFB	Dacthal	2.93	LCS	P	0 - 30
LFB	DDD-p,p'	1.41	LCS	P	0 - 30
LFB	DDE-p,p'	1.74	LCS	P	0 - 30
LFB	DDT-p,p'	0.0705	LCS	P	0 - 30
LFB	Delta-BHC	2.75	LCS	P	0 - 30
LFB	Dicofol	1.81	LCS	P	0 - 30
LFB	Dieldrin	5.25	LCS	P	0 - 30
LFB	Endosulfan I	11.9	LCS	P	0 - 30
LFB	Endosulfan II	4.70	LCS	P	0 - 30
LFB	Endosulfan Sulfate	1.81	LCS	P	0 - 30
LFB	Endrin	6.42	LCS	P	0 - 30
LFB	Endrin Aldehyde	0.799	LCS	P	0 - 30
LFB	Endrin Ketone	1.40	LCS	P	0 - 30
LFB	Ethalfuralin	2.48	LCS	P	0 - 30
LFB	Gamma-BHC	0.218	LCS	P	0 - 30
LFB	Gamma-Chlordane	1.98	LCS	P	0 - 30
LFB	Heptachlor	2.24	LCS	P	0 - 30
LFB	Heptachlor Epoxide	2.06	LCS	P	0 - 30
LFB	Hexachlorobenzene	0.620	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	1.08	LCS	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P379957

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Methoxychlor	0.245	LCS	P	0 - 30
LFB	Mirex	0.461	LCS	P	0 - 30
LFB	Permethrin	1.53	LCS	P	0 - 30
LFB	Phenothrin	1.01	LCS	P	0 - 30
LFB	Prallethrin	0.396	LCS	P	0 - 30
LFB	Trans-Nonachlor	2.61	LCS	P	0 - 30
LFB	Trifluralin	1.10	LCS	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P380108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161216	Acetochlor	8.75	Spike	P	0 - 30
2161216	Alachlor	9.74	Spike	P	0 - 30
2161216	Ametryn	6.93	Spike	P	0 - 30
2161216	Atrazine	4.63	Spike	P	0 - 30
2161216	Atrazine Desethyl	1.32	Spike	P	0 - 30
2161216	Azinphos Methyl	9.05	Spike	P	0 - 30
2161216	Bromacil	4.69	Spike	P	0 - 30
2161216	Butylate	4.04	Spike	P	0 - 30
2161216	Carbophenothion	6.30	Spike	P	0 - 30
2161216	Chlorpyrifos Ethyl	5.93	Spike	P	0 - 30
2161216	Chlorpyrifos Methyl	6.58	Spike	P	0 - 30
2161216	Cyanazine	12.0	Spike	P	0 - 30
2161216	Demeton	7.91	Spike	P	0 - 30
2161216	Diazinon	6.07	Spike	P	0 - 30
2161216	Dimethenamid	6.71	Spike	P	0 - 30
2161216	Disulfoton	11.1	Spike	P	0 - 30
2161216	Dithiopyr	0.820	Spike	P	0 - 30
2161216	EPTC	10.6	Spike	P	0 - 30
2161216	Ethion	5.92	Spike	P	0 - 30
2161216	Ethoprop	8.12	Spike	P	0 - 30
2161216	Fenamiphos	1.29	Spike	P	0 - 30
2161216	Fipronil	4.91	Spike	P	0 - 30
2161216	Fipronil Desulfinyl	2.60	Spike	P	0 - 30
2161216	Fipronil Sulfide	4.59	Spike	P	0 - 30
2161216	Fipronil Sulfone	6.50	Spike	P	0 - 30
2161216	Flumioxazin	1.91	Spike	P	0 - 30
2161216	Fonofos	5.40	Spike	P	0 - 30
2161216	Hexazinone	16.0	Spike	P	0 - 30
2161216	Imazalil	52.7	Spike	F	0 - 30
2161216	Malathion	3.65	Spike	P	0 - 30
2161216	Metalaxyl	7.34	Spike	P	0 - 30
2161216	Metolachlor	3.93	Spike	P	0 - 30
2161216	Metribuzin	8.87	Spike	P	0 - 30
2161216	Mevinphos	10.7	Spike	P	0 - 30
2161216	Molinate	7.35	Spike	P	0 - 30
2161216	Naled	21.0	Spike	P	0 - 30
2161216	Norflurazon	5.43	Spike	P	0 - 30
2161216	Oxadiazon	5.28	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P380108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161216	Parathion Ethyl	8.01	Spike	P	0 - 30
2161216	Parathion Methyl	7.45	Spike	P	0 - 30
2161216	Pendimethalin	8.51	Spike	P	0 - 30
2161216	Phorate	7.08	Spike	P	0 - 30
2161216	Prodiamine	15.2	Spike	P	0 - 30
2161216	Prometon	6.17	Spike	P	0 - 30
2161216	Prometryn	4.56	Spike	P	0 - 30
2161216	Pronamide	7.10	Spike	P	0 - 30
2161216	Propiconazole	5.75	Spike	P	0 - 30
2161216	Simazine	12.8	Spike	P	0 - 30
2161216	Sulfentrazone	12.6	Spike	P	0 - 30
2161216	Tebuconazole	5.87	Spike	P	0 - 30
2161216	Terbufos	5.42	Spike	P	0 - 30
2161216	Terbutylazine	6.26	Spike	P	0 - 30
LFB	Acetochlor	6.19	LCS	P	0 - 30
LFB	Alachlor	3.73	LCS	P	0 - 30
LFB	Ametryn	3.78	LCS	P	0 - 30
LFB	Atrazine	4.66	LCS	P	0 - 30
LFB	Atrazine Desethyl	10.4	LCS	P	0 - 30
LFB	Azinphos Methyl	4.30	LCS	P	0 - 30
LFB	Bromacil	5.72	LCS	P	0 - 30
LFB	Butylate	34.2	LCS	F	0 - 30
LFB	Carbophenothion	6.33	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	2.64	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	0.592	LCS	P	0 - 30
LFB	Cyanazine	3.12	LCS	P	0 - 30
LFB	Demeton	3.21	LCS	P	0 - 30
LFB	Diazinon	6.35	LCS	P	0 - 30
LFB	Dimethenamid	6.99	LCS	P	0 - 30
LFB	Disulfoton	1.96	LCS	P	0 - 30
LFB	Dithiopyr	4.49	LCS	P	0 - 30
LFB	EPTC	44.4	LCS	F	0 - 30
LFB	Ethion	24.2	LCS	P	0 - 30
LFB	Ethoprop	6.40	LCS	P	0 - 30
LFB	Fenamiphos	5.32	LCS	P	0 - 30
LFB	Fipronil	0.976	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	2.14	LCS	P	0 - 30
LFB	Fipronil Sulfide	4.03	LCS	P	0 - 30
LFB	Fipronil Sulfone	8.12	LCS	P	0 - 30
LFB	Flumioxazin	21.0	LCS	P	0 - 30
LFB	Fonofos	3.31	LCS	P	0 - 30
LFB	Hexazinone	0.607	LCS	P	0 - 30
LFB	Imazalil	1.37	LCS	P	0 - 30
LFB	Malathion	2.75	LCS	P	0 - 30
LFB	Metalaxyl	2.04	LCS	P	0 - 30
LFB	Metolachlor	7.13	LCS	P	0 - 30
LFB	Metribuzin	9.56	LCS	P	0 - 30
LFB	Mevinphos	14.2	LCS	P	0 - 30
LFB	Molinate	26.1	LCS	P	0 - 30
LFB	Naled	3.83	LCS	P	0 - 30
LFB	Norflurazon	0.485	LCS	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P380108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Oxadiazon	0.153	LCS	P	0 - 30
LFB	Parathion Ethyl	2.47	LCS	P	0 - 30
LFB	Parathion Methyl	4.20	LCS	P	0 - 30
LFB	Pendimethalin	0.994	LCS	P	0 - 30
LFB	Phorate	4.90	LCS	P	0 - 30
LFB	Prodiamine	19.6	LCS	P	0 - 30
LFB	Prometon	0.419	LCS	P	0 - 30
LFB	Prometryn	3.22	LCS	P	0 - 30
LFB	Pronamide	0.0685	LCS	P	0 - 30
LFB	Propiconazole	3.82	LCS	P	0 - 30
LFB	Simazine	3.52	LCS	P	0 - 30
LFB	Sulfentrazone	13.0	LCS	P	0 - 30
LFB	Tebuconazole	23.6	LCS	P	0 - 30
LFB	Terbufos	2.68	LCS	P	0 - 30
LFB	Terbutylazine	3.44	LCS	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P380780

