

Chemical Analysis Report

TLH-ROC-2022-06-27-03

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

Event Description: **Run 12**
Request ID: **RQ-2022-06-20-24**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 19-JUL-2022 11:02

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the "T" and a long horizontal stroke at the end.

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: 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: Watson Bayou North ENCOC

Collection Date/Time: 06/27/2022 11:40

Field ID: G3TLHR0016

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337393	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P415901	
	SM 2320 B-2011	Total Alkalinity	88		mg CaCO3/L	P416333	
	SM 2540 D-2011	TSS	9	I	mg/L	P416193	
	SM 4500-F- C-2011	Fluoride	0.81		mg F/L	P416334	
2337395	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P415991	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.54		mg N/L	P416108	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P416292	
	EPA 365.1 Rev. 2.0	Total-P	0.031		mg P/L	P416020	
	SM 5310 B-2011	Organic Carbon	5.5		mg C/L	P416029	

Ref. Method and Comment:

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

Sample Location: FB

Collection Date/Time: 06/27/2022 12:05

Field ID: FB_06272022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337394	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P415901	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P416073	
	SM 2540 D-2011	TSS	2	U	mg/L	P416192	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P416338	
2337396	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P415993	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P416110	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P416403	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P416024	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P416028	
2337397	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P415888	

Ref. Method and Comment:

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

Sample Location: Parker Creek @ Park

Collection Date/Time: 06/27/2022 12:15

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337398	DEP SOP: NU-094-1	Color (true)	40	A	PCU	P415909	
	EPA 180.1 Rev. 2.0	Turbidity	11		NTU	P415901	
	EPA 300.0 Rev. 2.1	Chloride	6.7		mg Cl/L	P416148	
		Sulfate	12		mg SO4/L	P416151	
	SM 2320 B-2011	Total Alkalinity	28		mg CaCO3/L	P416073	
	SM 2540 C-2011	TDS	68		mg/L	P416224	
	SM 2540 D-2011	TSS	19		mg/L	P416191	
	SM 4500-F- C-2011	Fluoride	0.058	I	mg F/L	P416338	
2337399	EPA 350.1 Rev. 2.0	Ammonia-N	0.031		mg N/L	P415993	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.44		mg N/L	P416110	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.057		mg N/L	P416403	
	EPA 365.1 Rev. 2.0	Total-P	0.034		mg P/L	P416024	
	SM 5310 B-2011	Organic Carbon	5.8		mg C/L	P416028	
2337404	EPA 8321B	Aldicarb	0.020	U	ug/L	P416027	
		Aldicarb Sulfone	0.0020	U	ug/L	P416027	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P416027	
		Carbaryl	0.0020	U	ug/L	P416027	
		Carbofuran	0.0020	U	ug/L	P416027	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P416027	
		Methiocarb	0.0020	U	ug/L	P416027	
		Methomyl	0.0020	U	ug/L	P416027	
		Oxamyl	0.0020	U	ug/L	P416027	
		Propoxur	0.0020	U	ug/L	P416027	
		2,4-D	0.041		ug/L	P415828	
		Acesulfame K	0.10	U	ug/L	P415853	
		AMPA	0.10	U	ug/L	P415853	
2337405		2,4,5-T	0.0040	U	ug/L	P415828	MS
		Acetaminophen	0.0080	U	ug/L	P415828	
		Acetamiprid	0.0020	U	ug/L	P415828	
		Endothall	0.25	U	ug/L	P415853	
		Glufosinate	0.10	U	ug/L	P415853	
		Glyphosate	0.12	I	ug/L	P415853	
		Afidopyropen	0.0020	U	ug/L	P415828	
		Bentazon	0.0083		ug/L	P415828	
		Sucralose	0.19		ug/L	P415853	
		Benzovindiflupyr	0.0020	U	ug/L	P415828	
		Carbamazepine	8.0E-04	U	ug/L	P415828	
		Clothianidin	0.0020	U	ug/L	P415828	
		Dinotefuran	0.0034	I	ug/L	P415828	
		Diuron	0.0028	I	ug/L	P415828	
		Fenuron	0.032	U	ug/L	P415828	
		Fluridone	8.0E-04	U	ug/L	P415828	
		Imazapyr	0.010	I	ug/L	P415828	
		Hydrocodone	0.0020	U	ug/L	P415828	

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337405	EPA 8321B	Ibuprofen	0.080	U	ug/L	P415828	
		Imidacloprid	0.026		ug/L	P415828	
		Linuron	0.0040	U	ug/L	P415828	
		Mandestrobin	0.0020	U	ug/L	P415828	
		MCP	0.012	I	ug/L	P415828	
		Naproxen	0.0080	U	ug/L	P415828	
		Primidone	0.0040	U	ug/L	P415828	
		Pyraclostrobin	0.0020	U	ug/L	P415828	
		Silvex	0.0040	U	ug/L	P415828	
		Thiamethoxam	0.0020	U	ug/L	P415828	
		Tolfenpyrad	0.0020	U	ug/L	P415828	
		Triclopyr	0.0040	U	ug/L	P415828	
2337406	EPA 8270E	Aldrin	0.68	U	ng/L	P415936	
		Alpha-BHC	0.10	U	ng/L	P415936	
		Alpha-Chlordane	0.21	I	ng/L	P415936	
		Beta-BHC	0.10	U	ng/L	P415936	
		Beta-Cyfluthrin	1.3	U	ng/L	P415936	
		Bifenthrin	0.52	U	ng/L	P415936	
		Chlorothalonil	1.3	U	ng/L	P415936	
		Cis-Nonachlor	0.21	U	ng/L	P415936	
		Cypermethrin	1.6	U	ng/L	P415936	
		Dacthal	0.16	U	ng/L	P415936	
		DDD-p,p'	0.26	U	ng/L	P415936	
		DDE-p,p'	0.21	U	ng/L	P415936	
		DDT-p,p'	0.26	U	ng/L	P415936	
		Delta-BHC	0.42	U	ng/L	P415936	
		Deltamethrin	1.3	U	ng/L	P415936	
		Dichlobenil	0.26	U	ng/L	P415936	
		Dicofol	1.3	U	ng/L	P415936	
		Dieldrin	1.6	I	ng/L	P415936	
		Endosulfan I	0.42	U	ng/L	P415936	
		Endosulfan II	0.42	U	ng/L	P415936	
		Endosulfan Sulfate	0.31	U	ng/L	P415936	
		Endrin	0.42	U	ng/L	P415936	
		Endrin Aldehyde	0.78	U	ng/L	P415936	
		Endrin Ketone	0.42	U	ng/L	P415936	
		Esfenvalerate	0.78	U	ng/L	P415936	
		Ethalfuralin	0.16	U	ng/L	P415936	
		Fenpropathrin	0.26	U	ng/L	P415936	
		Gamma-BHC	0.13	U	ng/L	P415936	
		Gamma-Chlordane	0.30	I	ng/L	P415936	
		Heptachlor	0.21	U	ng/L	P415936	
		Heptachlor Epoxide	0.38	I	ng/L	P415936	
		Hexachlorobenzene**	1.0	U	ng/L	P415936	
		Kepone	5.2	U	ng/L	P415936	

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337406	EPA 8270E	Lambda-Cyhalothrin	0.78	U	ng/L	P415936	
		Methoprene	0.78	U	ng/L	P415936	
		Methoxychlor	0.31	U	ng/L	P415936	
		MGK-264	0.21	U	ng/L	P415936	
		Mirex	0.73	U	ng/L	P415936	
		Oxychlordane	0.31	U	ng/L	P415936	MS
		Permethrin	1.7	U	ng/L	P415936	
		Phenothrin	0.94	U	ng/L	P415936	
		Piperonyl Butoxide	0.67	I	ng/L	P415936	MS
		Prallethrin	2.1	U	ng/L	P415936	
		Tau-Fluvalinate	0.26	U	ng/L	P415936	
		Tetramethrin	0.78	U	ng/L	P415936	
		Trans-Nonachlor	0.21	U	ng/L	P415936	
		Triclosan Methyl	0.16	U	ng/L	P415936	
		Trifluralin	0.21	U	ng/L	P415936	
		Chlordane	2.6	U	ng/L	P415936	
		Toxaphene	16	U	ng/L	P415936	
2337407	EPA 8270E	Acetochlor	0.25	U	ng/L	P415865	
		Alachlor	0.25	U	ng/L	P415865	
		Ametryn	0.72	I	ng/L	P415865	
		Atrazine	13		ng/L	P415865	
		Atrazine Desethyl	1.7	I	ng/L	P415865	
		Azinphos Methyl	2.0	U	ng/L	P415865	
		Azoxystrobin	0.57	I	ng/L	P415865	
		Bromacil	3.1		ng/L	P415865	
		Butylate	0.40	U	ng/L	P415865	
		Caffeine**	31		ng/L	P415865	
		Carbophenothion	0.20	U	ng/L	P415865	
		Carfentrazone Ethyl	0.10	U	ng/L	P415865	
		Chlorfenapyr	0.18	U	ng/L	P415865	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P415865	
		Chlorpyrifos Methyl	0.050	U	ng/L	P415865	
		Coumaphos	0.50	U	ng/L	P415865	
		Cyanazine	3.3	U	ng/L	P415865	
		Cyprodinil	0.10	U	ng/L	P415865	
		Demeton	1.5	U	ng/L	P415865	
		Diazinon	0.13	U	ng/L	P415865	
		Difenoconazole	0.60	U	ng/L	P415865	
		Dimethenamid	0.10	UJ	ng/L	P415865	LCS
		Dimethomorph	0.18	U	ng/L	P415865	
		Disulfoton	0.50	U	ng/L	P415865	
		Dithiopyr	0.18	U	ng/L	P415865	
		EPTC	1.3	U	ng/L	P415865	
		Ethion	0.15	UJ	ng/L	P415865	LCS
		Ethoprop	0.10	U	ng/L	P415865	

