

Chemical Analysis Report

NE-DIST-2022-02-08-02

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

Event Description: **LSJR Palatka 2022**
Request ID: **RQ-2022-01-31-55**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 02-MAR-2022 09:21



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: Mill BR. @ Old San Mateo Rd.

Collection Date/Time: 02/07/2022 10:45

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304417	DEP SOP: NU-094-1	Color (true)**	100		PCU	P409597	
	EPA 180.1 Rev. 2.0	Turbidity	4.2	A	NTU	P409582	
	EPA 300.0 Rev. 2.1	Chloride	260		mg Cl/L	P409886	
		Sulfate	120		mg SO4/L	P409782	
	SM 2320 B-2011	Total Alkalinity	83		mg CaCO3/L	P409857	
	SM 2540 C-2011	TDS	702		mg/L	P409978	
	SM 2540 D-2011	TSS	2	I	mg/L	P409970	
	SM 4500 F-C-2011	Fluoride	0.22		mg F/L	P409860	
2304418	EPA 350.1 Rev. 2.0	Ammonia-N	0.087		mg N/L	P409955	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P409670	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P409742	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P409631	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P410066	
2304419	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.098		mg P/L	P409566	
2304428	EPA 8321B	Aldicarb	0.020	UJ	ug/L	P409559	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P409559	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P409559	
		Carbaryl	0.0020	U	ug/L	P409559	
		Carbofuran	0.0020	U	ug/L	P409559	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P409559	
		Methiocarb	0.0020	U	ug/L	P409559	
		Methomyl	0.0020	U	ug/L	P409559	
		Oxamyl	0.0020	U	ug/L	P409559	
		Propoxur	0.0020	U	ug/L	P409559	
2304429		2,4-D	0.14		ug/L	P409557	
		Acesulfame K	0.10	U	ug/L	P409584	
		2,4,5-T	0.0040	U	ug/L	P409557	
		AMPA	0.16	I	ug/L	P409584	
		Acetaminophen	0.0080	U	ug/L	P409557	
		Acetamiprid	0.0020	U	ug/L	P409557	
		Endothall	0.25	U	ug/L	P409584	
		Glufosinate	0.10	U	ug/L	P409584	
		Glyphosate	0.32	I	ug/L	P409584	
		Afidopyropen	0.0020	U	ug/L	P409557	
		Bentazon	0.0033		ug/L	P409557	
		Sucralose	0.11		ug/L	P409584	
		Benzovindiflupyr	0.0020	U	ug/L	P409557	
		Carbamazepine	8.0E-04	U	ug/L	P409557	
		Clothianidin	0.0022	I	ug/L	P409557	
		Dinotefuran	0.0020	U	ug/L	P409557	
		Diuron	0.0020	U	ug/L	P409557	
		Fenuron	0.016	U	ug/L	P409557	
		Fluridone	8.0E-04	U	ug/L	P409557	

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304429	EPA 8321B	Imazapyr	2.3		ug/L	P409557	
		Hydrocodone	0.0020	U	ug/L	P409557	
		Ibuprofen	0.020	U	ug/L	P409557	RPD
		Imidacloprid	0.0074	I	ug/L	P409557	
		Linuron	0.0040	U	ug/L	P409557	
		Mandestrobin	0.0020	U	ug/L	P409557	
		MCP	0.0040	U	ug/L	P409557	
		Naproxen	0.0080	U	ug/L	P409557	
		Primidone	0.0040	U	ug/L	P409557	
		Pyraclostrobin	0.0020	U	ug/L	P409557	
		Silvex	0.0040	U	ug/L	P409557	MS
		Thiamethoxam	0.033		ug/L	P409557	
		Tolfenpyrad	0.0020	U	ug/L	P409557	
2304434	EPA 8270E	Triclopyr	0.0040	U	ug/L	P409557	MS
		Aldrin	0.68	U	ng/L	P409586	
		Alpha-BHC	0.10	U	ng/L	P409586	
		Alpha-Chlordane	0.21	U	ng/L	P409586	
		PCB-1016	2.1	U	ng/L	P409586	
		Beta-BHC	0.10	U	ng/L	P409586	RPD
		PCB-1221	2.1	U	ng/L	P409586	
		Beta-Cyfluthrin**	1.3	U	ng/L	P409586	
		PCB-1232	2.1	U	ng/L	P409586	
		Bifenthrin**	0.52	U	ng/L	P409586	
		PCB-1242	2.1	U	ng/L	P409586	
		PCB-1248	2.1	U	ng/L	P409586	
		Chlorothalonil	1.3	U	ng/L	P409586	
		PCB-1254	2.1	U	ng/L	P409586	
		Cis-Nonachlor**	0.21	U	ng/L	P409586	
		PCB-1260	2.1	U	ng/L	P409586	
		Cypermethrin	1.6	U	ng/L	P409586	
		Dacthal**	0.16	U	ng/L	P409586	
		DDD-p,p'	0.26	U	ng/L	P409586	
		DDE-p,p'	0.21	U	ng/L	P409586	
		DDT-p,p'	0.26	U	ng/L	P409586	
		Delta-BHC	0.42	U	ng/L	P409586	
		Deltamethrin**	1.3	U	ng/L	P409586	
		Dichlobenil**	0.26	U	ng/L	P409586	
		Dicofol	1.3	UJ	ng/L	P409586	CCV, LCS, MS
		Dieldrin	0.42	U	ng/L	P409586	
		Endosulfan I	0.42	U	ng/L	P409586	
		Endosulfan II	0.42	U	ng/L	P409586	
		Endosulfan Sulfate	0.31	U	ng/L	P409586	
		Endrin	0.42	U	ng/L	P409586	
		Endrin Aldehyde	0.78	U	ng/L	P409586	

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Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304434	EPA 8270E	Endrin Ketone	0.42	U	ng/L	P409586	CCV, RPD
		Esfenvalerate**	0.78	U	ng/L	P409586	
		Ethalfuralin**	0.16	U	ng/L	P409586	
		Fenpropathrin**	0.26	UJ	ng/L	P409586	
		Gamma-BHC	0.13	U	ng/L	P409586	
		Gamma-Chlordane	0.21	U	ng/L	P409586	
		Heptachlor	0.21	U	ng/L	P409586	
		Heptachlor Epoxide	0.26	U	ng/L	P409586	
		Hexachlorobenzene	1.0	U	ng/L	P409586	
		Kepone**	5.2	U	ng/L	P409586	
		Lambda-Cyhalothrin**	0.78	U	ng/L	P409586	
		Methoprene**	0.78	U	ng/L	P409586	
		Methoxychlor	0.31	U	ng/L	P409586	
		MGK-264**	0.21	U	ng/L	P409586	
		Mirex	0.73	U	ng/L	P409586	
		Oxychlordane**	0.31	U	ng/L	P409586	
		Permethrin	1.7	U	ng/L	P409586	MS
		Phenothrin**	0.94	U	ng/L	P409586	
		Piperonyl Butoxide**	0.16	UJ	ng/L	P409586	CCV
		Prallethrin**	2.1	U	ng/L	P409586	
		Tau-Fluvalinate**	0.26	U	ng/L	P409586	RPD
		Tetramethrin**	0.78	U	ng/L	P409586	
		Trans-Nonachlor**	0.21	U	ng/L	P409586	
		Triclosan Methyl**	0.16	U	ng/L	P409586	
		Trifluralin	0.28	I	ng/L	P409586	
	EPA 8276	Chlordane	2.6	U	ng/L	P409586	
		Toxaphene	16	U	ng/L	P409586	
2304435	EPA 8270E	Acetochlor	0.24	U	ng/L	P409564	
		Alachlor	0.24	U	ng/L	P409564	
		Ametryn	0.59	U	ng/L	P409564	
		Atrazine	0.24	U	ng/L	P409564	
		Atrazine Desethyl	1.5	U	ng/L	P409564	
		Azinphos Methyl	2.0	U	ng/L	P409564	
		Azoxystrobin**	20		ng/L	P409564	
		Bromacil	0.49	U	ng/L	P409564	
		Butylate	0.39	U	ng/L	P409564	
		Caffeine**	7.3	U	ng/L	P409564	
		Carbophenothion	0.20	U	ng/L	P409564	
		Carfentrazone Ethyl**	0.098	U	ng/L	P409564	
		Chlorfenapyr**	0.17	U	ng/L	P409564	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P409564	
		Chlorpyrifos Methyl	0.049	U	ng/L	P409564	
		Coumaphos**	0.49	U	ng/L	P409564	
		Cyanazine	3.2	U	ng/L	P409564	
		Cyprodinil**	0.85		ng/L	P409564	

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304435	EPA 8270E	Demeton	1.5	U	ng/L	P409564	
		Diazinon	0.12	U	ng/L	P409564	
		Difenoconazole**	4.0		ng/L	P409564	
		Dimethenamid**	0.098	U	ng/L	P409564	
		Dimethomorph**	0.17	U	ng/L	P409564	
		Disulfoton	0.49	U	ng/L	P409564	
		Dithiopyr**	0.17	U	ng/L	P409564	
		EPTC	1.2	U	ng/L	P409564	
		Ethion	0.15	U	ng/L	P409564	
		Ethoprop	100		ng/L	P409564	
		Etridiazole**	0.15	U	ng/L	P409564	MS
		Fenamiphos	0.49	U	ng/L	P409564	
		Fenbuconazole**	0.12	U	ng/L	P409564	
		Fipronil	1.2		ng/L	P409564	
		Fipronil Desulfinyl**	0.56		ng/L	P409564	
		Fipronil Sulfide	3.7		ng/L	P409564	
		Fipronil Sulfone	5.6		ng/L	P409564	
		Fluazifop-P-butyl**	0.098	U	ng/L	P409564	
		Fludioxonil**	4.3		ng/L	P409564	
		Flumioxazin**	1.7	U	ng/L	P409564	
		Flutolanil**	0.098	U	ng/L	P409564	
		Fluxapyroxad**	4.4	J	ng/L	P409564	CCV, MS
		Fonofos	0.20	U	ng/L	P409564	
		Hexazinone	1.4	I	ng/L	P409564	
		Imazalil**	0.73	U	ng/L	P409564	
		Iprodione**	0.59	U	ng/L	P409564	
		Loratadine**	0.098	U	ng/L	P409564	
		Malathion	0.34	U	ng/L	P409564	
		Metalaxyl	7.6		ng/L	P409564	
		Metolachlor	95		ng/L	P409564	
		Metribuzin	5.1	I	ng/L	P409564	
		Mevinphos	1.0	U	ng/L	P409564	
		Molinate	0.29	U	ng/L	P409564	
		Myclobutanil**	0.24	U	ng/L	P409564	
		Naled**	1.5	UJ	ng/L	P409564	LCS, MS
		Napropamide**	17		ng/L	P409564	
		Norflurazon	0.49	U	ng/L	P409564	
		Oxadiazon	0.29	U	ng/L	P409564	
		Oxyfluorfen**	0.28	I	ng/L	P409564	
		Parathion Ethyl	0.24	U	ng/L	P409564	
		Parathion Methyl	0.54	U	ng/L	P409564	
		Pendimethalin	0.98	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	

