

Chemical Analysis Report

SE-DIST-2022-10-28-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **St. Lucie**
Request ID: **RQ-2022-10-24-28**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 22-NOV-2022 11:56



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: Ten-mile Creek @ Gordy

Collection Date/Time: 10/27/2022 10:40

Field ID: G2SE0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2365984	DEP SOP: NU-094-1	Color (true)	40		PCU	P421624	
	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P421621	
	EPA 300.0 Rev. 2.1	Chloride	440		mg Cl/L	P422245	
		Sulfate	110		mg SO4/L	P422248	
	SM 2320 B-2011	Total Alkalinity	221		mg CaCO3/L	P422005	
	SM 2540 C-2015	TDS	1.04E+03		mg/L	P422175	
	SM 2540 D-2015	TSS	5	I	mg/L	P421962	
2365985	SM 4500-F- C-2011	Fluoride	0.45		mg F/L	P422019	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P422033	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.84		mg N/L	P421875	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.094		mg N/L	P421933	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P421937	
2365986	SM 5310 B-2011	Organic Carbon	10		mg C/L	P421887	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10		mg P/L	P421619	
2366019	EPA 8321B	2,4-D	0.013		ug/L	P421666	
		Acesulfame K	0.10	U	ug/L	P421533	
		2,4,5-T	0.0040	U	ug/L	P421666	
		AMPA	0.11	I	ug/L	P421533	
		Acetaminophen	0.0080	U	ug/L	P421666	
		Acetamiprid	0.0020	U	ug/L	P421666	
		Endothall	0.25	U	ug/L	P421533	MS
		Glufosinate	0.10	U	ug/L	P421533	
		Glyphosate	0.23	I	ug/L	P421533	
		Afidopyropen	0.0020	U	ug/L	P421666	
		Bentazon	0.0053		ug/L	P421666	
		Sucralose	0.039	I	ug/L	P421533	
		Benzovindiflupyr	0.0020	U	ug/L	P421666	
		Carbamazepine	8.0E-04	U	ug/L	P421666	
		Clothianidin	0.0025	I	ug/L	P421666	
		Dinotefuran	0.0020	U	ug/L	P421666	
		Diuron	0.0020	I	ug/L	P421666	
		Fenuron	0.032	U	ug/L	P421666	
		Fluridone	8.0E-04	U	ug/L	P421666	
		Imazapyr	0.021		ug/L	P421666	
		Hydrocodone	0.0020	U	ug/L	P421666	
		Ibuprofen	0.20	U	ug/L	P421666	
		Imidacloprid	0.0030	I	ug/L	P421666	
		Linuron	0.0040	U	ug/L	P421666	
		Mandestrobin	0.0020	U	ug/L	P421666	
		MCP	0.0040	U	ug/L	P421666	
		Naproxen	0.0080	U	ug/L	P421666	
		Primidone	0.0040	U	ug/L	P421666	
		Pyraclostrobin	0.0020	U	ug/L	P421666	

Field ID: G2SE0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366019	EPA 8321B	Silvex	0.0040	U	ug/L	P421666	
		Thiamethoxam	0.0066	I	ug/L	P421666	
		Tolfenpyrad	0.0020	U	ug/L	P421666	
		Triclopyr	0.0040	U	ug/L	P421666	
2366023	EPA 8270E	Oxybenzone**	9.9	U	ng/L	P421632	
		Acetochlor	0.24	UQ	ng/L	P422125	
		Octinoxate**	20	U	ng/L	P421632	
		Alachlor	0.24	UQ	ng/L	P422125	
		Avobenzone**	99	U	ng/L	P421632	
		Ametryn	0.58	UQ	ng/L	P422125	
		Atrazine	1.4	Q	ng/L	P422125	
		PBDE-47**	4.0	U	ng/L	P421632	
		Atrazine Desethyl	1.4	UQ	ng/L	P422125	
		PBDE-99**	4.9	U	ng/L	P421632	
		Azinphos Methyl	1.9	UQ	ng/L	P422125	
		Tri-o-cresyl Phosphate**	5.9	U	ng/L	P421632	
		Azoxystrobin	2.5	Q	ng/L	P422125	
		Bromacil	2.9	Q	ng/L	P422125	
		2-Ethylhexyl	12	U	ng/L	P421632	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	UQ	ng/L	P422125	
		Dechlorane Plus**	30	U	ng/L	P421632	RPD
		Caffeine**	7.2	UQ	ng/L	P422125	
		Carbophenothion	0.19	UQ	ng/L	P422125	
		Carfentrazone Ethyl	0.096	UQ	ng/L	P422125	
		Chlorfenapyr	0.17	UQ	ng/L	P422125	
		Chlorpyrifos Ethyl	0.24	UQ	ng/L	P422125	RPD
		Chlorpyrifos Methyl	0.048	UQ	ng/L	P422125	
		Coumaphos	0.48	UQ	ng/L	P422125	
		Cyanazine	3.1	UQ	ng/L	P422125	
		Cyprodinil	0.096	UQ	ng/L	P422125	
		Demeton	1.4	UQ	ng/L	P422125	
		Diazinon	0.12	UQ	ng/L	P422125	
		Difenoconazole	0.58	UQ	ng/L	P422125	
		Dimethenamid	0.096	UQ	ng/L	P422125	
		Dimethomorph	0.17	UQ	ng/L	P422125	
		Disulfoton	0.48	UQ	ng/L	P422125	
		Dithiopyr	0.60	UQ	ng/L	P422125	
		EPTC	1.2	UQ	ng/L	P422125	
		Ethion	0.14	UQ	ng/L	P422125	
		Ethoprop	0.096	UQ	ng/L	P422125	
		Etridiazole	0.14	UQ	ng/L	P422125	
		Fenamiphos	0.48	UQ	ng/L	P422125	
		Fenbuconazole	0.81	Q	ng/L	P422125	
		Fipronil	0.24	UQ	ng/L	P422125	MS

Field ID: G2SE0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366023	EPA 8270E	Fipronil Desulfinyl**	0.12	UQ	ng/L	P422125	
		Fipronil Sulfide	0.14	UQ	ng/L	P422125	
		Fipronil Sulfone	0.14	UQ	ng/L	P422125	
		Fluazifop-P-butyl	0.096	UQ	ng/L	P422125	
		Fludioxonil	0.12	UQ	ng/L	P422125	
		Flumioxazin	4.3	UQ	ng/L	P422125	
		Flutolanil	0.096	UQ	ng/L	P422125	
		Fluxapyroxad	0.46	Q	ng/L	P422125	
		Fonofos	0.19	UQ	ng/L	P422125	
		Hexazinone	24	Q	ng/L	P422125	
		Imazalil	0.72	UQ	ng/L	P422125	
		Iprodione	0.58	UQJ	ng/L	P422125	LCS, MS
		Loratadine**	0.34	UQ	ng/L	P422125	
		Malathion	1.9	Q	ng/L	P422125	
		Metalaxyl	2.5	IQ	ng/L	P422125	
		Metolachlor	0.87	IQ	ng/L	P422125	
		Metribuzin	1.4	UQ	ng/L	P422125	
		Mevinphos	1.0	UQ	ng/L	P422125	
		Molinate	0.29	UQ	ng/L	P422125	
		Myclobutanil	0.24	UQ	ng/L	P422125	
		Naled	1.4	UQ	ng/L	P422125	
		Napropamide	0.38	UQ	ng/L	P422125	
		Norflurazon	220	Q	ng/L	P422125	
		Oxadiazon	0.89	IQ	ng/L	P422125	
		Oxyfluorfen	0.14	UQ	ng/L	P422125	
		Parathion Ethyl	0.24	UQ	ng/L	P422125	
		Parathion Methyl	0.53	UQ	ng/L	P422125	
		Pendimethalin	0.96	UQ	ng/L	P422125	
		Phenytol**	3.4	UQ	ng/L	P422125	MS
		Phorate	0.51	UQ	ng/L	P422125	
		Prodiamine	0.17	UQ	ng/L	P422125	
		Prometon	0.87	UQ	ng/L	P422125	
		Prometryn	0.19	UQJ	ng/L	P422125	LCS, MS
		Pronamide	0.14	UQ	ng/L	P422125	
		Propanil	0.12	UQ	ng/L	P422125	
		Propargite	1.4	UQ	ng/L	P422125	
		Propiconazole	0.48	UQ	ng/L	P422125	
		Pyraflufen Ethyl	0.24	UQ	ng/L	P422125	
		Pyridaben	0.43	UQ	ng/L	P422125	
		Pyriproxyfen	0.12	UQ	ng/L	P422125	
		Simazine	0.48	UQ	ng/L	P422125	
		Stirophos	0.12	UQ	ng/L	P422125	
		Sulfentrazone	1.7	IQ	ng/L	P422125	
		Tebuconazole	0.48	UQ	ng/L	P422125	
		Terbufos	0.096	UQ	ng/L	P422125	

Field ID: G2SE0009

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366023	EPA 8270E	Terbutylazine	0.41	UQ	ng/L	P422125	
		Thiobencarb	0.58	UQ	ng/L	P422125	
		Triadimefon	0.24	UQ	ng/L	P422125	
2366026	EPA 200.7 Rev. 4.4	Calcium	127		mg/L	P421702	
		Iron	290		ug/L	P421702	
		Magnesium	36.8		mg/L	P421702	
		Potassium	7.6		mg/L	P421702	
		Sodium	203		mg/L	P421702	
		Strontium	5.70E+03		ug/L	P421702	
		Tin	3.0	U	ug/L	P421702	
		Titanium	1.4	I	ug/L	P421702	
		Vanadium	2.0	U	ug/L	P421702	
		Zinc	5.0	U	ug/L	P421702	
	EPA 200.8 Rev. 5.4	Aluminum	114		ug/L	P421702	
		Antimony	0.063	I	ug/L	P421702	
		Arsenic	1.04		ug/L	P421702	
		Barium	58.6		ug/L	P421702	
		Beryllium	0.012	I	ug/L	P421702	
		Boron	99.2		ug/L	P421702	
		Cadmium	0.020	U	ug/L	P421702	
		Chromium	0.52	I	ug/L	P421702	
		Cobalt	0.114		ug/L	P421702	
		Copper	1.63		ug/L	P421702	
		Lead	0.20	U	ug/L	P421702	
		Manganese	33.3		ug/L	P421702	
		Molybdenum	3.85		ug/L	P421702	
		Nickel	0.63	I	ug/L	P421702	
		Selenium	0.20	U	ug/L	P421702	
		Silver	0.010	U	ug/L	P421702	
		Thallium	0.10	U	ug/L	P421702	
	SM 2340 B-2011	Hardness	469		mg/L	P421702	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

Sample Location: FB

Collection Date/Time: 10/27/2022 10:55

Field ID: FB_10272022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2365987	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P421624	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P421621	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P422245	
		Sulfate	0.20	U	mg SO4/L	P422248	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P422005	
	SM 2540 C-2015	TDS	15	U	mg/L	P422175	
	SM 2540 D-2015	TSS	2	U	mg/L	P421962	
2365988	SM 4500-F- C-2011	Fluoride	0.098	I	mg F/L	P422019	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P422033	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P421875	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P421933	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P421937	
2366020	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P421887	
	EPA 8321B	2,4-D	0.0020	U	ug/L	P421666	
		Acesulfame K	0.10	U	ug/L	P421714	
		2,4,5-T	0.0040	U	ug/L	P421666	
		AMPA	0.10	U	ug/L	P421714	
		Acetaminophen	0.0080	U	ug/L	P421666	
		Acetamiprid	0.0020	U	ug/L	P421666	
		Endothall	0.25	U	ug/L	P421714	MS
		Glufosinate	0.10	U	ug/L	P421714	
		Glyphosate	0.10	U	ug/L	P421714	
		Afidopyropen	0.0020	U	ug/L	P421666	
		Bentazon	8.0E-04	U	ug/L	P421666	
		Sucralose	0.010	U	ug/L	P421714	
		Benzovindiflupyr	0.0020	U	ug/L	P421666	
		Carbamazepine	8.0E-04	U	ug/L	P421666	
		Clothianidin	0.0020	U	ug/L	P421666	
		Dinotefuran	0.0020	U	ug/L	P421666	
		Diuron	0.0020	U	ug/L	P421666	
		Fenuron	0.032	U	ug/L	P421666	
		Fluridone	8.0E-04	U	ug/L	P421666	
		Imazapyr	0.0040	U	ug/L	P421666	
		Hydrocodone	0.0020	U	ug/L	P421666	
		Ibuprofen	0.20	U	ug/L	P421666	
		Imidacloprid	0.0020	U	ug/L	P421666	
		Linuron	0.0040	U	ug/L	P421666	
		Mandestrobin	0.0020	U	ug/L	P421666	
		MCP	0.0040	U	ug/L	P421666	
		Naproxen	0.0080	U	ug/L	P421666	
		Primidone	0.0040	U	ug/L	P421666	
		Pyraclostrobin	0.0020	U	ug/L	P421666	
		Silvex	0.0040	U	ug/L	P421666	
		Thiamethoxam	0.0020	U	ug/L	P421666	

Field ID: FB_10272022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366020	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P421666	
		Triclopyr	0.0040	U	ug/L	P421666	
2366024	EPA 8270E	Oxybenzone**	24	IQ	ng/L	P422125	
		Acetochlor	0.24	UQ	ng/L	P422125	
		Octinoxate**	20	UQ	ng/L	P422125	
		Alachlor	0.24	UQ	ng/L	P422125	
		Avobenzone**	100	UQ	ng/L	P422125	
		Ametryn	0.58	UQ	ng/L	P422125	
		Atrazine	0.24	UQ	ng/L	P422125	
		PBDE-47**	4.0	UQ	ng/L	P422125	
		Atrazine Desethyl	1.4	UQ	ng/L	P422125	
		PBDE-99**	5.0	UQ	ng/L	P422125	
		Azinphos Methyl	1.9	UQ	ng/L	P422125	
		Tri-o-cresyl Phosphate**	6.0	UQ	ng/L	P422125	
		Azoxystrobin	0.48	UQ	ng/L	P422125	
		Bromacil	0.48	UQ	ng/L	P422125	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	UQ	ng/L	P422125	
		Butylate	0.38	UQ	ng/L	P422125	
		Dechlorane Plus**	30	UQ	ng/L	P422125	
		Caffeine**	7.2	UQ	ng/L	P422125	
		Carbophenothion	0.19	UQ	ng/L	P422125	
		Carfentrazone Ethyl	0.096	UQ	ng/L	P422125	
		Chlorfenapyr	0.17	UQ	ng/L	P422125	
		Chlorpyrifos Ethyl	0.24	UQ	ng/L	P422125	
		Chlorpyrifos Methyl	0.048	UQ	ng/L	P422125	RPD
		Coumaphos	0.48	UQ	ng/L	P422125	
		Cyanazine	3.1	UQ	ng/L	P422125	
		Cyprodinil	0.096	UQ	ng/L	P422125	
		Demeton	1.4	UQ	ng/L	P422125	
		Diazinon	0.12	UQ	ng/L	P422125	
		Difenoconazole	0.58	UQ	ng/L	P422125	
		Dimethenamid	0.096	UQ	ng/L	P422125	
		Dimethomorph	0.17	UQ	ng/L	P422125	
		Disulfoton	0.48	UQ	ng/L	P422125	
		Dithiopyr	0.60	UQ	ng/L	P422125	
		EPTC	1.2	UQ	ng/L	P422125	
		Ethion	0.14	UQ	ng/L	P422125	
		Ethoprop	0.096	UQ	ng/L	P422125	
		Etridiazole	0.14	UQ	ng/L	P422125	
		Fenamiphos	0.48	UQ	ng/L	P422125	
		Fenbuconazole	0.12	UQ	ng/L	P422125	
		Fipronil	0.24	UQ	ng/L	P422125	MS
		Fipronil Desulfinyl**	0.12	UQ	ng/L	P422125	
		Fipronil Sulfide	0.14	UQ	ng/L	P422125	

