

Chemical Analysis Report

NE-DIST-2022-02-03-02

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

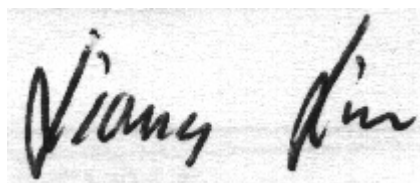
Event Description: **St.Augustine**
Request ID: **RQ-2022-01-31-14**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 03-MAR-2022 11:24

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored background.

Case Narrative

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

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

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

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

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Red House BR @ Lewis Speedway

Collection Date/Time: 02/02/2022 14:05

Field ID: 27010059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2303425	EPA 8321B	Aldicarb	0.020	U	ug/L	P409339	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P409339	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P409339	
		Carbaryl	0.0020	U	ug/L	P409339	
		Carbofuran	0.0020	U	ug/L	P409339	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P409339	
		Methiocarb	0.0020	U	ug/L	P409339	
		Methomyl	0.0020	U	ug/L	P409339	
		Oxamyl	0.0020	U	ug/L	P409339	
		Propoxur	0.0020	U	ug/L	P409339	
2303427		2,4-D	0.0020	U	ug/L	P409461	
		Acesulfame K	0.10	U	ug/L	P409457	
		2,4,5-T	0.0040	U	ug/L	P409461	
		AMPA	1.0	U	ug/L	P409457	
		Acetaminophen	0.0080	U	ug/L	P409461	
		Acetamiprid	0.0020	U	ug/L	P409461	
		Endothall	0.25	U	ug/L	P409457	
		Glufosinate	1.0	U	ug/L	P409457	
		Glyphosate	1.0	U	ug/L	P409457	
		Afidopyropen	0.0020	U	ug/L	P409461	
		Bentazon	0.049		ug/L	P409461	
		Sucralose	0.17		ug/L	P409457	
		Benzovindiflupyr	0.0020	U	ug/L	P409461	
		Carbamazepine	8.9E-04	I	ug/L	P409461	
		Clothianidin	0.0020	U	ug/L	P409461	
		Dinotefuran	0.0020	U	ug/L	P409461	MS
		Diuron	0.0020	U	ug/L	P409461	
		Fenuron	0.016	U	ug/L	P409461	
		Fluridone	0.041		ug/L	P409461	
		Imazapyr	0.19		ug/L	P409461	
		Hydrocodone	0.0020	U	ug/L	P409461	
		Ibuprofen	0.020	UJ	ug/L	P409461	CCV
		Imidacloprid	0.0026	I	ug/L	P409461	MS
		Linuron	0.0040	U	ug/L	P409461	
		Mandestrobin	0.0020	U	ug/L	P409461	
		MCPP	0.0040	U	ug/L	P409461	
		Naproxen	0.0080	UJ	ug/L	P409461	CCV
		Primidone	0.0040	U	ug/L	P409461	MS, RPD
		Pyraclostrobin	0.0020	U	ug/L	P409461	
		Silvex	0.0040	U	ug/L	P409461	RPD
		Thiamethoxam	0.0020	U	ug/L	P409461	MS
		Tolfenpyrad	0.0020	U	ug/L	P409461	
		Triclopyr	0.0040	U	ug/L	P409461	
2303429	EPA 8270E	Aldrin	0.70	U	ng/L	P409392	

Field ID: 27010059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2303429	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P409392	
		Alpha-Chlordane	0.22	U	ng/L	P409392	
		Beta-BHC	0.11	U	ng/L	P409392	
		Beta-Cyfluthrin**	1.4	U	ng/L	P409392	
		Bifenthrin**	0.54	U	ng/L	P409392	
		Chlorothalonil	1.4	U	ng/L	P409392	
		Cis-Nonachlor**	0.22	U	ng/L	P409392	
		Cypermethrin	1.6	U	ng/L	P409392	
		Dacthal**	0.16	U	ng/L	P409392	
		DDD-p,p'	0.27	U	ng/L	P409392	
		DDE-p,p'	0.22	U	ng/L	P409392	
		DDT-p,p'	0.27	U	ng/L	P409392	
		Delta-BHC	0.43	U	ng/L	P409392	
		Deltamethrin**	1.4	U	ng/L	P409392	
		Dichlobenil**	0.27	U	ng/L	P409392	
		Dicofol	1.4	U	ng/L	P409392	
		Dieldrin	0.43	U	ng/L	P409392	
		Endosulfan I	0.43	U	ng/L	P409392	
		Endosulfan II	0.43	U	ng/L	P409392	
		Endosulfan Sulfate	0.33	U	ng/L	P409392	
		Endrin	0.43	UJ	ng/L	P409392	LCS
		Endrin Aldehyde	0.81	U	ng/L	P409392	
		Endrin Ketone	0.43	UJ	ng/L	P409392	LCS
		Esfenvalerate**	0.81	U	ng/L	P409392	
		Ethalfuralin**	0.16	U	ng/L	P409392	
		Fenpropathrin**	0.27	U	ng/L	P409392	
		Gamma-BHC	0.14	U	ng/L	P409392	
		Gamma-Chlordane	0.22	U	ng/L	P409392	
		Heptachlor	0.22	U	ng/L	P409392	
		Heptachlor Epoxide	0.27	U	ng/L	P409392	
		Hexachlorobenzene	1.1	U	ng/L	P409392	
		Kepone**	5.4	UJ	ng/L	P409392	CCV
		Lambda-Cyhalothrin**	0.81	U	ng/L	P409392	
		Methoprene**	0.81	U	ng/L	P409392	
		Methoxychlor	0.33	U	ng/L	P409392	
		MGK-264**	0.22	U	ng/L	P409392	
		Mirex	0.76	U	ng/L	P409392	
		Oxychlordane**	0.33	U	ng/L	P409392	
		Permethrin	1.7	U	ng/L	P409392	
		Phenothrin**	0.98	U	ng/L	P409392	
		Piperonyl Butoxide**	0.16	UJ	ng/L	P409392	LCS
		Prallethrin**	2.2	U	ng/L	P409392	
		Tau-Fluvalinate**	0.27	U	ng/L	P409392	
		Tetramethrin**	0.81	U	ng/L	P409392	
		Trans-Nonachlor**	0.22	U	ng/L	P409392	

Field ID: 27010059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2303429	EPA 8270E	Triclosan Methyl**	0.16	U	ng/L	P409392	
		Trifluralin	0.22	U	ng/L	P409392	
	EPA 8276	Chlordane	2.7	U	ng/L	P409392	
		Toxaphene	16	U	ng/L	P409392	
2303431	EPA 8270E	Acetochlor	0.24	U	ng/L	P409564	
		Alachlor	0.24	U	ng/L	P409564	
		Ametryn	0.58	U	ng/L	P409564	
		Atrazine	7.2		ng/L	P409564	
		Atrazine Desethyl	1.5	U	ng/L	P409564	
		Azinphos Methyl	1.9	U	ng/L	P409564	
		Azoxystrobin**	0.48	U	ng/L	P409564	
		Bromacil	0.48	U	ng/L	P409564	
		Butylate	0.39	U	ng/L	P409564	
		Caffeine**	24	I	ng/L	P409564	
		Carbophenothion	0.19	U	ng/L	P409564	
		Carfentrazone Ethyl**	0.097	U	ng/L	P409564	
		Chlorfenapyr**	0.17	U	ng/L	P409564	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P409564	
		Chlorpyrifos Methyl	0.048	U	ng/L	P409564	
		Coumaphos**	0.48	U	ng/L	P409564	
		Cyanazine	3.1	U	ng/L	P409564	
		Cyprodinil**	0.097	U	ng/L	P409564	
		Demeton	1.5	U	ng/L	P409564	
		Diazinon	0.12	U	ng/L	P409564	
		Difenoconazole**	0.58	U	ng/L	P409564	
		Dimethenamid**	0.097	U	ng/L	P409564	
		Dimethomorph**	0.20	I	ng/L	P409564	
		Disulfoton	0.48	U	ng/L	P409564	
		Dithiopyr**	0.18	I	ng/L	P409564	
		EPTC	1.2	U	ng/L	P409564	
		Ethion	0.15	U	ng/L	P409564	
		Ethoprop	0.097	U	ng/L	P409564	
		Etridiazole**	0.15	U	ng/L	P409564	MS
		Fenamiphos	0.48	U	ng/L	P409564	
		Fenbuconazole**	0.12	U	ng/L	P409564	
		Fipronil	0.24	U	ng/L	P409564	
		Fipronil Desulfinyl**	0.20	I	ng/L	P409564	
		Fipronil Sulfide	0.75		ng/L	P409564	
		Fipronil Sulfone	0.88		ng/L	P409564	
		Fluazifop-P-butyl**	0.097	U	ng/L	P409564	
		Fludioxonil**	0.12	U	ng/L	P409564	
		Flumioxazin**	1.7	U	ng/L	P409564	
		Flutolanil**	0.097	U	ng/L	P409564	
		Fluxapyroxad**	0.12	I	ng/L	P409564	MS
		Fonofos	0.19	U	ng/L	P409564	

Field ID: 27010059

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2303431	EPA 8270E	Hexazinone	0.48	U	ng/L	P409564	
		Imazalil**	0.73	U	ng/L	P409564	
		Iprodione**	0.58	U	ng/L	P409564	
		Loratadine**	0.097	U	ng/L	P409564	
		Malathion	0.34	U	ng/L	P409564	
		Metalaxyl	0.73	U	ng/L	P409564	
		Metolachlor	0.34	U	ng/L	P409564	
		Metribuzin	2.4	U	ng/L	P409564	
		Mevinphos	1.0	U	ng/L	P409564	
		Molinate	0.29	U	ng/L	P409564	
		Myclobutanil**	0.46	I	ng/L	P409564	
		Naled**	1.5	UJ	ng/L	P409564	LCS, MS
		Napropamide**	0.39	U	ng/L	P409564	
		Norflurazon	0.48	U	ng/L	P409564	
		Oxadiazon	0.40	I	ng/L	P409564	
		Oxyfluorfen**	0.15	U	ng/L	P409564	
		Parathion Ethyl	0.24	U	ng/L	P409564	
		Parathion Methyl	0.53	U	ng/L	P409564	
		Pendimethalin	0.97	U	ng/L	P409564	
		Phenytol**	3.4	U	ng/L	P409564	
		Phorate	0.51	U	ng/L	P409564	
		Prodiamine**	0.17	U	ng/L	P409564	
		Prometon	0.87	U	ng/L	P409564	
		Prometryn	0.19	U	ng/L	P409564	
		Pronamide**	0.15	U	ng/L	P409564	
		Propanil**	0.12	U	ng/L	P409564	
		Propargite**	1.5	U	ng/L	P409564	
		Propiconazole**	1.1	I	ng/L	P409564	
		Pyraflufen Ethyl**	0.24	U	ng/L	P409564	
		Pyridaben**	0.44	U	ng/L	P409564	
		Pyriproxyfen**	0.12	U	ng/L	P409564	
		Simazine	1.7	I	ng/L	P409564	
		Stirophos**	0.12	U	ng/L	P409564	
		Sulfentrazone**	22		ng/L	P409564	
		Tebuconazole**	0.55	I	ng/L	P409564	MS
		Terbufos	0.097	U	ng/L	P409564	
		Terbuthylazine	0.41	U	ng/L	P409564	
		Thiobencarb**	0.58	U	ng/L	P409564	
		Triadimefon**	0.24	U	ng/L	P409564	

Ref. Method and Comment:

EPA 8321B: MS accuracy for oxamyl could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

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

Sample Location: Oyster CR @ Dixie HWY

Collection Date/Time: 02/02/2022 13:45

Field ID: 27010056

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2303404	EPA 180.1 Rev. 2.0	Turbidity	2.1		NTU	P409439	
	SM 2320 B-2011	Total Alkalinity	78		mg CaCO3/L	P409589	
	SM 2540 D-2011	TSS	3	UA	mg/L	P409573	
	SM 4500 F-C-2011	Fluoride	0.17		mg F/L	P409591	
2303405	EPA 350.1 Rev. 2.0	Ammonia-N	0.36		mg N/L	P409949	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.69		mg N/L	P409506	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.076		mg N/L	P409552	
	EPA 365.1 Rev. 2.0	Total-P	0.036		mg P/L	P409514	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P410236	
2303406	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.017		mg P/L	P409396	

Ref. Method and Comment:

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

Sample Location: San Sebastian River @ Hidden Harbor Marina Collection Date/Time: 02/02/2022 13:15

Field ID: 27010088

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2303395	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P409439	
	SM 2320 B-2011	Total Alkalinity	119		mg CaCO3/L	P409547	
	SM 2540 D-2011	TSS	4	I	mg/L	P409573	
	SM 4500 F-C-2011	Fluoride	1.1		mg F/L	P409550	
2303398	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P409949	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27	I	mg N/L	P410429	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P409552	
	EPA 365.1 Rev. 2.0	Total-P	0.036		mg P/L	P409509	
	SM 5310 B-2011	Organic Carbon	2.9		mg C/L	P410236	
2303401	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.019		mg P/L	P409396	
2303433	EPA 200.7 Rev. 4.4	Calcium	400		mg/L	P409606	
		Iron	130	I	ug/L	P409606	
		Magnesium	1.30E+03		mg/L	P409606	
		Strontium	7.35E+03		ug/L	P409606	
		Tin	150	U	ug/L	P409606	
		Vanadium	20	U	ug/L	P409606	
		Zinc	50	U	ug/L	P409606	
	EPA 200.8 Rev. 5.4	Aluminum	174		ug/L	P409606	
		Antimony	0.20	U	ug/L	P409606	
		Arsenic	2.02		ug/L	P409606	
		Beryllium	0.040	U	ug/L	P409606	
		Cadmium	0.080	U	ug/L	P409606	
		Chromium	1.6	U	ug/L	P409606	
		Cobalt	0.080	U	ug/L	P409606	
		Copper	1.6	U	ug/L	P409606	
		Lead	0.80	U	ug/L	P409606	
		Manganese	7.1		ug/L	P409606	
		Molybdenum	12.3		ug/L	P409606	
		Nickel	2.0	U	ug/L	P409606	
		Selenium	0.80	U	ug/L	P409606	
		Silver	0.040	U	ug/L	P409606	

Ref. Method and Comment:

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

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium and strontium are unavailable because of high analyte concentration in the QC sample.

Sample Location: Mill Creek at Powerline bridge

Collection Date/Time: 02/02/2022 14:55

Field ID: G2NE1216

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2303426	EPA 8321B	Aldicarb	0.020	U	ug/L	P409339	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P409339	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P409339	
		Carbaryl	0.0020	U	ug/L	P409339	
		Carbofuran	0.0020	U	ug/L	P409339	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P409339	
		Methiocarb	0.0020	U	ug/L	P409339	
		Methomyl	0.0020	U	ug/L	P409339	
		Oxamyl	0.0020	U	ug/L	P409339	
		Propoxur	0.0020	U	ug/L	P409339	
2303428		2,4-D	0.0044	I	ug/L	P409461	
		Acesulfame K	0.10	U	ug/L	P409457	
		2,4,5-T	0.0040	U	ug/L	P409461	
		AMPA	0.28	I	ug/L	P409457	
		Acetaminophen	0.0080	U	ug/L	P409461	
		Acetamiprid	0.0020	U	ug/L	P409461	
		Endothall	0.25	U	ug/L	P409457	
		Glufosinate	0.10	U	ug/L	P409457	
		Glyphosate	0.17	I	ug/L	P409457	
		Afidopyropen	0.0020	U	ug/L	P409461	
		Bentazon	0.032		ug/L	P409461	
		Sucralose	3.3		ug/L	P409457	
		Benzovindiflupyr	0.0020	U	ug/L	P409461	
		Carbamazepine	0.0035		ug/L	P409461	
		Clothianidin	0.0023	I	ug/L	P409461	
		Dinotefuran	0.0020	U	ug/L	P409461	MS
		Diuron	0.0020	U	ug/L	P409461	
		Fenuron	0.016	U	ug/L	P409461	
		Fluridone	0.0098		ug/L	P409461	
		Imazapyr	0.20		ug/L	P409461	
		Hydrocodone	0.0020	U	ug/L	P409461	
		Ibuprofen	0.020	UJ	ug/L	P409461	CCV
		Imidacloprid	0.0067	I	ug/L	P409461	MS
		Linuron	0.0040	U	ug/L	P409461	
		Mandestrobin	0.0020	U	ug/L	P409461	
		MCPP	0.0040	U	ug/L	P409461	
		Naproxen	0.0080	UJ	ug/L	P409461	CCV
		Primidone	0.017		ug/L	P409461	MS, RPD
		Pyraclostrobin	0.0020	U	ug/L	P409461	
		Silvex	0.0040	U	ug/L	P409461	RPD
		Thiamethoxam	0.0020	U	ug/L	P409461	MS
		Tolfenpyrad	0.0020	U	ug/L	P409461	
		Triclopyr	0.0040	U	ug/L	P409461	
2303430	EPA 8270E	Aldrin	0.67	U	ng/L	P409392	

Field ID: G2NE1216

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2303430	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P409392	
		Alpha-Chlordane	0.20	U	ng/L	P409392	
		Beta-BHC	0.10	U	ng/L	P409392	
		Beta-Cyfluthrin**	1.3	U	ng/L	P409392	
		Bifenthrin**	0.51	U	ng/L	P409392	
		Chlorothalonil	1.3	U	ng/L	P409392	
		Cis-Nonachlor**	0.20	U	ng/L	P409392	
		Cypermethrin	1.5	U	ng/L	P409392	
		Dacthal**	0.15	U	ng/L	P409392	
		DDD-p,p'	0.26	U	ng/L	P409392	
		DDE-p,p'	0.20	U	ng/L	P409392	
		DDT-p,p'	0.26	U	ng/L	P409392	
		Delta-BHC	0.41	U	ng/L	P409392	
		Deltamethrin**	1.3	U	ng/L	P409392	
		Dichlobenil**	0.26	U	ng/L	P409392	
		Dicofol	1.3	U	ng/L	P409392	
		Dieldrin	0.41	U	ng/L	P409392	
		Endosulfan I	0.41	U	ng/L	P409392	
		Endosulfan II	0.41	U	ng/L	P409392	
		Endosulfan Sulfate	0.31	U	ng/L	P409392	
		Endrin	0.41	UJ	ng/L	P409392	LCS
		Endrin Aldehyde	0.77	U	ng/L	P409392	
		Endrin Ketone	0.41	UJ	ng/L	P409392	LCS
		Esfenvalerate**	0.77	U	ng/L	P409392	
		Ethalfuralin**	0.15	U	ng/L	P409392	
		Fenpropathrin**	0.26	U	ng/L	P409392	
		Gamma-BHC	0.13	U	ng/L	P409392	
		Gamma-Chlordane	0.20	U	ng/L	P409392	
		Heptachlor	0.20	U	ng/L	P409392	
		Heptachlor Epoxide	0.26	U	ng/L	P409392	
		Hexachlorobenzene	1.0	U	ng/L	P409392	
		Kepone**	5.1	UJ	ng/L	P409392	CCV
		Lambda-Cyhalothrin**	0.77	U	ng/L	P409392	
		Methoprene**	0.77	U	ng/L	P409392	
		Methoxychlor	0.31	U	ng/L	P409392	
		MGK-264**	0.20	U	ng/L	P409392	
		Mirex	0.72	U	ng/L	P409392	
		Oxychlordane**	0.31	U	ng/L	P409392	
		Permethrin	1.6	U	ng/L	P409392	
		Phenothrin**	0.92	U	ng/L	P409392	
		Piperonyl Butoxide**	0.15	UJ	ng/L	P409392	LCS
		Prallethrin**	2.0	U	ng/L	P409392	
		Tau-Fluvalinate**	0.26	U	ng/L	P409392	
		Tetramethrin**	0.77	U	ng/L	P409392	
		Trans-Nonachlor**	0.20	U	ng/L	P409392	

Field ID: G2NE1216

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2303430	EPA 8270E	Triclosan Methyl**	0.15	U	ng/L	P409392	
		Trifluralin	0.20	U	ng/L	P409392	
	EPA 8276	Chlordane	2.6	U	ng/L	P409392	
		Toxaphene	15	U	ng/L	P409392	
2303432	EPA 8270E	Acetochlor	0.24	U	ng/L	P409564	
		Alachlor	0.24	U	ng/L	P409564	
		Ametryn	1.4	I	ng/L	P409564	
		Atrazine	35		ng/L	P409564	
		Atrazine Desethyl	4.8	I	ng/L	P409564	
		Azinphos Methyl	1.9	U	ng/L	P409564	
		Azoxystrobin**	3.3		ng/L	P409564	
		Bromacil	0.48	U	ng/L	P409564	
		Butylate	0.38	U	ng/L	P409564	
		Caffeine**	7.3	I	ng/L	P409564	
		Carbophenothion	0.19	U	ng/L	P409564	
		Carfentrazone Ethyl**	0.096	U	ng/L	P409564	
		Chlorfenapyr**	0.17	U	ng/L	P409564	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P409564	
		Chlorpyrifos Methyl	0.048	U	ng/L	P409564	
		Coumaphos**	0.48	U	ng/L	P409564	
		Cyanazine	3.1	U	ng/L	P409564	
		Cyprodinil**	0.096	U	ng/L	P409564	
		Demeton	1.4	U	ng/L	P409564	
		Diazinon	0.12	U	ng/L	P409564	
		Difenoconazole**	0.57	U	ng/L	P409564	
		Dimethenamid**	0.096	U	ng/L	P409564	
		Dimethomorph**	0.17	U	ng/L	P409564	
		Disulfoton	0.48	U	ng/L	P409564	
		Dithiopyr**	0.22	I	ng/L	P409564	
		EPTC	1.2	U	ng/L	P409564	
		Ethion	0.14	U	ng/L	P409564	
		Ethoprop	1.5		ng/L	P409564	
		Etridiazole**	0.14	U	ng/L	P409564	MS
		Fenamiphos	0.48	U	ng/L	P409564	
		Fenbuconazole**	0.12	U	ng/L	P409564	
		Fipronil	0.27	I	ng/L	P409564	
		Fipronil Desulfinyl**	1.3		ng/L	P409564	
		Fipronil Sulfide	1.3		ng/L	P409564	
		Fipronil Sulfone	2.4		ng/L	P409564	
		Fluazifop-P-butyl**	0.096	U	ng/L	P409564	
		Fludioxonil**	0.30	I	ng/L	P409564	
		Flumioxazin**	1.7	U	ng/L	P409564	
		Flutolanil**	0.14	I	ng/L	P409564	
		Fluxapyroxad**	0.096	U	ng/L	P409564	MS
		Fonofos	0.19	U	ng/L	P409564	

Field ID: G2NE1216

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2303432	EPA 8270E	Hexazinone	0.48	U	ng/L	P409564	
		Imazalil**	0.72	U	ng/L	P409564	
		Iprodione**	0.57	U	ng/L	P409564	
		Loratadine**	0.096	U	ng/L	P409564	
		Malathion	0.33	U	ng/L	P409564	
		Metalaxyl	0.98	I	ng/L	P409564	
		Metolachlor	17		ng/L	P409564	
		Metribuzin	2.4	U	ng/L	P409564	
		Mevinphos	1.0	U	ng/L	P409564	
		Molinate	0.29	U	ng/L	P409564	
		Myclobutanil**	1.1		ng/L	P409564	
		Naled**	1.4	UJ	ng/L	P409564	LCS, MS
		Napropamide**	0.38	U	ng/L	P409564	
		Norflurazon	0.48	U	ng/L	P409564	
		Oxadiazon	17		ng/L	P409564	
		Oxyfluorfen**	0.14	U	ng/L	P409564	
		Parathion Ethyl	0.24	U	ng/L	P409564	
		Parathion Methyl	0.53	U	ng/L	P409564	
		Pendimethalin	0.96	U	ng/L	P409564	
		Phenytol**	3.3	U	ng/L	P409564	
		Phorate	0.50	U	ng/L	P409564	
		Prodiamine**	0.17	U	ng/L	P409564	
		Prometon	0.86	U	ng/L	P409564	
		Prometryn	0.19	U	ng/L	P409564	
		Pronamide**	0.14	U	ng/L	P409564	
		Propanil**	0.12	U	ng/L	P409564	
		Propargite**	1.4	U	ng/L	P409564	
		Propiconazole**	2.1		ng/L	P409564	
		Pyraflufen Ethyl**	0.24	U	ng/L	P409564	
		Pyridaben**	0.43	U	ng/L	P409564	
		Pyriproxyfen**	0.12	U	ng/L	P409564	
		Simazine	17		ng/L	P409564	
		Stirophos**	0.12	U	ng/L	P409564	
		Sulfentrazone**	23		ng/L	P409564	
		Tebuconazole**	1.4	I	ng/L	P409564	MS
		Terbufos	0.096	U	ng/L	P409564	
		Terbuthylazine	0.41	U	ng/L	P409564	
		Thiobencarb**	0.57	U	ng/L	P409564	
		Triadimefon**	0.24	U	ng/L	P409564	