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161812	Acetochlor	1.83	Spike	P	0 - 30
2161812	Alachlor	0.468	Spike	P	0 - 30
2161812	Ametryn	5.02	Spike	P	0 - 30
2161812	Atrazine	1.14	Spike	P	0 - 30
2161812	Atrazine Desethyl	9.62	Spike	P	0 - 30
2161812	Azinphos Methyl	12.9	Spike	P	0 - 30
2161812	Bromacil	14.9	Spike	P	0 - 30
2161812	Butylate	26.1	Spike	P	0 - 30
2161812	Carbophenothion	10.8	Spike	P	0 - 30
2161812	Chlorpyrifos Ethyl	1.44	Spike	P	0 - 30
2161812	Chlorpyrifos Methyl	1.99	Spike	P	0 - 30
2161812	Cyanazine	69.4	Spike	F	0 - 30
2161812	Demeton	6.52	Spike	P	0 - 30
2161812	Diazinon	2.24	Spike	P	0 - 30
2161812	Dimethenamid	63.8	Spike	F	0 - 30
2161812	Disulfoton	15.7	Spike	P	0 - 30
2161812	Dithiopyr	10.7	Spike	P	0 - 30
2161812	EPTC	37.2	Spike	F	0 - 30
2161812	Ethion	78.7	Spike	F	0 - 30
2161812	Ethoprop	3.83	Spike	P	0 - 30
2161812	Fenamiphos	13.0	Spike	P	0 - 30
2161812	Fipronil	1.04	Spike	P	0 - 30
2161812	Fipronil Desulfinyl	2.01	Spike	P	0 - 30
2161812	Fipronil Sulfide	0.834	Spike	P	0 - 30
2161812	Fipronil Sulfone	0.0371	Spike	P	0 - 30
2161812	Flumioxazin	16.4	Spike	P	0 - 30
2161812	Fonofos	4.43	Spike	P	0 - 30
2161812	Hexazinone	9.33	Spike	P	0 - 30
2161812	Imazalil	13.3	Spike	P	0 - 30
2161812	Malathion	6.37	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P380780

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161812	Metalaxyl	5.48	Spike	P	0 - 30
2161812	Metolachlor	4.62	Spike	P	0 - 30
2161812	Metribuzin	0.955	Spike	P	0 - 30
2161812	Mevinphos	4.36	Spike	P	0 - 30
2161812	Molinate	22.1	Spike	P	0 - 30
2161812	Naled	8.39	Spike	P	0 - 30
2161812	Norflurazon	10.5	Spike	P	0 - 30
2161812	Oxadiazon	0.706	Spike	P	0 - 30
2161812	Parathion Ethyl	7.82	Spike	P	0 - 30
2161812	Parathion Methyl	11.1	Spike	P	0 - 30
2161812	Pendimethalin	10.5	Spike	P	0 - 30
2161812	Phorate	1.28	Spike	P	0 - 30
2161812	Prodiamine	65.3	Spike	F	0 - 30
2161812	Prometon	5.56	Spike	P	0 - 30
2161812	Prometryn	5.43	Spike	P	0 - 30
2161812	Pronamide	0.252	Spike	P	0 - 30
2161812	Propiconazole	6.20	Spike	P	0 - 30
2161812	Simazine	2.24	Spike	P	0 - 30
2161812	Sulfentrazone	0.151	Spike	P	0 - 30
2161812	Tebuconazole	42.4	Spike	F	0 - 30
2161812	Terbufos	0.780	Spike	P	0 - 30
2161812	Terbuthylazine	2.69	Spike	P	0 - 30
LFB	Acetochlor	3.15	LCS	P	0 - 30
LFB	Alachlor	5.26	LCS	P	0 - 30
LFB	Ametryn	3.69	LCS	P	0 - 30
LFB	Atrazine	7.96	LCS	P	0 - 30
LFB	Atrazine Desethyl	2.55	LCS	P	0 - 30
LFB	Azinphos Methyl	22.3	LCS	P	0 - 30
LFB	Bromacil	7.57	LCS	P	0 - 30
LFB	Butylate	19.5	LCS	P	0 - 30
LFB	Carbophenothion	2.09	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	4.95	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	4.29	LCS	P	0 - 30
LFB	Cyanazine	3.04	LCS	P	0 - 30
LFB	Demeton	3.97	LCS	P	0 - 30
LFB	Diazinon	3.53	LCS	P	0 - 30
LFB	Dimethenamid	3.29	LCS	P	0 - 30
LFB	Disulfoton	0.941	LCS	P	0 - 30
LFB	Dithiopyr	2.63	LCS	P	0 - 30
LFB	EPTC	31.2	LCS	F	0 - 30
LFB	Ethion	62.3	LCS	F	0 - 30
LFB	Ethoprop	4.77	LCS	P	0 - 30
LFB	Fenamiphos	8.62	LCS	P	0 - 30
LFB	Fipronil	2.15	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	1.86	LCS	P	0 - 30
LFB	Fipronil Sulfide	2.75	LCS	P	0 - 30
LFB	Fipronil Sulfone	5.26	LCS	P	0 - 30
LFB	Flumioxazin	71.1	LCS	F	0 - 30
LFB	Fonofos	3.78	LCS	P	0 - 30
LFB	Hexazinone	3.29	LCS	P	0 - 30
LFB	Imazalil	7.04	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P380780

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Malathion	3.42	LCS	P	0 - 30
LFB	Metalaxyl	6.02	LCS	P	0 - 30
LFB	Metolachlor	4.13	LCS	P	0 - 30
LFB	Metribuzin	5.10	LCS	P	0 - 30
LFB	Mevinphos	13.2	LCS	P	0 - 30
LFB	Molinate	2.01	LCS	P	0 - 30
LFB	Naled	15.9	LCS	P	0 - 30
LFB	Norflurazon	3.14	LCS	P	0 - 30
LFB	Oxadiazon	2.64	LCS	P	0 - 30
LFB	Parathion Ethyl	6.10	LCS	P	0 - 30
LFB	Parathion Methyl	3.82	LCS	P	0 - 30
LFB	Pendimethalin	9.07	LCS	P	0 - 30
LFB	Phorate	5.00	LCS	P	0 - 30
LFB	Prodiamine	13.6	LCS	P	0 - 30
LFB	Prometon	6.88	LCS	P	0 - 30
LFB	Prometryn	3.59	LCS	P	0 - 30
LFB	Pronamide	1.38	LCS	P	0 - 30
LFB	Propiconazole	4.41	LCS	P	0 - 30
LFB	Simazine	2.30	LCS	P	0 - 30
LFB	Sulfentrazone	10.5	LCS	P	0 - 30
LFB	Tebuconazole	23.9	LCS	P	0 - 30
LFB	Terbufos	5.54	LCS	P	0 - 30
LFB	Terbutylazine	4.85	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P379957