Field ID: FB_10272022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366024	EPA 8270E	Fipronil Sulfone	0.14	UQ	ng/L	P422125	
		Fluazifop-P-butyl	0.096	UQ	ng/L	P422125	
		Fludioxonil	0.12	UQ	ng/L	P422125	
		Flumioxazin	4.3	UQ	ng/L	P422125	
		Flutolanil	0.096	UQ	ng/L	P422125	
		Fluxapyroxad	0.096	UQ	ng/L	P422125	
		Fonofos	0.19	UQ	ng/L	P422125	
		Hexazinone	0.48	UQ	ng/L	P422125	
		Imazalil	0.72	UQ	ng/L	P422125	
		Iprodione	0.58	UQJ	ng/L	P422125	LCS, MS
		Loratadine**	0.34	UQ	ng/L	P422125	
		Malathion	0.34	UQ	ng/L	P422125	
		Metalaxyl	0.72	UQ	ng/L	P422125	
		Metolachlor	0.34	UQ	ng/L	P422125	
		Metribuzin	1.4	UQ	ng/L	P422125	
		Mevinphos	1.0	UQ	ng/L	P422125	
		Molinate	0.29	UQ	ng/L	P422125	
		Myclobutanil	0.24	UQ	ng/L	P422125	
		Naled	1.4	UQ	ng/L	P422125	
		Napropamide	0.38	UQ	ng/L	P422125	
		Norflurazon	0.48	UQ	ng/L	P422125	
		Oxadiazon	0.29	UQ	ng/L	P422125	
		Oxyfluorfen	0.14	UQ	ng/L	P422125	
		Parathion Ethyl	0.24	UQ	ng/L	P422125	
		Parathion Methyl	0.53	UQ	ng/L	P422125	
		Pendimethalin	0.96	UQ	ng/L	P422125	
		Phenytol**	3.4	UQ	ng/L	P422125	MS
		Phorate	0.50	UQ	ng/L	P422125	
		Prodiamine	0.17	UQ	ng/L	P422125	
		Prometon	0.86	UQ	ng/L	P422125	
		Prometryn	0.19	UQJ	ng/L	P422125	LCS, MS
		Pronamide	0.14	UQ	ng/L	P422125	
		Propanil	0.12	UQ	ng/L	P422125	
		Propargite	1.4	UQ	ng/L	P422125	
		Propiconazole	0.48	UQ	ng/L	P422125	
		Pyraflufen Ethyl	0.24	UQ	ng/L	P422125	
		Pyridaben	0.43	UQ	ng/L	P422125	
		Pyriproxyfen	0.12	UQ	ng/L	P422125	
		Simazine	0.48	UQ	ng/L	P422125	
		Stirophos	0.12	UQ	ng/L	P422125	
		Sulfentrazone	0.48	UQ	ng/L	P422125	
		Tebuconazole	0.48	UQ	ng/L	P422125	
		Terbufos	0.096	UQ	ng/L	P422125	
		Terbuthylazine	0.41	UQ	ng/L	P422125	
		Thiobencarb	0.58	UQ	ng/L	P422125	

Field ID: FB_10272022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366024	EPA 8270E	Triadimefon	0.24	UQ	ng/L	P422125	
2366027	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P421702	
		Iron	30	U	ug/L	P421702	
		Magnesium	0.040	U	mg/L	P421702	
		Potassium	0.30	U	mg/L	P421702	
		Sodium	0.50	U	mg/L	P421702	
		Strontium	2.0	U	ug/L	P421702	
		Tin	3.0	U	ug/L	P421702	
		Titanium	0.75	U	ug/L	P421702	
		Vanadium	2.0	U	ug/L	P421702	
		Zinc	5.0	U	ug/L	P421702	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P421702	
		Antimony	0.050	U	ug/L	P421702	
		Arsenic	0.050	U	ug/L	P421702	
		Barium	0.20	U	ug/L	P421702	
		Beryllium	0.010	U	ug/L	P421702	
		Boron	82.2		ug/L	P421702	
		Cadmium	0.020	U	ug/L	P421702	
		Chromium	0.40	U	ug/L	P421702	
		Cobalt	0.020	U	ug/L	P421702	
		Copper	0.40	U	ug/L	P421702	
		Lead	0.20	U	ug/L	P421702	
		Manganese	0.10	U	ug/L	P421702	
		Molybdenum	0.15	U	ug/L	P421702	
		Nickel	0.50	U	ug/L	P421702	
		Selenium	0.20	U	ug/L	P421702	
		Silver	0.010	U	ug/L	P421702	
		Thallium	0.10	U	ug/L	P421702	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 4500-F- C-2011: The result was confirmed on 11/17/2022.

EPA 8270E: Sample expired for preparation due to need for re-extraction.

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

EPA 200.8 Rev. 5.4: The boron result was confirmed in the undigested sample on 11/02/2022.

Sample Location: Tenmile Creek @ Selvitz Rd.

Collection Date/Time: 10/27/2022 12:30

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2365981	DEP SOP: NU-094-1	Color (true)	43	A	PCU	P421624	
	EPA 180.1 Rev. 2.0	Turbidity	6.6		NTU	P421621	
	EPA 300.0 Rev. 2.1	Chloride	360		mg Cl/L	P422245	
		Sulfate	91		mg SO4/L	P422248	
	SM 2320 B-2011	Total Alkalinity	214		mg CaCO3/L	P422005	
	SM 2540 C-2015	TDS	912		mg/L	P422175	
	SM 2540 D-2015	TSS	9	I	mg/L	P421962	
	SM 4500-F- C-2011	Fluoride	0.41		mg F/L	P422019	
2365982	EPA 350.1 Rev. 2.0	Ammonia-N	0.082		mg N/L	P422033	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.78		mg N/L	P421875	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P421932	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P421937	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P421887	
2365983	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10		mg P/L	P421619	
2366017	EPA 8321B	Aldicarb	0.020	U	ug/L	P421445	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P421445	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P421445	
		Carbaryl	0.0020	U	ug/L	P421445	
		Carbofuran	0.0020	U	ug/L	P421445	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P421445	
		Methiocarb	0.0020	U	ug/L	P421445	
		Methomyl	0.0020	U	ug/L	P421445	
		Oxamyl	0.0020	U	ug/L	P421445	
		Propoxur	0.0020	U	ug/L	P421445	
2366018		2,4-D	0.014		ug/L	P421666	
		Acesulfame K	0.10	U	ug/L	P421533	
		2,4,5-T	0.0040	U	ug/L	P421666	
		AMPA	0.25	I	ug/L	P421533	
		Acetaminophen	0.0080	U	ug/L	P421666	
		Acetamiprid	0.0020	U	ug/L	P421666	
		Endothall	0.25	U	ug/L	P421533	MS
		Glufosinate	0.10	U	ug/L	P421533	
		Glyphosate	0.66		ug/L	P421533	
		Afidopyrophen	0.0020	U	ug/L	P421666	
		Bentazon	0.011		ug/L	P421666	
		Sucralose	0.070		ug/L	P421533	
		Benzovindiflupyr	0.0020	U	ug/L	P421666	
		Carbamazepine	8.0E-04	U	ug/L	P421666	
		Clothianidin	0.0021	I	ug/L	P421666	
		Dinotefuran	0.0020	U	ug/L	P421666	
		Diuron	0.0020	U	ug/L	P421666	
		Fenuron	0.032	U	ug/L	P421666	
		Fluridone	8.0E-04	U	ug/L	P421666	

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366018	EPA 8321B	Imazapyr	0.055		ug/L	P421666	
		Hydrocodone	0.0020	U	ug/L	P421666	
		Ibuprofen	0.20	U	ug/L	P421666	
		Imidacloprid	0.016		ug/L	P421666	
		Linuron	0.0040	U	ug/L	P421666	
		Mandestrobin	0.0020	U	ug/L	P421666	
		MCP	0.0040	U	ug/L	P421666	
		Naproxen	0.0080	U	ug/L	P421666	
		Primidone	0.0040	U	ug/L	P421666	
		Pyraclostrobin	0.0020	U	ug/L	P421666	
		Silvex	0.0040	U	ug/L	P421666	
		Thiamethoxam	0.0055	I	ug/L	P421666	
		Tolfenpyrad	0.0020	U	ug/L	P421666	
		Triclopyr	0.0040	U	ug/L	P421666	
2366021	EPA 8270E	Aldrin	0.68	U	ng/L	P421589	
		Alpha-BHC	0.10	U	ng/L	P421589	
		Alpha-Chlordane	0.21	U	ng/L	P421589	
		PCB-1016	2.1	U	ng/L	P421589	
		Beta-BHC	0.10	U	ng/L	P421589	
		PCB-1221	2.1	U	ng/L	P421589	
		Beta-Cyfluthrin	1.3	U	ng/L	P421589	
		PCB-1232	2.1	U	ng/L	P421589	
		Bifenthrin	0.52	U	ng/L	P421589	
		PCB-1242	2.1	U	ng/L	P421589	
		PCB-1248	2.1	U	ng/L	P421589	
		Chlorothalonil	1.3	U	ng/L	P421589	
		PCB-1254	2.1	U	ng/L	P421589	
		Cis-Nonachlor	0.21	U	ng/L	P421589	
		PCB-1260	2.1	U	ng/L	P421589	
		Cypermethrin	1.6	U	ng/L	P421589	
		Dacthal	0.16	U	ng/L	P421589	
		DDD-p,p'	0.26	U	ng/L	P421589	
		DDE-p,p'	0.21	U	ng/L	P421589	
		DDT-p,p'	0.26	U	ng/L	P421589	
		Delta-BHC	0.42	U	ng/L	P421589	
		Deltamethrin	1.3	U	ng/L	P421589	
		Dichlobenil	0.26	U	ng/L	P421589	
		Dicofol	1.3	U	ng/L	P421589	
		Dieldrin	1.3	I	ng/L	P421589	
		Endosulfan I	0.42	U	ng/L	P421589	
		Endosulfan II	0.42	U	ng/L	P421589	
		Endosulfan Sulfate	0.31	U	ng/L	P421589	
		Endrin	0.42	U	ng/L	P421589	
		Endrin Aldehyde	0.78	U	ng/L	P421589	
		Endrin Ketone	0.42	U	ng/L	P421589	

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2366021	EPA 8270E	Esfenvalerate	0.78	U	ng/L	P421589		
		Ethalfuralin	0.16	U	ng/L	P421589		
		Fenpropathrin	0.26	U	ng/L	P421589		
		Gamma-BHC	0.13	U	ng/L	P421589		
		Gamma-Chlordane	0.21	U	ng/L	P421589		
		Heptachlor	0.21	U	ng/L	P421589		
		Heptachlor Epoxide	0.26	U	ng/L	P421589		
		Hexachlorobenzene**	1.0	U	ng/L	P421589		
		Kepone	5.2	U	ng/L	P421589		
		Lambda-Cyhalothrin	0.78	U	ng/L	P421589		
		Methoprene	0.78	U	ng/L	P421589		
		Methoxychlor	0.31	U	ng/L	P421589		
		MGK-264	0.21	U	ng/L	P421589		
		Mirex	0.36	U	ng/L	P421589		
		Oxychlordane	0.31	U	ng/L	P421589		
		Permethrin	1.7	U	ng/L	P421589		
		Phenothrin	0.94	U	ng/L	P421589		
		Piperonyl Butoxide	0.43	IQ	ng/L	P422151		
		Prallethrin	2.1	U	ng/L	P421589		
		Tau-Fluvalinate	0.26	U	ng/L	P421589		
		Tetramethrin	0.78	U	ng/L	P421589		
		Trans-Nonachlor	0.21	U	ng/L	P421589		
		Triclosan Methyl	0.16	U	ng/L	P421589		
		Trifluralin	0.21	U	ng/L	P421589		
	EPA 8276	Chlordane	2.6	U	ng/L	P421589		
		Toxaphene	16	U	ng/L	P421589		
	2366022	EPA 8270E	Oxybenzone**	9.7	UQ	ng/L	P422125	
			Acetochlor	0.24	UQ	ng/L	P422125	
			Octinoxate**	19	UQ	ng/L	P422125	
			Alachlor	0.24	UQ	ng/L	P422125	
Avobenzone**			97	UQ	ng/L	P422125		
Ametryn			0.58	UQ	ng/L	P422125		
Atrazine			0.24	UQ	ng/L	P422125		
PBDE-47**			3.9	UQ	ng/L	P422125		
Atrazine Desethyl			1.5	UQ	ng/L	P422125		
PBDE-99**			4.8	UQ	ng/L	P422125		
Azinphos Methyl			1.9	UQ	ng/L	P422125		
Tri-o-cresyl Phosphate**			5.8	UQ	ng/L	P422125		
Azoxystrobin			0.48	UQ	ng/L	P422125		
Bromacil			0.48	UQ	ng/L	P422125		
2-Ethylhexyl			12	UQ	ng/L	P422125		
2,3,4,5-tetrabromobenzoate (EHTBB)**								
Butylate	0.39	UQ	ng/L	P422125				
Dechlorane Plus**	29	UQ	ng/L	P422125				
Caffeine**	7.3	UQ	ng/L	P422125				