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304435	EPA 8270E	Prometon	0.88	U	ng/L	P409564	
		Prometryn	0.20	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**	3.6		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	0.49	U	ng/L	P409564	
		Stiropfos**	0.12	U	ng/L	P409564	
		Sulfentrazone**	0.49	U	ng/L	P409564	
		Tebuconazole**	0.49	U	ng/L	P409564	MS
		Terbufos	0.098	U	ng/L	P409564	
		Terbutylazine	0.41	U	ng/L	P409564	
		Thiobencarb**	0.59	U	ng/L	P409564	
2304438	EPA 200.7 Rev. 4.4	Triadimefon**	0.24	U	ng/L	P409564	
		Calcium	78.3		mg/L	P409654	
		Iron	970		ug/L	P409654	
		Magnesium	29.6		mg/L	P409654	
		Potassium	6.5		mg/L	P409654	
		Sodium	115		mg/L	P409654	
		Strontium	1.73E+03		ug/L	P409654	
		Tin	3.0	U	ug/L	P409654	
		Titanium	1.7	I	ug/L	P409654	
		Vanadium	2.0	U	ug/L	P409654	
		Zinc	6.9	I	ug/L	P409654	
	EPA 200.8 Rev. 5.4	Aluminum	87		ug/L	P409654	
		Antimony	0.060	I	ug/L	P409654	
		Arsenic	0.53		ug/L	P409654	
		Barium	28.4		ug/L	P409654	
		Beryllium	0.030	I	ug/L	P409654	
		Boron**	53.3		ug/L	P409654	
		Cadmium	0.020	U	ug/L	P409654	
		Chromium	0.75	I	ug/L	P409654	
		Cobalt	0.138		ug/L	P409654	
		Copper	0.69	I	ug/L	P409654	
		Lead	0.20	U	ug/L	P409654	
		Manganese	50.2		ug/L	P409654	
		Molybdenum	0.21	I	ug/L	P409654	
		Nickel	0.61	I	ug/L	P409654	
		Selenium	0.20	U	ug/L	P409654	
		Silver	0.010	U	ug/L	P409654	
	SM 2340B	Thallium	0.10	U	ug/L	P409654	
		Hardness	318		mg/L	P409654	

Field ID: 20030577

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: 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: Mill Branch @ McCormick Rd

Collection Date/Time: 02/07/2022 11:30

Field ID: 20030681

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304430	EPA 8321B	Aldicarb	0.020	U	ug/L	P409559	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P409559	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P409559	
		Carbaryl	0.0020	U	ug/L	P409559	
		Carbofuran	0.0020	U	ug/L	P409559	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P409559	
		Methiocarb	0.0020	U	ug/L	P409559	
		Methomyl	0.0020	U	ug/L	P409559	
		Oxamyl	0.0020	U	ug/L	P409559	
		Propoxur	0.0020	U	ug/L	P409559	
2304431		2,4-D	0.0047	I	ug/L	P409557	
		Acesulfame K	0.10	U	ug/L	P409584	
		2,4,5-T	0.0040	U	ug/L	P409557	
		AMPA	0.14	I	ug/L	P409584	
		Acetaminophen	0.0080	U	ug/L	P409557	
		Acetamiprid	0.0020	U	ug/L	P409557	
		Endothall	0.25	U	ug/L	P409584	
		Glufosinate	0.10	U	ug/L	P409584	
		Glyphosate	0.28	I	ug/L	P409584	
		Afidopyropen	0.0020	U	ug/L	P409557	
		Bentazon	0.0058		ug/L	P409557	
		Sucralose	0.051		ug/L	P409584	
		Benzovindiflupyr	0.0020	U	ug/L	P409557	
		Carbamazepine	8.0E-04	U	ug/L	P409557	
		Clothianidin	0.0022	I	ug/L	P409557	
		Dinotefuran	0.0020	U	ug/L	P409557	
		Diuron	0.0020	U	ug/L	P409557	
		Fenuron	0.016	U	ug/L	P409557	
		Fluridone	8.0E-04	U	ug/L	P409557	
		Imazapyr	0.090		ug/L	P409557	
		Hydrocodone	0.0020	U	ug/L	P409557	
		Ibuprofen	0.020	U	ug/L	P409557	RPD
		Imidacloprid	0.0064	I	ug/L	P409557	
		Linuron	0.0040	U	ug/L	P409557	
		Mandestrobin	0.0020	U	ug/L	P409557	
		MCPP	0.0040	U	ug/L	P409557	
		Naproxen	0.0080	U	ug/L	P409557	
		Primidone	0.0040	U	ug/L	P409557	
		Pyraclostrobin	0.0020	U	ug/L	P409557	
		Silvex	0.0040	U	ug/L	P409557	MS
		Thiamethoxam	0.031		ug/L	P409557	
		Tolfenpyrad	0.0020	U	ug/L	P409557	
		Triclopyr	0.0040	U	ug/L	P409557	MS
2304436	EPA 8270E	Aldrin	0.67	U	ng/L	P409586	

Field ID: 20030681

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304436	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P409586	RPD
		Alpha-Chlordane	0.21	U	ng/L	P409586	
		PCB-1016	2.1	U	ng/L	P409586	
		Beta-BHC	0.10	U	ng/L	P409586	
		PCB-1221	2.1	U	ng/L	P409586	
		Beta-Cyfluthrin**	1.3	U	ng/L	P409586	
		PCB-1232	2.1	U	ng/L	P409586	
		Bifenthrin**	0.52	U	ng/L	P409586	
		PCB-1242	2.1	U	ng/L	P409586	
		PCB-1248	2.1	U	ng/L	P409586	
		Chlorothalonil	1.3	U	ng/L	P409586	
		PCB-1254	2.1	U	ng/L	P409586	
		Cis-Nonachlor**	0.21	U	ng/L	P409586	
		PCB-1260	2.1	U	ng/L	P409586	
		Cypermethrin	1.5	U	ng/L	P409586	
		Dacthal**	0.15	U	ng/L	P409586	
		DDD-p,p'	0.26	U	ng/L	P409586	
		DDE-p,p'	0.21	U	ng/L	P409586	
		DDT-p,p'	0.26	U	ng/L	P409586	
		Delta-BHC	0.41	U	ng/L	P409586	
		Deltamethrin**	1.3	U	ng/L	P409586	
		Dichlobenil**	0.26	U	ng/L	P409586	CCV, LCS, MS
		Dicofol	1.3	UJ	ng/L	P409586	
		Dieldrin	0.41	U	ng/L	P409586	
		Endosulfan I	0.41	U	ng/L	P409586	
		Endosulfan II	0.41	U	ng/L	P409586	
		Endosulfan Sulfate	0.31	U	ng/L	P409586	CCV, RPD
		Endrin	0.41	U	ng/L	P409586	
		Endrin Aldehyde	0.77	U	ng/L	P409586	
		Endrin Ketone	0.41	U	ng/L	P409586	
		Esfenvalerate**	0.77	U	ng/L	P409586	
		Ethalfuralin**	0.15	U	ng/L	P409586	
		Fenpropathrin**	0.26	UJ	ng/L	P409586	
		Gamma-BHC	0.13	U	ng/L	P409586	
		Gamma-Chlordane	0.21	U	ng/L	P409586	
		Heptachlor	0.21	U	ng/L	P409586	
		Heptachlor Epoxide	0.26	U	ng/L	P409586	
		Hexachlorobenzene	1.0	U	ng/L	P409586	
		Kepone**	5.2	U	ng/L	P409586	
		Lambda-Cyhalothrin**	0.77	U	ng/L	P409586	
		Methoprene**	0.77	U	ng/L	P409586	
		Methoxychlor	0.31	U	ng/L	P409586	
		MGK-264**	0.21	U	ng/L	P409586	
		Mirex	0.72	U	ng/L	P409586	

Field ID: 20030681

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304436	EPA 8270E	Oxychlordane**	0.31	U	ng/L	P409586	
		Permethrin	1.6	U	ng/L	P409586	MS
		Phenothrin**	0.93	U	ng/L	P409586	
		Piperonyl Butoxide**	0.15	UJ	ng/L	P409586	CCV
		Prallethrin**	2.1	U	ng/L	P409586	
		Tau-Fluvalinate**	0.26	U	ng/L	P409586	RPD
		Tetramethrin**	0.77	U	ng/L	P409586	
		Trans-Nonachlor**	0.21	U	ng/L	P409586	
		Triclosan Methyl**	0.15	U	ng/L	P409586	
		Trifluralin	0.34	I	ng/L	P409586	
2304437	EPA 8270E	Chlordane	2.6	U	ng/L	P409586	
		Toxaphene	15	U	ng/L	P409586	
		Oxybenzone**	10	U	ng/L	P409564	
		Acetochlor	0.26	U	ng/L	P409564	
		Octinoxate**	35	I	ng/L	P409564	
		Alachlor	0.26	U	ng/L	P409564	
		Avobenzone**	320		ng/L	P409564	
		Ametryn	0.62	U	ng/L	P409564	
		Atrazine	0.51	I	ng/L	P409564	
		Atrazine Desethyl	1.5	U	ng/L	P409564	
		Azinphos Methyl	2.1	U	ng/L	P409564	
		Azoxystrobin**	20		ng/L	P409564	
		Bromacil	0.52	U	ng/L	P409564	
		Butylate	0.41	U	ng/L	P409564	
		Caffeine**	7.7	U	ng/L	P409564	
		Carbophenothion	0.21	U	ng/L	P409564	
		Carfentrazone Ethyl**	0.10	U	ng/L	P409564	
		Chlorfenapyr**	0.18	U	ng/L	P409564	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P409564	
		Chlorpyrifos Methyl	0.052	U	ng/L	P409564	
		Coumaphos**	0.52	U	ng/L	P409564	
		Cyanazine	3.4	U	ng/L	P409564	
		Cyprodinil**	0.47	I	ng/L	P409564	
		Demeton	1.5	U	ng/L	P409564	
		Diazinon	0.13	U	ng/L	P409564	
		Difenoconazole**	4.5		ng/L	P409564	
		Dimethenamid**	0.10	U	ng/L	P409564	
		Dimethomorph**	0.18	U	ng/L	P409564	
		Disulfoton	0.52	U	ng/L	P409564	
		Dithiopyr**	0.18	U	ng/L	P409564	
		EPTC	1.3	U	ng/L	P409564	
		Ethion	0.15	U	ng/L	P409564	
		Ethoprop	99		ng/L	P409564	
		Etridiazole**	0.15	U	ng/L	P409564	MS
		Fenamiphos	0.52	U	ng/L	P409564	