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337407	EPA 8270E	Etridiazole	0.15	U	ng/L	P415865	
		Fenamiphos	0.50	U	ng/L	P415865	
		Fenbuconazole	0.13	U	ng/L	P415865	
		Fipronil	0.25	U	ng/L	P415865	
		Fipronil Desulfinyl**	0.35	I	ng/L	P415865	
		Fipronil Sulfide	0.60		ng/L	P415865	
		Fipronil Sulfone	2.0		ng/L	P415865	
		Fluazifop-P-butyl	0.10	U	ng/L	P415865	
		Fludioxonil	0.13	U	ng/L	P415865	
		Flumioxazin	1.8	U	ng/L	P415865	
		Flutolanil	0.10	U	ng/L	P415865	
		Fluxapyroxad	0.10	U	ng/L	P415865	
		Fonofos	0.20	U	ng/L	P415865	
		Hexazinone	0.50	U	ng/L	P415865	
		Imazalil	0.75	U	ng/L	P415865	
		Iprodione	0.60	U	ng/L	P415865	MS
		Loratadine**	0.10	U	ng/L	P415865	
		Malathion	0.35	U	ng/L	P415865	
		Metalaxyl	0.75	U	ng/L	P415865	
		Metolachlor	0.35	U	ng/L	P415865	
		Metribuzin	2.5	U	ng/L	P415865	
		Mevinphos	1.1	U	ng/L	P415865	
		Molinate	0.30	U	ng/L	P415865	
		Myclobutanil	1.5		ng/L	P415865	
		Naled	1.5	U	ng/L	P415865	
		Napropamide	0.40	U	ng/L	P415865	
		Norflurazon	0.50	U	ng/L	P415865	
		Oxadiazon	4.5		ng/L	P415865	
		Oxyfluorfen	0.15	U	ng/L	P415865	
		Parathion Ethyl	0.25	U	ng/L	P415865	
		Parathion Methyl	0.55	U	ng/L	P415865	
		Pendimethalin	1.0	U	ng/L	P415865	
		Phenytion**	3.5	U	ng/L	P415865	MS
		Phorate	0.53	U	ng/L	P415865	
		Prodiamine	0.18	U	ng/L	P415865	
		Prometon	0.90	U	ng/L	P415865	
		Prometryn	0.20	U	ng/L	P415865	
		Pronamide	0.15	U	ng/L	P415865	
		Propanil	0.13	U	ng/L	P415865	
		Propargite	1.5	U	ng/L	P415865	
		Propiconazole	0.93	I	ng/L	P415865	
		Pyraflufen Ethyl	0.25	U	ng/L	P415865	
		Pyridaben	0.45	U	ng/L	P415865	
		Pyriproxyfen	0.13	U	ng/L	P415865	RPD
		Simazine	0.50	U	ng/L	P415865	

Field ID: G3TLHR0040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2337407	EPA 8270E	Stirophos	0.13	U	ng/L	P415865	
		Sulfentrazone	7.5		ng/L	P415865	MS
		Tebuconazole	1.2	I	ng/L	P415865	
		Terbufos	0.10	U	ng/L	P415865	
		Terbutylazine	0.43	U	ng/L	P415865	
		Thiobencarb	0.60	U	ng/L	P415865	
		Triadimefon	0.25	U	ng/L	P415865	

Ref. Method and Comment:

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

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P415909

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415901

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416148

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416151

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415991

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415993

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416108

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416110

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416292

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416403

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P416020

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P416024

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P415888

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

Reference Method: EPA 8270E
Batch ID: P415865

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415865

Component	Result	Code	Units
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415865

Component	Result	Code	Units
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415865

Component	Result	Code	Units
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P415936

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415936

Component	Result	Code	Units
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415936

Component	Result	Code	Units
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.70	U	ng/L
Mirex	0.70	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P415936

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P415828

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	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	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P415828

Component	Result	Code	Units
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	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	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P415853

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: P416027

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

Reference Method: SM 2320 B-2011
Batch ID: P416073

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

Reference Method: SM 2320 B-2011
Batch ID: P416333

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2011
Batch ID: P416224

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P416191

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P416192

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P416193

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P416334

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P416338

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P416028

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

Reference Method: SM 5310 B-2011
Batch ID: P416029

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P415909

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.4		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415901

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416148

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416151

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415991

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415993

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416108

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416110

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	109		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416292

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416403

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P416020

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P416024

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P415888

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

Reference Method: EPA 8270E
Batch ID: P415865

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	91.0		P	70 - 121
Alachlor	85.1		P	68 - 119
Ametryn	77.7		P	64 - 139
Atrazine	88.7		P	76 - 120
Atrazine Desethyl	64.5		P	44 - 126
Azinphos Methyl	124		P	43 - 192
Azoxystrobin	114		P	36 - 224
Bromacil	71.1		P	52 - 121
Butylate	51.1		P	28 - 91.0
Caffeine	70.7		P	50 - 134
Carbophenothion	92.4		P	56 - 129
Carfentrazone Ethyl	94.2		P	60 - 141
Chlorfenapyr	76.4		P	56 - 115
Chlorpyrifos Ethyl	79.9		P	60 - 118
Chlorpyrifos Methyl	77.0		P	68 - 119
Coumaphos	80.5		P	18 - 250
Cyanazine	79.7		P	61 - 250
Cyprodinil	77.2		P	55 - 145
Demeton	73.5		P	30 - 159
Diazinon	91.5		P	70 - 123
Difenoconazole	89.3		P	49 - 204
Dimethenamid	58.4		F	64 - 115
Dimethomorph	159		P	12 - 219
Disulfoton	79.1		P	44 - 125
Dithiopyr	84.1		P	64 - 115
EPTC	45.2		P	28 - 86.0
Ethion	28.5		F	33 - 125
Ethoprop	78.9		P	64 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P415865

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Etridiazole	59.0		P	34 - 91.0
Fenamiphos	71.4		P	12 - 127
Fenbuconazole	87.8		P	59 - 151
Fipronil	85.3		P	67 - 129
Fipronil Desulfinyl	85.0		P	65 - 127
Fipronil Sulfide	64.7		P	61 - 116
Fipronil Sulfone	94.3		P	55 - 117
Fluazifop-P-butyl	92.4		P	62 - 127
Fludioxonil	70.8		P	62 - 128
Flumioxazin	99.2		P	33 - 250
Flutolanil	74.4		P	56 - 127
Fluxapyroxad	63.4		P	45 - 128
Fonofos	68.2		P	62 - 111
Hexazinone	68.2		P	46 - 139
Imazalil	79.9		P	38 - 142
Iprodione	77.3		P	47 - 135
Loratadine	164		P	10 - 244
Malathion	91.4		P	61 - 139
Metalaxyl	86.0		P	10 - 119
Metolachlor	82.9		P	65 - 118
Metribuzin	88.1		P	51 - 250
Mevinphos	71.5		P	53 - 121
Molinate	59.1		P	42 - 96.0
Myclobutanil	78.8		P	55 - 128
Naled	78.5		P	10 - 98.0
Napropamide	54.1		P	49 - 121
Norflurazon	74.6		P	61 - 126
Oxadiazon	72.2		P	59 - 116
Oxyfluorfen	109		P	64 - 137
Parathion Ethyl	80.5		P	70 - 112
Parathion Methyl	106		P	76 - 133
Pendimethalin	90.1		P	52 - 117
Phenytoin	15.7		P	10 - 199
Phorate	74.2		P	48 - 121
Prodiamine	53.2		P	26 - 142
Prometon	64.0		P	43 - 123
Prometryn	74.6		P	66 - 127
Pronamide	95.9		P	75 - 121
Propanil	77.7		P	45 - 150
Propargite	43.3		P	42 - 208
Propiconazole	74.2		P	60 - 125
Pyraflufen Ethyl	82.8		P	70 - 138
Pyridaben	73.1		P	35 - 245
Pyriproxyfen	70.6		P	30 - 149
Simazine	80.3		P	72 - 125
Stirophos	36.7		P	29 - 164
Sulfentrazone	82.2		P	21 - 139
Tebuconazole	30.7		P	10 - 115
Terbufos	91.2		P	60 - 123
Terbuthylazine	89.0		P	72 - 115
Thiobencarb	87.5		P	31 - 139
Triadimefon	65.6		P	65 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P415936