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161141	Chlordane	0.472	Spike	P	0 - 30
2161141	Toxaphene	1.41	Spike	P	0 - 30
LFB	Chlordane	2.31	LCS	P	0 - 30
LFB	Toxaphene	2.48	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P379958

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161262	Acesulfame K	0.830	Spike	P	0 - 30
2161262	AMPA	0.00906	Spike	P	0 - 30
2161262	Endothall	13.4	Spike	P	0 - 30
2161262	Glufosinate	12.8	Spike	P	0 - 30
2161262	Glyphosate	1.65	Spike	P	0 - 30
2161262	Sucralose	3.75	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P379970

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P379970

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161211	3-Hydroxycarbofuran	14.6	Spike	P	0 - 30
2161211	Aldicarb	17.9	Spike	P	0 - 30
2161211	Aldicarb Sulfone	7.44	Spike	P	0 - 30
2161211	Aldicarb Sulfoxide	3.58	Spike	P	0 - 30
2161211	Carbaryl	2.07	Spike	P	0 - 30
2161211	Carbofuran	0.494	Spike	P	0 - 30
2161211	Methiocarb	4.85	Spike	P	0 - 30
2161211	Methomyl	3.80	Spike	P	0 - 30
2161211	Oxamyl	7.38	Spike	P	0 - 30
2161211	Propoxur	2.13	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P380128

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161361	2,4-D	22.3	Spike	P	0 - 30
2161361	Acetaminophen	7.86	Spike	P	0 - 30
2161361	Acetamiprid	3.60	Spike	P	0 - 30
2161361	Afidopyropen	0.972	Spike	P	0 - 30
2161361	Bentazon	0.354	Spike	P	0 - 30
2161361	Benzovindiflupyr	7.01	Spike	P	0 - 30
2161361	Carbamazepine	0.359	Spike	P	0 - 30
2161361	Clothianidin	0.562	Spike	P	0 - 30
2161361	Dinotefuran	6.70	Spike	P	0 - 30
2161361	Diuron	6.47	Spike	P	0 - 30
2161361	Fenuron	3.00	Spike	P	0 - 30
2161361	Fluridone	19.0	Spike	P	0 - 30
2161361	Hydrocodone	3.30	Spike	P	0 - 30
2161361	Ibuprofen	14.2	Spike	P	0 - 30
2161361	Imazapyr	2.13	Spike	P	0 - 30
2161361	Imidacloprid	7.96	Spike	P	0 - 30
2161361	Linuron	6.70	Spike	P	0 - 30
2161361	Mandestrobin	6.29	Spike	P	0 - 30
2161361	MCP	18.9	Spike	P	0 - 30
2161361	Naproxen	42.3	Spike	F	0 - 30
2161361	Primidone	7.29	Spike	P	0 - 30
2161361	Pyraclostrobin	17.3	Spike	P	0 - 30
2161361	Thiamethoxam	1.24	Spike	P	0 - 30
2161361	Tolfenpyrad	2.52	Spike	P	0 - 30
2161361	Triclopyr	5.53	Spike	P	0 - 30

Reference Method: SM 2120 B-2011

Batch ID: P380003

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161726	Color (true)	1.76	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B-2011
 Batch ID: P380004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161795	Color (true)	3.46	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
 Batch ID: P380270

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161886	Total Alkalinity	0.852	Sample	P	0 - 2.8

Reference Method: SM 2540 C-2011
 Batch ID: P380540

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161239	TDS	4.20	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
 Batch ID: P380543

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161886	TDS	0.554	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
 Batch ID: P380274

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161886	Fluoride	1.42	Spike	P	0 - 2.5

Reference Method: SM 5310 B-2011
 Batch ID: P380276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2161796	Organic Carbon	0.989	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2161805
Field Sample ID: G4CE0184

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	71.0	P	30 - 160

Lab Sample ID: 2161806
Field Sample ID: G4CE0184

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	132	P	30 - 160
EPA 8321B	Acetaminophen-d4	113	P	30 - 160
EPA 8321B	Carbamazepine-d10	92.1	P	30 - 160
EPA 8321B	Diuron-d6	54.6	P	30 - 160
EPA 8321B	Endothall-d6	147	P	30 - 160
EPA 8321B	Endothall-d6	147	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	105	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	105	P	30 - 160
EPA 8321B	Ibuprofen-d3	80.9	P	30 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Sucralose-d6	70.3	P	30 - 160
EPA 8321B	Sucralose-d6	70.3	P	30 - 160

Lab Sample ID: 2161807
Field Sample ID: G4CE0184_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	65.3	P	30 - 160

Lab Sample ID: 2161808
Field Sample ID: FB-03022020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	78.1	P	30 - 160

Lab Sample ID: 2161809
Field Sample ID: G4CE0184_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	118	P	30 - 160
EPA 8321B	Acetaminophen-d4	121	P	30 - 160
EPA 8321B	Carbamazepine-d10	109	P	30 - 160
EPA 8321B	Diuron-d6	53.2	P	30 - 160
EPA 8321B	Endothall-d6	156	P	30 - 160
EPA 8321B	Endothall-d6	156	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	102	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	102	P	30 - 160
EPA 8321B	Ibuprofen-d3	81.1	P	30 - 160
EPA 8321B	Primidone-d5	116	P	30 - 160
EPA 8321B	Sucralose-d6	67.8	P	30 - 160
EPA 8321B	Sucralose-d6	67.8	P	30 - 160

Lab Sample ID: 2161810
Field Sample ID: FB-03022020

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

Lab Sample ID: 2161810
Field Sample ID: FB-03022020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	102	P	30 - 160
EPA 8321B	Carbamazepine-d10	87.0	P	30 - 160
EPA 8321B	Diuron-d6	48.2	P	30 - 160
EPA 8321B	Endothall-d6	135	P	30 - 160
EPA 8321B	Endothall-d6	135	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	124	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	124	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.6	P	30 - 160
EPA 8321B	Primidone-d5	87.2	P	30 - 160
EPA 8321B	Sucralose-d6	92.6	P	30 - 160
EPA 8321B	Sucralose-d6	92.6	P	30 - 160

Lab Sample ID: 2161811
Field Sample ID: G4CE0184

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	67.7	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	52.2	P	34 - 106
EPA 8276	Decachlorobiphenyl	58.0	P	26 - 97.0
EPA 8276	PCNB	87.7	P	38 - 141

Lab Sample ID: 2161812
Field Sample ID: G4CE0184

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	112	P	72 - 135
EPA 8270E	Terbufos-d10	98.4	P	57 - 134

Lab Sample ID: 2161813
Field Sample ID: G4CE0184_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	72.4	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	60.7	P	34 - 106
EPA 8276	Decachlorobiphenyl	58.8	P	26 - 97.0
EPA 8276	PCNB	98.7	P	38 - 141

Lab Sample ID: 2161814
Field Sample ID: FB-03022020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	80.2	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	70.7	P	34 - 106
EPA 8276	Decachlorobiphenyl	69.4	P	26 - 97.0
EPA 8276	PCNB	102	P	38 - 141

Lab Sample ID: 2161815
Field Sample ID: G4CE0184_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	103	P	72 - 135

Quality Assurance Report Surrogates

Lab Sample ID: 2161815
Field Sample ID: G4CE0184_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Terbufos-d10	91.5	P	57 - 134