Field ID: 20030681

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304437	EPA 8270E	Fenbuconazole**	0.13	U	ng/L	P409564	
		Fipronil	0.82	I	ng/L	P409564	
		Fipronil Desulfinyl**	0.36	I	ng/L	P409564	
		Fipronil Sulfide	2.7		ng/L	P409564	
		Fipronil Sulfone	3.8		ng/L	P409564	
		Fluazifop-P-butyl**	0.10	U	ng/L	P409564	
		Fludioxonil**	5.5		ng/L	P409564	
		Flumioxazin**	1.8	U	ng/L	P409564	
		Flutolanil**	0.10	U	ng/L	P409564	
		Fluxapyroxad**	5.5		ng/L	P409564	MS
		Fonofos	0.21	U	ng/L	P409564	
		Hexazinone	1.7	I	ng/L	P409564	
		Imazalil**	0.77	U	ng/L	P409564	
		Iprodione**	0.62	U	ng/L	P409564	
		Loratadine**	0.10	U	ng/L	P409564	
		Malathion	0.36	U	ng/L	P409564	
		Metalaxyl	4.6		ng/L	P409564	
		Metolachlor	99		ng/L	P409564	
		Metribuzin	4.3	I	ng/L	P409564	
		Mevinphos	1.1	U	ng/L	P409564	
		Molinate	0.31	U	ng/L	P409564	
		Myclobutanil**	0.26	U	ng/L	P409564	
		Naled**	1.5	UJ	ng/L	P409564	LCS, MS
		Napropamide**	13		ng/L	P409564	
		Norflurazon	0.52	U	ng/L	P409564	
		Oxadiazon	0.31	U	ng/L	P409564	
		Oxyfluorfen**	0.15	U	ng/L	P409564	
		Parathion Ethyl	0.26	U	ng/L	P409564	
		Parathion Methyl	0.57	U	ng/L	P409564	
		Pendimethalin	1.0	U	ng/L	P409564	
		Phenytol**	3.6	U	ng/L	P409564	
		Phorate	0.54	U	ng/L	P409564	
		Prodiamine**	0.18	U	ng/L	P409564	
		Prometon	0.93	U	ng/L	P409564	
		Prometryn	0.21	U	ng/L	P409564	
		Pronamide**	0.15	U	ng/L	P409564	
		Propanil**	0.13	U	ng/L	P409564	
		Propargite**	1.5	U	ng/L	P409564	
		Propiconazole**	1.9	I	ng/L	P409564	
		Pyraflufen Ethyl**	0.26	U	ng/L	P409564	
		Pyridaben**	0.46	U	ng/L	P409564	
		Pyriproxyfen**	0.13	U	ng/L	P409564	
		Simazine	0.52	U	ng/L	P409564	
		Stirophos**	0.13	U	ng/L	P409564	
		Sulfentrazone**	0.52	U	ng/L	P409564	

Field ID: 20030681

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304437	EPA 8270E	Tebuconazole**	0.52	U	ng/L	P409564	MS
		Terbufos	0.10	U	ng/L	P409564	
		Terbuthylazine	0.44	U	ng/L	P409564	
		Thiobencarb**	0.62	U	ng/L	P409564	
		Triadimefon**	0.26	U	ng/L	P409564	
2304439	EPA 200.7 Rev. 4.4	Calcium	83.5		mg/L	P409654	
		Iron	1.0E+03		ug/L	P409654	
		Magnesium	34.0		mg/L	P409654	
		Potassium	5.5		mg/L	P409654	
		Sodium	132		mg/L	P409654	
		Strontium	2.08E+03		ug/L	P409654	
		Tin	6.0	U	ug/L	P409654	
		Titanium	1.8	I	ug/L	P409654	
		Vanadium	2.0	U	ug/L	P409654	
		Zinc	6.4	I	ug/L	P409654	
	EPA 200.8 Rev. 5.4	Aluminum	114		ug/L	P409654	
		Antimony	0.050	U	ug/L	P409654	
		Arsenic	0.44		ug/L	P409654	
		Barium	31.4		ug/L	P409654	
		Beryllium	0.049		ug/L	P409654	
		Boron**	48.1		ug/L	P409654	
		Cadmium	0.020	U	ug/L	P409654	
		Chromium	0.72	I	ug/L	P409654	
		Cobalt	0.188		ug/L	P409654	
		Copper	0.45	I	ug/L	P409654	
		Lead	0.20	U	ug/L	P409654	
		Manganese	47.3		ug/L	P409654	
		Molybdenum	0.15	U	ug/L	P409654	
		Nickel	0.61	I	ug/L	P409654	
		Selenium	0.20	U	ug/L	P409654	
		Silver	0.010	U	ug/L	P409654	
		Thallium	0.10	U	ug/L	P409654	
	SM 2340B	Hardness	349		mg/L	P409654	

Ref. Method and Comment:

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: Unnamed Ditch at Cowpen Branch Rd.

Collection Date/Time: 02/07/2022 13:45

Field ID: G2NE1222

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304432	EPA 8321B	2,4-D	0.030		ug/L	P409557	
		Acesulfame K	0.10	U	ug/L	P409584	
		2,4,5-T	0.0040	U	ug/L	P409557	
		AMPA	0.88		ug/L	P409584	
		Acetaminophen	0.0080	U	ug/L	P409557	
		Acetamiprid	0.0020	U	ug/L	P409557	
		Endothall	0.25	U	ug/L	P409584	
		Glufosinate	0.10	U	ug/L	P409584	
		Glyphosate	0.54		ug/L	P409584	
		Afidopyropen	0.0020	U	ug/L	P409557	
		Bentazon	0.0047		ug/L	P409557	
		Sucralose	0.14		ug/L	P409584	
		Benzovindiflupyr	0.0020	U	ug/L	P409557	
		Carbamazepine	8.0E-04	U	ug/L	P409557	
		Clothianidin	0.015		ug/L	P409557	
		Dinotefuran	0.0020	U	ug/L	P409557	
		Diuron	0.0020	U	ug/L	P409557	
		Fenuron	0.016	U	ug/L	P409557	
		Fluridone	8.0E-04	U	ug/L	P409557	
		Imazapyr	0.0040	U	ug/L	P409557	
		Hydrocodone	0.0020	U	ug/L	P409557	
		Ibuprofen	0.020	U	ug/L	P409557	RPD
		Imidacloprid	0.022		ug/L	P409557	
		Linuron	0.0040	U	ug/L	P409557	
		Mandestrobin	0.0020	U	ug/L	P409557	
		MCPP	0.0040	U	ug/L	P409557	
		Naproxen	0.0080	U	ug/L	P409557	
		Primidone	0.0040	U	ug/L	P409557	
		Pyraclostrobin	0.0020	U	ug/L	P409557	
		Silvex	0.0040	U	ug/L	P409557	MS
		Thiamethoxam	0.032		ug/L	P409557	
		Tolfenpyrad	0.0020	U	ug/L	P409557	
		Triclopyr	0.0040	U	ug/L	P409557	MS

Sample Location: Unnamed Ditch 250m upstream of Deep Cr.

Collection Date/Time: 02/07/2022 15:00

Field ID: G2NE1211

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2304433	EPA 8321B	Acesulfame K	0.10	U	ug/L	P409584	
		2,4-D	0.014		ug/L	P409557	
		AMPA	1.0	U	ug/L	P409584	
		2,4,5-T	0.0040	U	ug/L	P409557	
		Acetaminophen	0.0080	U	ug/L	P409557	
		Endothall	0.25	U	ug/L	P409584	
		Acetamiprid	0.0020	U	ug/L	P409557	
		Glufosinate	1.0	U	ug/L	P409584	
		Glyphosate	1.0	U	ug/L	P409584	
		Afidopyropen	0.0020	U	ug/L	P409557	
		Sucralose	0.010	U	ug/L	P409584	
		Bentazon	0.0011	I	ug/L	P409557	
		Benzovindiflupyr	0.0020	U	ug/L	P409557	
		Carbamazepine	8.0E-04	U	ug/L	P409557	
		Clothianidin	0.011		ug/L	P409557	
		Dinotefuran	0.0020	U	ug/L	P409557	
		Diuron	0.0020	U	ug/L	P409557	
		Fenuron	0.016	U	ug/L	P409557	
		Fluridone	8.0E-04	U	ug/L	P409557	
		Imazapyr	0.0040	U	ug/L	P409557	
		Hydrocodone	0.0020	U	ug/L	P409557	
		Ibuprofen	0.020	U	ug/L	P409557	RPD
		Imidacloprid	0.014		ug/L	P409557	
		Linuron	0.0040	U	ug/L	P409557	
		Mandestrobin	0.0020	U	ug/L	P409557	
		MCPP	0.0040	U	ug/L	P409557	
		Naproxen	0.0080	U	ug/L	P409557	
		Primidone	0.0040	U	ug/L	P409557	
		Pyraclostrobin	0.0020	U	ug/L	P409557	
		Silvex	0.0040	U	ug/L	P409557	MS
		Thiamethoxam	0.029		ug/L	P409557	
		Tolfenpyrad	0.0020	U	ug/L	P409557	
		Triclopyr	0.0040	U	ug/L	P409557	MS

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P409597

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409582

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409654

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409654

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409782

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409886

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409955

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409670

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409742

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409631

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409566

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/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
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409564

Component	Result	Code	Units
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409564

Component	Result	Code	Units
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
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
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409564

Component	Result	Code	Units
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
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P409586

Component	Result	Code	Units
Aldrin	0.65	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409586

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409586

Component	Result	Code	Units
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
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
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409586

Component	Result	Code	Units
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P409586

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: P409557

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

Reference Method: EPA 8321B

Batch ID: P409559

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P409559

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: P409584

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

Reference Method: SM 2320 B-2011

Batch ID: P409857

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

Reference Method: SM 2540 C-2011

Batch ID: P409978

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P409970

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011

Batch ID: P409860

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P410066

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P409597

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409582

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.5		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409654