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	70.5		P	10 - 93.0
Alpha-BHC	97.8		P	75 - 106
Alpha-Chlordane	98.2		P	50 - 109
Beta-BHC	109		P	36 - 138
Beta-Cyfluthrin	105		P	23 - 167
Bifenthrin	79.5		P	11 - 123
Chlorothalonil	93.1		P	27 - 190
Cis-Nonachlor	83.9		P	40 - 111
Cypermethrin	105		P	25 - 155
Dacthal	110		P	72 - 119
DDD-p,p'	87.0		P	47 - 108
DDE-p,p'	97.9		P	48 - 107
DDT-p,p'	88.4		P	49 - 111
Delta-BHC	116		P	54 - 138
Deltamethrin	96.8		P	22 - 189
Dichlobenil	90.5		P	32 - 113
Dicofol	78.5		P	50 - 108
Dieldrin	102		P	56 - 110
Endosulfan I	97.0		P	60 - 105
Endosulfan II	81.0		P	50 - 120
Endosulfan Sulfate	97.2		P	55 - 121
Endrin	78.7		P	31 - 119
Endrin Aldehyde	84.5		P	36 - 116
Endrin Ketone	98.8		P	69 - 177
Esfenvalerate	92.1		P	10 - 179
Ethalfuralin	91.3		P	49 - 99.0
Fenpropathrin	96.9		P	35 - 119
Gamma-BHC	107		P	69 - 120
Gamma-Chlordane	93.0		P	45 - 107
Heptachlor	80.6		P	41 - 100
Heptachlor Epoxide	100		P	58 - 106
Hexachlorobenzene	82.8		P	39 - 100
Kepone	65.4		P	10 - 191
Lambda-Cyhalothrin	87.2		P	21 - 206
Methoprene	92.8		P	10 - 129
Methoxychlor	96.0		P	61 - 111
MGK-264	106		P	20 - 123
Mirex	68.9		P	10 - 182
Oxychlordane	87.0		P	39 - 110
Permethrin	98.5		P	26 - 152
Phenothrin	76.4		P	10 - 109
Piperonyl Butoxide	139		P	19 - 147
Prallethrin	94.3		P	14 - 109
Tau-Fluvalinate	88.8		P	16 - 134
Tetramethrin	99.9		P	10 - 125
Trans-Nonachlor	89.2		P	45 - 107
Triclosan Methyl	99.6		P	60 - 110
Trifluralin	88.7		P	44 - 101

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276

Batch ID: P415936

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	110		P	61 - 116
Toxaphene	122		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P415828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	52.9		P	40 - 150
2,4,5-T	44.6		P	40 - 150
Acetaminophen	83.1		P	30 - 150
Acetamiprid	78.4		P	40 - 150
Afidopyropen	45.0		P	30 - 150
Bentazon	70.8		P	30 - 150
Benzovindiflupyr	87.2		P	40 - 150
Carbamazepine	83.5		P	40 - 150
Clothianidin	89.4		P	40 - 150
Dinotefuran	90.8		P	40 - 150
Diuron	66.8		P	40 - 150
Fenuron	90.2		P	40 - 150
Fluridone	80.6		P	40 - 150
Hydrocodone	81.9		P	40 - 150
Ibuprofen	60.5		P	40 - 150
Imazapyr	88.0		P	40 - 150
Imidacloprid	87.9		P	40 - 150
Linuron	66.8		P	40 - 150
Mandestrobin	72.4		P	40 - 150
MCPP	69.4		P	40 - 150
Naproxen	42.9		P	40 - 150
Primidone	92.2		P	40 - 150
Pyraclostrobin	72.5		P	40 - 150
Silvex	42.7		P	40 - 150
Thiamethoxam	83.8		P	40 - 150
Tolfenpyrad	43.0		P	30 - 150
Triclopyr	51.2		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415853

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.8		P	40 - 150
AMPA	102		P	40 - 150
Endothall	94.6		P	40 - 150
Glufosinate	95.1		P	40 - 150
Glyphosate	102		P	40 - 150
Sucralose	98.5		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P416027

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	75.6		P	40 - 150
Aldicarb	59.0		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P416027

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldicarb Sulfone	91.1		P	40 - 150
Aldicarb Sulfoxide	90.3		P	40 - 150
Carbaryl	61.0		P	40 - 150
Carbofuran	63.6		P	40 - 150
Methiocarb	72.7		P	40 - 150
Methomyl	80.9		P	40 - 150
Oxamyl	86.5		P	40 - 150
Propoxur	60.6		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P416073

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P416333

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.4		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P416334

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P416338

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P416028

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

Reference Method: SM 5310 B-2011
Batch ID: P416029

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416148

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337487	Chloride	98.8		P	90 - 110
2337511	Chloride	99.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337487	Sulfate	93.5		P	90 - 110
2337511	Sulfate	96.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415991

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2335950	Ammonia-N	95.4	99.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415993

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337399	Ammonia-N	99.4	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416108

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337243	Kjeldahl Nitrogen	96.4	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416110

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337378	Kjeldahl Nitrogen	112	114	F/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416292

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337241	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416403

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337338	NO2NO3-N	104	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P416020

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336351	Total-P	94.0	94.6	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P416024

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337399	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P415888

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337482	O-Phosphate-P	97.2	97.7	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P415865

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337570	Acetochlor	92.9	96.2	P/P	65 - 124
2337570	Alachlor	93.6	115	P/P	61 - 121
2337570	Ametryn	95.7	106	P/P	52 - 216
2337570	Atrazine	107	117	P/P	68 - 133
2337570	Atrazine Desethyl	48.0	56.3	P/P	15 - 160
2337570	Azinphos Methyl	97.9	155	P/P	40 - 292
2337570	Azoxystrobin	126	126	P/P	12 - 242
2337570	Butylate	57.4	49.4	P/P	14 - 94.0
2337570	Caffeine	71.7	75.0	P/P	10 - 226
2337570	Carbophenothion	109	107	P/P	49 - 122
2337570	Carfentrazone Ethyl	107	101	P/P	53 - 138
2337570	Chlorfenapyr	108	107	P/P	50 - 150
2337570	Chlorpyrifos Ethyl	85.7	96.4	P/P	52 - 122
2337570	Chlorpyrifos Methyl	88.2	90.8	P/P	66 - 117
2337570	Coumaphos	76.3	79.6	P/P	50 - 220
2337570	Cyanazine	83.3	77.9	P/P	43 - 245
2337570	Cyprodinil	98.2	84.3	P/P	50 - 150
2337570	Demeton	104	104	P/P	43 - 188
2337570	Diazinon	87.8	103	P/P	69 - 131
2337570	Dimethenamid	64.4	73.0	P/P	55 - 118
2337570	Dimethomorph	106	102	P/P	50 - 150
2337570	Disulfoton	86.6	92.4	P/P	38 - 141
2337570	Dithiopyr	80.7	80.7	P/P	42 - 116
2337570	EPTC	55.3	53.2	P/P	18 - 85.0
2337570	Ethion	23.6	36.0	P/P	10 - 131
2337570	Ethoprop	93.0	99.9	P/P	65 - 129
2337570	Etridiazole	67.3	62.7	P/P	50 - 150
2337570	Fenamiphos	92.6	94.5	P/P	31 - 137
2337570	Fenbuconazole	81.3	85.0	P/P	57 - 160
2337570	Fipronil	88.8	83.0	P/P	62 - 132
2337570	Fipronil Desulfinyl	83.7	92.6	P/P	57 - 131
2337570	Fipronil Sulfide	90.4	80.4	P/P	15 - 138
2337570	Fipronil Sulfone	123	126	P/P	21 - 134
2337570	Fluazifop-P-butyl	117	129	P/P	54 - 133
2337570	Fludioxonil	89.8	92.4	P/P	58 - 127
2337570	Flumioxazin	88.4	111	P/P	33 - 300
2337570	Flutolanil	95.0	103	P/P	42 - 130
2337570	Fluxapyroxad	81.5	104	P/P	23 - 141
2337570	Fonofos	88.7	100	P/P	58 - 119
2337570	Hexazinone	82.8	91.1	P/P	68 - 172

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415865

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337570	Imazalil	185	160	P/P	48 - 283
2337570	Iprodione	131	148	P/F	38 - 140
2337570	Loratadine	99.1	93.5	P/P	50 - 150
2337570	Malathion	103	106	P/P	40 - 137
2337570	Metolachlor	91.7	91.2	P/P	55 - 122
2337570	Metribuzin	105	112	P/P	38 - 187
2337570	Mevinphos	84.8	79.5	P/P	54 - 134
2337570	Molinate	73.6	72.1	P/P	41 - 97.0
2337570	Myclobutanil	96.0	91.6	P/P	56 - 125
2337570	Naled	90.2	91.2	P/P	10 - 108
2337570	Napropamide	68.4	56.7	P/P	50 - 150
2337570	Oxadiazon	104	94.6	P/P	40 - 119
2337570	Oxyfluorfen	119	123	P/P	61 - 153
2337570	Parathion Ethyl	92.5	94.0	P/P	59 - 130
2337570	Parathion Methyl	122	132	P/P	65 - 155
2337570	Pendimethalin	119	115	P/P	49 - 138
2337570	Phenytoin	25.3	29.5	F/F	50 - 200
2337570	Phorate	92.8	95.1	P/P	54 - 161
2337570	Prodiamine	62.3	66.7	P/P	33 - 161
2337570	Prometon	79.8	80.2	P/P	48 - 140
2337570	Prometryn	76.4	71.6	P/P	55 - 134
2337570	Pronamide	102	86.4	P/P	66 - 137
2337570	Propanil	76.1	74.4	P/P	50 - 150
2337570	Propargite	50.4	66.2	P/P	50 - 200
2337570	Propiconazole	71.8	71.7	P/P	36 - 150
2337570	Pyraflufen Ethyl	84.2	89.4	P/P	50 - 150
2337570	Pyridaben	73.3	79.5	P/P	50 - 200
2337570	Pyriproxyfen	45.5	85.3	P/P	10 - 165
2337570	Stirophos	74.4	86.3	P/P	50 - 150
2337570	Sulfentrazone	186	224	F/F	34 - 140
2337570	Tebuconazole	41.4	43.3	P/P	10 - 127
2337570	Terbufos	99.6	110	P/P	59 - 138
2337570	Terbuthylazine	93.3	105	P/P	68 - 119
2337570	Thiobencarb	87.7	83.2	P/P	50 - 150
2337570	Triadimefon	63.3	63.8	P/P	50 - 150