Ref. Method and Comment:

EPA 8321B: MS accuracy for oxamyl could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

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

Sample Location: San Sebastian River at Shipyards

Collection Date/Time: 02/02/2022 12:40

Field ID: G5NE0603

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2303396	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P409439	
	SM 2320 B-2011	Total Alkalinity	117		mg CaCO3/L	P409547	
	SM 2540 D-2011	TSS	13		mg/L	P409573	
	SM 4500 F-C-2011	Fluoride	1.2		mg F/L	P409550	
2303399	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P409949	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.28	I	mg N/L	P409506	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P409552	
	EPA 365.1 Rev. 2.0	Total-P	0.036		mg P/L	P409509	
	SM 5310 B-2011	Organic Carbon	2.8		mg C/L	P410236	
2303402	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.014		mg P/L	P409396	
2303434	EPA 200.7 Rev. 4.4	Calcium	408		mg/L	P409606	
		Iron	180	I	ug/L	P409606	
		Magnesium	1.36E+03		mg/L	P409606	
		Strontium	7.47E+03		ug/L	P409606	
		Tin	150	U	ug/L	P409606	
		Vanadium	8.0	U	ug/L	P409606	
		Zinc	20	U	ug/L	P409606	
	EPA 200.8 Rev. 5.4	Aluminum	330		ug/L	P409606	
		Antimony	0.20	U	ug/L	P409606	
		Arsenic	2.14		ug/L	P409606	
		Beryllium	0.040	U	ug/L	P409606	
		Cadmium	0.080	U	ug/L	P409606	
		Chromium	1.6	U	ug/L	P409606	
		Cobalt	0.12	I	ug/L	P409606	
		Copper	1.6	U	ug/L	P409606	
		Lead	2.0	U	ug/L	P409606	
		Manganese	7.5		ug/L	P409606	
		Molybdenum	12.9		ug/L	P409606	
		Nickel	2.0	U	ug/L	P409606	
		Selenium	0.80	U	ug/L	P409606	
		Silver	0.040	U	ug/L	P409606	

Ref. Method and Comment:

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

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium and strontium are unavailable because of high analyte concentration in the QC sample.

Sample Location: San Sebastian at Marina North of SR312

Collection Date/Time: 02/02/2022 12:15

Field ID: G5NE0604

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2303397	EPA 180.1 Rev. 2.0	Turbidity	4.9		NTU	P409439	
	SM 2320 B-2011	Total Alkalinity	123		mg CaCO3/L	P409547	
	SM 2540 D-2011	TSS	10		mg/L	P409573	
	SM 4500 F-C-2011	Fluoride	1.2		mg F/L	P409550	
2303400	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P409474	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.29	I	mg N/L	P409377	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	I	mg N/L	P409552	
	EPA 365.1 Rev. 2.0	Total-P	0.036		mg P/L	P409509	
	SM 5310 B-2011	Organic Carbon	2.6		mg C/L	P410236	
2303403	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P409396	
2303435	EPA 200.7 Rev. 4.4	Calcium	414		mg/L	P409606	
		Iron	160	I	ug/L	P409606	
		Magnesium	1.30E+03		mg/L	P409606	
		Strontium	7.54E+03		ug/L	P409606	
		Tin	150	U	ug/L	P409606	
		Vanadium	8.0	U	ug/L	P409606	
		Zinc	20	U	ug/L	P409606	
	EPA 200.8 Rev. 5.4	Aluminum	289		ug/L	P409606	
		Antimony	0.20	U	ug/L	P409606	
		Arsenic	2.10		ug/L	P409606	
		Beryllium	0.040	U	ug/L	P409606	
		Cadmium	0.080	U	ug/L	P409606	
		Chromium	1.6	U	ug/L	P409606	
		Cobalt	0.088	I	ug/L	P409606	
		Copper	1.6	U	ug/L	P409606	
		Lead	0.80	U	ug/L	P409606	
		Manganese	7.4		ug/L	P409606	
		Molybdenum	12.6		ug/L	P409606	
		Nickel	2.0	U	ug/L	P409606	
		Selenium	0.80	U	ug/L	P409606	
		Silver	0.040	U	ug/L	P409606	

Ref. Method and Comment:

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

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium and strontium are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409439

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409606

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	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: P409606

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Beryllium	0.010	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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409474

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409949

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409377

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409506

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410429

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409552

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409509

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409514

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409396

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

Reference Method: EPA 8270E
Batch ID: P409392

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P409392

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409392

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

Reference Method: EPA 8270E

Batch ID: P409564

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409564

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409564

Component	Result	Code	Units
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
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	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytion	3.5	U	ng/L
Phenytion	3.5	U	ng/L
Phorate	0.52	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409564

Component	Result	Code	Units
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
Stiophos	0.12	U	ng/L
Stiophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276

Batch ID: P409392

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: P409339

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P409339

Component	Result	Code	Units
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: P409457

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: P409461

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	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P409547

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2320 B-2011
Batch ID: P409589

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 D-2011
Batch ID: P409573

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P409550

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P409591

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P410236

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409439

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	107		P	85 - 115
Magnesium	103		P	85 - 115
Strontium	101		P	85 - 115
Tin	105		P	85 - 115
Vanadium	95.7		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	104		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	101		P	85 - 115
Beryllium	95.2		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	103		P	85 - 115
Copper	100		P	85 - 115
Lead	99.8		P	85 - 115
Manganese	103		P	85 - 115
Molybdenum	102		P	85 - 115
Nickel	103		P	85 - 115
Selenium	99.4		P	85 - 115
Silver	102		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409474

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409949

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409377

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409506

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410429

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409552

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409509

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409514

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: P409396

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

Reference Method: EPA 8270E
Batch ID: P409392

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	62.2		P	10 - 93.0
Alpha-BHC	89.1		P	75 - 106
Alpha-Chlordane	78.1		P	50 - 109
Beta-BHC	97.8		P	65 - 135
Beta-Cyfluthrin	107		P	23 - 167
Bifenthrin	63.8		P	11 - 123
Chlorothalonil	134		P	26 - 182
Cis-Nonachlor	70.6		P	40 - 111
Cypermethrin	86.7		P	25 - 155
Dacthal	90.4		P	73 - 112
DDD-p,p'	72.3		P	47 - 108
DDE-p,p'	81.8		P	48 - 107
DDT-p,p'	91.5		P	49 - 111
Delta-BHC	107		P	68 - 143
Deltamethrin	106		P	16 - 176
Dichlobenil	91.3		P	32 - 113

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P409392

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dicofol	74.7		P	50 - 108
Dieldrin	75.4		P	56 - 110
Endosulfan I	84.0		P	60 - 105
Endosulfan II	80.6		P	50 - 120
Endosulfan Sulfate	88.3		P	55 - 121
Endrin	9.30		F	35 - 117
Endrin Aldehyde	57.0		P	36 - 116
Endrin Ketone	148		F	56 - 130
Esfenvalerate	90.6		P	10 - 179
Ethalfuralin	70.1		P	49 - 99.0
Fenpropathrin	69.3		P	35 - 119
Gamma-BHC	89.3		P	72 - 115
Gamma-Chlordane	76.1		P	45 - 107
Heptachlor	73.3		P	41 - 100
Heptachlor Epoxide	78.4		P	58 - 106
Hexachlorobenzene	78.4		P	39 - 100
Kepone	62.9		P	10 - 191
Lambda-Cyhalothrin	96.7		P	10 - 186
Methoprene	25.6		P	10 - 129
Methoxychlor	87.6		P	61 - 111
MGK-264	86.0		P	20 - 123
Mirex	58.1		P	10 - 182
Oxychlordane	76.9		P	39 - 110
Permethrin	83.8		P	26 - 152
Phenothrin	64.9		P	10 - 109
Piperonyl Butoxide	0.166		F	27 - 142
Prallethrin	62.1		P	14 - 109
Tau-Fluvalinate	69.6		P	16 - 134
Tetramethrin	61.6		P	10 - 125
Trans-Nonachlor	76.9		P	45 - 107
Triclosan Methyl	83.8		P	60 - 110
Trifluralin	74.5		P	49 - 98.0

Reference Method: EPA 8270E

Batch ID: P409564

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	106		P	70 - 121
Alachlor	95.5		P	68 - 119
Ametryn	115		P	64 - 139
Atrazine	105		P	76 - 120
Atrazine Desethyl	78.4		P	44 - 126
Azinphos Methyl	75.5		P	43 - 192
Azoxystrobin	96.7		P	36 - 224
Bromacil	96.9		P	52 - 121
Butylate	64.1		P	28 - 91.0
Caffeine	83.7		P	50 - 134
Carbophenothion	107		P	56 - 129
Carfentrazone Ethyl	122		P	60 - 141
Chlorfenapyr	94.3		P	56 - 115
Chlorpyrifos Ethyl	104		P	60 - 118
Chlorpyrifos Methyl	109		P	68 - 119

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P409564

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Coumaphos	164		P	18 - 250
Cyanazine	144		P	61 - 250
Cyprodinil	129		P	55 - 145
Demeton	88.4		P	30 - 159
Diazinon	108		P	70 - 123
Difenoconazole	88.1		P	49 - 204
Dimethenamid	89.5		P	64 - 115
Dimethomorph	102		P	12 - 219
Disulfoton	98.2		P	44 - 125
Dithiopyr	95.9		P	64 - 115
EPTC	60.7		P	28 - 86.0
Ethion	113		P	33 - 125
Ethoprop	101		P	64 - 116
Etridiazole	64.6		P	34 - 91.0
Fenamiphos	108		P	12 - 127
Fenbuconazole	142		P	59 - 151
Fipronil	103		P	67 - 129
Fipronil Desulfinyl	97.0		P	65 - 127
Fipronil Sulfide	93.2		P	61 - 116
Fipronil Sulfone	104		P	55 - 117
Fluazifop-P-butyl	89.7		P	62 - 127
Fludioxonil	101		P	62 - 128
Flumioxazin	179		P	33 - 250
Flutolanil	79.3		P	56 - 127
Fluxapyroxad	93.2		P	45 - 128
Fonofos	99.1		P	62 - 111
Hexazinone	108		P	46 - 139
Imazalil	87.9		P	38 - 142
Iprodione	71.5		P	47 - 135
Loratadine	67.3		P	10 - 244
Malathion	127		P	61 - 139
Metalaxyl	91.5		P	10 - 119
Metolachlor	102		P	65 - 118
Metribuzin	101		P	51 - 250
Mevinphos	102		P	53 - 121
Molinate	77.8		P	42 - 96.0
Myclobutanil	98.5		P	55 - 128
Naled	118		F	10 - 98.0
Napropamide	93.3		P	49 - 121
Norflurazon	114		P	61 - 126
Oxadiazon	83.9		P	59 - 116
Oxyfluorfen	86.5		P	64 - 137
Parathion Ethyl	100		P	70 - 112
Parathion Methyl	120		P	76 - 133
Pendimethalin	66.1		P	52 - 117
Phenytol	130		P	10 - 199
Phorate	89.9		P	48 - 121
Prodiamine	61.2		P	26 - 142
Prometon	95.2		P	43 - 123
Prometryn	120		P	66 - 127
Pronamide	102		P	75 - 121
Propanil	92.3		P	45 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P409564

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propargite	141		P	42 - 208
Propiconazole	113		P	60 - 125
Pyraflufen Ethyl	125		P	70 - 138
Pyridaben	134		P	35 - 245
Pyriproxyfen	59.5		P	30 - 149
Simazine	99.0		P	72 - 125
Stirophos	110		P	29 - 164
Sulfentrazone	130		P	21 - 139
Tebuconazole	67.9		P	10 - 115
Terbufos	117		P	60 - 123
Terbuthylazine	98.8		P	72 - 115
Thiobencarb	94.3		P	31 - 139
Triadimefon	87.7		P	65 - 116