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366022	EPA 8270E	Carbophenothion	0.19	UQ	ng/L	P422125	RPD
		Carfentrazone Ethyl	0.097	UQ	ng/L	P422125	
		Chlorfenapyr	0.17	UQ	ng/L	P422125	
		Chlorpyrifos Ethyl	0.24	UQ	ng/L	P422125	
		Chlorpyrifos Methyl	0.048	UQ	ng/L	P422125	
		Coumaphos	0.48	UQ	ng/L	P422125	
		Cyanazine	3.1	UQ	ng/L	P422125	
		Cyprodinil	0.097	UQ	ng/L	P422125	
		Demeton	1.5	UQ	ng/L	P422125	
		Diazinon	0.12	UQ	ng/L	P422125	
		Difenoconazole	0.58	UQ	ng/L	P422125	
		Dimethenamid	0.097	UQ	ng/L	P422125	
		Dimethomorph	0.17	UQ	ng/L	P422125	
		Disulfoton	0.48	UQ	ng/L	P422125	
		Dithiopyr	0.60	UQ	ng/L	P422125	
		EPTC	1.2	UQ	ng/L	P422125	
		Ethion	0.15	UQ	ng/L	P422125	
		Ethoprop	0.097	UQ	ng/L	P422125	
		Etridiazole	0.15	UQ	ng/L	P422125	
		Fenamiphos	0.48	UQ	ng/L	P422125	MS
		Fenbuconazole	0.12	UQ	ng/L	P422125	
		Fipronil	0.24	UQ	ng/L	P422125	
		Fipronil Desulfinyl**	0.12	UQ	ng/L	P422125	
		Fipronil Sulfide	0.15	UQ	ng/L	P422125	
		Fipronil Sulfone	0.15	UQ	ng/L	P422125	
		Fluazifop-P-butyl	0.097	UQ	ng/L	P422125	
		Fludioxonil	0.12	UQ	ng/L	P422125	
		Flumioxazin	4.4	UQ	ng/L	P422125	
		Flutolanil	0.097	UQ	ng/L	P422125	
		Fluxapyroxad	0.097	UQ	ng/L	P422125	LCS, MS
		Fonofos	0.19	UQ	ng/L	P422125	
		Hexazinone	0.48	UQ	ng/L	P422125	
		Imazalil	0.73	UQ	ng/L	P422125	
		Iprodione	0.58	UQJ	ng/L	P422125	
		Loratadine**	0.34	UQ	ng/L	P422125	
		Malathion	0.34	UQ	ng/L	P422125	
		Metalaxyl	0.73	UQ	ng/L	P422125	
		Metolachlor	0.34	UQ	ng/L	P422125	
		Metribuzin	1.5	UQ	ng/L	P422125	
		Mevinphos	1.0	UQ	ng/L	P422125	
		Molinate	0.29	UQ	ng/L	P422125	
		Myclobutanil	0.24	UQ	ng/L	P422125	
		Naled	1.5	UQ	ng/L	P422125	
		Napropamide	0.39	UQ	ng/L	P422125	
		Norflurazon	0.48	UQ	ng/L	P422125	

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366022	EPA 8270E	Oxadiazon	0.29	UQ	ng/L	P422125	
		Oxyfluorfen	0.15	UQ	ng/L	P422125	
		Parathion Ethyl	0.24	UQ	ng/L	P422125	
		Parathion Methyl	0.53	UQ	ng/L	P422125	
		Pendimethalin	0.97	UQ	ng/L	P422125	
		Phenytol**	3.4	UQ	ng/L	P422125	MS
		Phorate	0.51	UQ	ng/L	P422125	
		Prodiamine	0.17	UQ	ng/L	P422125	
		Prometon	0.87	UQ	ng/L	P422125	
		Prometryn	0.19	UQJ	ng/L	P422125	LCS, MS
		Pronamide	0.15	UQ	ng/L	P422125	
		Propanil	0.12	UQ	ng/L	P422125	
		Propargite	1.5	UQ	ng/L	P422125	
		Propiconazole	0.48	UQ	ng/L	P422125	
		Pyraflufen Ethyl	0.24	UQ	ng/L	P422125	
		Pyridaben	0.44	UQ	ng/L	P422125	
		Pyriproxyfen	0.12	UQ	ng/L	P422125	
		Simazine	0.48	UQ	ng/L	P422125	
		Stirophos	0.12	UQ	ng/L	P422125	
		Sulfentrazone	0.48	UQ	ng/L	P422125	
		Tebuconazole	0.48	UQ	ng/L	P422125	
		Terbufos	0.097	UQ	ng/L	P422125	
		Terbutylazine	0.41	UQ	ng/L	P422125	
		Thiobencarb	0.58	UQ	ng/L	P422125	
		Triadimefon	0.24	UQ	ng/L	P422125	
2366025	EPA 200.7 Rev. 4.4	Calcium	119		mg/L	P421702	
		Iron	600		ug/L	P421702	
		Magnesium	31.4		mg/L	P421702	
		Potassium	6.9		mg/L	P421702	
		Sodium	178		mg/L	P421702	
		Strontium	4.81E+03		ug/L	P421702	
		Tin	3.0	U	ug/L	P421702	
		Titanium	1.6	I	ug/L	P421702	
		Vanadium	2.0	U	ug/L	P421702	
		Zinc	5.0	U	ug/L	P421702	
	EPA 200.8 Rev. 5.4	Aluminum	180		ug/L	P421702	
		Antimony	0.068	I	ug/L	P421702	
		Arsenic	1.04		ug/L	P421702	
		Barium	51.6		ug/L	P421702	
		Beryllium	0.019	I	ug/L	P421702	
		Boron	94.6		ug/L	P421702	
		Cadmium	0.020	U	ug/L	P421702	
		Chromium	0.56	I	ug/L	P421702	
		Cobalt	0.127		ug/L	P421702	
		Copper	1.75		ug/L	P421702	

Field ID: G5SE0109

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366025	EPA 200.8 Rev. 5.4	Lead	0.23	I	ug/L	P421702	
		Manganese	36.8		ug/L	P421702	
		Molybdenum	3.19		ug/L	P421702	
		Nickel	0.65	I	ug/L	P421702	
		Selenium	0.20	U	ug/L	P421702	
		Silver	0.010	U	ug/L	P421702	
		Thallium	0.10	U	ug/L	P421702	
	SM 2340 B-2011	Hardness	427		mg/L	P421702	

Ref. Method and Comment:
 SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
 EPA 8270E: MS accuracy for dieldrin and heptachlor epoxide not assessed due to high content of this parameter in the sample spiked. Sample expired for preparation for piperonyl butoxide due to need for re-extraction.
 EPA 8270E: Sample expired for preparation due to need for re-extraction.
 EPA 8270E: MS accuracy for atrazine and norflurazon not assessed due to high content of these parameters in the sample spiked. Sample expired for preparation due to need for re-extraction. 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: P421624

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421621

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P421702

Component	Result	Code	Units
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
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421702

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	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: P422245

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422248

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422033

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421875

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421932

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421933

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421937

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P421619

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

Reference Method: EPA 8270E
Batch ID: P421589

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	0.12	I	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P421589

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P421589

Component	Result	Code	Units
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
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	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
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 8270E

Batch ID: P421632

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P421632

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Avobenzene	100	U	ng/L
Avobenzene	100	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L

Reference Method: EPA 8270E

Batch ID: P422125

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
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
Avobenzene	100	U	ng/L
Avobenzene	100	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: P422125

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
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	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	0.62	U	ng/L
Dithiopyr	0.62	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	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422125

Component	Result	Code	Units
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
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	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	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
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	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
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytion	3.5	U	ng/L
Phenytion	3.5	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422125

Component	Result	Code	Units
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
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
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P422151

Component	Result	Code	Units
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L

Reference Method: EPA 8276

Batch ID: P421589

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 8276

Batch ID: P421589

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: P421445

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

Reference Method: EPA 8321B

Batch ID: P421533

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: P421666

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
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.20	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P421666

Component	Result	Code	Units
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: P421714

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

Reference Method: SM 2320 B-2011

Batch ID: P422005

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

Reference Method: SM 2540 C-2015

Batch ID: P422175

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P421962

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P422019

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P421887

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: P421624

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.5		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421621

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P421702

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	102		P	85 - 115
Magnesium	102		P	85 - 115
Potassium	102		P	85 - 115
Sodium	105		P	85 - 115
Strontium	104		P	85 - 115
Tin	98.2		P	85 - 115
Titanium	97.8		P	85 - 115
Vanadium	100		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421702

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.4		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	101		P	85 - 115
Barium	105		P	85 - 115
Beryllium	96.8		P	85 - 115
Boron	104		P	85 - 115
Cadmium	98.9		P	85 - 115
Chromium	100		P	85 - 115
Cobalt	102		P	85 - 115
Copper	99.2		P	85 - 115
Lead	97.3		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	99.0		P	85 - 115
Nickel	101		P	85 - 115
Selenium	99.5		P	85 - 115
Silver	102		P	85 - 115
Thallium	94.6		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422245

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422248

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422033

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421875

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421932

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	106		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421933

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	106		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421937

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: P421619

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

Reference Method: EPA 8270E
Batch ID: P421589

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	51.6		P	10 - 92.0
Alpha-BHC	90.4		P	75 - 107
Alpha-Chlordane	68.6		P	50 - 108
Beta-BHC	101		P	36 - 138
Beta-Cyfluthrin	58.8		P	20 - 161
Bifenthrin	50.2		P	10 - 119
Chlorothalonil	129		P	26 - 186
Cis-Nonachlor	61.1		P	42 - 119
Cypermethrin	62.3		P	22 - 150
Dacthal	86.9		P	72 - 119

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P421589

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDD-p,p'	64.2		P	45 - 107
DDE-p,p'	65.4		P	48 - 106
DDT-p,p'	70.7		P	48 - 110
Delta-BHC	106		P	54 - 140
Deltamethrin	74.7		P	22 - 189
Dichlobenil	78.2		P	36 - 117
Dicofol	68.3		P	46 - 155
Dieldrin	71.3		P	54 - 110
Endosulfan I	75.6		P	59 - 105
Endosulfan II	70.9		P	51 - 118
Endosulfan Sulfate	77.2		P	57 - 121
Endrin	72.0		P	10 - 120
Endrin Aldehyde	69.6		P	34 - 118
Endrin Ketone	80.8		P	69 - 177
Esfenvalerate	60.4		P	23 - 168
Ethalfuralin	71.7		P	49 - 99.0
Fenpropathrin	60.1		P	34 - 117
Gamma-BHC	92.5		P	72 - 117
Gamma-Chlordane	65.9		P	43 - 106
Heptachlor	60.7		P	41 - 98.0
Heptachlor Epoxide	76.1		P	57 - 106
Hexachlorobenzene	69.5		P	36 - 99.0
Kepone	54.9		P	16 - 215
Lambda-Cyhalothrin	48.4		P	21 - 177
Methoprene	50.7		P	10 - 119
Methoxychlor	85.3		P	60 - 112
MGK-264	80.0		P	26 - 122
Mirex	47.9		P	10 - 169
Oxychlordane	66.8		P	43 - 105
PCB-1016	70.1		P	48 - 112
PCB-1260	65.6		P	44 - 118
Permethrin	60.8		P	24 - 148
Phenothrin	46.3		P	10 - 106
Prallethrin	68.1		P	17 - 109
Tau-Fluvalinate	70.6		P	13 - 131
Tetramethrin	110		P	10 - 132
Trans-Nonachlor	67.4		P	44 - 106
Triclosan Methyl	74.2		P	59 - 109
Trifluralin	71.7		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P421632

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	114		P	42 - 162
Avobenzene	123		P	40 - 203
Dechlorane Plus	129		P	47 - 182
Octinoxate	104		P	26 - 166
Oxybenzone	101		P	49 - 135
PBDE-47	118		P	41 - 148
PBDE-99	113		P	38 - 147
Tri-o-cresyl Phosphate	104		P	49 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P422125

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	82.1		P	42 - 162
Acetochlor	107		P	69 - 123
Alachlor	85.3		P	65 - 118
Ametryn	107		P	58 - 141
Atrazine	103		P	73 - 118
Atrazine Desethyl	77.9		P	32 - 125
Avobenzone	90.1		P	40 - 203
Azinphos Methyl	155		P	36 - 197
Azoxystrobin	109		P	58 - 226
Bromacil	119		P	48 - 120
Butylate	62.5		P	27 - 85.0
Caffeine	78.2		P	40 - 137
Carbophenothion	110		P	54 - 132
Carfentrazone Ethyl	114		P	60 - 142
Chlorfenapyr	107		P	53 - 117
Chlorpyrifos Ethyl	92.9		P	59 - 116
Chlorpyrifos Methyl	104		P	66 - 119
Coumaphos	103		P	11 - 234
Cyanazine	204		P	61 - 248
Cyprodinil	123		P	50 - 147
Dechlorane Plus	80.2		P	47 - 182
Demeton	92.7		P	30 - 138
Diazinon	94.6		P	67 - 126
Difenoconazole	93.1		P	38 - 205
Dimethenamid	81.1		P	57 - 111
Dimethomorph	106		P	16 - 212
Disulfoton	104		P	46 - 126
Dithiopyr	100		P	62 - 115
EPTC	60.1		P	28 - 80.0
Ethion	75.7		P	24 - 122
Ethoprop	108		P	62 - 113
Etridiazole	85.3		P	28 - 92.0
Fenamiphos	111		P	57 - 128
Fenbuconazole	84.8		P	52 - 155
Fipronil	94.1		P	63 - 130
Fipronil Desulfinyl	97.7		P	61 - 130
Fipronil Sulfide	84.2		P	56 - 117
Fipronil Sulfone	87.8		P	52 - 118
Fluazifop-P-butyl	106		P	61 - 128
Fludioxonil	100		P	59 - 129
Flumioxazin	95.4		P	30 - 250
Flutolanil	100		P	53 - 127
Fluxapyroxad	108		P	42 - 132
Fonofos	90.9		P	61 - 110
Hexazinone	106		P	46 - 139
Imazalil	83.6		P	40 - 139
Iprodione	243		F	40 - 146
Loratadine	87.2		P	10 - 224
Malathion	111		P	61 - 135
Metalaxyl	92.9		P	58 - 121
Metolachlor	114		P	64 - 118
Metribuzin	98.8		P	45 - 245

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P422125

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mevinphos	88.5		P	49 - 118
Molinate	80.0		P	42 - 92.0
Myclobutanil	112		P	55 - 127
Naled	76.6		P	10 - 114
Napropamide	94.1		P	39 - 121
Norflurazon	103		P	55 - 129
Octinoxate	85.2		P	26 - 166
Oxadiazon	97.8		P	54 - 115
Oxybenzone	60.9		P	49 - 135
Oxyfluorfen	118		P	64 - 139
Parathion Ethyl	107		P	70 - 111
Parathion Methyl	129		P	76 - 136
PBDE-47	73.0		P	41 - 148
PBDE-99	71.1		P	38 - 147
Pendimethalin	104		P	52 - 118
Phenytoin	145		P	10 - 162
Phorate	66.9		P	40 - 122
Prodiamine	87.0		P	26 - 141
Prometon	100		P	54 - 122
Prometryn	134		F	61 - 128
Pronamide	119		P	72 - 121
Propanil	96.5		P	45 - 144
Propargite	143		P	10 - 199
Propiconazole	105		P	56 - 127
Pyraflufen Ethyl	97.8		P	56 - 140
Pyridaben	137		P	26 - 211
Pyriproxyfen	161		P	33 - 194
Simazine	107		P	67 - 121
Stirophos	117		P	20 - 142
Sulfentrazone	83.9		P	21 - 144
Tebuconazole	110		P	10 - 122
Terbufos	118		P	60 - 129
Terbuthylazine	105		P	69 - 113
Thiobencarb	111		P	51 - 120
Tri-o-cresyl Phosphate	62.9		P	49 - 150
Triadimefon	96.9		P	56 - 114