Reference Method: EPA 8270E

Batch ID: P415936

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2338087	Aldrin	69.6	64.8	P/P	10 - 89.0
2338087	Alpha-BHC	105	98.7	P/P	71 - 105
2338087	Alpha-Chlordane	93.9	84.0	P/P	43 - 107
2338087	Beta-BHC	140	112	P/P	57 - 152
2338087	Beta-Cyfluthrin	101	106	P/P	29 - 186
2338087	Bifenthrin	84.0	80.6	P/P	19 - 119
2338087	Chlorothalonil	173	101	P/P	10 - 245
2338087	Cis-Nonachlor	73.1	70.8	P/P	36 - 110
2338087	Cypermethrin	101	101	P/P	24 - 169
2338087	Dacthal	111	93.0	P/P	62 - 115
2338087	DDD-p,p'	75.4	71.0	P/P	36 - 109
2338087	DDE-p,p'	92.1	85.2	P/P	30 - 114

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415936

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2338087	DDT-p,p'	84.4	82.6	P/P	42 - 108
2338087	Delta-BHC	152	120	P/P	60 - 164
2338087	Deltamethrin	101	107	P/P	10 - 210
2338087	Dichlobenil	104	51.1	P/P	23 - 108
2338087	Dicofol	80.2	82.9	P/P	44 - 109
2338087	Dieldrin	97.5	92.1	P/P	37 - 119
2338087	Endosulfan I	96.1	84.2	P/P	52 - 105
2338087	Endosulfan II	70.0	68.7	P/P	35 - 127
2338087	Endosulfan Sulfate	90.5	82.0	P/P	39 - 130
2338087	Endrin	73.3	66.2	P/P	30 - 116
2338087	Endrin Aldehyde	58.1	59.1	P/P	20 - 110
2338087	Endrin Ketone	96.1	89.4	P/P	48 - 134
2338087	Esfenvalerate	100	102	P/P	10 - 199
2338087	Ethalfuralin	84.4	81.4	P/P	48 - 95.0
2338087	Fenpropathrin	93.6	85.3	P/P	37 - 121
2338087	Gamma-BHC	123	104	P/P	61 - 126
2338087	Gamma-Chlordane	83.9	78.2	P/P	39 - 105
2338087	Heptachlor	68.7	68.7	P/P	38 - 96.0
2338087	Heptachlor Epoxide	97.2	78.2	P/P	42 - 114
2338087	Hexachlorobenzene	85.0	75.0	P/P	39 - 93.0
2338087	Kepone	72.2	56.4	P/P	10 - 215
2338087	Lambda-Cyhalothrin	97.9	89.0	P/P	10 - 204
2338087	Methoprene	87.0	76.8	P/P	17 - 108
2338087	Methoxychlor	93.3	93.4	P/P	56 - 115
2338087	MGK-264	106	93.5	P/P	35 - 120
2338087	Mirex	68.5	63.2	P/P	10 - 178
2338087	Oxychlordane	93.5	85.8	F/P	47 - 91.0
2338087	Permethrin	96.9	99.9	P/P	27 - 170
2338087	Phenothrin	92.6	84.4	P/P	10 - 133
2338087	Piperonyl Butoxide	211	145	F/P	23 - 150
2338087	Prallethrin	95.2	82.2	P/P	21 - 113
2338087	Tau-Fluvalinate	103	105	P/P	16 - 158
2338087	Tetramethrin	112	99.8	P/P	22 - 132
2338087	Trans-Nonachlor	87.3	81.2	P/P	43 - 102
2338087	Triclosan Methyl	95.8	86.2	P/P	49 - 109
2338087	Trifluralin	88.1	81.3	P/P	48 - 93.0

Reference Method: EPA 8276

Batch ID: P415936

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2338151	Chlordane	112	107	P/P	53 - 126
2338151	Toxaphene	138	132	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P415828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336740	2,4-D	50.1	66.5	P/P	40 - 150
2336740	2,4,5-T	39.2	39.5	F/F	40 - 150
2336740	Acetaminophen	92.2	98.3	P/P	30 - 150
2336740	Acetamiprid	69.3	82.3	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P415828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336740	Afidopyropen	50.1	63.1	P/P	30 - 150
2336740	Bentazon	47.7	47.0	P/P	30 - 150
2336740	Benzovindiflupyr	84.4	89.3	P/P	40 - 150
2336740	Carbamazepine	79.4	85.7	P/P	40 - 150
2336740	Clothianidin	96.5	111	P/P	40 - 150
2336740	Dinotefuran	120	133	P/P	40 - 150
2336740	Diuron	58.7	56.6	P/P	40 - 150
2336740	Fenuron	79.6	89.6	P/P	40 - 150
2336740	Fluridone	68.0	79.9	P/P	40 - 150
2336740	Hydrocodone	90.6	95.8	P/P	40 - 150
2336740	Ibuprofen	72.4	67.9	P/P	40 - 150
2336740	Imazapyr	73.0	79.6	P/P	40 - 150
2336740	Imidacloprid	121	127	P/P	40 - 150
2336740	Linuron	68.2	77.1	P/P	40 - 150
2336740	Mandestrobin	68.2	75.2	P/P	40 - 150
2336740	MCCP	63.8	69.1	P/P	40 - 150
2336740	Naproxen	51.3	60.8	P/P	40 - 150
2336740	Primidone	94.7	110	P/P	40 - 150
2336740	Pyraclostrobin	74.5	82.8	P/P	40 - 150
2336740	Silvex	49.3	47.4	P/P	40 - 150
2336740	Thiamethoxam	115	127	P/P	40 - 150
2336740	Tolfenpyrad	44.9	46.7	P/P	30 - 150
2336740	Triclopyr	48.1	50.0	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337358	Acesulfame K	101	101	P/P	40 - 150
2337358	AMPA	95.0	97.0	P/P	40 - 150
2337358	Endothall	96.0	96.6	P/P	40 - 150
2337358	Glufosinate	87.6	85.2	P/P	40 - 150
2337358	Glyphosate	78.8	84.4	P/P	40 - 150
2337358	Sucralose	101	101	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P416027

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337583	3-Hydroxycarbofuran	91.6	84.1	P/P	40 - 150
2337583	Aldicarb	50.1	46.9	P/P	30 - 150
2337583	Aldicarb Sulfone	103	104	P/P	40 - 150
2337583	Aldicarb Sulfoxide	49.4	48.8	P/P	40 - 150
2337583	Carbaryl	49.0	46.0	P/P	40 - 150
2337583	Carbofuran	53.1	54.4	P/P	40 - 150
2337583	Methiocarb	58.1	63.5	P/P	40 - 150
2337583	Methomyl	74.6	73.4	P/P	40 - 150
2337583	Oxamyl	82.1	80.9	P/P	40 - 150
2337583	Propoxur	52.4	53.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P416334

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2338588	Fluoride	97.2	98.9	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P416338

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337539	Fluoride	102	101	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P416028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337500	Organic Carbon	99.4	99.6	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P416029

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2337070	Organic Carbon	93.7	94.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P415909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337398	Color (true)	0.473	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415901

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337328	Turbidity	5.22	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416148

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337487	Chloride	0.167	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416151

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337487	Sulfate	0.0716	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415991

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2335950	Ammonia-N	2.91	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415993

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337399	Ammonia-N	1.48	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337243	Kjeldahl Nitrogen	4.24	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416110

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337378	Kjeldahl Nitrogen	1.03	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P416292

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337241	NO2NO3-N	0.480	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P416403

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337338	NO2NO3-N	1.90	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P416020

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336351	Total-P	0.610	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P416024

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337399	Total-P	0.0227	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P415888

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337482	O-Phosphate-P	0.513	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P415865

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337570	Acetochlor	3.47	Spike	P	0 - 27
2337570	Alachlor	20.7	Spike	P	0 - 27
2337570	Ametryn	9.78	Spike	P	0 - 34
2337570	Atrazine	6.56	Spike	P	0 - 41
2337570	Atrazine Desethyl	15.8	Spike	P	0 - 38
2337570	Azinphos Methyl	45.0	Spike	P	0 - 62
2337570	Azoxystrobin	0.119	Spike	P	0 - 32
2337570	Bromacil	8.50	Spike	P	0 - 30
2337570	Butylate	14.9	Spike	P	0 - 59
2337570	Caffeine	4.51	Spike	P	0 - 60
2337570	Carbophenothion	1.59	Spike	P	0 - 25
2337570	Carfentrazone Ethyl	5.92	Spike	P	0 - 26
2337570	Chlorfenapyr	0.771	Spike	P	0 - 30
2337570	Chlorpyrifos Ethyl	11.8	Spike	P	0 - 27
2337570	Chlorpyrifos Methyl	2.82	Spike	P	0 - 26
2337570	Coumaphos	4.35	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P415865