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	108		P	85 - 115
Iron	108		P	85 - 115
Magnesium	108		P	85 - 115
Potassium	106		P	85 - 115
Sodium	105		P	85 - 115
Strontium	104		P	85 - 115
Tin	108		P	85 - 115
Titanium	106		P	85 - 115
Vanadium	97.9		P	85 - 115
Zinc	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409654

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	102		P	85 - 115
Barium	105		P	85 - 115
Beryllium	101		P	85 - 115
Boron	102		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	100		P	85 - 115
Cobalt	101		P	85 - 115
Copper	98.8		P	85 - 115
Lead	99.1		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	101		P	85 - 115
Selenium	101		P	85 - 115
Silver	101		P	85 - 115
Thallium	106		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409782

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409886

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409955

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409670

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409742

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409631

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409566

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

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
Avobenzone	161		P	50 - 200
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
Octinoxate	93.7		P	50 - 150
Oxadiazon	83.9		P	59 - 116
Oxybenzone	104		P	50 - 150
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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P409564

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pronamide	102		P	75 - 121
Propanil	92.3		P	45 - 150
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 8270E

Batch ID: P409586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	52.2		P	10 - 93.0
Alpha-BHC	90.3		P	75 - 106
Alpha-Chlordane	69.0		P	50 - 109
Beta-BHC	91.1		P	65 - 135
Beta-Cyfluthrin	98.2		P	23 - 167
Bifenthrin	55.5		P	11 - 123
Chlorothalonil	103		P	26 - 182
Cis-Nonachlor	68.6		P	40 - 111
Cypermethrin	84.7		P	25 - 155
Dacthal	88.0		P	73 - 112
DDD-p,p'	56.1		P	47 - 108
DDE-p,p'	66.4		P	48 - 107
DDT-p,p'	80.7		P	49 - 111
Delta-BHC	102		P	68 - 143
Deltamethrin	70.1		P	16 - 176
Dichlobenil	80.9		P	32 - 113
Dicofol	47.0		F	50 - 108
Dieldrin	70.5		P	56 - 110
Endosulfan I	75.2		P	60 - 105
Endosulfan II	70.9		P	50 - 120
Endosulfan Sulfate	88.5		P	55 - 121
Endrin	66.4		P	35 - 117
Endrin Aldehyde	58.2		P	36 - 116
Endrin Ketone	99.2		P	56 - 130
Esfenvalerate	86.1		P	10 - 179
Ethalfuralin	65.1		P	49 - 99.0
Fenpropathrin	64.5		P	35 - 119
Gamma-BHC	90.6		P	72 - 115
Gamma-Chlordane	69.1		P	45 - 107
Heptachlor	64.8		P	41 - 100
Heptachlor Epoxide	80.0		P	58 - 106
Hexachlorobenzene	73.9		P	39 - 100

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P409586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kepone	144		P	10 - 191
Lambda-Cyhalothrin	65.0		P	10 - 186
Methoprene	56.7		P	10 - 129
Methoxychlor	87.9		P	61 - 111
MGK-264	74.8		P	20 - 123
Mirex	46.3		P	10 - 182
Oxychlordane	76.6		P	39 - 110
PCB-1016	68.2		P	49 - 111
PCB-1260	80.5		P	42 - 116
Permethrin	137		P	26 - 152
Phenothrin	41.3		P	10 - 109
Piperonyl Butoxide	64.3		P	27 - 142
Prallethrin	66.5		P	14 - 109
Tau-Fluvalinate	64.0		P	16 - 134
Tetramethrin	67.8		P	10 - 125
Trans-Nonachlor	74.4		P	45 - 107
Triclosan Methyl	94.3		P	60 - 110
Trifluralin	59.9		P	49 - 98.0

Reference Method: EPA 8276

Batch ID: P409586

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	79.2		P	61 - 118
Toxaphene	65.8		P	51 - 122

Reference Method: EPA 8321B

Batch ID: P409557

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	86.8		P	40 - 150
2,4,5-T	63.9		P	40 - 150
Acetaminophen	62.7		P	30 - 150
Acetamiprid	83.8		P	40 - 150
Afidopyropen	49.6		P	40 - 150
Bentazon	83.1		P	30 - 150
Benzovindiflupyr	66.9		P	40 - 150
Carbamazepine	96.6		P	40 - 150
Clothianidin	81.7		P	40 - 150
Dinotefuran	98.9		P	40 - 150
Diuron	98.1		P	40 - 150
Fenuron	86.1		P	40 - 150
Fluridone	89.1		P	40 - 150
Hydrocodone	85.0		P	40 - 150
Ibuprofen	101		P	40 - 150
Imazapyr	101		P	40 - 150
Imidacloprid	79.8		P	40 - 150
Linuron	59.2		P	40 - 150
Mandestrobin	93.4		P	40 - 150
MCPP	102		P	40 - 150
Naproxen	64.8		P	40 - 150
Primidone	109		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P409557

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	70.6		P	40 - 150
Silvex	76.7		P	40 - 150
Thiamethoxam	103		P	40 - 150
Tolfenpyrad	40.4		P	30 - 150
Triclopyr	55.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P409559

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	97.2		P	40 - 150
Aldicarb	65.3		P	30 - 150
Aldicarb Sulfone	93.8		P	40 - 150
Aldicarb Sulfoxide	80.4		P	40 - 150
Carbaryl	89.8		P	40 - 150
Carbofuran	88.8		P	40 - 150
Methiocarb	105		P	40 - 150
Methomyl	87.9		P	40 - 150
Oxamyl	94.3		P	40 - 150
Propoxur	90.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P409584

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.4		P	40 - 150
AMPA	95.0		P	40 - 150
Endothall	61.7		P	40 - 150
Glufosinate	105		P	40 - 150
Glyphosate	92.5		P	40 - 150
Sucralose	90.3		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P409857

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.5		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P409860

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P410066

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P409654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304395	Calcium	108	94.8	P/P	80 - 120
2304395	Iron	105	101	P/P	80 - 120
2304395	Magnesium	105	100	P/P	80 - 120
2304395	Potassium	104	99.7	P/P	80 - 120
2304395	Sodium	99.8		P	80 - 120
2304395	Strontium	104	101	P/P	80 - 120
2304395	Tin	106	102	P/P	80 - 120
2304395	Titanium	106	102	P/P	80 - 120
2304395	Vanadium	99.3	96.0	P/P	80 - 120
2304395	Zinc	108	103	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304395	Aluminum	103	94.6	P/P	80 - 120
2304395	Antimony	104	95.4	P/P	80 - 120
2304395	Arsenic	104	96.1	P/P	80 - 120
2304395	Barium	106	98.5	P/P	80 - 120
2304395	Beryllium	98.4	90.8	P/P	80 - 120
2304395	Boron	105	96.4	P/P	80 - 120
2304395	Cadmium	103	94.0	P/P	80 - 120
2304395	Chromium	104	95.9	P/P	80 - 120
2304395	Cobalt	102	94.4	P/P	80 - 120
2304395	Copper	102	94.1	P/P	80 - 120
2304395	Lead	100	92.7	P/P	80 - 120
2304395	Manganese	104	94.1	P/P	80 - 120
2304395	Molybdenum	103	95.6	P/P	80 - 120
2304395	Nickel	104	94.6	P/P	80 - 120
2304395	Selenium	102	94.1	P/P	80 - 120
2304395	Silver	103	102	P/P	80 - 120
2304395	Thallium	109	102	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P409782

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304253	Sulfate	101		P	90 - 110
2304379	Sulfate	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P409886

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304626	Chloride	98.6		P	90 - 110
2304656	Chloride	99.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P409955

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304223	Ammonia-N	96.8	99.4	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P409670

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304254	Kjeldahl Nitrogen	93.5	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P409742

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304340	NO2NO3-N	97.0	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409631

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304486	Total-P	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409566

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304255	O-Phosphate-P	98.1	99.8	P/P	90 - 110

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	Avobenzone	163	143	P/P	50 - 200
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
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

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	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	Octinoxate	65.7	61.6	P/P	50 - 150
2303759	Oxadiazon	72.3	77.0	P/P	40 - 119
2303759	Oxybenzone	103	97.5	P/P	50 - 150
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	Phenytol	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
2303759	Terbuthylazine	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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P409586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303758	Aldrin	43.0	40.9	P/P	10 - 89.0
2303758	Alpha-BHC	88.2	87.9	P/P	71 - 105
2303758	Alpha-Chlordane	57.5	55.5	P/P	43 - 107
2303758	Beta-BHC	72.6	102	P/P	57 - 152
2303758	Beta-Cyfluthrin	107	82.4	P/P	29 - 186
2303758	Bifenthrin	67.4	49.8	P/P	19 - 119
2303758	Chlorothalonil	114	148	P/P	10 - 245
2303758	Cis-Nonachlor	57.9	50.7	P/P	36 - 110
2303758	Cypermethrin	111	82.2	P/P	24 - 169
2303758	Dacthal	89.9	83.9	P/P	62 - 115
2303758	DDD-p,p'	49.7	47.0	P/P	36 - 109
2303758	DDE-p,p'	53.4	46.6	P/P	30 - 114
2303758	DDT-p,p'	69.1	60.1	P/P	42 - 108
2303758	Delta-BHC	100	113	P/P	60 - 164
2303758	Deltamethrin	77.6	54.5	P/P	10 - 210
2303758	Dichlobenil	46.6	57.9	P/P	23 - 108
2303758	Dicofol	45.1	39.6	P/F	44 - 109
2303758	Dieldrin	61.6	57.5	P/P	37 - 119
2303758	Endosulfan I	64.9	63.9	P/P	52 - 105
2303758	Endosulfan II	62.5	65.9	P/P	35 - 127
2303758	Endosulfan Sulfate	88.0	96.1	P/P	39 - 130
2303758	Endrin	59.7	55.0	P/P	30 - 116
2303758	Endrin Aldehyde	48.2	52.1	P/P	20 - 110
2303758	Endrin Ketone	115	117	P/P	48 - 134
2303758	Esfenvalerate	127	80.2	P/P	10 - 199
2303758	Ethalfuralin	62.9	59.6	P/P	48 - 95.0
2303758	Fenpropathrin	85.0	57.4	P/P	37 - 121
2303758	Gamma-BHC	90.3	95.8	P/P	61 - 126
2303758	Gamma-Chlordane	59.8	55.7	P/P	39 - 105
2303758	Heptachlor	57.9	59.4	P/P	38 - 96.0
2303758	Heptachlor Epoxide	78.0	76.5	P/P	42 - 114
2303758	Hexachlorobenzene	65.7	57.2	P/P	39 - 93.0
2303758	Kepone	88.3	111	P/P	10 - 215
2303758	Lambda-Cyhalothrin	91.4	73.4	P/P	10 - 204
2303758	Methoprene	64.8	58.4	P/P	17 - 108
2303758	Methoxychlor	85.7	84.8	P/P	56 - 115
2303758	MGK-264	77.2	84.3	P/P	35 - 120
2303758	Mirex	47.6	38.6	P/P	10 - 178
2303758	Oxychlordane	86.7	79.9	P/P	47 - 91.0
2303758	Permethrin	181	159	F/P	27 - 170
2303758	Phenothrin	66.0	62.8	P/P	10 - 133
2303758	Piperonyl Butoxide	112	106	P/P	23 - 150
2303758	Prallethrin	67.9	68.3	P/P	21 - 113
2303758	Tau-Fluvalinate	100	64.0	P/P	16 - 158
2303758	Tetramethrin	82.7	89.7	P/P	22 - 132
2303758	Trans-Nonachlor	53.8	51.4	P/P	43 - 102
2303758	Triclosan Methyl	74.3	68.3	P/P	49 - 109
2303758	Trifluralin	55.1	52.6	P/P	48 - 93.0
2304434	PCB-1016	66.1	64.9	P/P	46 - 110
2304434	PCB-1260	78.6	80.8	P/P	42 - 111