Reference Method: EPA 8270E

Batch ID: P422151

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Piperonyl Butoxide	92.7		P	10 - 139

Reference Method: EPA 8276

Batch ID: P421589

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	74.5		P	61 - 116
Toxaphene	91.4		P	48 - 124

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P421445

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	100		P	40 - 150
Aldicarb	106		P	30 - 150
Aldicarb Sulfone	109		P	40 - 150
Aldicarb Sulfoxide	99.0		P	40 - 150
Carbaryl	75.1		P	40 - 150
Carbofuran	80.5		P	40 - 150
Methiocarb	74.6		P	40 - 150
Methomyl	97.0		P	40 - 150
Oxamyl	99.8		P	40 - 150
Propoxur	71.9		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P421533

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	91.8		P	40 - 150
AMPA	104		P	40 - 150
Endothall	96.9		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	114		P	40 - 150
Sucralose	91.6		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P421666

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	90.0		P	40 - 150
2,4,5-T	74.0		P	40 - 150
Acetaminophen	92.8		P	30 - 150
Acetamiprid	89.9		P	40 - 150
Afidopyropen	70.3		P	30 - 150
Bentazon	106		P	30 - 150
Benzovindiflupyr	92.8		P	40 - 150
Carbamazepine	94.4		P	40 - 150
Clothianidin	101		P	40 - 150
Dinotefuran	106		P	40 - 150
Diuron	84.1		P	40 - 150
Fenuron	104		P	40 - 150
Fluridone	100		P	40 - 150
Hydrocodone	98.5		P	40 - 150
Ibuprofen	89.5		P	40 - 150
Imazapyr	88.6		P	40 - 150
Imidacloprid	97.4		P	40 - 150
Linuron	91.5		P	40 - 150
Mandestrobin	87.5		P	40 - 150
MCPP	102		P	40 - 150
Naproxen	73.3		P	40 - 150
Primidone	99.1		P	40 - 150
Pyraclostrobin	78.7		P	40 - 150
Silvex	75.4		P	40 - 150
Thiamethoxam	93.8		P	40 - 150
Tolfenpyrad	50.6		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P421666

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	78.7		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P421714

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	90.2		P	40 - 150
AMPA	116		P	40 - 150
Endothall	101		P	40 - 150
Glufosinate	104		P	40 - 150
Glyphosate	103		P	40 - 150
Sucralose	83.0		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P422005

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.3		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P422175

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

Reference Method: SM 2540 D-2015
Batch ID: P421962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	97.7		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P422019

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P421887

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P421702

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366080	Calcium	99.3	102	P/P	80 - 120
2366080	Iron	98.7	104	P/P	80 - 120
2366080	Magnesium	99.1	104	P/P	80 - 120
2366080	Potassium	102	104	P/P	80 - 120
2366080	Sodium	99.0	103	P/P	80 - 120
2366080	Strontium	97.8	101	P/P	80 - 120
2366080	Tin	98.4	102	P/P	80 - 120
2366080	Titanium	94.7	96.5	P/P	80 - 120
2366080	Vanadium	94.5	96.8	P/P	80 - 120
2366080	Zinc	96.4	97.6	P/P	80 - 120
2366164	Calcium	96.6		P	80 - 120
2366164	Iron	105		P	80 - 120
2366164	Magnesium	102		P	80 - 120
2366164	Potassium	97.7		P	80 - 120
2366164	Sodium	97.8		P	80 - 120
2366164	Strontium	99.0		P	80 - 120
2366164	Tin	96.8		P	80 - 120
2366164	Titanium	97.5		P	80 - 120
2366164	Vanadium	95.2		P	80 - 120
2366164	Zinc	92.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P421702

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366080	Aluminum	99.3	100	P/P	80 - 120
2366080	Antimony	101	102	P/P	80 - 120
2366080	Arsenic	102	102	P/P	80 - 120
2366080	Barium	104	104	P/P	80 - 120
2366080	Beryllium	94.1	95.3	P/P	80 - 120
2366080	Boron	104	105	P/P	80 - 120
2366080	Cadmium	98.3	99.6	P/P	80 - 120
2366080	Chromium	100	100	P/P	80 - 120
2366080	Cobalt	101	101	P/P	80 - 120
2366080	Copper	100	101	P/P	80 - 120
2366080	Lead	98.1	99.1	P/P	80 - 120
2366080	Manganese	101	101	P/P	80 - 120
2366080	Molybdenum	98.5	99.3	P/P	80 - 120
2366080	Nickel	100	101	P/P	80 - 120
2366080	Selenium	98.5	101	P/P	80 - 120
2366080	Silver	102	103	P/P	80 - 120
2366080	Thallium	96.2	98.6	P/P	80 - 120
2366164	Aluminum	99.6		P	80 - 120
2366164	Antimony	104		P	80 - 120
2366164	Arsenic	104		P	80 - 120
2366164	Barium	106		P	80 - 120
2366164	Beryllium	94.4		P	80 - 120
2366164	Boron	105		P	80 - 120
2366164	Cadmium	102		P	80 - 120
2366164	Chromium	100		P	80 - 120
2366164	Cobalt	103		P	80 - 120
2366164	Copper	101		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421702

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366164	Lead	100		P	80 - 120
2366164	Manganese	102		P	80 - 120
2366164	Molybdenum	101		P	80 - 120
2366164	Nickel	102		P	80 - 120
2366164	Selenium	99.6		P	80 - 120
2366164	Silver	103		P	80 - 120
2366164	Thallium	98.0		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422245

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365882	Chloride	106		P	90 - 110
2365886	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422248

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365882	Sulfate	108		P	90 - 110
2365886	Sulfate	108		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422033

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365901	Ammonia-N	94.8	94.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366094	Kjeldahl Nitrogen	102	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421932

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365725	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421933

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365985	NO2NO3-N	105	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421937

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366072	Total-P	106	108	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P421619

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365903	O-Phosphate-P	98.5	97.9	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P421589

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365814	Aldrin	52.3	60.8	P/P	20 - 82.0
2365814	Alpha-BHC	88.7	88.7	P/P	71 - 109
2365814	Alpha-Chlordane	55.5	60.8	P/P	42 - 106
2365814	Beta-BHC	109	128	P/P	69 - 180
2365814	Beta-Cyfluthrin	64.0	73.7	P/P	18 - 175
2365814	Bifenthrin	62.1	77.7	P/P	21 - 128
2365814	Chlorothalonil	146	168	P/P	10 - 300
2365814	Cis-Nonachlor	61.8	66.7	P/P	34 - 106
2365814	Cypermethrin	66.7	76.3	P/P	22 - 158
2365814	Dacthal	91.0	87.1	P/P	54 - 116
2365814	DDD-p,p'	63.0	68.8	P/P	34 - 107
2365814	DDE-p,p'	68.1	69.6	P/P	33 - 110
2365814	DDT-p,p'	66.5	73.2	P/P	50 - 122
2365814	Delta-BHC	114	124	P/P	77 - 193
2365814	Deltamethrin	72.8	86.1	P/P	10 - 195
2365814	Dichlobenil	72.9	59.0	P/P	25 - 113
2365814	Dicofol	64.6	64.8	P/P	38 - 247
2365814	Endosulfan I	62.1	62.3	P/P	51 - 106
2365814	Endosulfan II	73.9	74.1	P/P	37 - 122
2365814	Endosulfan Sulfate	72.0	70.3	P/P	43 - 132
2365814	Endrin	68.3	57.2	P/P	29 - 101
2365814	Endrin Aldehyde	61.6	49.4	P/P	19 - 110
2365814	Endrin Ketone	79.2	105	P/P	60 - 140
2365814	Esfenvalerate	65.3	75.1	P/P	26 - 199
2365814	Ethalfuralin	70.3	75.4	P/P	45 - 99.0
2365814	Fenpropathrin	66.6	68.1	P/P	35 - 120
2365814	Gamma-BHC	96.4	97.8	P/P	63 - 128
2365814	Gamma-Chlordane	55.8	61.9	P/P	40 - 104
2365814	Heptachlor	58.0	63.6	P/P	36 - 97.0
2365814	Hexachlorobenzene	65.7	68.6	P/P	39 - 96.0
2365814	Kepone	63.4	96.4	P/P	10 - 217
2365814	Lambda-Cyhalothrin	58.4	70.3	P/P	21 - 193
2365814	Methoprene	61.8	66.2	P/P	20 - 106
2365814	Methoxychlor	79.3	83.7	P/P	53 - 118
2365814	MGK-264	88.2	84.5	P/P	40 - 118
2365814	Mirex	58.8	64.8	P/P	26 - 92.0
2365814	Oxychlordane	80.1	81.6	P/P	44 - 99.0
2365814	Permethrin	63.6	71.5	P/P	33 - 182
2365814	Phenothrin	52.4	58.9	P/P	10 - 129
2365814	Prallethrin	73.9	68.0	P/P	24 - 113
2365814	Tau-Fluvalinate	76.8	93.4	P/P	14 - 149
2365814	Tetramethrin	121	123	P/P	17 - 151
2365814	Trans-Nonachlor	63.1	71.3	P/P	42 - 102
2365814	Triclosan Methyl	72.2	70.7	P/P	48 - 108
2365814	Trifluralin	71.1	75.1	P/P	47 - 96.0
2366021	PCB-1016	73.1	76.8	P/P	46 - 111

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P421589

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366021	PCB-1260	65.0	70.5	P/P	45 - 114

Reference Method: EPA 8270E

Batch ID: P421632

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366022	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	90.4	113	P/P	26 - 165
2366022	Avobenzene	112	139	P/P	37 - 178
2366022	Dechlorane Plus	91.3	124	P/P	50 - 150
2366022	Octinoxate	82.7	99.3	P/P	21 - 159
2366022	Oxybenzone	79.4	92.1	P/P	41 - 142
2366022	PBDE-47	89.7	111	P/P	27 - 144
2366022	PBDE-99	80.0	105	P/P	18 - 150
2366022	Tri-o-cresyl Phosphate	78.2	94.4	P/P	31 - 144

Reference Method: EPA 8270E

Batch ID: P422125

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367538	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	111	107	P/P	26 - 165
2367538	Acetochlor	99.6	91.5	P/P	67 - 124
2367538	Alachlor	86.7	74.5	P/P	60 - 120
2367538	Ametryn	112	101	P/P	54 - 216
2367538	Atrazine Desethyl	75.8	65.2	P/P	15 - 122
2367538	Avobenzene	121	117	P/P	37 - 178
2367538	Azinphos Methyl	145	140	P/P	40 - 292
2367538	Azoxystrobin	130	129	P/P	35 - 220
2367538	Bromacil	125	125	P/P	45 - 127
2367538	Butylate	52.8	42.0	P/P	20 - 83.0
2367538	Caffeine	85.9	87.9	P/P	10 - 194
2367538	Carbophenothion	123	116	P/P	57 - 127
2367538	Carfentrazone Ethyl	128	117	P/P	51 - 141
2367538	Chlorfenapyr	101	106	P/P	46 - 111
2367538	Chlorpyrifos Ethyl	82.2	115	P/P	52 - 120
2367538	Chlorpyrifos Methyl	102	102	P/P	63 - 119
2367538	Coumaphos	110	97.6	P/P	10 - 228
2367538	Cyanazine	212	220	P/P	59 - 241
2367538	Cyprodinil	125	111	P/P	47 - 146
2367538	Dechlorane Plus	114	98.5	P/P	50 - 150
2367538	Demeton	131	115	P/P	40 - 136
2367538	Diazinon	88.8	85.6	P/P	69 - 132
2367538	Difenoconazole	103	89.9	P/P	57 - 258
2367538	Dimethenamid	79.4	74.3	P/P	54 - 110
2367538	Dimethomorph	135	115	P/P	28 - 210
2367538	Disulfoton	104	91.2	P/P	43 - 133
2367538	Dithiopyr	115	96.3	P/P	39 - 116
2367538	EPTC	55.2	40.6	P/P	20 - 78.0
2367538	Ethion	71.7	68.6	P/P	17 - 119
2367538	Ethoprop	117	115	P/P	66 - 120
2367538	Etridiazole	83.0	75.0	P/P	28 - 96.0
2367538	Fenamiphos	113	96.1	P/P	41 - 126
2367538	Fenbuconazole	114	85.0	P/P	42 - 169

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P422125

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367538	Fipronil	139	126	F/P	61 - 132
2367538	Fipronil Desulfinyl	101	102	P/P	56 - 132
2367538	Fipronil Sulfide	96.9	90.4	P/P	48 - 119
2367538	Fipronil Sulfone	128	119	P/P	42 - 131
2367538	Fluazifop-P-butyl	105	110	P/P	53 - 131
2367538	Fludioxonil	111	93.9	P/P	56 - 127
2367538	Flumioxazin	89.5	90.7	P/P	19 - 300
2367538	Flutolanil	106	98.0	P/P	41 - 127
2367538	Fluxapyroxad	115	97.6	P/P	42 - 172
2367538	Fonofos	90.4	76.2	P/P	59 - 113
2367538	Hexazinone	113	103	P/P	66 - 122
2367538	Imazalil	102	98.3	P/P	21 - 283
2367538	Iprodione	266	248	F/F	43 - 150
2367538	Loratadine	92.1	85.3	P/P	23 - 201
2367538	Malathion	102	101	P/P	58 - 136
2367538	Metalaxyl	89.2	91.0	P/P	55 - 120
2367538	Metolachlor	119	119	P/P	57 - 121
2367538	Metribuzin	117	117	P/P	58 - 294
2367538	Mevinphos	99.5	87.3	P/P	50 - 126
2367538	Molinate	80.9	74.8	P/P	42 - 93.0
2367538	Myclobutanil	122	102	P/P	55 - 125
2367538	Naled	110	81.1	P/P	18 - 200
2367538	Napropamide	98.4	89.7	P/P	39 - 110
2367538	Octinoxate	112	103	P/P	21 - 159
2367538	Oxadiazon	94.2	87.0	P/P	43 - 112
2367538	Oxybenzone	91.9	78.6	P/P	41 - 142
2367538	Oxyfluorfen	121	122	P/P	64 - 153
2367538	Parathion Ethyl	107	104	P/P	69 - 114
2367538	Parathion Methyl	134	125	P/P	79 - 139
2367538	PBDE-47	97.7	94.4	P/P	27 - 144
2367538	PBDE-99	95.0	91.3	P/P	18 - 150
2367538	Pendimethalin	119	99.6	P/P	50 - 139
2367538	Phenytoin	116	157	P/F	10 - 146
2367538	Phorate	89.8	73.9	P/P	54 - 161
2367538	Prodiamine	75.5	78.3	P/P	30 - 161
2367538	Prometon	118	100	P/P	45 - 134
2367538	Prometryn	143	149	F/F	45 - 137
2367538	Pronamide	119	123	P/P	65 - 133
2367538	Propanil	91.5	96.8	P/P	49 - 142
2367538	Propargite	149	144	P/P	10 - 203
2367538	Propiconazole	112	93.8	P/P	38 - 146
2367538	Pyraflufen Ethyl	103	95.1	P/P	34 - 153
2367538	Pyridaben	167	144	P/P	12 - 192
2367538	Pyriproxyfen	139	164	P/P	33 - 180
2367538	Simazine	109	115	P/P	51 - 157
2367538	Stirophos	113	126	P/P	10 - 128
2367538	Sulfentrazone	98.6	87.3	P/P	53 - 186
2367538	Tebuconazole	122	114	P/P	10 - 133
2367538	Terbufos	126	114	P/P	65 - 139
2367538	Terbutylazine	103	99.3	P/P	66 - 117
2367538	Thiobencarb	108	117	P/P	51 - 119
2367538	Tri-o-cresyl Phosphate	90.6	82.4	P/P	31 - 144