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337570	Cyanazine	6.71	Spike	P	0 - 58
2337570	Cyprodinil	15.2	Spike	P	0 - 30
2337570	Demeton	0.277	Spike	P	0 - 25
2337570	Diazinon	15.8	Spike	P	0 - 29
2337570	Difenoconazole	7.19	Spike	P	0 - 25
2337570	Dimethenamid	12.5	Spike	P	0 - 30
2337570	Dimethomorph	3.42	Spike	P	0 - 30
2337570	Disulfoton	6.42	Spike	P	0 - 33
2337570	Dithiopyr	0.0108	Spike	P	0 - 22
2337570	EPTC	3.82	Spike	P	0 - 38
2337570	Ethion	41.6	Spike	P	0 - 79
2337570	Ethoprop	7.07	Spike	P	0 - 23
2337570	Etridiazole	7.02	Spike	P	0 - 30
2337570	Fenamiphos	2.07	Spike	P	0 - 58
2337570	Fenbuconazole	3.99	Spike	P	0 - 37
2337570	Fipronil	6.85	Spike	P	0 - 33
2337570	Fipronil Desulfinyl	10.0	Spike	P	0 - 26
2337570	Fipronil Sulfide	11.7	Spike	P	0 - 37
2337570	Fipronil Sulfone	2.71	Spike	P	0 - 50
2337570	Fluazifop-P-butyl	9.56	Spike	P	0 - 24
2337570	Fludioxonil	2.67	Spike	P	0 - 26
2337570	Flumioxazin	22.7	Spike	P	0 - 37
2337570	Flutolanil	8.03	Spike	P	0 - 26
2337570	Fluxapyroxad	24.1	Spike	P	0 - 34
2337570	Fonofos	12.1	Spike	P	0 - 27
2337570	Hexazinone	9.60	Spike	P	0 - 36
2337570	Imazalil	14.6	Spike	P	0 - 65
2337570	Iprodione	12.4	Spike	P	0 - 33
2337570	Loratadine	5.78	Spike	P	0 - 30
2337570	Malathion	3.06	Spike	P	0 - 44
2337570	Metalaxyl	2.99	Spike	P	0 - 38
2337570	Metolachlor	0.365	Spike	P	0 - 36
2337570	Metribuzin	5.98	Spike	P	0 - 63
2337570	Mevinphos	6.39	Spike	P	0 - 26
2337570	Molinate	2.00	Spike	P	0 - 40
2337570	Myclobutanil	4.78	Spike	P	0 - 21
2337570	Naled	1.14	Spike	P	0 - 26
2337570	Napropamide	18.8	Spike	P	0 - 30
2337570	Norflurazon	12.6	Spike	P	0 - 24
2337570	Oxadiazon	9.79	Spike	P	0 - 27
2337570	Oxyfluorfen	3.55	Spike	P	0 - 24
2337570	Parathion Ethyl	1.65	Spike	P	0 - 28
2337570	Parathion Methyl	7.75	Spike	P	0 - 27
2337570	Pendimethalin	3.57	Spike	P	0 - 31
2337570	Phenytoin	15.1	Spike	P	0 - 30
2337570	Phorate	2.47	Spike	P	0 - 27
2337570	Prodiamine	6.91	Spike	P	0 - 52
2337570	Prometon	0.572	Spike	P	0 - 31
2337570	Prometryn	6.45	Spike	P	0 - 28
2337570	Pronamide	16.4	Spike	P	0 - 26
2337570	Propanil	2.29	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P415865

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337570	Propargite	27.1	Spike	P	0 - 30
2337570	Propiconazole	0.0425	Spike	P	0 - 31
2337570	Pyraflufen Ethyl	5.97	Spike	P	0 - 30
2337570	Pyridaben	8.11	Spike	P	0 - 30
2337570	Pyriproxyfen	60.9	Spike	F	0 - 50
2337570	Simazine	6.40	Spike	P	0 - 29
2337570	Stiropfos	14.8	Spike	P	0 - 30
2337570	Sulfentrazone	14.2	Spike	P	0 - 33
2337570	Tebuconazole	4.58	Spike	P	0 - 44
2337570	Terbufos	9.66	Spike	P	0 - 29
2337570	Terbuthylazine	11.4	Spike	P	0 - 27
2337570	Thiobencarb	5.16	Spike	P	0 - 30
2337570	Triadimefon	0.818	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P415936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2338087	Aldrin	7.07	Spike	P	0 - 37
2338087	Alpha-BHC	5.75	Spike	P	0 - 16
2338087	Alpha-Chlordane	5.62	Spike	P	0 - 28
2338087	Beta-BHC	22.6	Spike	P	0 - 32
2338087	Beta-Cyfluthrin	4.81	Spike	P	0 - 41
2338087	Bifenthrin	4.14	Spike	P	0 - 36
2338087	Chlorothalonil	53.1	Spike	P	0 - 54
2338087	Cis-Nonachlor	3.18	Spike	P	0 - 33
2338087	Cypermethrin	0.541	Spike	P	0 - 38
2338087	Dacthal	17.4	Spike	P	0 - 23
2338087	DDD-p,p'	6.01	Spike	P	0 - 35
2338087	DDE-p,p'	7.72	Spike	P	0 - 27
2338087	DDT-p,p'	2.14	Spike	P	0 - 31
2338087	Delta-BHC	23.8	Spike	P	0 - 30
2338087	Deltamethrin	5.41	Spike	P	0 - 76
2338087	Dichlobenil	28.5	Spike	P	0 - 33
2338087	Dicofol	3.23	Spike	P	0 - 24
2338087	Dieldrin	5.77	Spike	P	0 - 35
2338087	Endosulfan I	13.2	Spike	P	0 - 25
2338087	Endosulfan II	1.95	Spike	P	0 - 31
2338087	Endosulfan Sulfate	9.85	Spike	P	0 - 38
2338087	Endrin	10.3	Spike	P	0 - 53
2338087	Endrin Aldehyde	1.69	Spike	P	0 - 81
2338087	Endrin Ketone	7.21	Spike	P	0 - 33
2338087	Esfenvalerate	1.80	Spike	P	0 - 46
2338087	Ethalfuralin	3.60	Spike	P	0 - 22
2338087	Fenpropathrin	9.32	Spike	P	0 - 29
2338087	Gamma-BHC	13.1	Spike	P	0 - 17
2338087	Gamma-Chlordane	4.70	Spike	P	0 - 28
2338087	Heptachlor	0.0159	Spike	P	0 - 28
2338087	Heptachlor Epoxide	13.0	Spike	P	0 - 23
2338087	Hexachlorobenzene	12.5	Spike	P	0 - 22

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P415936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2338087	Kepone	24.6	Spike	P	0 - 61
2338087	Lambda-Cyhalothrin	9.59	Spike	P	0 - 52
2338087	Methoprene	12.4	Spike	P	0 - 38
2338087	Methoxychlor	0.0787	Spike	P	0 - 29
2338087	MGK-264	12.8	Spike	P	0 - 41
2338087	Mirex	8.02	Spike	P	0 - 39
2338087	Oxychlordane	8.54	Spike	P	0 - 33
2338087	Permethrin	3.09	Spike	P	0 - 39
2338087	Phenothrin	9.32	Spike	P	0 - 52
2338087	Piperonyl Butoxide	37.3	Spike	P	0 - 91
2338087	Prallethrin	14.7	Spike	P	0 - 34
2338087	Tau-Fluvalinate	2.13	Spike	P	0 - 41
2338087	Tetramethrin	11.8	Spike	P	0 - 43
2338087	Trans-Nonachlor	6.64	Spike	P	0 - 31
2338087	Triclosan Methyl	9.95	Spike	P	0 - 24
2338087	Trifluralin	7.05	Spike	P	0 - 23

Reference Method: EPA 8276

Batch ID: P415936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2338151	Chlordane	4.03	Spike	P	0 - 25
2338151	Toxaphene	4.39	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P415828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336740	2,4-D	24.9	Spike	P	0 - 30
2336740	2,4,5-T	0.782	Spike	P	0 - 30
2336740	Acetaminophen	6.40	Spike	P	0 - 30
2336740	Acetamiprid	17.2	Spike	P	0 - 30
2336740	Afidopyropen	23.0	Spike	P	0 - 30
2336740	Bentazon	1.60	Spike	P	0 - 30
2336740	Benzovindiflupyr	5.59	Spike	P	0 - 30
2336740	Carbamazepine	7.66	Spike	P	0 - 30
2336740	Clothianidin	13.6	Spike	P	0 - 30
2336740	Dinotefuran	10.5	Spike	P	0 - 30
2336740	Diuron	3.77	Spike	P	0 - 30
2336740	Fenuron	11.8	Spike	P	0 - 30
2336740	Fluridone	16.0	Spike	P	0 - 30
2336740	Hydrocodone	5.66	Spike	P	0 - 30
2336740	Ibuprofen	6.46	Spike	P	0 - 30
2336740	Imazapyr	8.65	Spike	P	0 - 30
2336740	Imidacloprid	4.87	Spike	P	0 - 30
2336740	Linuron	12.3	Spike	P	0 - 30
2336740	Mandestrobin	9.76	Spike	P	0 - 30
2336740	MCP	7.99	Spike	P	0 - 30
2336740	Naproxen	16.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P415828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336740	Primidone	14.9	Spike	P	0 - 30
2336740	Pyraclostrobin	10.5	Spike	P	0 - 30
2336740	Silvex	3.94	Spike	P	0 - 30
2336740	Thiamethoxam	10.0	Spike	P	0 - 30
2336740	Tolfenpyrad	3.87	Spike	P	0 - 30
2336740	Triclopyr	3.81	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P415853