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276

Batch ID: P409586

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304434	Chlordane	85.5	80.2	P/P	55 - 128
2304434	Toxaphene	87.6	80.6	P/P	57 - 211

Reference Method: EPA 8321B

Batch ID: P409557

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2303655	2,4-D	105	93.0	P/P	40 - 150
2303655	2,4,5-T	43.0	45.7	P/P	40 - 150
2303655	Acetaminophen	91.7	96.6	P/P	30 - 150
2303655	Acetamiprid	114	101	P/P	40 - 150
2303655	Afidopyropen	96.2	100	P/P	40 - 150
2303655	Bentazon	63.4	77.2	P/P	30 - 150
2303655	Benzovindiflupyr	95.6	78.2	P/P	40 - 150
2303655	Carbamazepine	115	114	P/P	40 - 150
2303655	Clothianidin	103	96.4	P/P	40 - 150
2303655	Dinotefuran	132	117	P/P	40 - 150
2303655	Diuron	99.9	76.3	P/P	40 - 150
2303655	Fenuron	90.5	95.4	P/P	40 - 150
2303655	Fluridone	91.1	104	P/P	40 - 150
2303655	Hydrocodone	98.9	98.6	P/P	40 - 150
2303655	Ibuprofen	121	85.4	P/P	40 - 150
2303655	Imazapyr	136	141	P/P	40 - 150
2303655	Imidacloprid	114	120	P/P	40 - 150
2303655	Linuron	69.8	71.9	P/P	40 - 150
2303655	Mandestrobin	91.3	105	P/P	40 - 150
2303655	MCP	118	104	P/P	40 - 150
2303655	Naproxen	71.5	85.6	P/P	40 - 150
2303655	Primidone	105	81.4	P/P	40 - 150
2303655	Pyraclostrobin	86.4	88.4	P/P	40 - 150
2303655	Silvex	38.8	44.0	F/P	40 - 150
2303655	Thiamethoxam	124	121	P/P	40 - 150
2303655	Tolfenpyrad	50.3	38.5	P/P	30 - 150
2303655	Triclopyr	48.9	37.5	P/F	40 - 150

Reference Method: EPA 8321B

Batch ID: P409559

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304428	3-Hydroxycarbofuran	109	85.0	P/P	40 - 150
2304428	Aldicarb	106	61.3	P/P	30 - 150
2304428	Aldicarb Sulfone	101	104	P/P	40 - 150
2304428	Aldicarb Sulfoxide	53.3	52.9	P/P	40 - 150
2304428	Carbaryl	82.8	70.0	P/P	40 - 150
2304428	Carbofuran	95.9	74.8	P/P	40 - 150
2304428	Methiocarb	103	76.8	P/P	40 - 150
2304428	Methomyl	93.1	76.6	P/P	40 - 150
2304428	Oxamyl	92.6	103	P/P	40 - 150
2304428	Propoxur	87.3	81.0	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P409584

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304429	Acesulfame K	97.0	98.2	P/P	40 - 150
2304429	AMPA	54.5	53.6	P/P	40 - 150
2304429	Endothall	89.1	89.8	P/P	40 - 150
2304429	Glufosinate	86.1	84.8	P/P	40 - 150
2304429	Glyphosate	70.3	64.7	P/P	40 - 150
2304429	Sucralose	91.1	94.3	P/P	40 - 150

Reference Method: SM 4500 F-C-2011
Batch ID: P409860

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304818	Fluoride	98.6	98.6	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P410066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304418	Organic Carbon	96.0	94.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P409597

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304339	Color (true)	0.109	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409582

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304417	Turbidity	2.13	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409654

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304395	Calcium	6.56	Spike	P	0 - 20
2304395	Iron	3.49	Spike	P	0 - 20
2304395	Magnesium	3.77	Spike	P	0 - 20
2304395	Potassium	3.08	Spike	P	0 - 20
2304395	Sodium	4.06	Spike	P	0 - 20
2304395	Strontium	3.30	Spike	P	0 - 20
2304395	Tin	3.80	Spike	P	0 - 20
2304395	Titanium	3.16	Spike	P	0 - 20
2304395	Vanadium	3.43	Spike	P	0 - 20
2304395	Zinc	3.87	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409654

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304395	Aluminum	6.41	Spike	P	0 - 20
2304395	Antimony	8.53	Spike	P	0 - 20
2304395	Arsenic	7.74	Spike	P	0 - 20
2304395	Barium	6.56	Spike	P	0 - 20
2304395	Beryllium	7.70	Spike	P	0 - 20
2304395	Boron	7.32	Spike	P	0 - 20
2304395	Cadmium	9.16	Spike	P	0 - 20
2304395	Chromium	8.27	Spike	P	0 - 20
2304395	Cobalt	8.19	Spike	P	0 - 20
2304395	Copper	8.30	Spike	P	0 - 20
2304395	Lead	7.69	Spike	P	0 - 20
2304395	Manganese	8.14	Spike	P	0 - 20
2304395	Molybdenum	7.72	Spike	P	0 - 20
2304395	Nickel	9.04	Spike	P	0 - 20
2304395	Selenium	8.24	Spike	P	0 - 20
2304395	Silver	1.27	Spike	P	0 - 20
2304395	Thallium	6.73	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304253	Sulfate	0.537	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409886

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304626	Chloride	1.51	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409955

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304223	Ammonia-N	2.10	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409670

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304254	Kjeldahl Nitrogen	6.35	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409742

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304340	NO2NO3-N	0.514	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304486	Total-P	0.419	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409566

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304255	O-Phosphate-P	1.48	Spike	P	0 - 20

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

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	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	Avobenzone	12.8	Spike	P	0 - 30
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
2303759	Myclobutanil	4.12	Spike	P	0 - 21

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	Naled	12.2	Spike	P	0 - 26
2303759	Napropamide	5.13	Spike	P	0 - 30
2303759	Norflurazon	5.09	Spike	P	0 - 24
2303759	Octinoxate	4.62	Spike	P	0 - 30
2303759	Oxadiazon	5.54	Spike	P	0 - 27
2303759	Oxybenzone	5.10	Spike	P	0 - 30
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 8270E
Batch ID: P409586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303758	Aldrin	5.06	Spike	P	0 - 37
2303758	Alpha-BHC	0.289	Spike	P	0 - 16
2303758	Alpha-Chlordane	3.43	Spike	P	0 - 28
2303758	Beta-BHC	33.5	Spike	F	0 - 32
2303758	Beta-Cyfluthrin	26.1	Spike	P	0 - 41
2303758	Bifenthrin	30.0	Spike	P	0 - 36
2303758	Chlorothalonil	26.0	Spike	P	0 - 54
2303758	Cis-Nonachlor	13.3	Spike	P	0 - 33
2303758	Cypermethrin	29.3	Spike	P	0 - 38
2303758	Dacthal	6.91	Spike	P	0 - 23
2303758	DDD-p,p'	5.45	Spike	P	0 - 35
2303758	DDE-p,p'	13.7	Spike	P	0 - 27
2303758	DDT-p,p'	13.9	Spike	P	0 - 31
2303758	Delta-BHC	12.2	Spike	P	0 - 30
2303758	Deltamethrin	34.9	Spike	P	0 - 76

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P409586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303758	Dichlobenil	21.8	Spike	P	0 - 33
2303758	Dicofol	12.9	Spike	P	0 - 24
2303758	Dieldrin	6.86	Spike	P	0 - 35
2303758	Endosulfan I	1.59	Spike	P	0 - 25
2303758	Endosulfan II	5.24	Spike	P	0 - 31
2303758	Endosulfan Sulfate	8.82	Spike	P	0 - 38
2303758	Endrin	8.15	Spike	P	0 - 53
2303758	Endrin Aldehyde	7.84	Spike	P	0 - 81
2303758	Endrin Ketone	2.09	Spike	P	0 - 33
2303758	Esfenvalerate	45.2	Spike	P	0 - 46
2303758	Ethalfuralin	5.46	Spike	P	0 - 22
2303758	Fenpropathrin	38.7	Spike	F	0 - 29
2303758	Gamma-BHC	5.96	Spike	P	0 - 17
2303758	Gamma-Chlordane	7.06	Spike	P	0 - 28
2303758	Heptachlor	2.45	Spike	P	0 - 28
2303758	Heptachlor Epoxide	1.96	Spike	P	0 - 23
2303758	Hexachlorobenzene	13.9	Spike	P	0 - 22
2303758	Kepone	22.9	Spike	P	0 - 61
2303758	Lambda-Cyhalothrin	21.8	Spike	P	0 - 52
2303758	Methoprene	10.2	Spike	P	0 - 38
2303758	Methoxychlor	1.04	Spike	P	0 - 29
2303758	MGK-264	8.76	Spike	P	0 - 41
2303758	Mirex	20.9	Spike	P	0 - 39
2303758	Oxychlordane	8.21	Spike	P	0 - 33
2303758	Permethrin	12.7	Spike	P	0 - 39
2303758	Phenothrin	5.02	Spike	P	0 - 52
2303758	Piperonyl Butoxide	5.28	Spike	P	0 - 91
2303758	Prallethrin	0.514	Spike	P	0 - 34
2303758	Tau-Fluvalinate	44.4	Spike	F	0 - 41
2303758	Tetramethrin	8.15	Spike	P	0 - 43
2303758	Trans-Nonachlor	4.62	Spike	P	0 - 31
2303758	Triclosan Methyl	8.49	Spike	P	0 - 24
2303758	Trifluralin	4.64	Spike	P	0 - 23
2304434	PCB-1016	1.86	Spike	P	0 - 22
2304434	PCB-1260	2.75	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P409586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304434	Chlordane	6.43	Spike	P	0 - 25
2304434	Toxaphene	8.41	Spike	P	0 - 24