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P422125

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367538	Triadimefon	91.3	113	P/P	48 - 119

Reference Method: EPA 8270E
Batch ID: P422151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368799	Piperonyl Butoxide	100	81.8	P/P	10 - 211

Reference Method: EPA 8276
Batch ID: P421589

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366021	Chlordane	83.9	82.6	P/P	53 - 126
2366021	Toxaphene	89.8	98.1	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P421445

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364462	3-Hydroxycarbofuran	91.5	113	P/P	40 - 150
2364462	Aldicarb	56.4	77.2	P/P	30 - 150
2364462	Aldicarb Sulfone	107	120	P/P	40 - 150
2364462	Aldicarb Sulfoxide	49.5	65.8	P/P	40 - 150
2364462	Carbaryl	67.8	70.9	P/P	40 - 150
2364462	Carbofuran	72.4	78.3	P/P	40 - 150
2364462	Methiocarb	67.4	75.6	P/P	40 - 150
2364462	Methomyl	85.1	104	P/P	40 - 150
2364462	Oxamyl	91.6	115	P/P	40 - 150
2364462	Propoxur	64.8	65.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P421533

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365683	Acesulfame K	81.3	79.6	P/P	40 - 150
2365683	AMPA	100	103	P/P	40 - 150
2365683	Endothall	159	162	F/F	40 - 150
2365683	Glufosinate	102	100	P/P	40 - 150
2365683	Glyphosate	112	119	P/P	40 - 150
2365683	Sucralose	102	101	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P421666

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365604	2,4-D	113	118	P/P	40 - 150
2365604	2,4,5-T	91.0	86.3	P/P	40 - 150
2365604	Acetaminophen	106	112	P/P	30 - 150
2365604	Acetamiprid	109	110	P/P	40 - 150
2365604	Afidopyropen	92.3	89.9	P/P	30 - 150
2365604	Bentazon	125	116	P/P	30 - 150
2365604	Benzovindiflupyr	97.5	99.7	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P421666

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365604	Carbamazepine	105	95.7	P/P	40 - 150
2365604	Clothianidin	114	112	P/P	40 - 150
2365604	Dinotefuran	132	137	P/P	40 - 150
2365604	Diuron	86.0	82.0	P/P	40 - 150
2365604	Fenuron	106	109	P/P	40 - 150
2365604	Fluridone	117	113	P/P	40 - 150
2365604	Hydrocodone	113	118	P/P	40 - 150
2365604	Ibuprofen	85.8	88.7	P/P	40 - 150
2365604	Imazapyr	115	107	P/P	40 - 150
2365604	Imidacloprid	125	122	P/P	40 - 150
2365604	Linuron	99.2	89.7	P/P	40 - 150
2365604	Mandestrobin	96.7	91.6	P/P	40 - 150
2365604	MCPP	117	113	P/P	40 - 150
2365604	Naproxen	75.0	79.1	P/P	40 - 150
2365604	Primidone	113	108	P/P	40 - 150
2365604	Pyraclostrobin	93.3	92.6	P/P	40 - 150
2365604	Silvex	91.0	85.2	P/P	40 - 150
2365604	Thiamethoxam	120	117	P/P	40 - 150
2365604	Tolfenpyrad	50.9	51.1	P/P	30 - 150
2365604	Triclopyr	91.3	83.9	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P421714

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366047	Acesulfame K	76.5	77.7	P/P	40 - 150
2366047	AMPA	85.9	92.7	P/P	40 - 150
2366047	Endothall	193	193	F/F	40 - 150
2366047	Glufosinate	81.1	90.0	P/P	40 - 150
2366047	Glyphosate	85.5	95.0	P/P	40 - 150
2366047	Sucralose	92.2	94.6	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P422019

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2365899	Fluoride	101	100	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P421887

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366054	Organic Carbon	103		P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P421624

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365981	Color (true)	0.659	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421621

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365914	Turbidity	1.45	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P421702

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366080	Calcium	2.57	Spike	P	0 - 20
2366080	Iron	5.23	Spike	P	0 - 20
2366080	Magnesium	4.79	Spike	P	0 - 20
2366080	Potassium	2.22	Spike	P	0 - 20
2366080	Sodium	2.75	Spike	P	0 - 20
2366080	Strontium	2.75	Spike	P	0 - 20
2366080	Tin	3.32	Spike	P	0 - 20
2366080	Titanium	1.82	Spike	P	0 - 20
2366080	Vanadium	2.37	Spike	P	0 - 20
2366080	Zinc	1.24	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421702

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366080	Aluminum	0.976	Spike	P	0 - 20
2366080	Antimony	0.357	Spike	P	0 - 20
2366080	Arsenic	0.347	Spike	P	0 - 20
2366080	Barium	0.249	Spike	P	0 - 20
2366080	Beryllium	1.17	Spike	P	0 - 20
2366080	Boron	0.906	Spike	P	0 - 20
2366080	Cadmium	1.33	Spike	P	0 - 20
2366080	Chromium	0.332	Spike	P	0 - 20
2366080	Cobalt	0.0955	Spike	P	0 - 20
2366080	Copper	0.276	Spike	P	0 - 20
2366080	Lead	0.953	Spike	P	0 - 20
2366080	Manganese	0.413	Spike	P	0 - 20
2366080	Molybdenum	0.785	Spike	P	0 - 20
2366080	Nickel	0.640	Spike	P	0 - 20
2366080	Selenium	2.17	Spike	P	0 - 20
2366080	Silver	1.33	Spike	P	0 - 20
2366080	Thallium	2.44	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422245

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365882	Chloride	0.845	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422248

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365882	Sulfate	0.967	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422033

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365901	Ammonia-N	0.813	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366094	Kjeldahl Nitrogen	1.09	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421932

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365725	NO2NO3-N	0.462	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421933

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365985	NO2NO3-N	0.327	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366072	Total-P	1.52	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P421619

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365903	O-Phosphate-P	0.414	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P421589

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365814	Aldrin	9.33	Spike	P	0 - 41
2365814	Alpha-BHC	0.0282	Spike	P	0 - 25
2365814	Alpha-Chlordane	1.95	Spike	P	0 - 33
2365814	Beta-BHC	15.2	Spike	P	0 - 36
2365814	Beta-Cyfluthrin	14.1	Spike	P	0 - 42
2365814	Bifenthrin	22.4	Spike	P	0 - 53
2365814	Chlorothalonil	14.1	Spike	P	0 - 71
2365814	Cis-Nonachlor	7.57	Spike	P	0 - 29
2365814	Cypermethrin	13.4	Spike	P	0 - 40
2365814	Dacthal	4.36	Spike	P	0 - 26
2365814	DDD-p,p'	8.85	Spike	P	0 - 39
2365814	DDE-p,p'	1.97	Spike	P	0 - 33
2365814	DDT-p,p'	9.54	Spike	P	0 - 40
2365814	Delta-BHC	8.74	Spike	P	0 - 37
2365814	Deltamethrin	16.8	Spike	P	0 - 100
2365814	Dichlobenil	21.1	Spike	P	0 - 40
2365814	Dicofol	0.200	Spike	P	0 - 31
2365814	Dieldrin	7.02	Spike	P	0 - 27
2365814	Endosulfan I	0.226	Spike	P	0 - 23
2365814	Endosulfan II	0.261	Spike	P	0 - 28
2365814	Endosulfan Sulfate	2.45	Spike	P	0 - 38
2365814	Endrin	14.9	Spike	P	0 - 63
2365814	Endrin Aldehyde	22.1	Spike	P	0 - 60
2365814	Endrin Ketone	21.2	Spike	P	0 - 37
2365814	Esfenvalerate	13.9	Spike	P	0 - 52
2365814	Ethalfuralin	7.05	Spike	P	0 - 23
2365814	Fenpropathrin	2.22	Spike	P	0 - 32
2365814	Gamma-BHC	1.41	Spike	P	0 - 17
2365814	Gamma-Chlordane	2.69	Spike	P	0 - 40
2365814	Heptachlor	9.16	Spike	P	0 - 29
2365814	Heptachlor Epoxide	2.88	Spike	P	0 - 25
2365814	Hexachlorobenzene	4.33	Spike	P	0 - 36
2365814	Kepone	41.3	Spike	P	0 - 93
2365814	Lambda-Cyhalothrin	18.5	Spike	P	0 - 55
2365814	Methoprene	6.90	Spike	P	0 - 53
2365814	Methoxychlor	5.29	Spike	P	0 - 29
2365814	MGK-264	4.29	Spike	P	0 - 35
2365814	Mirex	9.63	Spike	P	0 - 46
2365814	Oxychlordane	1.88	Spike	P	0 - 29
2365814	Permethrin	11.8	Spike	P	0 - 44
2365814	Phenothrin	11.8	Spike	P	0 - 56
2365814	Prallethrin	8.36	Spike	P	0 - 42
2365814	Tau-Fluvalinate	19.6	Spike	P	0 - 54
2365814	Tetramethrin	1.97	Spike	P	0 - 51
2365814	Trans-Nonachlor	9.85	Spike	P	0 - 37
2365814	Triclosan Methyl	2.08	Spike	P	0 - 31
2365814	Trifluralin	5.52	Spike	P	0 - 30
2366021	PCB-1016	4.96	Spike	P	0 - 32
2366021	PCB-1260	8.11	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P421632

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366022	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	22.2	Spike	P	0 - 37
2366022	Avobenzene	21.2	Spike	P	0 - 36
2366022	Dechlorane Plus	30.4	Spike	F	0 - 30
2366022	Octinoxate	18.3	Spike	P	0 - 45
2366022	Oxybenzone	14.8	Spike	P	0 - 46
2366022	PBDE-47	21.7	Spike	P	0 - 36
2366022	PBDE-99	27.2	Spike	P	0 - 40
2366022	Tri-o-cresyl Phosphate	18.7	Spike	P	0 - 33

Reference Method: EPA 8270E

Batch ID: P422125

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367538	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	3.91	Spike	P	0 - 37
2367538	Acetochlor	8.44	Spike	P	0 - 28
2367538	Alachlor	15.2	Spike	P	0 - 30
2367538	Ametryn	6.92	Spike	P	0 - 32
2367538	Atrazine	5.42	Spike	P	0 - 41
2367538	Atrazine Desethyl	11.8	Spike	P	0 - 36
2367538	Avobenzene	3.40	Spike	P	0 - 36
2367538	Azinphos Methyl	3.09	Spike	P	0 - 75
2367538	Azoxystrobin	1.00	Spike	P	0 - 39
2367538	Bromacil	0.0178	Spike	P	0 - 33
2367538	Butylate	22.8	Spike	P	0 - 44
2367538	Caffeine	2.26	Spike	P	0 - 74
2367538	Carbophenothion	5.46	Spike	P	0 - 25
2367538	Carfentrazone Ethyl	8.98	Spike	P	0 - 27
2367538	Chlorfenapyr	5.15	Spike	P	0 - 24
2367538	Chlorpyrifos Ethyl	32.9	Spike	F	0 - 26
2367538	Chlorpyrifos Methyl	0.775	Spike	P	0 - 26
2367538	Coumaphos	11.7	Spike	P	0 - 28
2367538	Cyanazine	3.90	Spike	P	0 - 48
2367538	Cyprodinil	11.5	Spike	P	0 - 29
2367538	Dechlorane Plus	15.0	Spike	P	0 - 30
2367538	Demeton	13.3	Spike	P	0 - 33
2367538	Diazinon	3.63	Spike	P	0 - 29
2367538	Difenoconazole	14.0	Spike	P	0 - 34
2367538	Dimethenamid	6.58	Spike	P	0 - 39
2367538	Dimethomorph	16.2	Spike	P	0 - 51
2367538	Disulfoton	13.1	Spike	P	0 - 30
2367538	Dithiopyr	18.1	Spike	P	0 - 26
2367538	EPTC	30.6	Spike	P	0 - 43
2367538	Ethion	4.42	Spike	P	0 - 79
2367538	Ethoprop	2.20	Spike	P	0 - 29
2367538	Etridiazole	10.1	Spike	P	0 - 33
2367538	Fenamiphos	16.3	Spike	P	0 - 40
2367538	Fenbuconazole	29.3	Spike	P	0 - 74
2367538	Fipronil	10.1	Spike	P	0 - 29
2367538	Fipronil Desulfinyl	0.389	Spike	P	0 - 32
2367538	Fipronil Sulfide	6.88	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P422125