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337358	Acesulfame K	0.243	Spike	P	0 - 30
2337358	AMPA	2.06	Spike	P	0 - 30
2337358	Endothall	0.564	Spike	P	0 - 30
2337358	Glufosinate	2.77	Spike	P	0 - 30
2337358	Glyphosate	6.86	Spike	P	0 - 30
2337358	Sucralose	0.137	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P416027

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337583	3-Hydroxycarbofuran	8.50	Spike	P	0 - 30
2337583	Aldicarb	6.48	Spike	P	0 - 30
2337583	Aldicarb Sulfone	1.61	Spike	P	0 - 30
2337583	Aldicarb Sulfoxide	1.32	Spike	P	0 - 30
2337583	Carbaryl	6.27	Spike	P	0 - 30
2337583	Carbofuran	2.46	Spike	P	0 - 30
2337583	Methiocarb	8.90	Spike	P	0 - 30
2337583	Methomyl	1.57	Spike	P	0 - 30
2337583	Oxamyl	1.50	Spike	P	0 - 30
2337583	Propoxur	2.85	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P416073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337487	Total Alkalinity	1.11	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011

Batch ID: P416333

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2338588	Total Alkalinity	0.862	Sample	P	0 - 3.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-2011
Batch ID: P416224

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337006	TDS	3.58	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P416334

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2338588	Fluoride	0.999	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P416338

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337539	Fluoride	0.480	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P416028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337500	Organic Carbon	0.192	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P416029

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2337070	Organic Carbon	0.686	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2337404
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	53.0	P	30 - 160

Lab Sample ID: 2337405
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	63.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	96.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	82.1	P	30 - 160
EPA 8321B	Diuron-d6	71.0	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	78.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	62.1	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	103	P	30 - 160

Lab Sample ID: 2337406
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	84.2	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	60.6	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	73.8	P	30 - 101
EPA 8276	PCNB	107	P	48 - 121

Lab Sample ID: 2337407
Field Sample ID: G3TLHR0040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	45.8	P	20 - 200
EPA 8270E	Simazine-d10	90.0	P	71 - 140
EPA 8270E	Terbufos-d10	85.9	P	62 - 131

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A113139

Included Lab Sample IDs: 2337397

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	99.1	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A113141

Included Lab Sample IDs: 2337393, 2337394, 2337398

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

Reference Method: DEP SOP: NU-094-1

Run ID: A113145

Included Lab Sample IDs: 2337398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.2	98.3	P/P	85 - 115

Reference Method: EPA 8321B

Run ID: A113155

Included Lab Sample IDs: 2337405

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	100	95.6	P/P	50 - 150
2,4,5-T	92.8	97.3	P/P	50 - 150
Acetaminophen	106	104	P/P	60 - 160
Acetamiprid	103	106	P/P	50 - 150
Afidopyropen	92.8	105	P/P	50 - 150
Bentazon	101	112	P/P	50 - 160
Benzovindiflupyr	102	104	P/P	50 - 150
Carbamazepine	109	106	P/P	60 - 150
Clothianidin	104	97.8	P/P	60 - 150
Dinotefuran	103	109	P/P	50 - 150
Diuron	69.3	95.4	P/P	60 - 160
Fenuron	98.8	98.6	P/P	60 - 150
Fluridone	115	104	P/P	60 - 160
Hydrocodone	97.6	106	P/P	60 - 150
Ibuprofen	88.3	120	P/P	50 - 160
Imazapyr	84.9	83.4	P/P	50 - 150
Imidacloprid	91.8	95.7	P/P	60 - 150
Linuron	106	90.3	P/P	60 - 150
Mandestrobin	102	101	P/P	50 - 150
MCPP	109	112	P/P	50 - 150
Naproxen	120	118	P/P	50 - 160
Primidone	106	104	P/P	60 - 150
Pyraclostrobin	104	102	P/P	60 - 150
Silvex	88.4	82.9	P/P	50 - 150
Thiamethoxam	101	101	P/P	50 - 150
Tolfenpyrad	99.6	96.0	P/P	60 - 150
Triclopyr	98.5	111	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A113156

Included Lab Sample IDs: 2337398

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113171

Included Lab Sample IDs: 2337395, 2337396, 2337399

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.8	97.4	P/P	90 - 110
Ammonia-N	97.9	97.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113181

Included Lab Sample IDs: 2337405

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	101	103	P/P	60 - 160
Sucralose	101	102	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A113183

Included Lab Sample IDs: 2337405

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	102	104	P/P	60 - 160
Endothall	97.4	93.9	P/P	60 - 160
Glufosinate	75.8	77.3	P/P	60 - 160
Glyphosate	98.6	99.3	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A113196

Included Lab Sample IDs: 2337395, 2337396, 2337399

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.2	100	P/P	90 - 110
Organic Carbon	98.2	98.2	P/P	90 - 110
Organic Carbon	98.6	98.9	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A113225

Included Lab Sample IDs: 2337394, 2337398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.2	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113256

Included Lab Sample IDs: 2337404

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	101	98.5	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A113256
Included Lab Sample IDs: 2337404

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldicarb	94.2	108	P/P	60 - 150
Aldicarb Sulfone	100	104	P/P	50 - 150
Aldicarb Sulfoxide	102	106	P/P	50 - 150
Carbaryl	107	98.6	P/P	60 - 150
Carbofuran	101	107	P/P	50 - 150
Methiocarb	107	102	P/P	50 - 150
Methomyl	99.3	101	P/P	50 - 150
Oxamyl	102	104	P/P	50 - 150
Propoxur	103	97.9	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A113282
Included Lab Sample IDs: 2337395, 2337396, 2337399

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A113333
Included Lab Sample IDs: 2337395, 2337396, 2337399

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	105	P/P	90 - 110
Kjeldahl Nitrogen	99.0	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A113343
Included Lab Sample IDs: 2337395

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

Reference Method: EPA 8270E
Run ID: A113366
Included Lab Sample IDs: 2337407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	104		P	80 - 120
Ametryn	111		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	109		P	80 - 120
Azinphos Methyl	110		P	80 - 120
Azoxystrobin	98.7		P	80 - 120
Bromacil	107		P	80 - 120
Butylate	96.5		P	80 - 120
Caffeine	106		P	80 - 120
Carbophenothion	116		P	80 - 120
Carfentrazone Ethyl	111		P	80 - 120
Chlorfenapyr	106		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113366
Included Lab Sample IDs: 2337407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorpyrifos Ethyl	106		P	80 - 120
Chlorpyrifos Methyl	104		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	111		P	80 - 120
Cyprodinil	99.9		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	103		P	80 - 120
Difenoconazole	104		P	80 - 120
Dimethenamid	108		P	80 - 120
Dimethomorph	107		P	80 - 120
Disulfoton	96.4		P	80 - 120
Dithiopyr	110		P	80 - 120
EPTC	100		P	80 - 120
Ethion	103		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	107		P	80 - 120
Fenamiphos	107		P	80 - 120
Fenbuconazole	107		P	80 - 120
Fipronil	107		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	117		P	80 - 120
Fluazifop-P-butyl	109		P	80 - 120
Fludioxonil	113		P	80 - 120
Flumioxazin	105		P	80 - 120
Flutolanil	104		P	80 - 120
Fluxapyroxad	101		P	80 - 120
Fonofos	97.6		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	108		P	80 - 120
Iprodione	98.2		P	80 - 120
Loratadine	119		P	80 - 120
Malathion	107		P	80 - 120
Metaxyl	109		P	80 - 120
Metolachlor	108		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	107		P	80 - 120
Molinate	97.7		P	80 - 120
Myclobutanil	106		P	80 - 120
Naled	106		P	80 - 120
Napropamide	115		P	80 - 120
Norflurazon	111		P	80 - 120
Oxadiazon	109		P	80 - 120
Oxyfluorfen	114		P	80 - 120
Parathion Ethyl	99.0		P	80 - 120
Parathion Methyl	95.3		P	80 - 120
Pendimethalin	92.0		P	80 - 120
Phenytoin	104		P	80 - 120
Phorate	106		P	80 - 120
Prodiamine	112		P	80 - 120
Prometon	95.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113366
Included Lab Sample IDs: 2337407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometryn	103		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	101		P	80 - 120
Propargite	113		P	80 - 120
Propiconazole	110		P	80 - 120
Pyraflufen Ethyl	117		P	80 - 120
Pyridaben	101		P	80 - 120
Pyriproxyfen	108		P	80 - 120
Simazine	97.1		P	80 - 120
Stiophos	116		P	80 - 120
Sulfentrazone	118		P	80 - 120
Tebuconazole	114		P	80 - 120
Terbufos	98.5		P	80 - 120
Terbutylazine	97.8		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	110		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A113368
Included Lab Sample IDs: 2337393