Lab Sample ID: 2161816
Field Sample ID: FB-03022020

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	97.5	P	72 - 135
EPA 8270E	Terbufos-d10	91.9	P	57 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A97966

Included Lab Sample IDs: 2161797, 2161802, 2161803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.3	95.1	P/P	90 - 110
O-Phosphate-P	98.5	97.3	P/P	90 - 110

Reference Method: SM 2120 B-2011

Run ID: A97971

Included Lab Sample IDs: 2161795, 2161798, 2161799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	100	P/P	90 - 115
Color (true)	99.0	101	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A97975

Included Lab Sample IDs: 2161795, 2161798, 2161799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A98041

Included Lab Sample IDs: 2161806, 2161809, 2161810

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	64.3	99.5	P/P	40 - 200
Glufosinate	74.6	124	P/P	40 - 200
Glyphosate	77.0	124	P/P	40 - 200

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A98048

Included Lab Sample IDs: 2161817, 2161818, 2161819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	101	103	P/P	90 - 110
Barium	103	102	P/P	90 - 110
Calcium	101	101	P/P	90 - 110
Calcium	98.5	101	P/P	90 - 110
Iron	102	103	P/P	90 - 110
Iron	99.5	102	P/P	90 - 110
Magnesium	101	102	P/P	90 - 110
Magnesium	99.0	101	P/P	90 - 110
Potassium	101	102	P/P	90 - 110
Potassium	99.0	101	P/P	90 - 110
Sodium	101	103	P/P	90 - 110
Sodium	103	103	P/P	90 - 110
Zinc	101	99.1	P/P	90 - 110
Zinc	99.5	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A98051

Included Lab Sample IDs: 2161811, 2161813, 2161814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.2		P	80 - 120
Chlordane	98.2		P	80 - 120
Toxaphene	107		P	80 - 120
Toxaphene	109		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A98055

Included Lab Sample IDs: 2161796, 2161800, 2161801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.4	99.4	P/P	90 - 110
Kjeldahl Nitrogen	99.4	93.8	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A98057

Included Lab Sample IDs: 2161796, 2161800, 2161801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.4	96.2	P/P	90 - 110
Organic Carbon	100	95.8	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A98059

Included Lab Sample IDs: 2161795, 2161798, 2161799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.7	98.8	P/P	90 - 110
Total Alkalinity	98.8	96.7	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A98059

Included Lab Sample IDs: 2161795, 2161798, 2161799

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A98061

Included Lab Sample IDs: 2161796, 2161800, 2161801

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

Reference Method: EPA 8321B

Run ID: A98069

Included Lab Sample IDs: 2161806, 2161809, 2161810

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	101	95.7	P/P	60 - 160
Endothall	125	152	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A98081

Included Lab Sample IDs: 2161817, 2161818, 2161819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	95.7	97.3	P/P	90 - 110
Aluminum	97.3	95.4	P/P	90 - 110
Arsenic	101	99.9	P/P	90 - 110
Arsenic	99.9	100	P/P	90 - 110
Boron	96.4	99.3	P/P	90 - 110
Boron	99.3	102	P/P	90 - 110
Chromium	97.2	98.2	P/P	90 - 110
Chromium	97.9	97.2	P/P	90 - 110
Copper	97.5	93.6	P/P	90 - 110
Copper	99.1	97.5	P/P	90 - 110
Lead	97.0	98.2	P/P	90 - 110
Lead	97.5	97.0	P/P	90 - 110
Nickel	98.9	100	P/P	90 - 110
Nickel	99.5	98.9	P/P	90 - 110
Selenium	96.4	97.1	P/P	90 - 110
Selenium	96.8	96.4	P/P	90 - 110
Silver	90.9	92.2	P/P	90 - 110
Silver	92.2	90.6	P/P	90 - 110
Thallium	94.1	94.7	P/P	90 - 110
Thallium	94.7	96.0	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A98085

Included Lab Sample IDs: 2161811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.9		P	80 - 120
Alpha-BHC	98.4		P	80 - 120
Alpha-Chlordane	99.2		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	90.6		P	80 - 120
Bifenthrin	97.6		P	80 - 120
Carbophenothion	96.4		P	80 - 120
Chlorothalonil	96.8		P	80 - 120
Cis-Nonachlor	96.9		P	80 - 120
Cypermethrin	91.1		P	80 - 120
Dacthal	97.1		P	80 - 120
DDD-p,p'	95.1		P	80 - 120
DDE-p,p'	95.5		P	80 - 120
DDT-p,p'	99.2		P	80 - 120
Delta-BHC	98.4		P	80 - 120
Dicofol	94.1		P	80 - 120
Dieldrin	97.6		P	80 - 120
Endosulfan I	98.5		P	80 - 120
Endosulfan II	98.6		P	80 - 120
Endosulfan Sulfate	100		P	80 - 120
Endrin	96.5		P	80 - 120
Endrin Aldehyde	96.3		P	80 - 120
Endrin Ketone	100		P	80 - 120
Ethalfuralin	99.3		P	80 - 120
Gamma-BHC	97.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A98085

Included Lab Sample IDs: 2161811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-Chlordane	98.1		P	80 - 120
Heptachlor	97.1		P	80 - 120
Heptachlor Epoxide	97.5		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Lambda-Cyhalothrin	89.0		P	80 - 120
Methoxychlor	97.8		P	80 - 120
Mirex	97.8		P	80 - 120
Permethrin	86.3		P	80 - 120
Phenothrin	85.0		P	80 - 120
Prallethrin	89.9		P	80 - 120
Trans-Nonachlor	98.1		P	80 - 120
Trifluralin	98.0		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A98096

Included Lab Sample IDs: 2161795, 2161798, 2161799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.8	99.1	P/P	90 - 110
Sulfate	98.7	99.0	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A98106

Included Lab Sample IDs: 2161813, 2161814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.2		P	80 - 120
Alpha-BHC	98.8		P	80 - 120
Alpha-Chlordane	104		P	80 - 120
Beta-BHC	103		P	80 - 120
Beta-Cyfluthrin	110		P	80 - 120
Bifenthrin	96.0		P	80 - 120
Carbophenothion	101		P	80 - 120
Chlorothalonil	87.7		P	80 - 120
Cis-Nonachlor	98.0		P	80 - 120
Cypermethrin	90.8		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	99.1		P	80 - 120
DDT-p,p'	98.3		P	80 - 120
Delta-BHC	95.7		P	80 - 120
Dicofol	95.8		P	80 - 120
Dieldrin	97.2		P	80 - 120
Endosulfan I	106		P	80 - 120
Endosulfan II	94.8		P	80 - 120
Endosulfan Sulfate	97.0		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	99.7		P	80 - 120
Endrin Ketone	97.9		P	80 - 120
Ethalfuralin	101		P	80 - 120
Gamma-BHC	99.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A98106

Included Lab Sample IDs: 2161813, 2161814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-Chlordane	102		P	80 - 120
Heptachlor	97.4		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Lambda-Cyhalothrin	90.1		P	80 - 120
Methoxychlor	99.1		P	80 - 120
Mirex	98.3		P	80 - 120
Permethrin	88.8		P	80 - 120
Phenothrin	85.3		P	80 - 120
Prallethrin	92.0		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Trifluralin	98.2		P	80 - 120