Reference Method: EPA 8321B

Batch ID: P409557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303655	2,4-D	11.7	Spike	P	0 - 30
2303655	2,4,5-T	6.20	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P409557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2303655	Acetaminophen	5.18	Spike	P	0 - 30
2303655	Acetamiprid	12.8	Spike	P	0 - 30
2303655	Afidopyropen	4.19	Spike	P	0 - 30
2303655	Bentazon	11.3	Spike	P	0 - 30
2303655	Benzovindiflupyr	20.0	Spike	P	0 - 30
2303655	Carbamazepine	0.304	Spike	P	0 - 30
2303655	Clothianidin	6.40	Spike	P	0 - 30
2303655	Dinotefuran	12.2	Spike	P	0 - 30
2303655	Diuron	25.2	Spike	P	0 - 30
2303655	Fenuron	5.28	Spike	P	0 - 30
2303655	Fluridone	12.6	Spike	P	0 - 30
2303655	Hydrocodone	0.229	Spike	P	0 - 30
2303655	Ibuprofen	34.6	Spike	F	0 - 30
2303655	Imazapyr	3.09	Spike	P	0 - 30
2303655	Imidacloprid	5.12	Spike	P	0 - 30
2303655	Linuron	2.95	Spike	P	0 - 30
2303655	Mandestrobin	13.7	Spike	P	0 - 30
2303655	MCP	12.4	Spike	P	0 - 30
2303655	Naproxen	18.0	Spike	P	0 - 30
2303655	Primidone	25.0	Spike	P	0 - 30
2303655	Pyraclostrobin	2.21	Spike	P	0 - 30
2303655	Silvex	12.8	Spike	P	0 - 30
2303655	Thiamethoxam	2.62	Spike	P	0 - 30
2303655	Tolfenpyrad	26.5	Spike	P	0 - 30
2303655	Triclopyr	26.3	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P409559

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304428	3-Hydroxycarbofuran	24.7	Spike	P	0 - 30
2304428	Aldicarb	53.1	Spike	F	0 - 30
2304428	Aldicarb Sulfone	2.54	Spike	P	0 - 30
2304428	Aldicarb Sulfoxide	0.648	Spike	P	0 - 30
2304428	Carbaryl	16.8	Spike	P	0 - 30
2304428	Carbofuran	24.8	Spike	P	0 - 30
2304428	Methiocarb	29.5	Spike	P	0 - 30
2304428	Methomyl	19.4	Spike	P	0 - 30
2304428	Oxamyl	10.4	Spike	P	0 - 30
2304428	Propoxur	7.51	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P409584

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304429	Acesulfame K	1.24	Spike	P	0 - 30
2304429	AMPA	1.44	Spike	P	0 - 30
2304429	Endothall	0.718	Spike	P	0 - 30
2304429	Glufosinate	1.54	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P409584

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304429	Glyphosate	6.98	Spike	P	0 - 30
2304429	Sucralose	3.29	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P409857

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304818	Total Alkalinity	0.689	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P409978

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304253	TDS	6.70	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P409860

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304818	Fluoride	0.0	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304418	Organic Carbon	0.604	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2304428
Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	78.3	P	30 - 160

Lab Sample ID: 2304429
Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	108	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	153	P	30 - 160
EPA 8321B	Diuron-d6	88.2	P	30 - 160
EPA 8321B	Endothall-d6	68.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Ibuprofen-d3	74.8	P	30 - 160
EPA 8321B	Primidone-d5	98.0	P	30 - 160
EPA 8321B	Sucralose-d6	90.0	P	30 - 160

Lab Sample ID: 2304430
Field Sample ID: 20030681

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	90.6	P	30 - 160

Lab Sample ID: 2304431
Field Sample ID: 20030681

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	160	P	30 - 160
EPA 8321B	Acetaminophen-d4	121	P	30 - 160
EPA 8321B	Carbamazepine-d10	122	P	30 - 160
EPA 8321B	Diuron-d6	79.9	P	30 - 160
EPA 8321B	Endothall-d6	100	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	61.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	106	P	30 - 160
EPA 8321B	Primidone-d5	149	P	30 - 160
EPA 8321B	Sucralose-d6	91.5	P	30 - 160

Lab Sample ID: 2304432
Field Sample ID: G2NE1222

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	79.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	90.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	115	P	30 - 160
EPA 8321B	Diuron-d6	85.5	P	30 - 160
EPA 8321B	Endothall-d6	84.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	73.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	76.5	P	30 - 160
EPA 8321B	Primidone-d5	148	P	30 - 160
EPA 8321B	Sucralose-d6	87.4	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2304433
Field Sample ID: G2NE1211

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	132	P	30 - 160
EPA 8321B	Acetaminophen-d4	102	P	30 - 160
EPA 8321B	Carbamazepine-d10	142	P	30 - 160
EPA 8321B	Diuron-d6	102	P	30 - 160
EPA 8321B	Endothall-d6	86.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	99.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	90.5	P	30 - 160
EPA 8321B	Primidone-d5	89.8	P	30 - 160
EPA 8321B	Sucralose-d6	85.8	P	30 - 160

Lab Sample ID: 2304434
Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	76.6	P	38 - 115
EPA 8270E	Decachlorobiphenyl	61.6	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	60.4	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	59.0	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	65.6	P	30 - 97.0
EPA 8276	PCNB	71.3	P	45 - 119

Lab Sample ID: 2304435
Field Sample ID: 20030577

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	74.2	P	20 - 200
EPA 8270E	Simazine-d10	118	P	71 - 140
EPA 8270E	Terbufos-d10	109	P	62 - 131

Lab Sample ID: 2304436
Field Sample ID: 20030681

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	73.0	P	38 - 115
EPA 8270E	Decachlorobiphenyl	56.1	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	56.3	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	55.6	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	59.6	P	30 - 97.0
EPA 8276	PCNB	71.6	P	45 - 119

Lab Sample ID: 2304437
Field Sample ID: 20030681

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	81.2	P	20 - 200
EPA 8270E	Simazine-d10	122	P	71 - 140
EPA 8270E	Terbufos-d10	119	P	62 - 131
EPA 8270E	Terphenyl-d14	96.8	P	55 - 108

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110286

Included Lab Sample IDs: 2304419

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110291

Included Lab Sample IDs: 2304417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	98.5	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A110296

Included Lab Sample IDs: 2304417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	101	P/P	85 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110358

Included Lab Sample IDs: 2304418

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110359

Included Lab Sample IDs: 2304418

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	105	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110370

Included Lab Sample IDs: 2304417

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

Reference Method: EPA 8270E

Run ID: A110373

Included Lab Sample IDs: 2304435, 2304437

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
Bromacil	106		P	80 - 120
Butylate	99.3		P	80 - 120
Caffeine	86.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110373

Included Lab Sample IDs: 2304435, 2304437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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
Dimethenamid	104		P	80 - 120
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
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
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
Metaxyl	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
Phenytoin	99.4		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	95.8		P	80 - 120
Prometon	97.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110373

Included Lab Sample IDs: 2304435, 2304437

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

Reference Method: EPA 8276

Run ID: A110376

Included Lab Sample IDs: 2304434, 2304436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.5		P	80 - 120
Chlordane	98.1		P	80 - 120
Toxaphene	107		P	80 - 120
Toxaphene	98.2		P	80 - 120

Reference Method: EPA 8321B

Run ID: A110380

Included Lab Sample IDs: 2304429, 2304431, 2304432, 2304433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.3	113	P/P	50 - 150
2,4,5-T	119	149	P/P	50 - 150
3-Hydroxycarbofuran	112	109	P/P	60 - 150
Acetaminophen	97.2	114	P/P	60 - 160
Acetamiprid	111	108	P/P	50 - 150
Afidopyropen	102	121	P/P	50 - 150
Aldicarb	87.7	123	P/P	60 - 150
Aldicarb Sulfone	106	105	P/P	50 - 150
Aldicarb Sulfoxide	99.9	104	P/P	50 - 150
Bentazon	98.2	103	P/P	50 - 160
Benzovindiflupyr	77.8	94.8	P/P	50 - 150
Carbamazepine	98.0	116	P/P	60 - 150
Carbaryl	122	104	P/P	60 - 150
Carbofuran	123	105	P/P	50 - 150
Clothianidin	111	113	P/P	60 - 150
Dinotefuran	99.8	114	P/P	50 - 150
Diuron	110	112	P/P	60 - 160
Fenuron	89.1	113	P/P	60 - 150
Fluridone	108	119	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A110380

Included Lab Sample IDs: 2304429, 2304431, 2304432, 2304433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hydrocodone	96.9	102	P/P	60 - 150
Ibuprofen	135	112	P/P	50 - 160
Imazapyr	106	108	P/P	50 - 150
Imidacloprid	115	107	P/P	60 - 150
Linuron	81.0	126	P/P	60 - 150
Mandestrobin	119	121	P/P	50 - 150
MCPP	95.5	112	P/P	50 - 150
Methiocarb	118	131	P/P	50 - 150
Methomyl	89.6	88.7	P/P	50 - 150
Naproxen	69.6	55.1	P/P	50 - 160
Oxamyl	109	95.6	P/P	50 - 150
Primidone	107	99.8	P/P	60 - 150
Propoxur	123	110	P/P	50 - 150
Pyraclostrobin	120	143	P/P	60 - 150
Silvex	104	143	P/P	50 - 150
Thiamethoxam	102	114	P/P	50 - 150
Tolfenpyrad	94.9	138	P/P	60 - 150
Triclopyr	99.5	139	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A110387

Included Lab Sample IDs: 2304429, 2304431, 2304432, 2304433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	95.6	97.1	P/P	60 - 160
AMPA	97.2	99.2	P/P	60 - 160
Glufosinate	103	98.6	P/P	60 - 160
Glufosinate	105	104	P/P	60 - 160
Glyphosate	94.4	96.1	P/P	60 - 160
Glyphosate	95.7	95.4	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A110393