Reference Method: EPA 8276
Batch ID: P409392

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	88.1		P	61 - 118
Toxaphene	91.3		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P409339

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	65.1		P	40 - 150
Aldicarb	53.2		P	30 - 150
Aldicarb Sulfone	111		P	40 - 150
Aldicarb Sulfoxide	82.4		P	40 - 150
Carbaryl	73.5		P	40 - 150
Carbofuran	85.9		P	40 - 150
Methiocarb	78.5		P	40 - 150
Methomyl	82.9		P	40 - 150
Oxamyl	112		P	40 - 150
Propoxur	88.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P409457

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	76.7		P	40 - 150
AMPA	109		P	40 - 150
Endothall	68.2		P	40 - 150
Glufosinate	103		P	40 - 150
Glyphosate	96.0		P	40 - 150
Sucralose	81.7		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P409461

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	85.5		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P409461

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	66.3		P	40 - 150
Acetaminophen	57.1		P	30 - 150
Acetamiprid	84.4		P	40 - 150
Afidopyropen	64.1		P	40 - 150
Bentazon	80.8		P	30 - 150
Benzovindiflupyr	78.0		P	40 - 150
Carbamazepine	94.0		P	40 - 150
Clothianidin	107		P	40 - 150
Dinotefuran	104		P	40 - 150
Diuron	119		P	40 - 150
Fenuron	94.8		P	40 - 150
Fluridone	81.2		P	40 - 150
Hydrocodone	91.2		P	40 - 150
Ibuprofen	81.3		P	40 - 150
Imazapyr	109		P	40 - 150
Imidacloprid	89.4		P	40 - 150
Linuron	78.0		P	40 - 150
Mandestrobin	88.9		P	40 - 150
MCPP	86.1		P	40 - 150
Naproxen	74.3		P	40 - 150
Primidone	117		P	40 - 150
Pyraclostrobin	73.4		P	40 - 150
Silvex	68.2		P	40 - 150
Thiamethoxam	97.3		P	40 - 150
Tolfenpyrad	44.6		P	30 - 150
Triclopyr	69.2		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P409547

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.9		P	94 - 106

Reference Method: SM 2320 B-2011

Batch ID: P409589

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.1		P	94 - 106

Reference Method: SM 4500 F-C-2011

Batch ID: P409550

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.3		P	93 - 104

Reference Method: SM 4500 F-C-2011

Batch ID: P409591

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.8		P	93 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P410236

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P409606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303721	Iron	108	106	P/P	80 - 120
2303721	Tin	99.4	101	P/P	80 - 120
2303721	Vanadium	101	100	P/P	80 - 120
2303721	Zinc	104	103	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303721	Aluminum	97.6	106	P/P	70 - 130
2303721	Antimony	105	106	P/P	70 - 130
2303721	Arsenic	117	116	P/P	70 - 130
2303721	Beryllium	117	117	P/P	70 - 130
2303721	Cadmium	101	99.7	P/P	70 - 130
2303721	Chromium	101	101	P/P	70 - 130
2303721	Cobalt	119	117	P/P	70 - 130
2303721	Copper	110	110	P/P	70 - 130
2303721	Lead	107	107	P/P	70 - 130
2303721	Manganese	102	101	P/P	70 - 130
2303721	Molybdenum	115	116	P/P	70 - 130
2303721	Nickel	121	119	P/P	70 - 130
2303721	Selenium	106	108	P/P	70 - 130
2303721	Silver	93.7	93.8	P/P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P409474

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301487	Ammonia-N	97.4	97.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P409949

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303398	Ammonia-N	103	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P409377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303099	Kjeldahl Nitrogen	91.7	95.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P409506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303399	Kjeldahl Nitrogen	100	96.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P410429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307907	Kjeldahl Nitrogen	97.2	95.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409552

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302943	NO2NO3-N	98.8	98.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409509

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303219	Total-P	98.0	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409514

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303408	Total-P	98.0	96.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409396

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303225	O-Phosphate-P	97.6	99.9	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P409392

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303520	Aldrin	64.5	61.6	P/P	10 - 89.0
2303520	Alpha-BHC	89.8	85.6	P/P	71 - 105
2303520	Alpha-Chlordane	75.3	80.8	P/P	43 - 107
2303520	Beta-BHC	91.6	100	P/P	57 - 152
2303520	Beta-Cyfluthrin	115	109	P/P	29 - 186
2303520	Bifenthrin	74.9	69.7	P/P	19 - 119
2303520	Chlorothalonil	138	124	P/P	10 - 245
2303520	Cis-Nonachlor	79.0	73.9	P/P	36 - 110
2303520	Cypermethrin	95.8	87.9	P/P	24 - 169
2303520	Dacthal	90.3	90.3	P/P	62 - 115
2303520	DDD-p,p'	74.5	72.5	P/P	36 - 109
2303520	DDE-p,p'	80.9	80.2	P/P	30 - 114
2303520	DDT-p,p'	95.7	94.7	P/P	42 - 108
2303520	Delta-BHC	102	105	P/P	60 - 164
2303520	Deltamethrin	113	106	P/P	10 - 210
2303520	Dichlobenil	88.5	86.4	P/P	23 - 108
2303520	Dicofol	77.6	76.1	P/P	44 - 109
2303520	Dieldrin	84.4	83.8	P/P	37 - 119
2303520	Endosulfan I	85.4	83.4	P/P	52 - 105
2303520	Endosulfan II	78.8	77.3	P/P	35 - 127
2303520	Endosulfan Sulfate	86.2	83.3	P/P	39 - 130
2303520	Endrin	54.4	65.9	P/P	30 - 116

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P409392

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303520	Endrin Aldehyde	55.0	55.7	P/P	20 - 110
2303520	Endrin Ketone	101	89.3	P/P	48 - 134
2303520	Esfenvalerate	95.7	87.1	P/P	10 - 199
2303520	Ethalfuralin	74.5	73.1	P/P	48 - 95.0
2303520	Fenpropathrin	85.8	80.6	P/P	37 - 121
2303520	Gamma-BHC	89.3	87.6	P/P	61 - 126
2303520	Gamma-Chlordane	77.8	76.7	P/P	39 - 105
2303520	Heptachlor	74.7	68.1	P/P	38 - 96.0
2303520	Heptachlor Epoxide	81.9	76.5	P/P	42 - 114
2303520	Hexachlorobenzene	77.8	73.8	P/P	39 - 93.0
2303520	Kepone	63.8	67.4	P/P	10 - 215
2303520	Lambda-Cyhalothrin	107	94.7	P/P	10 - 204
2303520	Methoprene	49.7	64.7	P/P	17 - 108
2303520	Methoxychlor	86.6	86.8	P/P	56 - 115
2303520	MGK-264	81.8	82.3	P/P	35 - 120
2303520	Mirex	63.1	61.5	P/P	10 - 178
2303520	Oxychlordane	80.6	77.0	P/P	47 - 91.0
2303520	Permethrin	90.0	87.7	P/P	27 - 170
2303520	Phenothrin	77.3	82.5	P/P	10 - 133
2303520	Piperonyl Butoxide	48.0	100	P/P	23 - 150
2303520	Prallethrin	66.9	74.6	P/P	21 - 113
2303520	Tau-Fluvalinate	82.6	80.6	P/P	16 - 158
2303520	Tetramethrin	86.2	89.0	P/P	22 - 132
2303520	Trans-Nonachlor	79.2	78.0	P/P	43 - 102
2303520	Triclosan Methyl	81.5	84.3	P/P	49 - 109
2303520	Trifluralin	72.7	71.2	P/P	48 - 93.0

Reference Method: EPA 8270E

Batch ID: P409564

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303759	Acetochlor	103	113	P/P	65 - 124
2303759	Alachlor	93.5	98.8	P/P	61 - 121
2303759	Ametryn	116	114	P/P	52 - 216
2303759	Atrazine Desethyl	74.9	74.2	P/P	15 - 160
2303759	Azinphos Methyl	73.1	80.2	P/P	40 - 292
2303759	Azoxystrobin	99.5	103	P/P	12 - 242
2303759	Bromacil	90.0	104	P/P	54 - 167
2303759	Butylate	41.3	50.5	P/P	14 - 94.0
2303759	Caffeine	86.6	109	P/P	10 - 226
2303759	Carbophenothion	114	114	P/P	49 - 122
2303759	Carfentrazone Ethyl	131	135	P/P	53 - 138
2303759	Chlorfenapyr	86.1	88.8	P/P	50 - 150
2303759	Chlorpyrifos Ethyl	99.2	113	P/P	52 - 122
2303759	Chlorpyrifos Methyl	102	108	P/P	66 - 117
2303759	Coumaphos	171	178	P/P	50 - 220
2303759	Cyanazine	134	133	P/P	43 - 245
2303759	Cyprodinil	116	123	P/P	50 - 150
2303759	Demeton	107	114	P/P	43 - 188
2303759	Diazinon	107	115	P/P	69 - 131
2303759	Difenoconazole	91.1	88.5	P/P	34 - 231
2303759	Dimethenamid	89.0	94.1	P/P	55 - 118

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P409564

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303759	Dimethomorph	97.7	103	P/P	50 - 150
2303759	Disulfoton	93.4	109	P/P	38 - 141
2303759	Dithiopyr	92.1	99.1	P/P	42 - 116
2303759	EPTC	37.0	47.5	P/P	18 - 85.0
2303759	Ethion	112	115	P/P	10 - 131
2303759	Ethoprop	101	107	P/P	65 - 129
2303759	Etridiazole	47.7	60.0	F/P	50 - 150
2303759	Fenamiphos	101	104	P/P	31 - 137
2303759	Fenbuconazole	138	142	P/P	57 - 160
2303759	Fipronil	104	109	P/P	62 - 132
2303759	Fipronil Desulfinyl	101	104	P/P	57 - 131
2303759	Fipronil Sulfide	90.3	93.1	P/P	15 - 138
2303759	Fipronil Sulfone	89.5	99.2	P/P	21 - 134
2303759	Fluazifop-P-butyl	82.5	85.6	P/P	54 - 133
2303759	Fludioxonil	96.2	102	P/P	58 - 127
2303759	Flumioxazin	202	214	P/P	33 - 300
2303759	Flutolanil	73.4	74.8	P/P	42 - 130
2303759	Fluxapyroxad	153	158	F/F	23 - 141
2303759	Fonofos	100	109	P/P	58 - 119
2303759	Hexazinone	107	111	P/P	68 - 172
2303759	Imazalil	64.9	71.7	P/P	48 - 283
2303759	Iprodione	77.0	79.2	P/P	38 - 140
2303759	Loratadine	81.0	77.1	P/P	50 - 150
2303759	Malathion	122	129	P/P	40 - 137
2303759	Metalaxyl	92.1	96.9	P/P	21 - 129
2303759	Metolachlor	94.3	103	P/P	55 - 122
2303759	Metribuzin	94.5	101	P/P	38 - 187
2303759	Mevinphos	98.3	107	P/P	54 - 134
2303759	Molinate	62.4	76.1	P/P	41 - 97.0
2303759	Myclobutanil	93.7	99.1	P/P	56 - 125
2303759	Naled	102	115	P/F	10 - 108
2303759	Napropamide	85.3	89.8	P/P	50 - 150
2303759	Norflurazon	112	118	P/P	32 - 122
2303759	Oxadiazon	72.3	77.0	P/P	40 - 119
2303759	Oxyfluorfen	105	116	P/P	61 - 153
2303759	Parathion Ethyl	92.8	101	P/P	59 - 130
2303759	Parathion Methyl	121	123	P/P	65 - 155
2303759	Pendimethalin	80.4	86.2	P/P	49 - 138
2303759	Phenytoin	137	141	P/P	50 - 200
2303759	Phorate	106	116	P/P	54 - 161
2303759	Prodiamine	125	137	P/P	33 - 161
2303759	Prometon	124	135	P/P	48 - 140
2303759	Prometryn	117	122	P/P	55 - 134
2303759	Pronamide	99.3	112	P/P	66 - 137
2303759	Propanil	90.2	96.0	P/P	50 - 150
2303759	Propargite	138	147	P/P	50 - 200
2303759	Pyraflufen Ethyl	129	126	P/P	50 - 150
2303759	Pyridaben	140	151	P/P	50 - 200
2303759	Pyriproxyfen	58.9	56.9	P/P	10 - 165
2303759	Stirophos	98.6	105	P/P	50 - 150
2303759	Tebuconazole	133	143	F/F	10 - 127
2303759	Terbufos	123	130	P/P	59 - 138