Reference Method: EPA 8270E

Run ID: A98130

Included Lab Sample IDs: 2161816

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	94.3		P	80 - 120
Azinphos Methyl	96.1		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	110		P	80 - 120
Carbophenothion	98.4		P	80 - 120
Chlorpyrifos Ethyl	99.4		P	80 - 120
Chlorpyrifos Methyl	98.3		P	80 - 120
Cyanazine	91.9		P	80 - 120
Demeton	98.5		P	80 - 120
Diazinon	102		P	80 - 120
Dimethenamid	102		P	80 - 120
Disulfoton	96.3		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	108		P	80 - 120
Ethion	98.6		P	80 - 120
Ethoprop	98.8		P	80 - 120
Fenamiphos	98.7		P	80 - 120
Fipronil	98.3		P	80 - 120
Fipronil Desulfinyl	104		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	97.2		P	80 - 120
Flumioxazin	88.2		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	97.5		P	80 - 120
Imazalil	96.5		P	80 - 120
Malathion	93.2		P	80 - 120
Metalaxyl	105		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	97.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A98130

Included Lab Sample IDs: 2161816

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mevinphos	99.4		P	80 - 120
Molinate	108		P	80 - 120
Naled	100		P	80 - 120
Norflurazon	98.6		P	80 - 120
Oxadiazon	105		P	80 - 120
Parathion Ethyl	98.4		P	80 - 120
Parathion Methyl	96.1		P	80 - 120
Pendimethalin	97.7		P	80 - 120
Phorate	98.5		P	80 - 120
Prodiamine	92.4		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	99.1		P	80 - 120
Propiconazole	100		P	80 - 120
Simazine	98.5		P	80 - 120
Sulfentrazone	97.4		P	80 - 120
Tebuconazole	100		P	80 - 120
Terbufos	98.0		P	80 - 120
Terbutylazine	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A98139

Included Lab Sample IDs: 2161817, 2161818, 2161819

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	100	97.7	P/P	90 - 110
Antimony	97.7	98.8	P/P	90 - 110
Cadmium	98.3	98.0	P/P	90 - 110
Cadmium	99.6	98.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A98179

Included Lab Sample IDs: 2161796, 2161800, 2161801

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

Reference Method: EPA 8321B

Run ID: A98184

Included Lab Sample IDs: 2161805, 2161807, 2161808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	104	92.7	P/P	60 - 150
Aldicarb	86.2	92.2	P/P	60 - 150
Aldicarb Sulfone	95.3	85.9	P/P	50 - 150
Aldicarb Sulfoxide	101	81.2	P/P	50 - 150
Carbaryl	93.8	103	P/P	60 - 150
Carbofuran	102	101	P/P	50 - 150
Methiocarb	104	102	P/P	50 - 150
Methomyl	86.7	92.2	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A98184

Included Lab Sample IDs: 2161805, 2161807, 2161808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxamyl	91.1	94.3	P/P	50 - 150
Propoxur	109	100	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A98185

Included Lab Sample IDs: 2161796, 2161800, 2161801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	98.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A98193

Included Lab Sample IDs: 2161806, 2161809, 2161810

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	102	103	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A98214

Included Lab Sample IDs: 2161806, 2161809, 2161810

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	73.5	81.4	P/P	50 - 150
Acetaminophen	128	122	P/P	60 - 160
Acetamiprid	90.0	91.2	P/P	50 - 150
Afidopyropen	82.5	66.0	P/P	50 - 150
Bentazon	114	107	P/P	50 - 160
Benzovindiflupyr	96.6	93.9	P/P	50 - 150
Carbamazepine	91.9	93.0	P/P	60 - 150
Clothianidin	108	88.8	P/P	60 - 150
Dinotefuran	106	118	P/P	50 - 150
Diuron	74.9	76.9	P/P	60 - 150
Fenuron	96.5	87.8	P/P	60 - 150
Fluridone	88.5	78.8	P/P	60 - 160
Hydrocodone	100	88.1	P/P	60 - 150
Ibuprofen	74.8	81.7	P/P	50 - 160
Imazapyr	93.2	98.5	P/P	50 - 150
Imidacloprid	88.2	84.2	P/P	60 - 150
Linuron	79.7	85.9	P/P	60 - 150
Mandestrobin	86.0	86.3	P/P	50 - 150
MCP	65.8	69.4	P/P	50 - 150
Naproxen	87.5	106	P/P	50 - 160
Primidone	93.4	92.7	P/P	60 - 150
Pyraclostrobin	99.2	92.5	P/P	60 - 150
Thiamethoxam	95.3	95.3	P/P	50 - 150
Tolfenpyrad	73.9	75.4	P/P	60 - 150
Triclopyr	66.8	76.1	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A98360

Included Lab Sample IDs: 2161812, 2161815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	100		P	80 - 120
Alachlor	104		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	101		P	80 - 120
Azinphos Methyl	98.3		P	80 - 120
Butylate	103		P	80 - 120
Carbophenothion	96.8		P	80 - 120
Chlorpyrifos Ethyl	96.9		P	80 - 120
Chlorpyrifos Methyl	96.8		P	80 - 120
Cyanazine	96.3		P	80 - 120
Demeton	96.6		P	80 - 120
Diazinon	99.2		P	80 - 120
Dimethenamid	103		P	80 - 120
Disulfoton	99.7		P	80 - 120
Dithiopyr	104		P	80 - 120
EPTC	93.2		P	80 - 120
Ethion	97.1		P	80 - 120
Ethoprop	101		P	80 - 120
Fenamiphos	98.3		P	80 - 120
Fipronil	102		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	98.8		P	80 - 120
Flumioxazin	93.9		P	80 - 120
Fonofos	98.4		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	100		P	80 - 120
Malathion	98.4		P	80 - 120
Metalaxyl	104		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	102		P	80 - 120
Molinate	94.7		P	80 - 120
Naled	102		P	80 - 120
Oxadiazon	106		P	80 - 120
Parathion Ethyl	99.1		P	80 - 120
Parathion Methyl	99.2		P	80 - 120
Pendimethalin	99.7		P	80 - 120
Phorate	96.4		P	80 - 120
Prodiamine	99.7		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	102		P	80 - 120
Propiconazole	103		P	80 - 120
Simazine	100		P	80 - 120
Sulfentrazone	97.8		P	80 - 120
Tebuconazole	98.1		P	80 - 120
Terbufos	97.3		P	80 - 120
Terbutylazine	99.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A98397

Included Lab Sample IDs: 2161812, 2161815

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	100		P	80 - 120
Norflurazon	104		P	80 - 120