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367538	Fipronil Sulfone	6.87	Spike	P	0 - 33
2367538	Fluazifop-P-butyl	4.81	Spike	P	0 - 38
2367538	Fludioxonil	16.5	Spike	P	0 - 29
2367538	Flumioxazin	1.35	Spike	P	0 - 51
2367538	Flutolanil	8.07	Spike	P	0 - 25
2367538	Fluxapyroxad	14.5	Spike	P	0 - 45
2367538	Fonofos	17.0	Spike	P	0 - 27
2367538	Hexazinone	5.13	Spike	P	0 - 30
2367538	Imazalil	3.96	Spike	P	0 - 100
2367538	Iprodione	6.84	Spike	P	0 - 33
2367538	Loratadine	7.73	Spike	P	0 - 56
2367538	Malathion	0.579	Spike	P	0 - 37
2367538	Metaxyl	1.90	Spike	P	0 - 40
2367538	Metolachlor	0.366	Spike	P	0 - 29
2367538	Metribuzin	0.520	Spike	P	0 - 45
2367538	Mevinphos	13.1	Spike	P	0 - 29
2367538	Molinate	7.87	Spike	P	0 - 33
2367538	Myclobutanil	16.8	Spike	P	0 - 26
2367538	Naled	30.5	Spike	P	0 - 37
2367538	Napropamide	9.24	Spike	P	0 - 44
2367538	Norflurazon	13.8	Spike	P	0 - 30
2367538	Octinoxate	9.07	Spike	P	0 - 45
2367538	Oxadiazon	6.28	Spike	P	0 - 28
2367538	Oxybenzone	15.6	Spike	P	0 - 46
2367538	Oxyfluorfen	0.736	Spike	P	0 - 28
2367538	Parathion Ethyl	3.15	Spike	P	0 - 31
2367538	Parathion Methyl	6.46	Spike	P	0 - 29
2367538	PBDE-47	3.46	Spike	P	0 - 36
2367538	PBDE-99	3.98	Spike	P	0 - 40
2367538	Pendimethalin	17.3	Spike	P	0 - 33
2367538	Phenytoin	30.3	Spike	P	0 - 100
2367538	Phorate	19.4	Spike	P	0 - 36
2367538	Prodiamine	3.65	Spike	P	0 - 71
2367538	Prometon	16.6	Spike	P	0 - 36
2367538	Prometryn	3.69	Spike	P	0 - 28
2367538	Pronamide	3.15	Spike	P	0 - 24
2367538	Propanil	5.67	Spike	P	0 - 28
2367538	Propargite	3.79	Spike	P	0 - 43
2367538	Propiconazole	13.5	Spike	P	0 - 33
2367538	Pyraflufen Ethyl	8.23	Spike	P	0 - 29
2367538	Pyridaben	14.9	Spike	P	0 - 30
2367538	Pyriproxyfen	16.5	Spike	P	0 - 79
2367538	Simazine	4.61	Spike	P	0 - 29
2367538	Stirophos	10.7	Spike	P	0 - 61
2367538	Sulfentrazone	10.3	Spike	P	0 - 33
2367538	Tebuconazole	6.71	Spike	P	0 - 69
2367538	Terbufos	10.1	Spike	P	0 - 29
2367538	Terbuthylazine	3.51	Spike	P	0 - 32
2367538	Thiobencarb	8.03	Spike	P	0 - 26
2367538	Tri-o-cresyl Phosphate	9.43	Spike	P	0 - 33
2367538	Triadimefon	21.7	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P422151

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368799	Piperonyl Butoxide	20.4	Spike	P	0 - 100

Reference Method: EPA 8276
Batch ID: P421589

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366021	Chlordane	1.54	Spike	P	0 - 25
2366021	Toxaphene	8.81	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P421445

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364462	3-Hydroxycarbofuran	21.2	Spike	P	0 - 30
2364462	Aldicarb	31.1	Spike	F	0 - 30
2364462	Aldicarb Sulfone	11.3	Spike	P	0 - 30
2364462	Aldicarb Sulfoxide	28.2	Spike	P	0 - 30
2364462	Carbaryl	4.45	Spike	P	0 - 30
2364462	Carbofuran	7.86	Spike	P	0 - 30
2364462	Methiocarb	11.4	Spike	P	0 - 30
2364462	Methomyl	20.0	Spike	P	0 - 30
2364462	Oxamyl	22.6	Spike	P	0 - 30
2364462	Propoxur	0.297	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P421533

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365683	Acesulfame K	2.12	Spike	P	0 - 30
2365683	AMPA	2.86	Spike	P	0 - 30
2365683	Endothall	1.92	Spike	P	0 - 30
2365683	Glufosinate	1.70	Spike	P	0 - 30
2365683	Glyphosate	6.51	Spike	P	0 - 30
2365683	Sucralose	0.481	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P421666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365604	2,4-D	4.08	Spike	P	0 - 30
2365604	2,4,5-T	5.33	Spike	P	0 - 30
2365604	Acetaminophen	5.73	Spike	P	0 - 30
2365604	Acetamiprid	1.05	Spike	P	0 - 30
2365604	Afidopyropen	2.57	Spike	P	0 - 30
2365604	Bentazon	7.06	Spike	P	0 - 30
2365604	Benzovindiflupyr	2.29	Spike	P	0 - 30
2365604	Carbamazepine	9.38	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P421666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365604	Clothianidin	2.04	Spike	P	0 - 30
2365604	Dinotefuran	3.94	Spike	P	0 - 30
2365604	Diuron	4.70	Spike	P	0 - 30
2365604	Fenuron	2.56	Spike	P	0 - 30
2365604	Fluridone	3.54	Spike	P	0 - 30
2365604	Hydrocodone	3.68	Spike	P	0 - 30
2365604	Ibuprofen	3.35	Spike	P	0 - 30
2365604	Imazapyr	6.24	Spike	P	0 - 30
2365604	Imidacloprid	2.14	Spike	P	0 - 30
2365604	Linuron	9.96	Spike	P	0 - 30
2365604	Mandestrobin	5.49	Spike	P	0 - 30
2365604	MCPP	3.73	Spike	P	0 - 30
2365604	Naproxen	5.38	Spike	P	0 - 30
2365604	Primidone	4.72	Spike	P	0 - 30
2365604	Pyraclostrobin	0.682	Spike	P	0 - 30
2365604	Silvex	6.68	Spike	P	0 - 30
2365604	Thiamethoxam	2.35	Spike	P	0 - 30
2365604	Tolfenpyrad	0.521	Spike	P	0 - 30
2365604	Triclopyr	8.50	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P421714

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366047	Acesulfame K	1.55	Spike	P	0 - 30
2366047	AMPA	6.57	Spike	P	0 - 30
2366047	Endothall	0.162	Spike	P	0 - 30
2366047	Glufosinate	10.4	Spike	P	0 - 30
2366047	Glyphosate	8.88	Spike	P	0 - 30
2366047	Sucralose	2.44	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P422005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365899	Total Alkalinity	1.16	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P422175

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365900	TDS	1.75	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P422019

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

Reference Method: SM 4500-F- C-2011
Batch ID: P422019

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365899	Fluoride	0.463	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P421887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366054	Organic Carbon	0.0113	Sample	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2366017
Field Sample ID: G5SE0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	49.6	P	30 - 160

Lab Sample ID: 2366018
Field Sample ID: G5SE0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	112	P	30 - 160
EPA 8321B	Carbamazepine-d10	73.8	P	30 - 160
EPA 8321B	Diuron-d6	55.4	P	30 - 160
EPA 8321B	Endothall-d6	91.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	42.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.8	P	30 - 160
EPA 8321B	Primidone-d5	118	P	30 - 160
EPA 8321B	Sucralose-d6	93.7	P	30 - 160

Lab Sample ID: 2366019
Field Sample ID: G2SE0009

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	109	P	30 - 160
EPA 8321B	Carbamazepine-d10	71.8	P	30 - 160
EPA 8321B	Diuron-d6	53.7	P	30 - 160
EPA 8321B	Endothall-d6	86.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	36.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.0	P	30 - 160
EPA 8321B	Primidone-d5	116	P	30 - 160
EPA 8321B	Sucralose-d6	89.5	P	30 - 160

Lab Sample ID: 2366020
Field Sample ID: FB_10272022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	100	P	30 - 160
EPA 8321B	Acetaminophen-d4	94.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	85.7	P	30 - 160
EPA 8321B	Diuron-d6	75.6	P	30 - 160
EPA 8321B	Endothall-d6	105	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	77.9	P	30 - 160
EPA 8321B	Primidone-d5	96.4	P	30 - 160
EPA 8321B	Sucralose-d6	81.1	P	30 - 160

Lab Sample ID: 2366021
Field Sample ID: G5SE0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	104	P	29 - 130
EPA 8270E	Decachlorobiphenyl	43.3	P	30 - 118
EPA 8270E	Decachlorobiphenyl	62.8	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	64.7	P	29 - 104

Quality Assurance Report Surrogates

Lab Sample ID: 2366021
Field Sample ID: G5SE0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Tetrachloro-m-xylene	47.6	P	30 - 97.0
EPA 8270E	Tetrachloro-m-xylene	65.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	50.7	P	30 - 101
EPA 8276	PCNB	96.7	P	48 - 121

Lab Sample ID: 2366022
Field Sample ID: G5SE0109

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	126	P	20 - 200
EPA 8270E	Simazine-d10	99.2	P	62 - 142
EPA 8270E	Terbufos-d10	115	P	58 - 132
EPA 8270E	Terphenyl-d14	1.41	F	52 - 137
EPA 8270E	Terphenyl-d14	98.2	P	52 - 137

Lab Sample ID: 2366023
Field Sample ID: G2SE0009

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	98.9	P	20 - 200
EPA 8270E	Simazine-d10	99.5	P	62 - 142
EPA 8270E	Terbufos-d10	118	P	58 - 132
EPA 8270E	Terphenyl-d14	105	P	52 - 137

Lab Sample ID: 2366024
Field Sample ID: FB_10272022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	97.8	P	20 - 200
EPA 8270E	Simazine-d10	94.3	P	62 - 142
EPA 8270E	Terbufos-d10	102	P	58 - 132
EPA 8270E	Terphenyl-d14	3.06	F	52 - 137
EPA 8270E	Terphenyl-d14	64.2	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A115529

Included Lab Sample IDs: 2366018, 2366019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	103	97.0	P/P	60 - 160
Endothall	83.4	118	P/P	60 - 160
Glufosinate	81.7	79.4	P/P	60 - 160
Glyphosate	102	105	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A115569

Included Lab Sample IDs: 2366018, 2366019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	94.2	97.5	P/P	60 - 160
Sucralose	89.3	88.6	P/P	60 - 160

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A115604

Included Lab Sample IDs: 2365981, 2365984, 2365987

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A115605

Included Lab Sample IDs: 2365983, 2365986

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

Reference Method: DEP SOP: NU-094-1

Run ID: A115609

Included Lab Sample IDs: 2365981, 2365984, 2365987

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.9	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115645

Included Lab Sample IDs: 2366017

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	113	116	P/P	60 - 150
Aldicarb	103	98.1	P/P	60 - 150
Aldicarb Sulfone	99.0	108	P/P	50 - 150
Aldicarb Sulfoxide	93.5	106	P/P	50 - 150
Carbaryl	109	103	P/P	60 - 150
Carbofuran	104	103	P/P	50 - 150
Methiocarb	105	103	P/P	50 - 150
Methomyl	97.1	110	P/P	50 - 150
Oxamyl	101	118	P/P	50 - 150
Propoxur	106	108	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A115677

Included Lab Sample IDs: 2366018, 2366019, 2366020

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	98.0	104	P/P	50 - 150
2,4,5-T	107	110	P/P	50 - 150
Acetaminophen	102	98.3	P/P	60 - 160
Acetamiprid	111	110	P/P	50 - 150
Afidopyropen	110	118	P/P	50 - 150
Bentazon	118	119	P/P	50 - 160
Benzovindiflupyr	119	125	P/P	50 - 150
Carbamazepine	117	119	P/P	60 - 150
Clothianidin	114	125	P/P	60 - 150
Dinotefuran	121	119	P/P	50 - 150
Diuron	107	106	P/P	60 - 160
Fenuron	106	111	P/P	60 - 150
Fluridone	121	120	P/P	60 - 160
Hydrocodone	120	120	P/P	60 - 150
Ibuprofen	88.7	113	P/P	50 - 160
Imazapyr	110	106	P/P	50 - 150
Imidacloprid	103	98.4	P/P	60 - 150
Linuron	117	125	P/P	60 - 150
Mandestrobin	111	113	P/P	50 - 150
MCPP	110	111	P/P	50 - 150
Naproxen	123	110	P/P	50 - 160
Primidone	116	107	P/P	60 - 150
Pyraclostrobin	117	111	P/P	60 - 150
Silvex	105	105	P/P	50 - 150
Thiamethoxam	117	113	P/P	50 - 150
Tolfenpyrad	119	118	P/P	60 - 150
Triclopyr	105	115	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A115696

Included Lab Sample IDs: 2366020

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	108	103	P/P	60 - 160
Endothall	98.0	96.2	P/P	60 - 160
Glufosinate	106	88.4	P/P	60 - 160
Glyphosate	97.6	101	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A115705

Included Lab Sample IDs: 2366025, 2366026, 2366027

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	99.1	P/P	90 - 110
Aluminum	99.1	99.7	P/P	90 - 110
Antimony	96.1	98.4	P/P	90 - 110
Antimony	98.4	98.6	P/P	90 - 110
Arsenic	99.7	99.1	P/P	90 - 110
Arsenic	99.9	99.7	P/P	90 - 110
Barium	98.5	99.6	P/P	90 - 110
Barium	99.6	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A115705

Included Lab Sample IDs: 2366025, 2366026, 2366027

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	97.4	97.0	P/P	90 - 110
Beryllium	97.5	97.4	P/P	90 - 110
Boron	101	103	P/P	90 - 110
Boron	102	101	P/P	90 - 110
Cadmium	98.2	99.3	P/P	90 - 110
Cadmium	99.3	99.8	P/P	90 - 110
Chromium	95.7	97.6	P/P	90 - 110
Chromium	97.6	95.6	P/P	90 - 110
Cobalt	99.7	99.8	P/P	90 - 110
Copper	97.6	98.0	P/P	90 - 110
Copper	98.0	96.8	P/P	90 - 110
Lead	95.5	95.7	P/P	90 - 110
Lead	95.5	95.5	P/P	90 - 110
Manganese	97.3	98.5	P/P	90 - 110
Manganese	98.5	97.1	P/P	90 - 110
Molybdenum	98.8	99.4	P/P	90 - 110
Molybdenum	99.4	98.8	P/P	90 - 110
Nickel	98.9	99.1	P/P	90 - 110
Nickel	99.1	98.1	P/P	90 - 110
Selenium	98.0	99.0	P/P	90 - 110
Selenium	99.0	98.0	P/P	90 - 110
Silver	100	101	P/P	90 - 110
Silver	101	101	P/P	90 - 110
Thallium	95.9	96.4	P/P	90 - 110
Thallium	96.4	96.4	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A115717

Included Lab Sample IDs: 2366021

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.7		P	80 - 120
Toxaphene	102		P	80 - 120

Reference Method: EPA 8270E

Run ID: A115731

Included Lab Sample IDs: 2366021

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.8		P	80 - 120
PCB-1260	97.4		P	80 - 120

Reference Method: SM 5310 B-2011

Run ID: A115735

Included Lab Sample IDs: 2365982, 2365985, 2365988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.4	97.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A115737

Included Lab Sample IDs: 2366025, 2366026

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cobalt	100	97.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115752

Included Lab Sample IDs: 2365982, 2365985, 2365988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	105	106	P/P	90 - 110
NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115771