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P409564

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303759	Terbutylazine	102	106	P/P	68 - 119
2303759	Thiobencarb	89.7	96.6	P/P	50 - 150
2303759	Triadimefon	83.2	103	P/P	50 - 150

Reference Method: EPA 8276
Batch ID: P409392

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303522	Chlordane	94.4	79.4	P/P	55 - 128
2303522	Toxaphene	95.2	82.5	P/P	57 - 211

Reference Method: EPA 8321B
Batch ID: P409339

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302736	3-Hydroxycarbofuran	114	87.9	P/P	40 - 150
2302736	Aldicarb	76.7	55.4	P/P	30 - 150
2302736	Aldicarb Sulfone	104	123	P/P	40 - 150
2302736	Aldicarb Sulfoxide	54.3	40.6	P/P	40 - 150
2302736	Carbaryl	79.9	69.3	P/P	40 - 150
2302736	Carbofuran	95.4	98.0	P/P	40 - 150
2302736	Methiocarb	80.3	76.3	P/P	40 - 150
2302736	Methomyl	91.8	98.1	P/P	40 - 150
2302736	Propoxur	85.3	85.4	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P409457

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303298	Acesulfame K	90.8	101	P/P	40 - 150
2303298	AMPA	93.5	87.5	P/P	40 - 150
2303298	Endothall	92.3	86.3	P/P	40 - 150
2303298	Glufosinate	100	99.3	P/P	40 - 150
2303298	Glyphosate	89.1	90.5	P/P	40 - 150
2303298	Sucralose	82.1	92.1	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P409461

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303298	2,4-D	121	94.6	P/P	40 - 150
2303298	2,4,5-T	85.3	76.6	P/P	40 - 150
2303298	Acetaminophen	101	83.7	P/P	30 - 150
2303298	Acetamiprid	112	108	P/P	40 - 150
2303298	Afidopyropen	79.7	74.0	P/P	40 - 150
2303298	Benzovindiflupyr	74.7	90.0	P/P	40 - 150
2303298	Carbamazepine	149	121	P/P	40 - 150
2303298	Clothianidin	137	145	P/P	40 - 150
2303298	Dinotefuran	153	142	F/P	40 - 150
2303298	Diuron	106	99.7	P/P	40 - 150
2303298	Fenuron	97.4	95.5	P/P	40 - 150
2303298	Fluridone	78.3	84.2	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P409461

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303298	Hydrocodone	127	116	P/P	40 - 150
2303298	Ibuprofen	82.2	102	P/P	40 - 150
2303298	Imidacloprid	182	189	F/F	40 - 150
2303298	Linuron	84.0	79.8	P/P	40 - 150
2303298	Mandestrobin	94.6	107	P/P	40 - 150
2303298	MCCP	111	126	P/P	40 - 150
2303298	Naproxen	124	98.1	P/P	40 - 150
2303298	Primidone	167	110	F/P	40 - 150
2303298	Pyraclostrobin	91.5	85.7	P/P	40 - 150
2303298	Silvex	97.6	61.7	P/P	40 - 150
2303298	Thiamethoxam	177	170	F/F	40 - 150
2303298	Tolfenpyrad	51.3	49.2	P/P	30 - 150
2303298	Triclopyr	99.6	86.5	P/P	40 - 150

Reference Method: SM 4500 F-C-2011
Batch ID: P409550

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303217	Fluoride	94.5	96.0	P/P	92 - 107

Reference Method: SM 4500 F-C-2011
Batch ID: P409591

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303797	Fluoride	98.7	98.1	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P410236

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303220	Organic Carbon	93.1	93.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P409439

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303492	Turbidity	0.639	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P409606

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303721	Calcium	0.136	Spike	P	0 - 20
2303721	Iron	2.03	Spike	P	0 - 20
2303721	Magnesium	1.63	Spike	P	0 - 20
2303721	Strontium	0.470	Spike	P	0 - 20
2303721	Tin	2.03	Spike	P	0 - 20
2303721	Vanadium	0.812	Spike	P	0 - 20
2303721	Zinc	1.20	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409606

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303721	Aluminum	8.68	Spike	P	0 - 20
2303721	Antimony	0.957	Spike	P	0 - 20
2303721	Arsenic	0.947	Spike	P	0 - 20
2303721	Beryllium	0.449	Spike	P	0 - 20
2303721	Cadmium	1.04	Spike	P	0 - 20
2303721	Chromium	0.616	Spike	P	0 - 20
2303721	Cobalt	1.55	Spike	P	0 - 20
2303721	Copper	0.355	Spike	P	0 - 20
2303721	Lead	0.163	Spike	P	0 - 20
2303721	Manganese	0.892	Spike	P	0 - 20
2303721	Molybdenum	0.165	Spike	P	0 - 20
2303721	Nickel	1.74	Spike	P	0 - 20
2303721	Selenium	1.47	Spike	P	0 - 20
2303721	Silver	0.0637	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P409474

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301487	Ammonia-N	0.321	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P409949

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303398	Ammonia-N	0.624	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303099	Kjeldahl Nitrogen	3.62	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303399	Kjeldahl Nitrogen	4.05	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P410429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307907	Kjeldahl Nitrogen	1.50	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409552

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302943	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409509

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303219	Total-P	2.05	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409514

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303408	Total-P	1.45	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409396

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303225	O-Phosphate-P	2.33	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P409392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303520	Aldrin	4.62	Spike	P	0 - 37
2303520	Alpha-BHC	4.79	Spike	P	0 - 16

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P409392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303520	Alpha-Chlordane	7.04	Spike	P	0 - 28
2303520	Beta-BHC	8.82	Spike	P	0 - 32
2303520	Beta-Cyfluthrin	5.72	Spike	P	0 - 41
2303520	Bifenthrin	7.28	Spike	P	0 - 36
2303520	Chlorothalonil	11.3	Spike	P	0 - 54
2303520	Cis-Nonachlor	6.71	Spike	P	0 - 33
2303520	Cypermethrin	8.60	Spike	P	0 - 38
2303520	Dacthal	0.0623	Spike	P	0 - 23
2303520	DDD-p,p'	2.70	Spike	P	0 - 35
2303520	DDE-p,p'	0.858	Spike	P	0 - 27
2303520	DDT-p,p'	1.05	Spike	P	0 - 31
2303520	Delta-BHC	3.59	Spike	P	0 - 30
2303520	Deltamethrin	6.26	Spike	P	0 - 76
2303520	Dichlobenil	2.37	Spike	P	0 - 33
2303520	Dicofol	1.95	Spike	P	0 - 24
2303520	Dieldrin	0.692	Spike	P	0 - 35
2303520	Endosulfan I	2.42	Spike	P	0 - 25
2303520	Endosulfan II	1.92	Spike	P	0 - 31
2303520	Endosulfan Sulfate	3.47	Spike	P	0 - 38
2303520	Endrin	19.1	Spike	P	0 - 53
2303520	Endrin Aldehyde	1.19	Spike	P	0 - 81
2303520	Endrin Ketone	12.1	Spike	P	0 - 33
2303520	Esfenvalerate	9.44	Spike	P	0 - 46
2303520	Ethalfuralin	1.93	Spike	P	0 - 22
2303520	Fenpropathrin	6.15	Spike	P	0 - 29
2303520	Gamma-BHC	1.94	Spike	P	0 - 17
2303520	Gamma-Chlordane	1.41	Spike	P	0 - 28
2303520	Heptachlor	9.26	Spike	P	0 - 28
2303520	Heptachlor Epoxide	6.02	Spike	P	0 - 23
2303520	Hexachlorobenzene	5.26	Spike	P	0 - 22
2303520	Kepone	5.61	Spike	P	0 - 61
2303520	Lambda-Cyhalothrin	11.8	Spike	P	0 - 52
2303520	Methoprene	26.3	Spike	P	0 - 38
2303520	Methoxychlor	0.222	Spike	P	0 - 29
2303520	MGK-264	0.586	Spike	P	0 - 41
2303520	Mirex	2.49	Spike	P	0 - 39
2303520	Oxychlordane	4.57	Spike	P	0 - 33
2303520	Permethrin	2.64	Spike	P	0 - 39
2303520	Phenothrin	6.57	Spike	P	0 - 52
2303520	Piperonyl Butoxide	70.5	Spike	P	0 - 91
2303520	Prallethrin	11.0	Spike	P	0 - 34
2303520	Tau-Fluvalinate	2.44	Spike	P	0 - 41
2303520	Tetramethrin	3.19	Spike	P	0 - 43
2303520	Trans-Nonachlor	1.50	Spike	P	0 - 31
2303520	Triclosan Methyl	3.33	Spike	P	0 - 24
2303520	Trifluralin	2.09	Spike	P	0 - 23

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P409564

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303759	Acetochlor	9.10	Spike	P	0 - 27
2303759	Alachlor	5.53	Spike	P	0 - 27
2303759	Ametryn	0.547	Spike	P	0 - 34
2303759	Atrazine	15.8	Spike	P	0 - 41
2303759	Atrazine Desethyl	0.428	Spike	P	0 - 38
2303759	Azinphos Methyl	9.24	Spike	P	0 - 62
2303759	Azoxystrobin	2.65	Spike	P	0 - 32
2303759	Bromacil	11.7	Spike	P	0 - 30
2303759	Butylate	20.0	Spike	P	0 - 59
2303759	Caffeine	17.0	Spike	P	0 - 60
2303759	Carbophenothion	0.423	Spike	P	0 - 25
2303759	Carfentrazone Ethyl	3.06	Spike	P	0 - 26
2303759	Chlorfenapyr	3.11	Spike	P	0 - 30
2303759	Chlorpyrifos Ethyl	13.2	Spike	P	0 - 27
2303759	Chlorpyrifos Methyl	5.52	Spike	P	0 - 26
2303759	Coumaphos	4.18	Spike	P	0 - 30
2303759	Cyanazine	0.963	Spike	P	0 - 58
2303759	Cyprodinil	5.34	Spike	P	0 - 30
2303759	Demeton	6.18	Spike	P	0 - 25
2303759	Diazinon	6.88	Spike	P	0 - 29
2303759	Difenoconazole	2.79	Spike	P	0 - 25
2303759	Dimethenamid	5.63	Spike	P	0 - 30
2303759	Dimethomorph	5.30	Spike	P	0 - 30
2303759	Disulfoton	15.3	Spike	P	0 - 33
2303759	Dithiopyr	6.81	Spike	P	0 - 22
2303759	EPTC	25.0	Spike	P	0 - 38
2303759	Ethion	2.91	Spike	P	0 - 79
2303759	Ethoprop	5.90	Spike	P	0 - 23
2303759	Etridiazole	22.8	Spike	P	0 - 30
2303759	Fenamiphos	3.43	Spike	P	0 - 58
2303759	Fenbuconazole	3.36	Spike	P	0 - 37
2303759	Fipronil	4.32	Spike	P	0 - 33
2303759	Fipronil Desulfinyl	2.41	Spike	P	0 - 26
2303759	Fipronil Sulfide	2.02	Spike	P	0 - 37
2303759	Fipronil Sulfone	5.23	Spike	P	0 - 50
2303759	Fluazifop-P-butyl	3.74	Spike	P	0 - 24
2303759	Fludioxonil	5.56	Spike	P	0 - 26
2303759	Flumioxazin	5.37	Spike	P	0 - 37
2303759	Flutolanil	1.82	Spike	P	0 - 26
2303759	Fluxapyroxad	3.23	Spike	P	0 - 34
2303759	Fonofos	8.45	Spike	P	0 - 27
2303759	Hexazinone	3.77	Spike	P	0 - 36
2303759	Imazalil	10.0	Spike	P	0 - 65
2303759	Iprodione	2.81	Spike	P	0 - 33
2303759	Loratadine	4.93	Spike	P	0 - 30
2303759	Malathion	4.98	Spike	P	0 - 44
2303759	Metalaxyl	5.11	Spike	P	0 - 38
2303759	Metolachlor	8.15	Spike	P	0 - 36
2303759	Metribuzin	6.31	Spike	P	0 - 63
2303759	Mevinphos	8.36	Spike	P	0 - 26
2303759	Molinate	19.8	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P409564