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity							2.12	
EPA 200.7 Rev. 4.4	Barium	99.2		103	102	102			0.0477
	Calcium	102		100	100	99.7			0.189
	Iron	100		102	102	102			0.0367
	Magnesium	102		103	102	103			0.464
	Potassium	98.7		105	101	101			0.406
	Sodium	99.6		99.1	99.2	98.4			0.618
	Zinc	99.8		104	101	101			0.276
EPA 200.8 Rev. 5.4	Aluminum	94.4		93.9	95.2	95.0			1.12
	Antimony	103		103	103	100			0.301
	Arsenic	98.6		96.6	96.3	97.9			0.311
	Boron	99.4		102	101	102			1.74
	Cadmium	101		103	101	102			1.39
	Chromium	98.8		97.8	98.4	97.9			0.663
	Copper	98.1		95.6	95.9	93.0			0.357
	Lead	95.8		96.8	96.1	96.3			0.709
	Nickel	96.3		96.2	95.1	99.3			1.20
	Selenium	94.0		93.2	92.7	86.9			0.531
	Silver	94.1		93.3	94.1	92.2			0.904
	Thallium	99.1		101	100	102			0.455
EPA 300.0 Rev. 2.1	Chloride	98.2		95.9	96.5			0.0634	
	Sulfate	98.3		98.4	98.0			0.322	
EPA 350.1 Rev. 2.0	Ammonia-N	99.1		99.0	100				1.26
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.0		106	107				0.611
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5		96.9	96.9				0.0
EPA 365.1 Rev. 2.0	Total-P	104		106	108				1.02
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	105		64.5	62.2				3.40
EPA 8270E	Acetochlor	95.3	101	102	93.2		6.19		8.75
	Acetochlor	86.4	89.1	80.8	82.3		3.15		1.83
	Alachlor	96.3	100	104	94.6		3.73		9.74
	Alachlor	84.8	89.4	77.1	76.7		5.26		0.468
	Aldrin	50.3	49.6	67.9	66.4		1.43		2.24
	Alpha-BHC	90.4	87.9	93.3	92.6		2.75		0.776
	Alpha-Chlordane	87.8	88.7	89.9	88.5		0.946		1.61
	Ametryn	98.3	102	99.7	107		3.78		6.93
	Ametryn	95.2	98.8	81.0	85.1		3.69		5.02
	Atrazine	101	106				4.66		4.63
	Atrazine	104	113	101	103		7.96		1.14
	Atrazine Desethyl	81.3	90.2	73.0	74.3		10.4		1.32
	Atrazine Desethyl	80.0	82.1	55.0	60.5		2.55		9.62
	Azinphos Methyl	102	98.1	103	94.4		4.30		9.05
	Azinphos Methyl	89.9	112	96.4	110		22.3		12.9
	Beta-BHC	99.4	97.0	104	100		2.47		3.54
	Beta-Cyfluthrin	84.1	83.4	91.4	95.5		0.860		4.30
	Bifenthrin	88.6	88.4	96.9	98.2		0.149		1.27
	Bromacil	65.1	69.0				5.72		4.69
	Bromacil	86.2	92.9				7.57		14.9
	Butylate	66.8	94.3	78.1	75.0		34.2		4.04
	Butylate	71.7	59.0	84.3	64.8		19.5		26.1
	Carbophenothion	69.2	73.3	113	115		5.70		1.85
	Carbophenothion	96.2	90.3	92.3	86.7		6.33		6.30
	Carbophenothion	84.3	82.6	59.8	53.7		2.09		10.8
	Chlorothalonil	86.3	93.4	41.8	31.8		7.93		27.3
	Chlorpyrifos Ethyl	98.6	101	103	97.0		2.64		5.93

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	SMP
EPA 8270E	Chlorpyrifos Ethyl	87.7	92.2	84.7	85.9	4.95	1.44
	Chlorpyrifos Methyl	97.8	98.4	101	94.5	0.592	6.58
	Chlorpyrifos Methyl	92.4	96.5	83.3	81.6	4.29	1.99
	Cis-Nonachlor	89.7	88.3	92.0	90.9	1.47	1.19
	Cyanazine	175	180	180	159	3.12	12.0
	Cyanazine	103	106	72.6	35.2	3.04	69.4
	Cypermethrin	87.8	87.9	102	112	0.115	8.76
	Dacthal	91.6	88.9	90.5	88.1	2.93	2.66
	DDD-p,p'	95.0	93.7	97.2	96.2	1.41	1.07
	DDE-p,p'	85.2	83.7	81.4	79.5	1.74	2.34
	DDT-p,p'	79.0	78.9	79.7	77.3	0.0705	3.15
	Delta-BHC	110	113	219	233	2.75	6.31
	Demeton	86.9	89.7	96.5	89.2	3.21	7.91
	Demeton	93.1	89.5	98.5	105	3.97	6.52
	Diazinon	94.0	100	101	94.9	6.35	6.07
	Diazinon	89.9	93.1	86.1	88.1	3.53	2.24
	Dicofol	75.2	73.8	65.2	63.4	1.81	2.70
	Dieldrin	94.8	89.9	90.3	88.9	5.25	1.59
	Dimethenamid	92.5	99.2	101	94.5	6.99	6.71
	Dimethenamid	83.5	80.8	62.0	32.0	3.29	63.8
	Disulfoton	84.1	85.7	86.9	77.8	1.96	11.1
	Disulfoton	90.7	91.6	80.1	68.4	0.941	15.7
	Dithiopyr	87.2	91.2	89.1	88.3	4.49	0.820
	Dithiopyr	78.7	80.8	61.6	68.5	2.63	10.7
	Endosulfan I	104	92.2	101	108	11.9	6.54
	Endosulfan II	103	108	114	109	4.70	3.88
	Endosulfan Sulfate	97.6	99.4	112	114	1.81	1.60
	Endrin	90.6	96.6	96.7	91.0	6.42	6.01
	Endrin Aldehyde	90.3	89.5	92.0	89.0	0.799	3.34
	Endrin Ketone	96.0	97.4	99.6	101	1.40	1.15
	EPTC	56.5	88.7	75.2	67.7	44.4	10.6
	EPTC	70.2	51.2	55.2	80.4	31.2	37.2
	Ethalfuralin	80.1	78.2	82.8	83.3	2.48	0.576
	Ethion	91.5	71.7	89.3	84.1	24.2	5.92
	Ethion	32.6	17.1	13.0	5.67	62.3	78.7
	Ethoprop	90.7	96.7	99.9	92.1	6.40	8.12
	Ethoprop	98.2	93.6	114	118	4.77	3.83
	Fenamiphos	91.1	86.4	83.4	82.3	5.32	1.29
	Fenamiphos	84.8	77.8	91.8	80.6	8.62	13.0
	Fipronil	92.7	93.6	98.4	91.5	0.976	4.91
	Fipronil	86.0	84.2	70.8	70.1	2.15	1.04
	Fipronil Desulfinyl	96.1	98.2	97.9	94.9	2.14	2.60
	Fipronil Desulfinyl	87.8	86.2	72.4	70.9	1.86	2.01
	Fipronil Sulfide	89.7	86.1	89.7	84.9	4.03	4.59
	Fipronil Sulfide	80.0	82.2	70.4	69.8	2.75	0.834
	Fipronil Sulfone	87.1	80.3	87.8	74.8	8.12	6.50
	Fipronil Sulfone	71.7	75.6	60.7	60.7	5.26	0.0371
	Flumioxazin	83.8	67.9	134	131	21.0	1.91
	Flumioxazin	168	79.7	114	96.7	71.1	16.4
	Fonofos	88.4	91.4	95.0	90.0	3.31	5.40
	Fonofos	93.9	97.5	86.8	90.7	3.78	4.43
	Gamma-BHC	98.9	99.1	102	103	0.218	0.954
	Gamma-Chlordane	82.6	84.2	84.9	84.8	1.98	0.149
	Heptachlor	75.7	77.4	77.7	76.6	2.24	1.34