Included Lab Sample IDs: 2304429, 2304431, 2304432, 2304433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	89.1	88.9	P/P	60 - 160
Endothall	73.6	72.6	P/P	60 - 160
Sucralose	82.6	82.0	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110397

Included Lab Sample IDs: 2304438, 2304439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	102	P/P	90 - 110
Antimony	99.1	98.4	P/P	90 - 110
Arsenic	102	102	P/P	90 - 110
Barium	102	101	P/P	90 - 110
Beryllium	98.0	98.8	P/P	90 - 110
Boron	101	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110397

Included Lab Sample IDs: 2304438, 2304439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cadmium	102	100	P/P	90 - 110
Chromium	102	101	P/P	90 - 110
Cobalt	101	101	P/P	90 - 110
Copper	102	101	P/P	90 - 110
Lead	97.2	96.6	P/P	90 - 110
Manganese	102	101	P/P	90 - 110
Molybdenum	102	99.8	P/P	90 - 110
Nickel	102	101	P/P	90 - 110
Selenium	102	99.9	P/P	90 - 110
Silver	94.8	93.1	P/P	90 - 110
Thallium	105	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110402

Included Lab Sample IDs: 2304418

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.5	98.8	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110406

Included Lab Sample IDs: 2304434, 2304436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	110		P	80 - 120
PCB-1260	111		P	80 - 120

Reference Method: EPA 8270E

Run ID: A110407

Included Lab Sample IDs: 2304434, 2304436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	94.5		P	80 - 120
Alpha-BHC	113		P	80 - 120
Alpha-Chlordane	96.1		P	80 - 120
Beta-BHC	89.4		P	80 - 120
Beta-Cyfluthrin	92.3		P	80 - 120
Bifenthrin	84.1		P	80 - 120
Chlorothalonil	110		P	80 - 120
Cis-Nonachlor	99.4		P	80 - 120
Cypermethrin	90.2		P	80 - 120
Dacthal	93.1		P	80 - 120
DDD-p,p'	93.2		P	80 - 120
DDE-p,p'	92.2		P	80 - 120
DDT-p,p'	104		P	80 - 120
Delta-BHC	106		P	80 - 120
Deltamethrin	82.0		P	80 - 120
Dichlobenil	100		P	80 - 120
Dicofol	66.9*		F	80 - 120
Dieldrin	96.3		P	80 - 120
Endosulfan I	97.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110407

Included Lab Sample IDs: 2304434, 2304436

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endosulfan II	94.6		P	80 - 120
Endosulfan Sulfate	92.8		P	80 - 120
Endrin	95.8		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	88.9		P	80 - 120
Esfenvalerate	93.1		P	80 - 120
Ethalfuralin	99.2		P	80 - 120
Fenpropathrin	77.1*		F	80 - 120
Gamma-BHC	113		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	103		P	80 - 120
Heptachlor Epoxide	98.3		P	80 - 120
Hexachlorobenzene	106		P	80 - 120
Kepone	82.5		P	80 - 120
Lambda-Cyhalothrin	82.7		P	80 - 120
Methoprene	96.5		P	80 - 120
Methoxychlor	92.7		P	80 - 120
MGK-264	91.5		P	80 - 120
Mirex	89.5		P	80 - 120
Oxychlordane	104		P	80 - 120
Permethrin	90.1		P	80 - 120
Phenothrin	80.0		P	80 - 120
Piperonyl Butoxide	71.6*		F	80 - 120
Prallethrin	93.5		P	80 - 120
Tau-Fluvalinate	82.8		P	80 - 120
Tetramethrin	81.4		P	80 - 120
Trans-Nonachlor	106		P	80 - 120
Triclosan Methyl	99.2		P	80 - 120
Trifluralin	90.5		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A110414

Included Lab Sample IDs: 2304417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.7	94.8	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110414

Included Lab Sample IDs: 2304417

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110423

Included Lab Sample IDs: 2304417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.4	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110426

Included Lab Sample IDs: 2304438, 2304439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.5	101	P/P	90 - 110
Iron	100	102	P/P	90 - 110
Magnesium	99.0	101	P/P	90 - 110
Potassium	98.4	99.8	P/P	90 - 110
Sodium	100	102	P/P	90 - 110
Strontium	102	103	P/P	90 - 110
Tin	102	102	P/P	90 - 110
Titanium	99.8	101	P/P	90 - 110
Vanadium	101	103	P/P	90 - 110
Zinc	101	103	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110428

Included Lab Sample IDs: 2304437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	95.8		P	80 - 120
Octinoxate	100		P	80 - 120
Oxybenzone	95.3		P	80 - 120

Reference Method: EPA 8270E

Run ID: A110429

Included Lab Sample IDs: 2304435, 2304437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azoxystrobin	103		P	80 - 120
Difenoconazole	104		P	80 - 120
Ethoprop	102		P	80 - 120
Fluxapyroxad	99.4		P	80 - 120

Reference Method: EPA 8270E

Run ID: A110431

Included Lab Sample IDs: 2304435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azoxystrobin	108		P	80 - 120
Difenoconazole	83.9		P	80 - 120
Fluxapyroxad	66.8*		F	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110454

Included Lab Sample IDs: 2304418

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	98.5	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A110496

Included Lab Sample IDs: 2304418

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

Reference Method: SM 5310 B-2011

Run ID: A110496

Included Lab Sample IDs: 2304418

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.7	96.2	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110528

Included Lab Sample IDs: 2304439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tin	102	101	P/P	95 - 105

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	99.2				0.109	
EPA 180.1 Rev. 2.0	Turbidity	96.5				2.13	
EPA 200.7 Rev. 4.4	Calcium	108	108	94.8			6.56
	Iron	108	105	101			3.49
	Magnesium	108	105	100			3.77
	Potassium	106	104	99.7			3.08
	Sodium	105	99.8				4.06
	Strontium	104	104	101			3.30
	Tin	108	106	102			3.80
	Titanium	106	106	102			3.16
	Vanadium	97.9	99.3	96.0			3.43
	Zinc	105	108	103			3.87
EPA 200.8 Rev. 5.4	Aluminum	101	103	94.6			6.41
	Antimony	102	104	95.4			8.53
	Arsenic	102	104	96.1			7.74
	Barium	105	106	98.5			6.56
	Beryllium	101	98.4	90.8			7.70
	Boron	102	105	96.4			7.32
	Cadmium	101	103	94.0			9.16
	Chromium	100	104	95.9			8.27
	Cobalt	101	102	94.4			8.19
	Copper	98.8	102	94.1			8.30
	Lead	99.1	100	92.7			7.69
	Manganese	101	104	94.1			8.14
	Molybdenum	101	103	95.6			7.72
	Nickel	101	104	94.6			9.04
	Selenium	101	102	94.1			8.24
	Silver	101	103	102			1.27
	Thallium	106	109	102			6.73
EPA 300.0 Rev. 2.1	Chloride	98.5	98.6	99.5		1.51	
	Sulfate	106	101	102		0.537	
EPA 350.1 Rev. 2.0	Ammonia-N	103	96.8	99.4			2.10
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.0	93.5	101			6.35
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	97.0	97.5			0.514
EPA 365.1 Rev. 2.0	Total-P	104	104	104			0.419
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.4	98.1	99.8			1.48
EPA 8270E	Acetochlor	106	103	113			9.10
	Alachlor	95.5	93.5	98.8			5.53
	Aldrin	52.2	43.0	40.9			5.06
	Alpha-BHC	90.3	88.2	87.9			0.289
	Alpha-Chlordane	69.0	57.5	55.5			3.43
	Ametryn	115	116	114			0.547
	Atrazine	105					15.8
	Atrazine Desethyl	78.4	74.9	74.2			0.428
	Avobenzone	161	143	163			12.8
	Azinphos Methyl	75.5	73.1	80.2			9.24
	Azoxystrobin	96.7	99.5	103			2.65
	Beta-BHC	91.1	72.6	102			33.5
	Beta-Cyfluthrin	98.2	107	82.4			26.1
	Bifenthrin	55.5	67.4	49.8			30.0
	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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Carfentrazone Ethyl	122	131	135			3.06
	Chlorfenapyr	94.3	86.1	88.8			3.11
	Chlorothalonil	103	114	148			26.0
	Chlorpyrifos Ethyl	104	99.2	113			13.2
	Chlorpyrifos Methyl	109	102	108			5.52
	Cis-Nonachlor	68.6	57.9	50.7			13.3
	Coumaphos	164	171	178			4.18
	Cyanazine	144	134	133			0.963
	Cypermethrin	84.7	111	82.2			29.3
	Cyprodinil	129	116	123			5.34
	Dacthal	88.0	89.9	83.9			6.91
	DDD-p,p'	56.1	49.7	47.0			5.45
	DDE-p,p'	66.4	53.4	46.6			13.7
	DDT-p,p'	80.7	69.1	60.1			13.9
	Delta-BHC	102	100	113			12.2
	Deltamethrin	70.1	77.6	54.5			34.9
	Demeton	88.4	107	114			6.18
	Diazinon	108	107	115			6.88
	Dichlobenil	80.9	46.6	57.9			21.8
	Dicofol	47.0	45.1	39.6			12.9
	Dieldrin	70.5	61.6	57.5			6.86
	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	75.2	64.9	63.9			1.59
	Endosulfan II	70.9	62.5	65.9			5.24
	Endosulfan Sulfate	88.5	88.0	96.1			8.82
	Endrin	66.4	59.7	55.0			8.15
	Endrin Aldehyde	58.2	48.2	52.1			7.84
	Endrin Ketone	99.2	115	117			2.09
	EPTC	60.7	37.0	47.5			25.0
	Esfenvalerate	86.1	127	80.2			45.2
	Ethalfuralin	65.1	62.9	59.6			5.46
	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	64.5	85.0	57.4			38.7
	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	90.6	90.3	95.8			5.96
	Gamma-Chlordane	69.1	59.8	55.7			7.06
	Heptachlor	64.8	57.9	59.4			2.45