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303759	Myclobutanil	4.12	Spike	P	0 - 21
2303759	Naled	12.2	Spike	P	0 - 26
2303759	Napropamide	5.13	Spike	P	0 - 30
2303759	Norflurazon	5.09	Spike	P	0 - 24
2303759	Oxadiazon	5.54	Spike	P	0 - 27
2303759	Oxyfluorfen	10.2	Spike	P	0 - 24
2303759	Parathion Ethyl	8.47	Spike	P	0 - 28
2303759	Parathion Methyl	1.54	Spike	P	0 - 27
2303759	Pendimethalin	6.91	Spike	P	0 - 31
2303759	Phenytoin	3.10	Spike	P	0 - 30
2303759	Phorate	8.94	Spike	P	0 - 27
2303759	Prodiamine	8.70	Spike	P	0 - 52
2303759	Prometon	8.83	Spike	P	0 - 31
2303759	Prometryn	4.73	Spike	P	0 - 28
2303759	Pronamide	11.7	Spike	P	0 - 26
2303759	Propanil	6.23	Spike	P	0 - 30
2303759	Propargite	6.86	Spike	P	0 - 30
2303759	Propiconazole	0.618	Spike	P	0 - 31
2303759	Pyraflufen Ethyl	1.68	Spike	P	0 - 30
2303759	Pyridaben	7.55	Spike	P	0 - 30
2303759	Pyriproxyfen	3.44	Spike	P	0 - 50
2303759	Simazine	3.55	Spike	P	0 - 29
2303759	Stirophos	6.22	Spike	P	0 - 30
2303759	Sulfentrazone	2.43	Spike	P	0 - 33
2303759	Tebuconazole	6.63	Spike	P	0 - 44
2303759	Terbufos	6.00	Spike	P	0 - 29
2303759	Terbuthylazine	3.40	Spike	P	0 - 27
2303759	Thiobencarb	7.48	Spike	P	0 - 30
2303759	Triadimefon	16.6	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P409392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303522	Chlordane	17.2	Spike	P	0 - 25
2303522	Toxaphene	14.3	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P409339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302736	3-Hydroxycarbofuran	25.5	Spike	P	0 - 30
2302736	Aldicarb	32.4	Spike	F	0 - 30
2302736	Aldicarb Sulfone	16.2	Spike	P	0 - 30
2302736	Aldicarb Sulfoxide	28.8	Spike	P	0 - 30
2302736	Carbaryl	14.2	Spike	P	0 - 30
2302736	Carbofuran	2.73	Spike	P	0 - 30
2302736	Methiocarb	5.11	Spike	P	0 - 30
2302736	Methomyl	6.68	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P409339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302736	Oxamyl	4.41	Spike	P	0 - 30
2302736	Propoxur	0.146	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P409457

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303298	Acesulfame K	10.5	Spike	P	0 - 30
2303298	AMPA	6.65	Spike	P	0 - 30
2303298	Endothall	6.68	Spike	P	0 - 30
2303298	Glufosinate	0.830	Spike	P	0 - 30
2303298	Glyphosate	1.42	Spike	P	0 - 30
2303298	Sucralose	9.21	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P409461

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303298	2,4-D	24.3	Spike	P	0 - 30
2303298	2,4,5-T	10.8	Spike	P	0 - 30
2303298	Acetaminophen	18.9	Spike	P	0 - 30
2303298	Acetamiprid	4.32	Spike	P	0 - 30
2303298	Afidopyropen	7.39	Spike	P	0 - 30
2303298	Bentazon	9.76	Spike	P	0 - 30
2303298	Benzovindiflupyr	18.6	Spike	P	0 - 30
2303298	Carbamazepine	21.2	Spike	P	0 - 30
2303298	Clothianidin	5.60	Spike	P	0 - 30
2303298	Dinotefuran	7.56	Spike	P	0 - 30
2303298	Diuron	5.85	Spike	P	0 - 30
2303298	Fenuron	1.93	Spike	P	0 - 30
2303298	Fluridone	5.83	Spike	P	0 - 30
2303298	Hydrocodone	9.10	Spike	P	0 - 30
2303298	Ibuprofen	21.8	Spike	P	0 - 30
2303298	Imazapyr	8.24	Spike	P	0 - 30
2303298	Imidacloprid	4.15	Spike	P	0 - 30
2303298	Linuron	5.22	Spike	P	0 - 30
2303298	Mandestrobin	11.9	Spike	P	0 - 30
2303298	MCPP	13.2	Spike	P	0 - 30
2303298	Naproxen	23.7	Spike	P	0 - 30
2303298	Primidone	41.3	Spike	F	0 - 30
2303298	Pyraclostrobin	6.54	Spike	P	0 - 30
2303298	Silvex	45.1	Spike	F	0 - 30
2303298	Thiamethoxam	3.98	Spike	P	0 - 30
2303298	Tolfenpyrad	4.30	Spike	P	0 - 30
2303298	Triclopyr	14.1	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P409547

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303217	Total Alkalinity	0.125	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P409589

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303797	Total Alkalinity	1.23	Sample	P	0 - 5.2

Reference Method: SM 4500 F-C-2011
Batch ID: P409550

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303217	Fluoride	0.993	Spike	P	0 - 2.1

Reference Method: SM 4500 F-C-2011
Batch ID: P409591

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303797	Fluoride	0.483	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410236

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303220	Organic Carbon	0.146	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2303425
Field Sample ID: 27010059

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	69.7	P	30 - 160

Lab Sample ID: 2303426
Field Sample ID: G2NE1216

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	64.4	P	30 - 160

Lab Sample ID: 2303427
Field Sample ID: 27010059

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	128	P	30 - 160
EPA 8321B	Acetaminophen-d4	81.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	120	P	30 - 160
EPA 8321B	Diuron-d6	105	P	30 - 160
EPA 8321B	Endothall-d6	70.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	108	P	30 - 160
EPA 8321B	Ibuprofen-d3	91.5	P	30 - 160
EPA 8321B	Primidone-d5	128	P	30 - 160
EPA 8321B	Sucralose-d6	75.9	P	30 - 160

Lab Sample ID: 2303428
Field Sample ID: G2NE1216

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	124	P	30 - 160
EPA 8321B	Acetaminophen-d4	97.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	127	P	30 - 160
EPA 8321B	Diuron-d6	93.8	P	30 - 160
EPA 8321B	Endothall-d6	72.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	90.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.8	P	30 - 160
EPA 8321B	Primidone-d5	139	P	30 - 160
EPA 8321B	Sucralose-d6	81.3	P	30 - 160

Lab Sample ID: 2303429
Field Sample ID: 27010059

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	85.2	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	70.2	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	66.8	P	30 - 97.0
EPA 8276	PCNB	86.2	P	45 - 119

Lab Sample ID: 2303430
Field Sample ID: G2NE1216

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	83.1	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	71.1	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	71.8	P	30 - 97.0

Quality Assurance Report Surrogates

Lab Sample ID: 2303430
Field Sample ID: G2NE1216

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8276	PCNB	84.3	P	45 - 119

Lab Sample ID: 2303431
Field Sample ID: 27010059

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	69.7	P	20 - 200
EPA 8270E	Simazine-d10	116	P	71 - 140
EPA 8270E	Terbufos-d10	110	P	62 - 131

Lab Sample ID: 2303432
Field Sample ID: G2NE1216

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	76.8	P	20 - 200
EPA 8270E	Simazine-d10	131	P	71 - 140
EPA 8270E	Terbufos-d10	116	P	62 - 131

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110206

Included Lab Sample IDs: 2303401, 2303402, 2303403, 2303406

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	98.6	P/P	90 - 110
O-Phosphate-P	98.5	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110226

Included Lab Sample IDs: 2303395, 2303396, 2303397, 2303404

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.0	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110252

Included Lab Sample IDs: 2303400

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	95.4	96.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A110271

Included Lab Sample IDs: 2303425, 2303426

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	103	112	P/P	60 - 150
Aldicarb	122	128	P/P	60 - 150
Aldicarb Sulfone	110	108	P/P	50 - 150
Aldicarb Sulfoxide	89.1	95.8	P/P	50 - 150
Carbaryl	108	92.9	P/P	60 - 150
Carbofuran	106	101	P/P	50 - 150
Methiocarb	107	85.2	P/P	50 - 150
Methomyl	95.9	107	P/P	50 - 150
Oxamyl	94.8	100	P/P	50 - 150
Propoxur	115	102	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110275

Included Lab Sample IDs: 2303400

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.1	92.0	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A110279

Included Lab Sample IDs: 2303395, 2303396, 2303397

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	97.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-2011

Run ID: A110279

Included Lab Sample IDs: 2303395, 2303396, 2303397

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110281

Included Lab Sample IDs: 2303398, 2303399, 2303400, 2303405

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.0	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A110292

Included Lab Sample IDs: 2303404

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.5	98.7	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110292

Included Lab Sample IDs: 2303404

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

Reference Method: EPA 8321B

Run ID: A110307

Included Lab Sample IDs: 2303427, 2303428

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	92.6	90.2	P/P	60 - 160
Endothall	86.7	75.5	P/P	60 - 160
Sucralose	93.6	75.6	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A110310

Included Lab Sample IDs: 2303427, 2303428

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	124	127	P/P	60 - 160
AMPA	127	128	P/P	60 - 160
Glufosinate	102	107	P/P	60 - 160
Glufosinate	103	102	P/P	60 - 160
Glyphosate	102	97.1	P/P	60 - 160
Glyphosate	98.7	102	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A110320

Included Lab Sample IDs: 2303427, 2303428

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	108	80.2	P/P	50 - 150
2,4,5-T	84.1	96.3	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A110320

Included Lab Sample IDs: 2303427, 2303428

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	94.4	100	P/P	60 - 160
Acetamiprid	112	102	P/P	50 - 150
Afidopyropen	86.2	114	P/P	50 - 150
Bentazon	106	103	P/P	50 - 160
Benzovindiflupyr	108	106	P/P	50 - 150
Carbamazepine	105	124	P/P	60 - 150
Clothianidin	129	135	P/P	60 - 150
Dinotefuran	102	112	P/P	50 - 150
Diuron	132	115	P/P	60 - 160
Fenuron	107	111	P/P	60 - 150
Fluridone	107	100	P/P	60 - 160
Hydrocodone	110	107	P/P	60 - 150
Ibuprofen	164*	122	F/P	50 - 160
Imazapyr	136	146	P/P	50 - 150
Imidacloprid	110	90.4	P/P	60 - 150
Linuron	108	130	P/P	60 - 150
Mandestrobin	114	107	P/P	50 - 150
MCPP	83.4	91.1	P/P	50 - 150
Naproxen	206*	133	F/P	50 - 160
Primidone	114	82.2	P/P	60 - 150
Pyraclostrobin	106	110	P/P	60 - 150
Silvex	95.1	91.7	P/P	50 - 150
Thiamethoxam	102	114	P/P	50 - 150
Tolfenpyrad	92.3	86.3	P/P	60 - 150
Triclopyr	98.5	86.3	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110324

Included Lab Sample IDs: 2303398, 2303399, 2303400, 2303405

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	100	P/P	90 - 110
Total-P	100	101	P/P	90 - 110
Total-P	102	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110329

Included Lab Sample IDs: 2303429, 2303430

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	100		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	102		P	80 - 120
Beta-BHC	106		P	80 - 120
Beta-Cyfluthrin	104		P	80 - 120
Bifenthrin	102		P	80 - 120
Chlorothalonil	102		P	80 - 120
Cis-Nonachlor	105		P	80 - 120
Cypermethrin	93.7		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110329

Included Lab Sample IDs: 2303429, 2303430

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDE-p,p'	102		P	80 - 120
DDT-p,p'	102		P	80 - 120
Delta-BHC	104		P	80 - 120
Deltamethrin	101		P	80 - 120
Dichlobenil	88.4		P	80 - 120
Dicofol	104		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	99.9		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	105		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	110		P	80 - 120
Endrin Ketone	103		P	80 - 120
Esfenvalerate	98.9		P	80 - 120
Ethalfuralin	96.4		P	80 - 120
Fenpropathrin	101		P	80 - 120
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	100		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	103		P	80 - 120
Hexachlorobenzene	99.6		P	80 - 120
Kepone	62.6*		F	80 - 120
Lambda-Cyhalothrin	102		P	80 - 120
Methoprene	96.9		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	100		P	80 - 120
Mirex	101		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	99.6		P	80 - 120
Phenothrin	99.6		P	80 - 120
Piperonyl Butoxide	92.5		P	80 - 120
Prallethrin	94.8		P	80 - 120
Tau-Fluvalinate	98.4		P	80 - 120
Tetramethrin	101		P	80 - 120
Trans-Nonachlor	98.9		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	94.1		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110331