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Heptachlor Epoxide	87.8	89.7	90.4	89.1	2.06		1.43
	Hexachlorobenzene	74.9	75.4	72.2	72.5	0.620		0.489
	Hexazinone	101	101	114	95.3	0.607		16.0
	Hexazinone	92.8	95.9	88.1	96.7	3.29		9.33
	Imazalil	93.4	92.1	86.5	148	1.37		52.7
	Imazalil	86.9	93.2	69.2	79.1	7.04		13.3
	Lambda-Cyhalothrin	78.0	78.9	92.6	95.0	1.08		2.58
	Malathion	104	107	104	100	2.75		3.65
	Malathion	106	109	90.6	96.6	3.42		6.37
	Metalaxyl	101	103	105	97.6	2.04		7.34
	Metalaxyl	85.9	91.2			6.02		5.48
	Methoxychlor	94.2	94.4	98.0	98.3	0.245		0.215
	Metolachlor	90.1	96.7	96.2	91.7	7.13		3.93
	Metolachlor	76.4	79.6	68.8	65.6	4.13		4.62
	Metribuzin	159	175	171	156	9.56		8.87
	Metribuzin	119	125	103	102	5.10		0.955
	Mevinphos	92.5	107	107	96.0	14.2		10.7
	Mevinphos	100	115	120	125	13.2		4.36
	Mirex	69.2	69.5	74.8	73.5	0.461		1.83
	Molinate	72.0	93.6	87.1	80.9	26.1		7.35
	Molinate	75.7	74.2	68.9	86.0	2.01		22.1
	Naled	61.2	63.6	78.6	63.7	3.83		21.0
	Naled	58.0	49.4	54.9	59.7	15.9		8.39
	Norflurazon	94.4	93.9	92.5	87.6	0.485		5.43
	Norflurazon	78.8	81.3			3.14		10.5
	Oxadiazon	91.8	91.7	95.1	90.2	0.153		5.28
	Oxadiazon	79.9	82.0	63.6	64.0	2.64		0.706
	Parathion Ethyl	97.5	95.1	99.2	91.6	2.47		8.01
	Parathion Ethyl	91.5	97.3	88.6	95.8	6.10		7.82
	Parathion Methyl	102	106	107	98.9	4.20		7.45
	Parathion Methyl	106	110	107	119	3.82		11.1
	Pendimethalin	88.9	89.8	108	99.5	0.994		8.51
	Pendimethalin	77.6	85.0	77.9	86.6	9.07		10.5
	Permethrin	77.4	76.2	86.1	87.1	1.53		1.15
	Phenothrin	52.8	52.3	75.4	76.4	1.01		1.27
	Phorate	95.4	100	96.8	90.2	4.90		7.08
	Phorate	95.9	101	94.6	95.8	5.00		1.28
	Prallethrin	64.3	64.6	75.4	74.3	0.396		1.36
	Prodiamine	73.3	89.2	95.3	114	19.6		15.2
	Prodiamine	57.3	50.0	29.5	58.1	13.6		65.3
	Prometon	94.9	95.3	97.8	90.9	0.419		6.17
	Prometon	89.3	95.6	82.2	86.9	6.88		5.56
	Prometryn	95.4	98.5	101	96.3	3.22		4.56
	Prometryn	93.1	96.5	80.8	85.3	3.59		5.43
	Pronamide	100	100	124	116	0.0685		7.10
	Pronamide	98.8	97.4	92.9	92.6	1.38		0.252
	Propiconazole	87.4	84.1	86.0	80.4	3.82		5.75
	Propiconazole	73.4	76.8	54.2	50.9	4.41		6.20
	Simazine	101	105	107	82.8	3.52		12.8
	Simazine	106	108	108	101	2.30		2.24
	Sulfentrazone	15.6	17.7	88.4	77.9	13.0		12.6
	Sulfentrazone	57.4	63.7	55.1	55.2	10.5		0.151
	Tebuconazole	60.6	47.8	56.8	53.5	23.6		5.87
	Tebuconazole	32.9	41.8	5.49	8.44	23.9		42.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Terbufos	93.8	96.4	101	96.0	2.68	5.42
	Terbufos	98.3	104	99.1	98.4	5.54	0.780
	Terbuthylazine	96.6	99.9	110	103	3.44	6.26
	Terbuthylazine	90.7	95.2	89.0	86.6	4.85	2.69
	Trans-Nonachlor	82.3	84.4	84.4	82.9	2.61	1.88
	Trifluralin	80.4	81.3	81.7	81.9	1.10	0.269
EPA 8276	Chlordane	98.1	95.8	105	105	2.31	0.472
	Toxaphene	92.1	94.4	103	105	2.48	1.41
EPA 8321B	2,4-D	127		83.4	106		22.3
	3-Hydroxycarbofuran	67.6		71.9	62.1		14.6
	Acesulfame K	96.0		19.8	19.6		0.830
	Acetaminophen	109		126	117		7.86
	Acetamiprid	91.6		83.3	86.3		3.60
	Afidopyropen	81.1		87.2	88.0		0.972
	Aldicarb	48.6		75.5	90.4		17.9
	Aldicarb Sulfone	76.4		75.4	81.2		7.44
	Aldicarb Sulfoxide	74.4		31.2	30.1		3.58
	AMPA	97.8		70.8	70.8		0.0090
	Bentazon	89.6		42.6	42.9		0.354
	Benzovindiflupyr	80.6		86.6	80.7		7.01
	Carbamazepine	93.1		73.9	74.2		0.359
	Carbaryl	70.2		58.8	60.0		2.07
	Carbofuran	66.6		53.7	54.0		0.494
	Clothianidin	93.9		91.9	92.4		0.562
	Dinotefuran	114		143	134		6.70
	Diuron	74.0		65.1	61.0		6.47
	Endothall	133		134	153		13.4
	Fenuron	102		77.1	74.8		3.00
	Fluridone	76.1		79.9	65.1		19.0
	Glufosinate	123		109	124		12.8
	Glyphosate	114		160	148		1.65
	Hydrocodone	88.9		88.4	85.6		3.30
	Ibuprofen	82.1		78.2	67.9		14.2
	Imazapyr	93.5					2.13
	Imidacloprid	99.2		157	145		7.96
	Linuron	71.5		66.0	61.7		6.70
	Mandestrobin	84.5		86.2	81.0		6.29
	MCPP	120		125	104		18.9
	Methiocarb	65.8		60.6	63.6		4.85
	Methomyl	75.9		72.1	69.4		3.80
	Naproxen	102		105	68.3		42.3
	Oxamyl	78.1		75.2	69.8		7.38
	Primidone	92.7		96.6	89.8		7.29
	Propoxur	64.2		56.4	55.2		2.13
	Pyraclostrobin	81.0		99.5	83.6		17.3
	Sucralose	101		88.9	94.8		3.75
	Thiamethoxam	95.3		138	136		1.24
	Tolfenpyrad	40.0		47.2	46.0		2.52
	Triclopyr	102		105	99.7		5.53
SM 2120 B-2011	Color (true)	101				1.76	
	Color (true)	99.8				3.46	
SM 2320 B-2011	Total Alkalinity	99.1				0.852	
SM 2540 C-2011	TDS					4.20	
	TDS					0.554	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 4500 F-C-2011	Fluoride	98.8	103	105		1.42
SM 5310 B-2011	Organic Carbon	96.8	97.9	99.2		0.989

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2161795, 2161798, 2161799
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2161817, 2161818, 2161819
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2161817, 2161818, 2161819
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2161795, 2161798, 2161799
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2161795, 2161798, 2161799
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2161796, 2161800, 2161801
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2161796, 2161800, 2161801
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2161796, 2161800, 2161801
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2161796, 2161800, 2161801
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2161797, 2161802, 2161803
EPA 8270E	Organochlorine pesticides in water matrices by GC/MS-SIM	2161811, 2161813, 2161814
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2161812, 2161815, 2161816
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2161811, 2161813, 2161814
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2161805, 2161807, 2161808
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2161806, 2161809, 2161810
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2161806, 2161809, 2161810
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2161795, 2161798, 2161799
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2161795, 2161798, 2161799
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2161795, 2161798, 2161799
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2161795, 2161798, 2161799
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2161795, 2161798, 2161799
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2161796, 2161800, 2161801