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.8	100	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A113368
Included Lab Sample IDs: 2337393, 2337394, 2337398

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

Reference Method: EPA 8270E
Run ID: A113393
Included Lab Sample IDs: 2337406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	106		P	80 - 120
Beta-BHC	112		P	80 - 120
Beta-Cyfluthrin	97.4		P	80 - 120
Bifenthrin	101		P	80 - 120
Chlorothalonil	107		P	80 - 120
Cis-Nonachlor	93.4		P	80 - 120
Cypermethrin	98.4		P	80 - 120
Dacthal	99.0		P	80 - 120
DDD-p,p'	95.3		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	99.1		P	80 - 120
Delta-BHC	115		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113393
Included Lab Sample IDs: 2337406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Deltamethrin	101		P	80 - 120
Dichlobenil	107		P	80 - 120
Dicofol	95.6		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	104		P	80 - 120
Endosulfan II	99.3		P	80 - 120
Endosulfan Sulfate	94.8		P	80 - 120
Endrin	103		P	80 - 120
Endrin Aldehyde	97.2		P	80 - 120
Endrin Ketone	99.0		P	80 - 120
Esfenvalerate	95.9		P	80 - 120
Ethalfuralin	96.4		P	80 - 120
Fenpropathrin	96.3		P	80 - 120
Gamma-BHC	111		P	80 - 120
Gamma-Chlordane	99.7		P	80 - 120
Heptachlor	100		P	80 - 120
Heptachlor Epoxide	96.1		P	80 - 120
Hexachlorobenzene	108		P	80 - 120
Kepone	97.6		P	80 - 120
Lambda-Cyhalothrin	95.7		P	80 - 120
Methoprene	100		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	98.0		P	80 - 120
Mirex	99.3		P	80 - 120
Oxychlordane	93.0		P	80 - 120
Permethrin	99.6		P	80 - 120
Phenothrin	99.3		P	80 - 120
Piperonyl Butoxide	92.7		P	80 - 120
Prallethrin	93.6		P	80 - 120
Tau-Fluvalinate	96.5		P	80 - 120
Tetramethrin	97.5		P	80 - 120
Trans-Nonachlor	96.6		P	80 - 120
Triclosan Methyl	103		P	80 - 120
Trifluralin	99.5		P	80 - 120

Reference Method: EPA 8276
Run ID: A113408
Included Lab Sample IDs: 2337406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.8		P	80 - 120
Toxaphene	88.3		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A113410
Included Lab Sample IDs: 2337396, 2337399

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	107	108	P/P	90 - 110

Quality Assurance Report

Calibration Verification

* 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	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	97.4				0.473	
EPA 180.1 Rev. 2.0	Turbidity	97.1				5.22	
EPA 300.0 Rev. 2.1	Chloride	99.5	98.8	99.5		0.167	
	Sulfate	99.4	93.5	96.6		0.0716	
EPA 350.1 Rev. 2.0	Ammonia-N	98.4	95.4	99.4			2.91
	Ammonia-N	99.2	99.4	102			1.48
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	96.4	101			4.24
	Kjeldahl Nitrogen	109	112	114			1.03
EPA 353.2 Rev. 2.0	NO2NO3-N	102	104	104			0.480
	NO2NO3-N	104	104	107			1.90
EPA 365.1 Rev. 2.0	Total-P	99.3	94.0	94.6			0.610
	Total-P	105	103	103			0.0227
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1	97.2	97.7			0.513
EPA 8270E	Acetochlor	91.0	92.9	96.2			3.47
	Alachlor	85.1	93.6	115			20.7
	Aldrin	70.5	64.8	69.6			7.07
	Alpha-BHC	97.8	98.7	105			5.75
	Alpha-Chlordane	98.2	84.0	93.9			5.62
	Ametryn	77.7	95.7	106			9.78
	Atrazine	88.7	107	117			6.56
	Atrazine Desethyl	64.5	48.0	56.3			15.8
	Azinphos Methyl	124	97.9	155			45.0
	Azoxystrobin	114	126	126			0.119
	Beta-BHC	109	112	140			22.6
	Beta-Cyfluthrin	105	101	106			4.81
	Bifenthrin	79.5	84.0	80.6			4.14
	Bromacil	71.1					8.50
	Butylate	51.1	57.4	49.4			14.9
	Caffeine	70.7	71.7	75.0			4.51
	Carbophenothion	92.4	109	107			1.59
	Carfentrazone Ethyl	94.2	107	101			5.92
	Chlorfenapyr	76.4	108	107			0.771
	Chlorothalonil	93.1	173	101			53.1
	Chlorpyrifos Ethyl	79.9	85.7	96.4			11.8
	Chlorpyrifos Methyl	77.0	88.2	90.8			2.82
	Cis-Nonachlor	83.9	73.1	70.8			3.18
	Coumaphos	80.5	76.3	79.6			4.35
	Cyanazine	79.7	83.3	77.9			6.71
	Cypermethrin	105	101	101			0.541
	Cyprodinil	77.2	98.2	84.3			15.2
	Dacthal	110	111	93.0			17.4
	DDD-p,p'	87.0	75.4	71.0			6.01
	DDE-p,p'	97.9	92.1	85.2			7.72
	DDT-p,p'	88.4	84.4	82.6			2.14
	Delta-BHC	116	152	120			23.8
	Deltamethrin	96.8	101	107			5.41
	Demeton	73.5	104	104			0.277
	Diazinon	91.5	87.8	103			15.8
	Dichlobenil	90.5	104	51.1			28.5
	Dicofol	78.5	82.9	80.2			3.23
	Dieldrin	102	92.1	97.5			5.77
	Difenoconazole	89.3					7.19
	Dimethenamid	58.4	64.4	73.0			12.5
	Dimethomorph	159	106	102			3.42

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Disulfoton	79.1	86.6	92.4			6.42
	Dithiopyr	84.1	80.7	80.7			0.0108
	Endosulfan I	97.0	84.2	96.1			13.2
	Endosulfan II	81.0	68.7	70.0			1.95
	Endosulfan Sulfate	97.2	82.0	90.5			9.85
	Endrin	78.7	66.2	73.3			10.3
	Endrin Aldehyde	84.5	59.1	58.1			1.69
	Endrin Ketone	98.8	89.4	96.1			7.21
	EPTC	45.2	55.3	53.2			3.82
	Esfenvalerate	92.1	102	100			1.80
	Ethalfuralin	91.3	81.4	84.4			3.60
	Ethion	28.5	23.6	36.0			41.6
	Ethoprop	78.9	93.0	99.9			7.07
	Etridiazole	59.0	67.3	62.7			7.02
	Fenamiphos	71.4	92.6	94.5			2.07
	Fenbuconazole	87.8	81.3	85.0			3.99
	Fenpropathrin	96.9	85.3	93.6			9.32
	Fipronil	85.3	88.8	83.0			6.85
	Fipronil Desulfinyl	85.0	83.7	92.6			10.0
	Fipronil Sulfide	64.7	90.4	80.4			11.7
	Fipronil Sulfone	94.3	123	126			2.71
	Fluazifop-P-butyl	92.4	117	129			9.56
	Fludioxonil	70.8	89.8	92.4			2.67
	Flumioxazin	99.2	88.4	111			22.7
	Flutolanil	74.4	95.0	103			8.03
	Fluxapyroxad	63.4	81.5	104			24.1
	Fonofos	68.2	88.7	100			12.1
	Gamma-BHC	107	104	123			13.1
	Gamma-Chlordane	93.0	78.2	83.9			4.70
	Heptachlor	80.6	68.7	68.7			0.0159
	Heptachlor Epoxide	100	78.2	97.2			13.0
	Hexachlorobenzene	82.8	75.0	85.0			12.5
	Hexazinone	68.2	82.8	91.1			9.60
	Imazalil	79.9	185	160			14.6
	Iprodione	77.3	131	148			12.4
	Kepone	65.4	56.4	72.2			24.6
	Lambda-Cyhalothrin	87.2	89.0	97.9			9.59
	Loratadine	164	99.1	93.5			5.78
	Malathion	91.4	103	106			3.06
	Metalaxyl	86.0					2.99
	Methoprene	92.8	76.8	87.0			12.4
	Methoxychlor	96.0	93.4	93.3			0.0787
	Metolachlor	82.9	91.7	91.2			0.365
	Metribuzin	88.1	105	112			5.98
	Mevinphos	71.5	84.8	79.5			6.39
	MGK-264	106	93.5	106			12.8
	Mirex	68.9	63.2	68.5			8.02
	Molinate	59.1	73.6	72.1			2.00
	Myclobutanil	78.8	96.0	91.6			4.78
	Naled	78.5	90.2	91.2			1.14
	Napropamide	54.1	68.4	56.7			18.8
	Norflurazon	74.6					12.6
	Oxadiazon	72.2	104	94.6			9.79
	Oxychlordane	87.0	85.8	93.5			8.54