Included Lab Sample IDs: 2303399, 2303405

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.3	96.6	P/P	90 - 110
Kjeldahl Nitrogen	99.9	99.3	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110345

Included Lab Sample IDs: 2303433, 2303434, 2303435

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110345

Included Lab Sample IDs: 2303433, 2303434, 2303435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	104	107	P/P	90 - 110
Antimony	95.8	98.0	P/P	90 - 110
Arsenic	103	105	P/P	90 - 110
Beryllium	102	104	P/P	90 - 110
Cadmium	99.9	101	P/P	90 - 110
Chromium	98.4	100	P/P	90 - 110
Cobalt	104	107	P/P	90 - 110
Copper	105	107	P/P	90 - 110
Lead	98.3	99.1	P/P	90 - 110
Lead	99.2	98.3	P/P	90 - 110
Manganese	100	102	P/P	90 - 110
Molybdenum	101	102	P/P	90 - 110
Nickel	106	109	P/P	90 - 110
Selenium	100	102	P/P	90 - 110
Silver	92.8	94.4	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A110347

Included Lab Sample IDs: 2303429, 2303430

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.9		P	80 - 120
Toxaphene	99.0		P	80 - 120

Reference Method: EPA 8270E

Run ID: A110373

Included Lab Sample IDs: 2303431, 2303432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	98.3		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine	99.3		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	108		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	106		P	80 - 120
Butylate	99.3		P	80 - 120
Caffeine	86.9		P	80 - 120
Carbophenothion	92.8		P	80 - 120
Carfentrazone Ethyl	103		P	80 - 120
Chlorfenapyr	104		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	98.9		P	80 - 120
Coumaphos	99.8		P	80 - 120
Cyanazine	99.6		P	80 - 120
Cyprodinil	103		P	80 - 120
Demeton	97.6		P	80 - 120
Diazinon	105		P	80 - 120
Difenoconazole	101		P	80 - 120
Dimethenamid	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110373

Included Lab Sample IDs: 2303431, 2303432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dimethomorph	102		P	80 - 120
Disulfoton	94.4		P	80 - 120
Dithiopyr	104		P	80 - 120
EPTC	101		P	80 - 120
Ethion	104		P	80 - 120
Ethoprop	100		P	80 - 120
Etridiazole	102		P	80 - 120
Fenamiphos	99.5		P	80 - 120
Fenbuconazole	98.7		P	80 - 120
Fipronil	104		P	80 - 120
Fipronil Desulfinyl	104		P	80 - 120
Fipronil Sulfide	105		P	80 - 120
Fipronil Sulfone	105		P	80 - 120
Fluazifop-P-butyl	98.7		P	80 - 120
Fludioxonil	107		P	80 - 120
Flumioxazin	93.9		P	80 - 120
Flutolanil	84.9		P	80 - 120
Fluxapyroxad	103		P	80 - 120
Fonofos	98.8		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	101		P	80 - 120
Iprodione	111		P	80 - 120
Loratadine	103		P	80 - 120
Malathion	103		P	80 - 120
Metalaxyl	100		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	97.1		P	80 - 120
Molinate	99.0		P	80 - 120
Myclobutanil	103		P	80 - 120
Naled	106		P	80 - 120
Napropamide	105		P	80 - 120
Norflurazon	98.8		P	80 - 120
Oxadiazon	102		P	80 - 120
Oxyfluorfen	99.5		P	80 - 120
Parathion Ethyl	97.2		P	80 - 120
Parathion Methyl	98.2		P	80 - 120
Pendimethalin	102		P	80 - 120
Phenytol	99.4		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	95.8		P	80 - 120
Prometon	97.1		P	80 - 120
Prometryn	104		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	101		P	80 - 120
Propargite	98.9		P	80 - 120
Propiconazole	99.9		P	80 - 120
Pyraflufen Ethyl	99.8		P	80 - 120
Pyridaben	96.7		P	80 - 120
Pyriproxyfen	116		P	80 - 120
Simazine	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110373

Included Lab Sample IDs: 2303431, 2303432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Stiropfos	99.2		P	80 - 120
Sulfentrazone	99.6		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	98.4		P	80 - 120
Terbuthylazine	102		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	101		P	80 - 120

Reference Method: EPA 8270E

Run ID: A110429

Included Lab Sample IDs: 2303432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azoxystrobin	103		P	80 - 120
Fluxapyroxad	99.4		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110454

Included Lab Sample IDs: 2303398, 2303399, 2303405

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	98.6	P/P	90 - 110
Ammonia-N	99.1	98.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110528

Included Lab Sample IDs: 2303433, 2303434, 2303435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	102	P/P	90 - 110
Iron	103	103	P/P	90 - 110
Magnesium	100	100	P/P	90 - 110
Strontium	98.6	99.9	P/P	90 - 110
Tin	101	102	P/P	90 - 110
Vanadium	99.2	100	P/P	90 - 110
Zinc	99.9	100	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A110566

Included Lab Sample IDs: 2303398, 2303399, 2303400, 2303405

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.6	99.8	P/P	90 - 110
Organic Carbon	97.0	93.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110712

Included Lab Sample IDs: 2303398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.3	96.2	P/P	90 - 110

Quality Assurance Report

Calibration Verification

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity	96.8				0.639	
EPA 200.7 Rev. 4.4	Calcium	104					0.136
	Iron	107	108	106			2.03
	Magnesium	103					1.63
	Strontium	101					0.470
	Tin	105	99.4	101			2.03
	Vanadium	95.7	101	100			0.812
	Zinc	101	104	103			1.20
EPA 200.8 Rev. 5.4	Aluminum	104	97.6	106			8.68
	Antimony	103	105	106			0.957
	Arsenic	101	117	116			0.947
	Beryllium	95.2	117	117			0.449
	Cadmium	103	101	99.7			1.04
	Chromium	101	101	101			0.616
	Cobalt	103	119	117			1.55
	Copper	100	110	110			0.355
	Lead	99.8	107	107			0.163
	Manganese	103	102	101			0.892
	Molybdenum	102	115	116			0.165
	Nickel	103	121	119			1.74
	Selenium	99.4	106	108			1.47
	Silver	102	93.7	93.8			0.0637
EPA 350.1 Rev. 2.0	Ammonia-N	96.2	97.4	97.0			0.321
	Ammonia-N	102	103	102			0.624
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.1	91.7	95.7			3.62
	Kjeldahl Nitrogen	99.4	100	96.0			4.05
	Kjeldahl Nitrogen	94.6	97.2	95.6			1.50
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	98.8	98.8			0.0
EPA 365.1 Rev. 2.0	Total-P	103	98.0	100			2.05
	Total-P	105	98.0	96.5			1.45
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1	97.6	99.9			2.33
EPA 8270E	Acetochlor	106	103	113			9.10
	Alachlor	95.5	93.5	98.8			5.53
	Aldrin	62.2	64.5	61.6			4.62
	Alpha-BHC	89.1	89.8	85.6			4.79
	Alpha-Chlordane	78.1	75.3	80.8			7.04
	Ametryn	115	116	114			0.547
	Atrazine	105					15.8
	Atrazine Desethyl	78.4	74.9	74.2			0.428
	Azinphos Methyl	75.5	73.1	80.2			9.24
	Azoxystrobin	96.7	99.5	103			2.65
	Beta-BHC	97.8	91.6	100			8.82
	Beta-Cyfluthrin	107	115	109			5.72
	Bifenthrin	63.8	74.9	69.7			7.28
	Bromacil	96.9	90.0	104			11.7
	Butylate	64.1	41.3	50.5			20.0
	Caffeine	83.7	86.6	109			17.0
	Carbophenothion	107	114	114			0.423
	Carfentrazone Ethyl	122	131	135			3.06
	Chlorfenapyr	94.3	86.1	88.8			3.11
	Chlorothalonil	134	138	124			11.3
	Chlorpyrifos Ethyl	104	99.2	113			13.2
	Chlorpyrifos Methyl	109	102	108			5.52
	Cis-Nonachlor	70.6	79.0	73.9			6.71

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Coumaphos	164	171	178		4.18
	Cyanazine	144	134	133		0.963
	Cypermethrin	86.7	95.8	87.9		8.60
	Cyprodinil	129	116	123		5.34
	Dacthal	90.4	90.3	90.3		0.0623
	DDD-p,p'	72.3	74.5	72.5		2.70
	DDE-p,p'	81.8	80.9	80.2		0.858
	DDT-p,p'	91.5	95.7	94.7		1.05
	Delta-BHC	107	102	105		3.59
	Deltamethrin	106	113	106		6.26
	Demeton	88.4	107	114		6.18
	Diazinon	108	107	115		6.88
	Dichlobenil	91.3	88.5	86.4		2.37
	Dicofol	74.7	77.6	76.1		1.95
	Dieldrin	75.4	84.4	83.8		0.692
	Difenoconazole	88.1	91.1	88.5		2.79
	Dimethenamid	89.5	89.0	94.1		5.63
	Dimethomorph	102	97.7	103		5.30
	Disulfoton	98.2	93.4	109		15.3
	Dithiopyr	95.9	92.1	99.1		6.81
	Endosulfan I	84.0	85.4	83.4		2.42
	Endosulfan II	80.6	78.8	77.3		1.92
	Endosulfan Sulfate	88.3	86.2	83.3		3.47
	Endrin	9.30	54.4	65.9		19.1
	Endrin Aldehyde	57.0	55.0	55.7		1.19
	Endrin Ketone	148	101	89.3		12.1
	EPTC	60.7	37.0	47.5		25.0
	Esfenvalerate	90.6	95.7	87.1		9.44
	Ethalfuralin	70.1	74.5	73.1		1.93
	Ethion	113	112	115		2.91
	Ethoprop	101	101	107		5.90
	Etridiazole	64.6	47.7	60.0		22.8
	Fenamiphos	108	101	104		3.43
	Fenbuconazole	142	138	142		3.36
	Fenpropathrin	69.3	85.8	80.6		6.15
	Fipronil	103	104	109		4.32
	Fipronil Desulfinyl	97.0	101	104		2.41
	Fipronil Sulfide	93.2	90.3	93.1		2.02
	Fipronil Sulfone	104	89.5	99.2		5.23
	Fluazifop-P-butyl	89.7	82.5	85.6		3.74
	Fludioxonil	101	96.2	102		5.56
	Flumioxazin	179	202	214		5.37
	Flutolanil	79.3	73.4	74.8		1.82
	Fluxapyroxad	93.2	153	158		3.23
	Fonofos	99.1	100	109		8.45
	Gamma-BHC	89.3	89.3	87.6		1.94
	Gamma-Chlordane	76.1	77.8	76.7		1.41
	Heptachlor	73.3	74.7	68.1		9.26
	Heptachlor Epoxide	78.4	81.9	76.5		6.02
	Hexachlorobenzene	78.4	77.8	73.8		5.26
	Hexazinone	108	107	111		3.77
	Imazalil	87.9	71.7	64.9		10.0
	Iprodione	71.5	77.0	79.2		2.81
	Kepone	62.9	63.8	67.4		5.61