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	03/03/2020			03/03/2020 18:12	Samantha Davila	2161795, 2161798, 2161799
EPA 200.7 Rev. 4.4	03/03/2020	03/05/2020 13:55	Elliott D. Healy	03/06/2020 15:15	Betina Topolski	2161819
	03/03/2020	03/05/2020 13:55	Elliott D. Healy	03/06/2020 17:25	Betina Topolski	2161817
	03/03/2020	03/05/2020 13:55	Elliott D. Healy	03/06/2020 17:33	Betina Topolski	2161818
EPA 200.8 Rev. 5.4	03/03/2020	03/05/2020 13:55	Elliott D. Healy	03/09/2020 15:28	Alexander Thompson	2161819
	03/03/2020	03/05/2020 13:55	Elliott D. Healy	03/09/2020 18:02	Alexander Thompson	2161817
	03/03/2020	03/05/2020 13:55	Elliott D. Healy	03/09/2020 18:12	Alexander Thompson	2161818
	03/03/2020	03/05/2020 13:55	Elliott D. Healy	03/10/2020 14:47	Justin Cutchin	2161819
	03/03/2020	03/05/2020 13:55	Elliott D. Healy	03/10/2020 15:34	Justin Cutchin	2161817
	03/03/2020	03/05/2020 13:55	Elliott D. Healy	03/10/2020 15:38	Justin Cutchin	2161818
EPA 300.0 Rev. 2.1	03/03/2020			03/09/2020 23:17	Lipi Saha	2161795
	03/03/2020			03/09/2020 23:30	Lipi Saha	2161798
	03/03/2020			03/09/2020 23:42	Lipi Saha	2161799
EPA 350.1 Rev. 2.0	03/03/2020			03/10/2020 11:35	Ping Hua	2161796
	03/03/2020			03/10/2020 11:40	Ping Hua	2161800
	03/03/2020			03/10/2020 11:56	Ping Hua	2161801
EPA 351.2 Rev. 2.0	03/03/2020	03/05/2020 12:35	Sima Feizi	03/06/2020 20:41	Julia Storbeck	2161796
	03/03/2020	03/05/2020 12:35	Sima Feizi	03/06/2020 20:43	Julia Storbeck	2161800
	03/03/2020	03/05/2020 12:35	Sima Feizi	03/06/2020 20:47	Julia Storbeck	2161801
EPA 353.2 Rev. 2.0	03/03/2020			03/09/2020 11:44	Beverly Y. Sanders	2161796
	03/03/2020			03/09/2020 11:45	Beverly Y. Sanders	2161800
	03/03/2020			03/09/2020 11:46	Beverly Y. Sanders	2161801
EPA 365.1 Rev. 2.0	03/03/2020	03/09/2020 14:56	Yen Ta	03/12/2020 13:52	Benjamin T. Nordmann	2161801
	03/03/2020	03/09/2020 14:56	Yen Ta	03/12/2020 13:54	Benjamin T. Nordmann	2161796
	03/03/2020	03/09/2020 14:56	Yen Ta	03/12/2020 13:55	Benjamin T. Nordmann	2161800
EPA 365.1 Rev. 2.0 dissolved	03/03/2020			03/03/2020 16:31	Carlos Miranda	2161802, 2161803
	03/03/2020			03/03/2020 16:46	Carlos Miranda	2161797
EPA 8270E	03/03/2020	03/04/2020 09:00	Julie Wi	03/06/2020 16:54	Vandana T. Nagar	2161816
	03/03/2020	03/04/2020 09:30	Rasheda Ghaffari	03/10/2020 00:15	Arthur Maknenko	2161811
	03/03/2020	03/04/2020 09:30	Rasheda Ghaffari	03/10/2020 16:42	Arthur Maknenko	2161813
	03/03/2020	03/04/2020 09:30	Rasheda Ghaffari	03/10/2020 17:13	Arthur Maknenko	2161814
	03/03/2020	03/17/2020 09:00	Julie Wi	03/19/2020 14:50	Vandana T. Nagar	2161812
	03/03/2020	03/17/2020 09:00	Julie Wi	03/19/2020 15:15	Vandana T. Nagar	2161815
	03/03/2020	03/17/2020 09:00	Julie Wi	03/20/2020 18:58	Vandana T. Nagar	2161812
	03/03/2020	03/17/2020 09:00	Julie Wi	03/20/2020 19:23	Vandana T. Nagar	2161815
EPA 8276	03/03/2020	03/04/2020 09:30	Rasheda Ghaffari	03/07/2020 06:55	Michael Poppell	2161811
	03/03/2020	03/04/2020 09:30	Rasheda Ghaffari	03/07/2020 08:46	Michael Poppell	2161813
	03/03/2020	03/04/2020 09:30	Rasheda Ghaffari	03/07/2020 09:41	Michael Poppell	2161814
EPA 8321B	03/03/2020	03/03/2020 15:15	Rebecca Ware	03/03/2020 18:07	Rebecca Ware	2161806
	03/03/2020	03/03/2020 15:15	Rebecca Ware	03/03/2020 18:18	Rebecca Ware	2161809

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	03/03/2020	03/03/2020 15:15	Rebecca Ware	03/03/2020 18:29	Rebecca Ware	2161810
	03/03/2020	03/03/2020 15:15	Rebecca Ware	03/04/2020 18:47	Rebecca Ware	2161806
	03/03/2020	03/03/2020 15:15	Rebecca Ware	03/04/2020 19:01	Rebecca Ware	2161809
	03/03/2020	03/03/2020 15:15	Rebecca Ware	03/04/2020 19:15	Rebecca Ware	2161810
	03/03/2020	03/03/2020 15:15	Rebecca Ware	03/13/2020 01:19	Rebecca Ware	2161806
	03/03/2020	03/03/2020 15:15	Rebecca Ware	03/13/2020 01:31	Rebecca Ware	2161809
	03/03/2020	03/03/2020 15:15	Rebecca Ware	03/13/2020 01:42	Rebecca Ware	2161810
	03/03/2020	03/05/2020 09:00	Hoor Shaik	03/10/2020 03:12	Juyoung Kim	2161805
	03/03/2020	03/05/2020 09:00	Hoor Shaik	03/10/2020 03:47	Juyoung Kim	2161807
	03/03/2020	03/05/2020 09:00	Hoor Shaik	03/10/2020 04:21	Juyoung Kim	2161808
	03/03/2020	03/06/2020 10:00	Hoor Shaik	03/12/2020 04:05	Juyoung Kim	2161806
	03/03/2020	03/06/2020 10:00	Hoor Shaik	03/12/2020 04:39	Juyoung Kim	2161809
	03/03/2020	03/06/2020 10:00	Hoor Shaik	03/12/2020 05:14	Juyoung Kim	2161810
	03/03/2020			03/03/2020 18:37	Madeline Gruver	2161799
SM 2120 B-2011	03/03/2020			03/03/2020 18:41	Madeline Gruver	2161795
	03/03/2020			03/03/2020 18:42	Madeline Gruver	2161798
	03/03/2020			03/07/2020 15:58	Samantha Davila	2161795
SM 2320 B-2011	03/03/2020			03/07/2020 16:10	Samantha Davila	2161798
	03/03/2020			03/07/2020 16:43	Samantha Davila	2161799
	03/03/2020			03/05/2020 15:08	Yijie Li	2161795, 2161798, 2161799
SM 2540 C-2011	03/03/2020			03/05/2020 15:08	Yijie Li	2161795, 2161798, 2161799
SM 4500 F-C-2011	03/03/2020			03/07/2020 15:58	Samantha Davila	2161795
	03/03/2020			03/07/2020 16:10	Samantha Davila	2161798
	03/03/2020			03/07/2020 16:43	Samantha Davila	2161799
SM 5310 B-2011	03/03/2020			03/06/2020 15:47	Lauren Lees	2161796
	03/03/2020			03/06/2020 21:32	Lauren Lees	2161800
	03/03/2020			03/06/2020 21:44	Lauren Lees	2161801