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
EPA 8270E	Oxyfluorfen	109	119 123			3.55
	Parathion Ethyl	80.5	92.5 94.0			1.65
	Parathion Methyl	106	122 132			7.75
	Pendimethalin	90.1	119 115			3.57
	Permethrin	98.5	99.9 96.9			3.09
	Phenothrin	76.4	84.4 92.6			9.32
	Phenytol	15.7	25.3 29.5			15.1
	Phorate	74.2	92.8 95.1			2.47
	Piperonyl Butoxide	139	145 211			37.3
	Prallethrin	94.3	82.2 95.2			14.7
	Prodiamine	53.2	62.3 66.7			6.91
	Prometon	64.0	79.8 80.2			0.572
	Prometryn	74.6	76.4 71.6			6.45
	Pronamide	95.9	102 86.4			16.4
	Propanil	77.7	76.1 74.4			2.29
	Propargite	43.3	50.4 66.2			27.1
	Propiconazole	74.2	71.8 71.7			0.0425
	Pyraflufen Ethyl	82.8	84.2 89.4			5.97
	Pyridaben	73.1	73.3 79.5			8.11
	Pyriproxyfen	70.6	45.5 85.3			60.9
	Simazine	80.3				6.40
	Stirophos	36.7	74.4 86.3			14.8
	Sulfentrazone	82.2	186 224			14.2
	Tau-Fluvalinate	88.8	105 103			2.13
	Tebuconazole	30.7	41.4 43.3			4.58
	Terbufos	91.2	99.6 110			9.66
	Terbuthylazine	89.0	93.3 105			11.4
	Tetramethrin	99.9	99.8 112			11.8
	Thiobencarb	87.5	87.7 83.2			5.16
	Trans-Nonachlor	89.2	81.2 87.3			6.64
	Triadimefon	65.6	63.3 63.8			0.818
	Triclosan Methyl	99.6	86.2 95.8			9.95
	Trifluralin	88.7	81.3 88.1			7.05
EPA 8276	Chlordane	110	112 107			4.03
	Toxaphene	122	138 132			4.39
EPA 8321B	2,4-D	52.9	50.1 66.5			24.9
	2,4,5-T	44.6	39.2 39.5			0.782
	3-Hydroxycarbofuran	75.6	91.6 84.1			8.50
	Acesulfame K	98.8	101 101			0.243
	Acetaminophen	83.1	92.2 98.3			6.40
	Acetamiprid	78.4	69.3 82.3			17.2
	Afidopyropen	45.0	50.1 63.1			23.0
	Aldicarb	59.0	50.1 46.9			6.48
	Aldicarb Sulfone	91.1	103 104			1.61
	Aldicarb Sulfoxide	90.3	49.4 48.8			1.32
	AMPA	102	95.0 97.0			2.06
	Bentazon	70.8	47.7 47.0			1.60
	Benzovindiflupyr	87.2	84.4 89.3			5.59
	Carbamazepine	83.5	79.4 85.7			7.66
	Carbaryl	61.0	49.0 46.0			6.27
	Carbofuran	63.6	53.1 54.4			2.46
	Clothianidin	89.4	96.5 111			13.6
	Dinotefuran	90.8	120 133			10.5
	Diuron	66.8	58.7 56.6			3.77

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Endothall	94.6	96.0	96.6			0.564
	Fenuron	90.2	79.6	89.6			11.8
	Fluridone	80.6	68.0	79.9			16.0
	Glufosinate	95.1	87.6	85.2			2.77
	Glyphosate	102	78.8	84.4			6.86
	Hydrocodone	81.9	90.6	95.8			5.66
	Ibuprofen	60.5	72.4	67.9			6.46
	Imazapyr	88.0	73.0	79.6			8.65
	Imidacloprid	87.9	121	127			4.87
	Linuron	66.8	68.2	77.1			12.3
	Mandestrobin	72.4	68.2	75.2			9.76
	MCPPP	69.4	63.8	69.1			7.99
	Methiocarb	72.7	58.1	63.5			8.90
	Methomyl	80.9	74.6	73.4			1.57
	Naproxen	42.9	51.3	60.8			16.9
	Oxamyl	86.5	82.1	80.9			1.50
	Primidone	92.2	94.7	110			14.9
	Propoxur	60.6	52.4	53.9			2.85
	Pyraclostrobin	72.5	74.5	82.8			10.5
	Silvex	42.7	49.3	47.4			3.94
	Sucralose	98.5	101	101			0.137
	Thiamethoxam	83.8	115	127			10.0
	Tolfenpyrad	43.0	44.9	46.7			3.87
	Triclopyr	51.2	48.1	50.0			3.81
SM 2320 B-2011	Total Alkalinity	100				1.11	
	Total Alkalinity	99.4				0.862	
SM 2540 C-2011	TDS					3.58	
SM 4500-F- C-2011	Fluoride	101	97.2	98.9			0.999
	Fluoride	103	102	101			0.480
SM 5310 B-2011	Organic Carbon	95.6	99.4	99.6			0.192
	Organic Carbon	96.4	93.7	94.5			0.686

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2337398
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2337393, 2337394, 2337398
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2337398
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2337398
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2337395, 2337396, 2337399
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2337395, 2337396, 2337399
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2337395, 2337396, 2337399
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2337395, 2337396, 2337399
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2337397
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2337406
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2337407
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2337406
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2337404
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2337405
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2337393, 2337394, 2337398
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2337398

Reference Method Descriptions

Method	Description	Associated Samples
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2337393, 2337394, 2337398
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2337393, 2337394, 2337398
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2337395, 2337396, 2337399

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	06/27/2022			06/28/2022 15:07	Samantha L Bates	2337398
EPA 180.1 Rev. 2.0	06/27/2022			06/28/2022 14:29	Anna M. Plaviak	2337393
	06/27/2022			06/28/2022 14:32	Anna M. Plaviak	2337394
	06/27/2022			06/28/2022 14:33	Anna M. Plaviak	2337398
EPA 300.0 Rev. 2.1	06/27/2022			07/01/2022 22:51	Anna M. Plaviak	2337398
EPA 350.1 Rev. 2.0	06/27/2022			06/29/2022 15:21	Judith K. Clark	2337395
	06/27/2022			06/29/2022 16:01	Judith K. Clark	2337399
	06/27/2022			06/29/2022 16:05	Judith K. Clark	2337396
EPA 351.2 Rev. 2.0	06/27/2022	07/05/2022 14:05	Simonne.V. Calhoun	07/07/2022 11:22	Alexandra J Mattheus	2337395
	06/27/2022	07/05/2022 14:05	Simonne.V. Calhoun	07/07/2022 12:15	Alexandra J Mattheus	2337396
	06/27/2022	07/05/2022 14:05	Simonne.V. Calhoun	07/07/2022 12:16	Alexandra J Mattheus	2337399
EPA 353.2 Rev. 2.0	06/27/2022			07/07/2022 13:21	Touraj Touran	2337395
	06/27/2022			07/08/2022 16:25	Touraj Touran	2337396
	06/27/2022			07/08/2022 16:27	Touraj Touran	2337399
EPA 365.1 Rev. 2.0	06/27/2022	07/01/2022 16:41	Simonne.V. Calhoun	07/05/2022 15:29	James L Waggeberby	2337395
	06/27/2022	07/01/2022 16:41	Simonne.V. Calhoun	07/05/2022 16:21	James L Waggeberby	2337396
	06/27/2022	07/01/2022 16:41	Simonne.V. Calhoun	07/05/2022 16:22	James L Waggeberby	2337399
EPA 365.1 Rev. 2.0 dissolved	06/27/2022			06/28/2022 13:38	James L Waggeberby	2337397
EPA 8270E	06/27/2022	06/30/2022 07:30	Fe-Val Siddell	07/03/2022 19:14	Michael Poppell	2337407
	06/27/2022	07/01/2022 08:00	Fe-Val Siddell	07/06/2022 18:07	Michael Poppell	2337406
EPA 8276	06/27/2022	07/01/2022 08:00	Fe-Val Siddell	07/08/2022 14:00	Julie Wi	2337406
EPA 8321B	06/27/2022	06/28/2022 09:30	June Rhew	06/29/2022 04:04	Juyoung Kim	2337405
	06/27/2022	06/29/2022 11:30	Umesh Chiluwal	06/29/2022 15:58	Umesh Chiluwal	2337405
	06/27/2022	06/29/2022 11:30	Umesh Chiluwal	06/30/2022 02:50	Umesh Chiluwal	2337405
	06/27/2022	07/01/2022 09:00	June Rhew	07/01/2022 17:51	Juyoung Kim	2337404
SM 2320 B-2011	06/27/2022			06/29/2022 21:15	Dale L. Simmons	2337394
	06/27/2022			06/29/2022 21:28	Dale L. Simmons	2337398
	06/27/2022			07/07/2022 20:51	Dale L. Simmons	2337393
SM 2540 C-2011	06/27/2022			06/28/2022 16:31	Yijie Li	2337398
SM 2540 D-2011	06/27/2022			06/28/2022 16:31	Yijie Li	2337393, 2337394, 2337398
SM 4500-F- C-2011	06/27/2022			07/07/2022 19:46	Dale L. Simmons	2337393
	06/27/2022			07/08/2022 00:55	Dale L. Simmons	2337394
	06/27/2022			07/08/2022 01:00	Dale L. Simmons	2337398
SM 5310 B-2011	06/27/2022			06/29/2022 18:32	Khloe J Berg	2337396
	06/27/2022			06/29/2022 19:14	Khloe J Berg	2337399
	06/27/2022			06/30/2022 00:32	Khloe J Berg	2337395