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Lambda-Cyhalothrin	96.7	107	94.7			11.8
	Loratadine	67.3	81.0	77.1			4.93
	Malathion	127	122	129			4.98
	Metalaxyl	91.5	92.1	96.9			5.11
	Methoprene	25.6	49.7	64.7			26.3
	Methoxychlor	87.6	86.6	86.8			0.222
	Metolachlor	102	94.3	103			8.15
	Metribuzin	101	94.5	101			6.31
	Mevinphos	102	98.3	107			8.36
	MGK-264	86.0	81.8	82.3			0.586
	Mirex	58.1	63.1	61.5			2.49
	Molinate	77.8	62.4	76.1			19.8
	Myclobutanil	98.5	93.7	99.1			4.12
	Naled	118	102	115			12.2
	Napropamide	93.3	85.3	89.8			5.13
	Norflurazon	114	112	118			5.09
	Oxadiazon	83.9	72.3	77.0			5.54
	Oxychlordane	76.9	80.6	77.0			4.57
	Oxyfluorfen	86.5	105	116			10.2
	Parathion Ethyl	100	92.8	101			8.47
	Parathion Methyl	120	121	123			1.54
	Pendimethalin	66.1	80.4	86.2			6.91
	Permethrin	83.8	90.0	87.7			2.64
	Phenothrin	64.9	77.3	82.5			6.57
	Phenytol	130	137	141			3.10
	Phorate	89.9	106	116			8.94
	Piperonyl Butoxide	0.166	48.0	100			70.5
	Prallethrin	62.1	66.9	74.6			11.0
	Prodiamine	61.2	125	137			8.70
	Prometon	95.2	124	135			8.83
	Prometryn	120	117	122			4.73
	Pronamide	102	99.3	112			11.7
	Propanil	92.3	90.2	96.0			6.23
	Propargite	141	138	147			6.86
	Propiconazole	113					0.618
	Pyraflufen Ethyl	125	129	126			1.68
	Pyridaben	134	140	151			7.55
	Pyriproxyfen	59.5	58.9	56.9			3.44
	Simazine	99.0					3.55
	Stirophos	110	98.6	105			6.22
	Sulfentrazone	130					2.43
	Tau-Fluvalinate	69.6	82.6	80.6			2.44
	Tebuconazole	67.9	133	143			6.63
	Terbufos	117	123	130			6.00
	Terbuthylazine	98.8	102	106			3.40
	Tetramethrin	61.6	86.2	89.0			3.19
	Thiobencarb	94.3	89.7	96.6			7.48
	Trans-Nonachlor	76.9	79.2	78.0			1.50
	Triadimefon	87.7	83.2	103			16.6
	Triclosan Methyl	83.8	81.5	84.3			3.33
	Trifluralin	74.5	72.7	71.2			2.09
EPA 8276	Chlordane	88.1	94.4	79.4			17.2
	Toxaphene	91.3	95.2	82.5			14.3
EPA 8321B	2,4-D	85.5	121	94.6			24.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	2,4,5-T	66.3	85.3	76.6			10.8
	3-Hydroxycarbofuran	65.1	114	87.9			25.5
	Acesulfame K	76.7	90.8	101			10.5
	Acetaminophen	57.1	101	83.7			18.9
	Acetamiprid	84.4	112	108			4.32
	Afidopyropen	64.1	79.7	74.0			7.39
	Aldicarb	53.2	76.7	55.4			32.4
	Aldicarb Sulfone	111	104	123			16.2
	Aldicarb Sulfoxide	82.4	54.3	40.6			28.8
	AMPA	109	93.5	87.5			6.65
	Bentazon	80.8					9.76
	Benzovindiflupyr	78.0	74.7	90.0			18.6
	Carbamazepine	94.0	149	121			21.2
	Carbaryl	73.5	79.9	69.3			14.2
	Carbofuran	85.9	95.4	98.0			2.73
	Clothianidin	107	137	145			5.60
	Dinotefuran	104	153	142			7.56
	Diuron	119	106	99.7			5.85
	Endothall	68.2	92.3	86.3			6.68
	Fenuron	94.8	97.4	95.5			1.93
	Fluridone	81.2	78.3	84.2			5.83
	Glufosinate	103	100	99.3			0.830
	Glyphosate	96.0	89.1	90.5			1.42
	Hydrocodone	91.2	127	116			9.10
	Ibuprofen	81.3	82.2	102			21.8
	Imazapyr	109					8.24
	Imidacloprid	89.4	182	189			4.15
	Linuron	78.0	84.0	79.8			5.22
	Mandestrobin	88.9	94.6	107			11.9
	MCPP	86.1	111	126			13.2
	Methiocarb	78.5	80.3	76.3			5.11
	Methomyl	82.9	91.8	98.1			6.68
	Naproxen	74.3	124	98.1			23.7
	Oxamyl	112					4.41
	Primidone	117	167	110			41.3
	Propoxur	88.2	85.3	85.4			0.146
	Pyraclostrobin	73.4	91.5	85.7			6.54
	Silvex	68.2	97.6	61.7			45.1
	Sucralose	81.7	82.1	92.1			9.21
	Thiamethoxam	97.3	177	170			3.98
	Tolfenpyrad	44.6	51.3	49.2			4.30
	Triclopyr	69.2	99.6	86.5			14.1
SM 2320 B-2011	Total Alkalinity	97.9				0.125	
	Total Alkalinity	99.1				1.23	
SM 4500 F-C-2011	Fluoride	97.3	94.5	96.0			0.993
	Fluoride	97.8	98.7	98.1			0.483
SM 5310 B-2011	Organic Carbon	98.8	93.1	93.0			0.146

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2303395, 2303396, 2303397, 2303404

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2303433, 2303434, 2303435
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2303433, 2303434, 2303435
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2303398, 2303399, 2303400, 2303405
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2303398, 2303399, 2303400, 2303405
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2303398, 2303399, 2303400, 2303405
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2303398, 2303399, 2303400, 2303405
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2303401, 2303402, 2303403, 2303406
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2303429, 2303430
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2303431, 2303432
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2303429, 2303430
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2303425, 2303426
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2303427, 2303428
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2303395, 2303396, 2303397, 2303404
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2303395, 2303396, 2303397, 2303404
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2303395, 2303396, 2303397, 2303404
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2303398, 2303399, 2303400, 2303405

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	02/03/2022			02/03/2022 17:03	Khloe J Berg	2303395
	02/03/2022			02/03/2022 17:04	Khloe J Berg	2303396
	02/03/2022			02/03/2022 17:07	Khloe J Berg	2303397
	02/03/2022			02/03/2022 17:09	Khloe J Berg	2303404
EPA 200.7 Rev. 4.4	02/03/2022	02/09/2022 10:35	Vijayalakshmi Reddy	02/21/2022 16:39	Josef B Mick	2303433
	02/03/2022	02/09/2022 10:35	Vijayalakshmi Reddy	02/21/2022 16:47	Josef B Mick	2303433
	02/03/2022	02/09/2022 10:35	Vijayalakshmi Reddy	02/21/2022 16:55	Josef B Mick	2303434
	02/03/2022	02/09/2022 10:35	Vijayalakshmi Reddy	02/21/2022 17:04	Josef B Mick	2303434
	02/03/2022	02/09/2022 10:35	Vijayalakshmi Reddy	02/21/2022 17:12	Josef B Mick	2303435
	02/03/2022	02/09/2022 10:35	Vijayalakshmi Reddy	02/21/2022 17:20	Josef B Mick	2303435
	02/03/2022	02/09/2022 10:35	Vijayalakshmi Reddy	02/23/2022 22:28	Josef B Mick	2303433
EPA 200.8 Rev. 5.4	02/03/2022	02/09/2022 10:35	Vijayalakshmi Reddy	02/10/2022 23:34	Alexander Thompson	2303434
	02/03/2022	02/09/2022 10:35	Vijayalakshmi Reddy	02/11/2022 01:10	Alexander Thompson	2303433
	02/03/2022	02/09/2022 10:35	Vijayalakshmi Reddy	02/11/2022 01:19	Alexander Thompson	2303434
	02/03/2022	02/09/2022 10:35	Vijayalakshmi Reddy	02/11/2022 01:29	Alexander Thompson	2303435
EPA 350.1 Rev. 2.0	02/03/2022			02/04/2022 15:52	Ping Hua	2303400
	02/03/2022			02/16/2022 12:09	Ping Hua	2303398
	02/03/2022			02/16/2022 12:13	Ping Hua	2303399
	02/03/2022			02/16/2022 14:25	Ping Hua	2303405
EPA 351.2 Rev. 2.0	02/03/2022	02/04/2022 09:26	Samantha L Bates	02/07/2022 16:22	Alexandra J Mattheus	2303400
	02/03/2022	02/08/2022 13:34	Samantha L Bates	02/10/2022 10:28	Alexandra J Mattheus	2303399
	02/03/2022	02/08/2022 13:34	Samantha L Bates	02/10/2022 10:53	Alexandra J Mattheus	2303405
	02/03/2022	03/01/2022 10:02	Samantha L Bates	03/02/2022 12:01	Alexandra J Mattheus	2303398
EPA 353.2 Rev. 2.0	02/03/2022			02/08/2022 09:19	Beverly Y. Sanders	2303398
	02/03/2022			02/08/2022 09:21	Beverly Y. Sanders	2303399
	02/03/2022			02/08/2022 09:22	Beverly Y. Sanders	2303400
	02/03/2022			02/08/2022 09:23	Beverly Y. Sanders	2303405
EPA 365.1 Rev. 2.0	02/03/2022	02/08/2022 14:30	Simonne.V. Calhoun	02/09/2022 14:26	Shengyu Ding	2303398
	02/03/2022	02/08/2022 14:30	Simonne.V. Calhoun	02/09/2022 14:34	Shengyu Ding	2303399
	02/03/2022	02/08/2022 14:30	Simonne.V. Calhoun	02/09/2022 14:35	Shengyu Ding	2303400
	02/03/2022	02/08/2022 14:30	Simonne.V. Calhoun	02/09/2022 15:42	Shengyu Ding	2303405
EPA 365.1 Rev. 2.0 dissolved	02/03/2022			02/03/2022 14:31	James L Waggeberby	2303401
	02/03/2022			02/03/2022 14:32	James L Waggeberby	2303402
	02/03/2022			02/03/2022 14:37	James L Waggeberby	2303403
	02/03/2022			02/03/2022 14:38	James L Waggeberby	2303406
EPA 8270E	02/03/2022	02/07/2022 08:00	Rasheda Ghaffari	02/09/2022 22:45	Vandana T. Nagar	2303429
	02/03/2022	02/07/2022 08:00	Rasheda Ghaffari	02/09/2022 23:16	Vandana T. Nagar	2303430
	02/03/2022	02/09/2022 08:00	Rasheda Ghaffari	02/11/2022 16:09	Michael Poppell	2303431
	02/03/2022	02/09/2022 08:00	Rasheda Ghaffari	02/11/2022 16:35	Michael Poppell	2303432
	02/03/2022	02/09/2022 08:00	Rasheda Ghaffari	02/12/2022 18:35	Michael Poppell	2303432

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8276	02/03/2022	02/07/2022 08:00	Rasheda Ghaffari	02/10/2022 14:57	Arthur Maknenko	2303429
	02/03/2022	02/07/2022 08:00	Rasheda Ghaffari	02/10/2022 15:54	Arthur Maknenko	2303430
EPA 8321B	02/03/2022	02/04/2022 10:00	June Rhew	02/08/2022 05:11	Juyoung Kim	2303425
	02/03/2022	02/04/2022 10:00	June Rhew	02/08/2022 05:46	Juyoung Kim	2303426
	02/03/2022	02/07/2022 13:30	Hoor Shaik	02/10/2022 00:38	Juyoung Kim	2303427
	02/03/2022	02/07/2022 13:30	Hoor Shaik	02/10/2022 01:13	Juyoung Kim	2303428
	02/03/2022	02/08/2022 10:00	Manjita Shrestha	02/08/2022 11:59	Manjita Shrestha	2303428
	02/03/2022	02/08/2022 10:00	Manjita Shrestha	02/08/2022 14:03	Manjita Shrestha	2303427
	02/03/2022	02/08/2022 10:00	Manjita Shrestha	02/08/2022 17:00	Manjita Shrestha	2303427
	02/03/2022	02/08/2022 10:00	Manjita Shrestha	02/08/2022 17:14	Manjita Shrestha	2303428
SM 2320 B-2011	02/03/2022			02/08/2022 08:21	Dale L. Simmons	2303395
	02/03/2022			02/08/2022 08:34	Dale L. Simmons	2303396
	02/03/2022			02/08/2022 08:47	Dale L. Simmons	2303397
	02/03/2022			02/08/2022 22:58	Dale L. Simmons	2303404
SM 2540 D-2011	02/03/2022			02/04/2022 15:00	Simonne.V. Calhoun	2303395, 2303396, 2303397, 2303404
SM 4500 F-C-2011	02/03/2022			02/08/2022 06:42	Dale L. Simmons	2303395
	02/03/2022			02/08/2022 06:48	Dale L. Simmons	2303396
	02/03/2022			02/08/2022 06:53	Dale L. Simmons	2303397
	02/03/2022			02/08/2022 22:58	Dale L. Simmons	2303404
SM 5310 B-2011	02/03/2022			02/22/2022 21:22	Khloe J Berg	2303398
	02/03/2022			02/22/2022 22:20	Khloe J Berg	2303399
	02/03/2022			02/22/2022 23:17	Khloe J Berg	2303400
	02/03/2022			02/23/2022 01:00	Khloe J Berg	2303405