Included Lab Sample IDs: 2366023

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.0		P	80 - 120
Avobenzene	97.4		P	80 - 120
Dechlorane Plus	93.6		P	80 - 120
Octinoxate	101		P	80 - 120
Oxybenzone	99.0		P	80 - 120
PBDE-47	98.9		P	80 - 120
PBDE-99	100		P	80 - 120
Tri-o-cresyl Phosphate	101		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A115774

Included Lab Sample IDs: 2365981, 2365984, 2365987

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

Reference Method: SM 4500-F- C-2011

Run ID: A115774

Included Lab Sample IDs: 2365981, 2365984, 2365987

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115778

Included Lab Sample IDs: 2365982, 2365985

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.4	98.7	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115779

Included Lab Sample IDs: 2366021

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A115779
Included Lab Sample IDs: 2366021

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-BHC	99.3		P	80 - 120
Alpha-Chlordane	104		P	80 - 120
Beta-BHC	82.2		P	80 - 120
Beta-Cyfluthrin	96.2		P	80 - 120
Bifenthrin	115		P	80 - 120
Chlorothalonil	92.2		P	80 - 120
Cis-Nonachlor	105		P	80 - 120
Cypermethrin	98.3		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	104		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	99.6		P	80 - 120
Delta-BHC	87.3		P	80 - 120
Deltamethrin	93.7		P	80 - 120
Dichlobenil	86.4		P	80 - 120
Dicofol	88.4		P	80 - 120
Dieldrin	105		P	80 - 120
Endosulfan I	106		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	94.3		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	100		P	80 - 120
Endrin Ketone	97.5		P	80 - 120
Esfenvalerate	98.3		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	105		P	80 - 120
Gamma-BHC	96.1		P	80 - 120
Gamma-Chlordane	103		P	80 - 120
Heptachlor	98.3		P	80 - 120
Heptachlor Epoxide	104		P	80 - 120
Hexachlorobenzene	97.7		P	80 - 120
Kepone	94.9		P	80 - 120
Lambda-Cyhalothrin	101		P	80 - 120
Methoprene	106		P	80 - 120
Methoxychlor	99.7		P	80 - 120
MGK-264	105		P	80 - 120
Mirex	106		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	106		P	80 - 120
Prallethrin	101		P	80 - 120
Tau-Fluvalinate	88.3		P	80 - 120
Tetramethrin	110		P	80 - 120
Trans-Nonachlor	110		P	80 - 120
Triclosan Methyl	102		P	80 - 120
Trifluralin	98.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A115783
Included Lab Sample IDs: 2366020

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	84.6	86.9	P/P	60 - 160
Sucralose	81.0	80.8	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A115789
Included Lab Sample IDs: 2365982, 2365985, 2365988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	97.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A115790
Included Lab Sample IDs: 2365988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	96.8	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A115791
Included Lab Sample IDs: 2366025, 2366026, 2366027

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	93.8	93.5	P/P	90 - 110
Calcium	96.3	95.7	P/P	90 - 110
Iron	94.9	94.7	P/P	90 - 110
Iron	98.6	98.9	P/P	90 - 110
Magnesium	93.4	93.4	P/P	90 - 110
Magnesium	96.9	97.5	P/P	90 - 110
Potassium	94.0	94.9	P/P	90 - 110
Potassium	98.8	97.9	P/P	90 - 110
Sodium	95.7	95.6	P/P	90 - 110
Sodium	99.5	97.6	P/P	90 - 110
Strontium	93.4	93.9	P/P	90 - 110
Tin	92.7	94.7	P/P	90 - 110
Titanium	91.4	93.6	P/P	90 - 110
Vanadium	92.2	92.6	P/P	90 - 110
Zinc	91.7	94.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A115800
Included Lab Sample IDs: 2365981, 2365984, 2365987

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.4	99.6	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A115813
Included Lab Sample IDs: 2365982, 2365985, 2365988

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115813

Included Lab Sample IDs: 2365982, 2365985, 2365988

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.2	97.9	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A115816

Included Lab Sample IDs: 2366027

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Strontium	104	102	P/P	90 - 110
Tin	105	98.6	P/P	90 - 110
Titanium	102	99.1	P/P	90 - 110
Vanadium	103	101	P/P	90 - 110
Zinc	108	102	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115866

Included Lab Sample IDs: 2366022, 2366023, 2366024

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.3		P	80 - 120
Alachlor	92.5		P	80 - 120
Ametryn	84.9		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	93.7		P	80 - 120
Azinphos Methyl	86.5		P	80 - 120
Azoxystrobin	99.6		P	80 - 120
Bromacil	87.9		P	80 - 120
Butylate	91.0		P	80 - 120
Caffeine	95.4		P	80 - 120
Carbophenothion	89.7		P	80 - 120
Carfentrazone Ethyl	95.3		P	80 - 120
Chlorfenapyr	90.3		P	80 - 120
Chlorpyrifos Ethyl	93.9		P	80 - 120
Chlorpyrifos Methyl	95.8		P	80 - 120
Coumaphos	83.0		P	80 - 120
Cyanazine	92.0		P	80 - 120
Cyprodinil	80.6		P	80 - 120
Demeton	95.6		P	80 - 120
Diazinon	89.7		P	80 - 120
Difenoconazole	82.6		P	80 - 120
Dimethenamid	96.2		P	80 - 120
Dimethomorph	106		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	82.2		P	80 - 120
EPTC	96.4		P	80 - 120
Ethion	85.9		P	80 - 120
Ethoprop	98.7		P	80 - 120
Etridiazole	98.1		P	80 - 120
Fenamiphos	90.6		P	80 - 120
Fenbuconazole	89.1		P	80 - 120
Fipronil	97.9		P	80 - 120
Fipronil Desulfinyl	80.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A115866

Included Lab Sample IDs: 2366022, 2366023, 2366024

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil Sulfide	83.9		P	80 - 120
Fipronil Sulfone	93.9		P	80 - 120
Fluazifop-P-butyl	88.0		P	80 - 120
Fludioxonil	88.3		P	80 - 120
Flumioxazin	88.8		P	80 - 120
Flutolanil	92.7		P	80 - 120
Fluxapyroxad	83.8		P	80 - 120
Fonofos	90.4		P	80 - 120
Hexazinone	97.6		P	80 - 120
Imazalil	90.6		P	80 - 120
Iprodione	96.7		P	80 - 120
Loratadine	85.1		P	80 - 120
Malathion	94.6		P	80 - 120
Metalaxyl	81.6		P	80 - 120
Metolachlor	94.8		P	80 - 120
Metribuzin	95.5		P	80 - 120
Mevinphos	92.1		P	80 - 120
Molinate	103		P	80 - 120
Myclobutanil	92.8		P	80 - 120
Naled	90.2		P	80 - 120
Napropamide	87.2		P	80 - 120
Norflurazon	94.2		P	80 - 120
Oxadiazon	91.1		P	80 - 120
Oxyfluorfen	87.6		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytoin	90.7		P	80 - 120
Phorate	96.2		P	80 - 120
Prodiamine	91.3		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	80.8		P	80 - 120
Pronamide	91.1		P	80 - 120
Propanil	85.5		P	80 - 120
Propargite	82.0		P	80 - 120
Propiconazole	90.7		P	80 - 120
Pyraflufen Ethyl	92.0		P	80 - 120
Pyridaben	91.7		P	80 - 120
Pyriproxyfen	89.4		P	80 - 120
Simazine	104		P	80 - 120
Stirophos	91.5		P	80 - 120
Sulfentrazone	83.0		P	80 - 120
Tebuconazole	82.4		P	80 - 120
Terbufos	92.2		P	80 - 120
Terbutylazine	94.3		P	80 - 120
Thiobencarb	97.6		P	80 - 120
Triadimefon	94.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A115920

Included Lab Sample IDs: 2366022, 2366024

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.8		P	80 - 120
Avobenzone	101		P	80 - 120
Dechlorane Plus	101		P	80 - 120
Octinoxate	93.4		P	80 - 120
Oxybenzone	98.0		P	80 - 120
PBDE-47	95.6		P	80 - 120
PBDE-99	97.1		P	80 - 120
Tri-o-cresyl Phosphate	93.9		P	80 - 120

Reference Method: EPA 8270E

Run ID: A115986

Included Lab Sample IDs: 2366021

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Piperonyl Butoxide	101		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
DEP SOP: NU-094-1	Color (true)	99.5					0.659	
EPA 180.1 Rev. 2.0	Turbidity	101					1.45	
EPA 200.7 Rev. 4.4	Calcium	102	99.3	102	96.6			2.57
	Iron	102	98.7	104	105			5.23
	Magnesium	102	99.1	104	102			4.79
	Potassium	102	102	104	97.7			2.22
	Sodium	105	99.0	103	97.8			2.75
	Strontium	104	97.8	101	99.0			2.75
	Tin	98.2	98.4	102	96.8			3.32
	Titanium	97.8	94.7	96.5	97.5			1.82
	Vanadium	100	94.5	96.8	95.2			2.37
	Zinc	101	96.4	97.6	92.9			1.24
EPA 200.8 Rev. 5.4	Aluminum	98.4	99.3	100	99.6			0.976
	Antimony	101	101	102	104			0.357
	Arsenic	101	102	102	104			0.347
	Barium	105	104	104	106			0.249
	Beryllium	96.8	94.1	95.3	94.4			1.17
	Boron	104	104	105	105			0.906
	Cadmium	98.9	98.3	99.6	102			1.33
	Chromium	100	100	100	100			0.332
	Cobalt	102	101	101	103			0.0955
	Copper	99.2	100	101	101			0.276
	Lead	97.3	98.1	99.1	100			0.953
	Manganese	101	101	101	102			0.413
	Molybdenum	99.0	98.5	99.3	101			0.785
	Nickel	101	100	101	102			0.640
	Selenium	99.5	98.5	101	99.6			2.17
	Silver	102	102	103	103			1.33
	Thallium	94.6	96.2	98.6	98.0			2.44
EPA 300.0 Rev. 2.1	Chloride	99.5	106	105			0.845	
	Sulfate	102	108	108			0.967	
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	94.8	94.0				0.813
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	102	104				1.09
EPA 353.2 Rev. 2.0	NO2NO3-N	106	106	106				0.462
	NO2NO3-N	106	105	106				0.327
EPA 365.1 Rev. 2.0	Total-P	105	106	108				1.52
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.6	98.5	97.9				0.414
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	114	90.4	113				22.2
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	82.1	111	107				3.91
	Acetochlor	107	99.6	91.5				8.44
	Alachlor	85.3	86.7	74.5				15.2
	Aldrin	51.6	52.3	60.8				9.33
	Alpha-BHC	90.4	88.7	88.7				0.0282
	Alpha-Chlordane	68.6	55.5	60.8				1.95
	Ametryn	107	112	101				6.92
	Atrazine	103						5.42
	Atrazine Desethyl	77.9	75.8	65.2				11.8
	Avobenzone	123	112	139				21.2
	Avobenzone	90.1	121	117				3.40
	Azinphos Methyl	155	145	140				3.09

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Azoxystrobin	109	130	129		1.00
	Beta-BHC	101	109	128		15.2
	Beta-Cyfluthrin	58.8	64.0	73.7		14.1
	Bifenthrin	50.2	62.1	77.7		22.4
	Bromacil	119	125	125		0.0178
	Butylate	62.5	52.8	42.0		22.8
	Caffeine	78.2	85.9	87.9		2.26
	Carbophenothion	110	123	116		5.46
	Carfentrazone Ethyl	114	128	117		8.98
	Chlorfenapyr	107	101	106		5.15
	Chlorothalonil	129	146	168		14.1
	Chlorpyrifos Ethyl	92.9	82.2	115		32.9
	Chlorpyrifos Methyl	104	102	102		0.775
	Cis-Nonachlor	61.1	61.8	66.7		7.57
	Coumaphos	103	110	97.6		11.7
	Cyanazine	204	212	220		3.90
	Cypermethrin	62.3	66.7	76.3		13.4
	Cyprodinil	123	125	111		11.5
	Dacthal	86.9	91.0	87.1		4.36
	DDD-p,p'	64.2	63.0	68.8		8.85
	DDE-p,p'	65.4	68.1	69.6		1.97
	DDT-p,p'	70.7	66.5	73.2		9.54
	Dechlorane Plus	129	91.3	124		30.4
	Dechlorane Plus	80.2	114	98.5		15.0
	Delta-BHC	106	114	124		8.74
	Deltamethrin	74.7	72.8	86.1		16.8
	Demeton	92.7	131	115		13.3
	Diazinon	94.6	88.8	85.6		3.63
	Dichlobenil	78.2	72.9	59.0		21.1
	Dicofol	68.3	64.6	64.8		0.200
	Dieldrin	71.3				7.02
	Difenoconazole	93.1	103	89.9		14.0
	Dimethenamid	81.1	79.4	74.3		6.58
	Dimethomorph	106	135	115		16.2
	Disulfoton	104	104	91.2		13.1
	Dithiopyr	100	115	96.3		18.1
	Endosulfan I	75.6	62.1	62.3		0.226
	Endosulfan II	70.9	73.9	74.1		0.261
	Endosulfan Sulfate	77.2	72.0	70.3		2.45
	Endrin	72.0	68.3	57.2		14.9
	Endrin Aldehyde	69.6	61.6	49.4		22.1
	Endrin Ketone	80.8	79.2	105		21.2
	EPTC	60.1	55.2	40.6		30.6
	Esfenvalerate	60.4	65.3	75.1		13.9
	Ethalfuralin	71.7	70.3	75.4		7.05
	Ethion	75.7	71.7	68.6		4.42
	Ethoprop	108	117	115		2.20
	Etridiazole	85.3	83.0	75.0		10.1
	Fenamiphos	111	113	96.1		16.3
	Fenbuconazole	84.8	114	85.0		29.3
	Fenpropathrin	60.1	66.6	68.1		2.22
	Fipronil	94.1	139	126		10.1
	Fipronil Desulfinyl	97.7	101	102		0.389
	Fipronil Sulfide	84.2	96.9	90.4		6.88

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Fipronil Sulfone	87.8	128	119		6.87
	Fluazifop-P-butyl	106	105	110		4.81
	Fludioxonil	100	111	93.9		16.5
	Flumioxazin	95.4	89.5	90.7		1.35
	Flutolanil	100	106	98.0		8.07
	Fluxapyroxad	108	115	97.6		14.5
	Fonofos	90.9	90.4	76.2		17.0
	Gamma-BHC	92.5	96.4	97.8		1.41
	Gamma-Chlordane	65.9	55.8	61.9		2.69
	Heptachlor	60.7	58.0	63.6		9.16
	Heptachlor Epoxide	76.1				2.88
	Hexachlorobenzene	69.5	65.7	68.6		4.33
	Hexazinone	106	113	103		5.13
	Imazalil	83.6	102	98.3		3.96
	Iprodione	243	266	248		6.84
	Kepone	54.9	63.4	96.4		41.3
	Lambda-Cyhalothrin	48.4	58.4	70.3		18.5
	Loratadine	87.2	92.1	85.3		7.73
	Malathion	111	102	101		0.579
	Metalaxyl	92.9	89.2	91.0		1.90
	Methoprene	50.7	61.8	66.2		6.90
	Methoxychlor	85.3	79.3	83.7		5.29
	Metolachlor	114	119	119		0.366
	Metribuzin	98.8	117	117		0.520
	Mevinphos	88.5	99.5	87.3		13.1
	MGK-264	80.0	88.2	84.5		4.29
	Mirex	47.9	58.8	64.8		9.63
	Molinate	80.0	80.9	74.8		7.87
	Myclobutanil	112	122	102		16.8
	Naled	76.6	110	81.1		30.5
	Napropamide	94.1	98.4	89.7		9.24
	Norflurazon	103				13.8
	Octinoxate	104	82.7	99.3		18.3
	Octinoxate	85.2	112	103		9.07
	Oxadiazon	97.8	94.2	87.0		6.28
	Oxybenzone	101	79.4	92.1		14.8
	Oxybenzone	60.9	91.9	78.6		15.6
	Oxychlordane	66.8	80.1	81.6		1.88
	Oxyfluorfen	118	121	122		0.736
	Parathion Ethyl	107	107	104		3.15
	Parathion Methyl	129	134	125		6.46
	PBDE-47	118	89.7	111		21.7
	PBDE-47	73.0	97.7	94.4		3.46
	PBDE-99	113	80.0	105		27.2
	PBDE-99	71.1	95.0	91.3		3.98
	PCB-1016	70.1	73.1	76.8		4.96
	PCB-1260	65.6	65.0	70.5		8.11
	Pendimethalin	104	119	99.6		17.3
	Permethrin	60.8	63.6	71.5		11.8
	Phenothrin	46.3	52.4	58.9		11.8
	Phenytoin	145	116	157		30.3
	Phorate	66.9	89.8	73.9		19.4
	Piperonyl Butoxide	92.7	81.8	100		20.4
	Prallethrin	68.1	73.9	68.0		8.36

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Prodiamine	87.0	75.5	78.3		3.65
	Prometon	100	118	100		16.6
	Prometryn	134	143	149		3.69
	Pronamide	119	119	123		3.15
	Propanil	96.5	91.5	96.8		5.67
	Propargite	143	149	144		3.79
	Propiconazole	105	112	93.8		13.5
	Pyraflufen Ethyl	97.8	103	95.1		8.23
	Pyridaben	137	167	144		14.9
	Pyriproxyfen	161	139	164		16.5
	Simazine	107	109	115		4.61
	Stirophos	117	113	126		10.7
	Sulfentrazone	83.9	98.6	87.3		10.3
	Tau-Fluvalinate	70.6	76.8	93.4		19.6
	Tebuconazole	110	122	114		6.71
	Terbufos	118	126	114		10.1
	Terbuthylazine	105	103	99.3		3.51
	Tetramethrin	110	121	123		1.97
	Thiobencarb	111	108	117		8.03
	Trans-Nonachlor	67.4	63.1	71.3		9.85
	Tri-o-cresyl Phosphate	104	78.2	94.4		18.7
	Tri-o-cresyl Phosphate	62.9	90.6	82.4		9.43
	Triadimefon	96.9	91.3	113		21.7
	Triclosan Methyl	74.2	72.2	70.7		2.08
	Trifluralin	71.7	71.1	75.1		5.52
EPA 8276	Chlordane	74.5	83.9	82.6		1.54
EPA 8321B	Toxaphene	91.4	89.8	98.1		8.81
	2,4-D	90.0	113	118		4.08
	2,4,5-T	74.0	91.0	86.3		5.33
	3-Hydroxycarbofuran	100	91.5	113		21.2
	Acesulfame K	91.8	81.3	79.6		2.12
	Acesulfame K	90.2	76.5	77.7		1.55
	Acetaminophen	92.8	106	112		5.73
	Acetamiprid	89.9	109	110		1.05
	Afidopyropen	70.3	92.3	89.9		2.57
	Aldicarb	106	56.4	77.2		31.1
	Aldicarb Sulfone	109	107	120		11.3
	Aldicarb Sulfoxide	99.0	49.5	65.8		28.2
	AMPA	104	100	103		2.86
	AMPA	116	85.9	92.7		6.57
	Bentazon	106	125	116		7.06
	Benzovindiflupyr	92.8	97.5	99.7		2.29
	Carbamazepine	94.4	105	95.7		9.38
	Carbaryl	75.1	67.8	70.9		4.45
	Carbofuran	80.5	72.4	78.3		7.86
	Clothianidin	101	114	112		2.04
	Dinotefuran	106	132	137		3.94
	Diuron	84.1	86.0	82.0		4.70
	Endothall	96.9	159	162		1.92
	Endothall	101	193	193		0.162
	Fenuron	104	106	109		2.56
	Fluridone	100	117	113		3.54
	Glufosinate	105	102	100		1.70
	Glufosinate	104	81.1	90.0		10.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Glyphosate	114	112	119		
	Glyphosate	103	85.5	95.0		
	Hydrocodone	98.5	113	118		
	Ibuprofen	89.5	85.8	88.7		
	Imazapyr	88.6	115	107		
	Imidacloprid	97.4	125	122		
	Linuron	91.5	99.2	89.7		
	Mandestrobin	87.5	96.7	91.6		
	MCPP	102	117	113		
	Methiocarb	74.6	67.4	75.6		
	Methomyl	97.0	85.1	104		
	Naproxen	73.3	75.0	79.1		
	Oxamyl	99.8	91.6	115		
	Primidone	99.1	113	108		
	Propoxur	71.9	64.8	65.0		
	Pyraclostrobin	78.7	93.3	92.6		
	Silvex	75.4	91.0	85.2		
	Sucralose	91.6	102	101		
	Sucralose	83.0	92.2	94.6		
	Thiamethoxam	93.8	120	117		
	Tolfenpyrad	50.6	50.9	51.1		
	Triclopyr	78.7	91.3	83.9		
SM 2320 B-2011	Total Alkalinity	97.3				1.16
SM 2540 C-2015	TDS	101				1.75
SM 2540 D-2015	TSS	97.7				
SM 4500-F- C-2011	Fluoride	99.8	101	100		
SM 5310 B-2011	Organic Carbon	100	103			0.0113

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2365981, 2365984, 2365987
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2365981, 2365984, 2365987
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2366025, 2366026, 2366027
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2366025, 2366026, 2366027
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2365981, 2365984, 2365987
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2365981, 2365984, 2365987
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2365982, 2365985, 2365988
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2365982, 2365985, 2365988
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2365982, 2365985, 2365988
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2365982, 2365985, 2365988
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2365983, 2365986
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2366022, 2366023, 2366024
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2366021
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2366022, 2366023, 2366024
EPA 8270E	PCBs in water matrices by GC/MS/MS	2366021
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2366021
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2366017
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2366018, 2366019, 2366020
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2365981, 2365984, 2365987

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2366025, 2366026
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2365981, 2365984, 2365987
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2365981, 2365984, 2365987
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2365981, 2365984, 2365987
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2365982, 2365985, 2365988

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	10/28/2022			10/28/2022 15:15	Samantha L Bates	2365981, 2365984
	10/28/2022			10/28/2022 15:16	Samantha L Bates	2365987
	10/28/2022			10/28/2022 13:43	Chandler E Cox	2365981
EPA 180.1 Rev. 2.0	10/28/2022			10/28/2022 13:44	Chandler E Cox	2365984
	10/28/2022			10/28/2022 13:45	Chandler E Cox	2365987
	10/28/2022	11/01/2022 10:50	George D Taylor	11/07/2022 20:59	McKinley C Carter	2366027
EPA 200.7 Rev. 4.4	10/28/2022	11/01/2022 10:50	George D Taylor	11/08/2022 00:00	McKinley C Carter	2366025
	10/28/2022	11/01/2022 10:50	George D Taylor	11/08/2022 00:16	McKinley C Carter	2366026
	10/28/2022	11/01/2022 10:50	George D Taylor	11/08/2022 00:24	McKinley C Carter	2366026
EPA 200.8 Rev. 5.4	10/28/2022	11/01/2022 10:50	George D Taylor	11/08/2022 18:45	McKinley C Carter	2366027
	10/28/2022	11/01/2022 10:50	George D Taylor	11/02/2022 18:38	Emily M Philpot	2366027
	10/28/2022	11/01/2022 10:50	George D Taylor	11/02/2022 20:53	Emily M Philpot	2366025
EPA 200.8 Rev. 5.4	10/28/2022	11/01/2022 10:50	George D Taylor	11/02/2022 21:02	Emily M Philpot	2366026
	10/28/2022	11/01/2022 10:50	George D Taylor	11/03/2022 15:30	Emily M Philpot	2366025
	10/28/2022	11/01/2022 10:50	George D Taylor	11/03/2022 15:39	Emily M Philpot	2366026
EPA 300.0 Rev. 2.1	10/28/2022			11/10/2022 19:17	Anna M. Plaviak	2365981
	10/28/2022			11/10/2022 19:32	Anna M. Plaviak	2365984
	10/28/2022			11/10/2022 19:47	Anna M. Plaviak	2365987
EPA 350.1 Rev. 2.0	10/28/2022			11/07/2022 12:49	Ping Hua	2365982
	10/28/2022			11/07/2022 12:51	Ping Hua	2365985
	10/28/2022			11/07/2022 12:52	Ping Hua	2365988
EPA 351.2 Rev. 2.0	10/28/2022	11/04/2022 10:30	Simonne.V. Calhoun	11/08/2022 16:17	Samantha L Bates	2365982
	10/28/2022	11/04/2022 10:30	Simonne.V. Calhoun	11/08/2022 16:18	Samantha L Bates	2365985
	10/28/2022	11/04/2022 10:30	Simonne.V. Calhoun	11/08/2022 16:20	Samantha L Bates	2365988
EPA 353.2 Rev. 2.0	10/28/2022			11/04/2022 10:23	Beverly Y. Sanders	2365982
	10/28/2022			11/04/2022 10:30	Beverly Y. Sanders	2365985
	10/28/2022			11/04/2022 10:43	Beverly Y. Sanders	2365988
EPA 365.1 Rev. 2.0	10/28/2022	11/04/2022 13:44	Adam P Silver	11/07/2022 11:02	James L Waggeberby	2365982
	10/28/2022	11/04/2022 13:44	Adam P Silver	11/07/2022 11:03	James L Waggeberby	2365985
	10/28/2022	11/04/2022 13:44	Adam P Silver	11/07/2022 15:02	James L Waggeberby	2365988
EPA 365.1 Rev. 2.0 dissolved	10/28/2022			10/28/2022 14:06	Elise M. Gillis	2365983
	10/28/2022			10/28/2022 14:07	Elise M. Gillis	2365986
	10/28/2022	10/31/2022 08:00	Fe-Val Siddell	11/02/2022 18:06	Vandana T. Nagar	2366021
EPA 8270E	10/28/2022	10/31/2022 08:00	Fe-Val Siddell	11/04/2022 01:43	Julie Wi	2366021
	10/28/2022	11/01/2022 08:30	Rasheda Ghaffari	11/04/2022 15:41	Arthur Maknenko	2366023
	10/28/2022	11/08/2022 08:30	Rasheda Ghaffari	11/09/2022 19:52	Michael Poppell	2366022
	10/28/2022	11/08/2022 08:30	Rasheda Ghaffari	11/09/2022 20:20	Michael Poppell	2366023
	10/28/2022	11/08/2022 08:30	Rasheda Ghaffari	11/09/2022 20:48	Michael Poppell	2366023
	10/28/2022	11/08/2022 08:30	Rasheda Ghaffari	11/09/2022 21:16	Michael Poppell	2366024
	10/28/2022	11/08/2022 08:30	Rasheda Ghaffari	11/14/2022 19:31	Arthur Maknenko	2366022

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	10/28/2022	11/08/2022 08:30	Rasheda Ghaffari	11/14/2022 19:50	Arthur Maknenko	2366024
	10/28/2022	11/10/2022 08:30	Rasheda Ghaffari	11/15/2022 23:30	Julie Wi	2366021
EPA 8276	10/28/2022	10/31/2022 08:00	Fe-Val Siddell	11/02/2022 06:22	Lipi Saha	2366021
EPA 8321B	10/28/2022	10/28/2022 13:00	Umesh Chiluwal	10/28/2022 18:08	Umesh Chiluwal	2366018
	10/28/2022	10/28/2022 13:00	Umesh Chiluwal	10/28/2022 18:21	Umesh Chiluwal	2366019
	10/28/2022	10/28/2022 13:00	Umesh Chiluwal	10/29/2022 06:52	Umesh Chiluwal	2366018
	10/28/2022	10/28/2022 13:00	Umesh Chiluwal	10/29/2022 07:07	Umesh Chiluwal	2366019
	10/28/2022	10/31/2022 09:30	June Rhew	10/31/2022 16:04	Juyoung Kim	2366017
	10/28/2022	11/01/2022 09:30	June Rhew	11/01/2022 21:33	Juyoung Kim	2366018
	10/28/2022	11/01/2022 09:30	June Rhew	11/01/2022 21:54	Juyoung Kim	2366019
	10/28/2022	11/01/2022 09:30	June Rhew	11/01/2022 22:14	Juyoung Kim	2366020
	10/28/2022	11/02/2022 12:00	Umesh Chiluwal	11/02/2022 13:38	Umesh Chiluwal	2366020
	10/28/2022	11/02/2022 12:00	Umesh Chiluwal	11/03/2022 05:25	Umesh Chiluwal	2366020
SM 2320 B-2011	10/28/2022			11/05/2022 12:35	Dale L. Simmons	2365987
	10/28/2022			11/05/2022 13:22	Dale L. Simmons	2365981
	10/28/2022			11/05/2022 13:50	Dale L. Simmons	2365984
SM 2340 B-2011	10/28/2022			11/08/2022 00:00	McKinley C Carter	2366025
	10/28/2022			11/08/2022 00:16	McKinley C Carter	2366026
SM 2540 C-2015	10/28/2022			11/02/2022 15:18	Yijie Li	2365981, 2365984, 2365987
SM 2540 D-2015	10/28/2022			11/02/2022 15:18	Yijie Li	2365981, 2365984, 2365987
SM 4500-F- C-2011	10/28/2022			11/05/2022 12:35	Dale L. Simmons	2365987
	10/28/2022			11/05/2022 13:22	Dale L. Simmons	2365981
	10/28/2022			11/05/2022 13:50	Dale L. Simmons	2365984
SM 5310 B-2011	10/28/2022			11/03/2022 12:53	Khloe J Berg	2365982
	10/28/2022			11/03/2022 13:17	Khloe J Berg	2365985
	10/28/2022			11/03/2022 13:31	Khloe J Berg	2365988