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Heptachlor Epoxide	80.0	78.0	76.5			1.96
	Hexachlorobenzene	73.9	65.7	57.2			13.9
	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	144	88.3	111			22.9
	Lambda-Cyhalothrin	65.0	91.4	73.4			21.8
	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	56.7	64.8	58.4			10.2
	Methoxychlor	87.9	85.7	84.8			1.04
	Metolachlor	102	94.3	103			8.15
	Metribuzin	101	94.5	101			6.31
	Mevinphos	102	98.3	107			8.36
	MGK-264	74.8	77.2	84.3			8.76
	Mirex	46.3	47.6	38.6			20.9
	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
	Octinoxate	93.7	61.6	65.7			4.62
	Oxadiazon	83.9	72.3	77.0			5.54
	Oxybenzone	104	97.5	103			5.10
	Oxychlordane	76.6	86.7	79.9			8.21
	Oxyfluorfen	86.5	105	116			10.2
	Parathion Ethyl	100	92.8	101			8.47
	Parathion Methyl	120	121	123			1.54
	PCB-1016	68.2	66.1	64.9			1.86
	PCB-1260	80.5	78.6	80.8			2.75
	Pendimethalin	66.1	80.4	86.2			6.91
	Permethrin	137	181	159			12.7
	Phenothrin	41.3	66.0	62.8			5.02
	Phenytoin	130	137	141			3.10
	Phorate	89.9	106	116			8.94
	Piperonyl Butoxide	64.3	112	106			5.28
	Prallethrin	66.5	67.9	68.3			0.514
	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	64.0	100	64.0			44.4
	Tebuconazole	67.9	133	143			6.63
	Terbufos	117	123	130			6.00

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Terbutylazine	98.8	102	106			3.40
	Tetramethrin	67.8	82.7	89.7			8.15
	Thiobencarb	94.3	89.7	96.6			7.48
	Trans-Nonachlor	74.4	53.8	51.4			4.62
	Triadimefon	87.7	83.2	103			16.6
	Triclosan Methyl	94.3	74.3	68.3			8.49
	Trifluralin	59.9	55.1	52.6			4.64
EPA 8276	Chlordane	79.2	85.5	80.2			6.43
	Toxaphene	65.8	87.6	80.6			8.41
EPA 8321B	2,4-D	86.8	105	93.0			11.7
	2,4,5-T	63.9	43.0	45.7			6.20
	3-Hydroxycarbofuran	97.2	109	85.0			24.7
	Acesulfame K	95.4	97.0	98.2			1.24
	Acetaminophen	62.7	91.7	96.6			5.18
	Acetamiprid	83.8	114	101			12.8
	Afidopyropen	49.6	96.2	100			4.19
	Aldicarb	65.3	106	61.3			53.1
	Aldicarb Sulfone	93.8	101	104			2.54
	Aldicarb Sulfoxide	80.4	53.3	52.9			0.648
	AMPA	95.0	54.5	53.6			1.44
	Bentazon	83.1	63.4	77.2			11.3
	Benzovindiflupyr	66.9	95.6	78.2			20.0
	Carbamazepine	96.6	115	114			0.304
	Carbaryl	89.8	82.8	70.0			16.8
	Carbofuran	88.8	95.9	74.8			24.8
	Clothianidin	81.7	103	96.4			6.40
	Dinotefuran	98.9	132	117			12.2
	Diuron	98.1	99.9	76.3			25.2
	Endothall	61.7	89.1	89.8			0.718
	Fenuron	86.1	90.5	95.4			5.28
	Fluridone	89.1	91.1	104			12.6
	Glufosinate	105	86.1	84.8			1.54
	Glyphosate	92.5	70.3	64.7			6.98
	Hydrocodone	85.0	98.9	98.6			0.229
	Ibuprofen	101	121	85.4			34.6
	Imazapyr	101	136	141			3.09
	Imidacloprid	79.8	114	120			5.12
	Linuron	59.2	69.8	71.9			2.95
	Mandestrobin	93.4	91.3	105			13.7
	MCPP	102	118	104			12.4
	Methiocarb	105	103	76.8			29.5
	Methomyl	87.9	93.1	76.6			19.4
	Naproxen	64.8	71.5	85.6			18.0
	Oxamyl	94.3	92.6	103			10.4
	Primidone	109	105	81.4			25.0
	Propoxur	90.5	87.3	81.0			7.51
	Pyraclostrobin	70.6	86.4	88.4			2.21
	Silvex	76.7	38.8	44.0			12.8
	Sucralose	90.3	91.1	94.3			3.29
	Thiamethoxam	103	124	121			2.62
	Tolfenpyrad	40.4	50.3	38.5			26.5
	Triclopyr	55.8	48.9	37.5			26.3
SM 2320 B-2011	Total Alkalinity	99.5				0.689	
SM 2540 C-2011	TDS					6.70	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 4500 F-C-2011	Fluoride	98.2	98.6	98.6		0.0
SM 5310 B-2011	Organic Carbon	94.5	96.0	94.8		0.604

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2304417
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2304417
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2304438, 2304439
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2304438, 2304439
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2304417
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2304417
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2304418
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2304418
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2304418
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2304418
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2304419
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2304437
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2304434, 2304436
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2304435, 2304437
EPA 8270E	PCBs in water matrices by GC/MS/MS	2304434, 2304436
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2304434, 2304436
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2304428, 2304430
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2304429, 2304431, 2304432, 2304433
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2304417
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2304438, 2304439
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2304417
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2304417
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2304417
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2304418

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	02/08/2022			02/08/2022 16:35	Anna M. Plaviak	2304417
EPA 180.1 Rev. 2.0	02/08/2022			02/08/2022 15:16	Khloe J Berg	2304417
EPA 200.7 Rev. 4.4	02/08/2022	02/10/2022 10:51	Megan Whitefoot	02/15/2022 23:54	Josef B Mick	2304438
	02/08/2022	02/10/2022 10:51	Megan Whitefoot	02/16/2022 00:02	Josef B Mick	2304439
	02/08/2022	02/10/2022 10:51	Megan Whitefoot	02/21/2022 13:56	Josef B Mick	2304439
EPA 200.8 Rev. 5.4	02/08/2022	02/10/2022 10:51	Megan Whitefoot	02/11/2022 20:47	Alexander Thompson	2304438
	02/08/2022	02/10/2022 10:51	Megan Whitefoot	02/11/2022 20:57	Alexander Thompson	2304439
EPA 300.0 Rev. 2.1	02/08/2022			02/12/2022 04:20	James L Waggeberby	2304417
	02/08/2022			02/15/2022 14:46	James L Waggeberby	2304417
EPA 350.1 Rev. 2.0	02/08/2022			02/16/2022 15:36	Ping Hua	2304418
EPA 351.2 Rev. 2.0	02/08/2022	02/11/2022 10:44	Alexandra J Mattheus	02/14/2022 18:03	Alexandra J Mattheus	2304418
EPA 353.2 Rev. 2.0	02/08/2022			02/11/2022 10:12	Beverly Y. Sanders	2304418
EPA 365.1 Rev. 2.0	02/08/2022	02/10/2022 14:00	Simonne.V. Calhoun	02/11/2022 12:24	Shengyu Ding	2304418
EPA 365.1 Rev. 2.0 dissolved	02/08/2022			02/08/2022 14:22	James L Waggeberby	2304419
EPA 8270E	02/08/2022	02/09/2022 08:00	Fe-Val Siddell	02/14/2022 22:28	Julie Wi	2304434
	02/08/2022	02/09/2022 08:00	Fe-Val Siddell	02/14/2022 23:27	Julie Wi	2304436
	02/08/2022	02/09/2022 08:00	Fe-Val Siddell	02/15/2022 03:54	Vandana T. Nagar	2304434
	02/08/2022	02/09/2022 08:00	Fe-Val Siddell	02/15/2022 04:23	Vandana T. Nagar	2304436
	02/08/2022	02/09/2022 08:00	Rasheda Ghaffari	02/11/2022 18:16	Michael Poppell	2304435
	02/08/2022	02/09/2022 08:00	Rasheda Ghaffari	02/11/2022 18:42	Michael Poppell	2304437
	02/08/2022	02/09/2022 08:00	Rasheda Ghaffari	02/12/2022 05:53	Lipi Saha	2304437
	02/08/2022	02/09/2022 08:00	Rasheda Ghaffari	02/12/2022 19:25	Michael Poppell	2304435
	02/08/2022	02/09/2022 08:00	Rasheda Ghaffari	02/12/2022 20:39	Michael Poppell	2304437
	02/08/2022	02/09/2022 08:00	Rasheda Ghaffari	02/12/2022 21:04	Michael Poppell	2304437
	02/08/2022	02/09/2022 08:00	Rasheda Ghaffari	02/13/2022 12:27	Michael Poppell	2304435
EPA 8276	02/08/2022	02/09/2022 08:00	Fe-Val Siddell	02/11/2022 08:16	Arthur Maknenko	2304434
	02/08/2022	02/09/2022 08:00	Fe-Val Siddell	02/11/2022 14:44	Arthur Maknenko	2304436
EPA 8321B	02/08/2022	02/09/2022 13:30	June Rhew	02/11/2022 10:51	Juyoung Kim	2304429
	02/08/2022	02/09/2022 13:30	June Rhew	02/11/2022 11:26	Juyoung Kim	2304431
	02/08/2022	02/09/2022 13:30	June Rhew	02/11/2022 12:01	Juyoung Kim	2304432
	02/08/2022	02/09/2022 13:30	June Rhew	02/11/2022 12:35	Juyoung Kim	2304433
	02/08/2022	02/09/2022 13:30	June Rhew	02/11/2022 15:28	Juyoung Kim	2304429
	02/08/2022	02/11/2022 09:00	June Rhew	02/11/2022 20:05	Juyoung Kim	2304428
	02/08/2022	02/11/2022 09:00	June Rhew	02/11/2022 20:40	Juyoung Kim	2304430
	02/08/2022	02/11/2022 09:00	Umesh Chiluwal	02/11/2022 11:24	Umesh Chiluwal	2304429
	02/08/2022	02/11/2022 09:00	Umesh Chiluwal	02/11/2022 11:57	Umesh Chiluwal	2304431
	02/08/2022	02/11/2022 09:00	Umesh Chiluwal	02/11/2022 12:07	Umesh Chiluwal	2304432
	02/08/2022	02/11/2022 09:00	Umesh Chiluwal	02/11/2022 13:51	Umesh Chiluwal	2304429
	02/08/2022	02/11/2022 09:00	Umesh Chiluwal	02/11/2022 14:35	Umesh Chiluwal	2304431
	02/08/2022	02/11/2022 09:00	Umesh Chiluwal	02/11/2022 14:50	Umesh Chiluwal	2304432

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	02/08/2022	02/11/2022 09:00	Umesh Chiluwal	02/11/2022 15:05	Umesh Chiluwal	2304433
	02/08/2022	02/11/2022 09:00	Umesh Chiluwal	02/11/2022 18:33	Umesh Chiluwal	2304433
SM 2320 B-2011	02/08/2022			02/15/2022 01:50	Dale L. Simmons	2304417
SM 2340B	02/08/2022			02/15/2022 23:54	Josef B Mick	2304438
	02/08/2022			02/16/2022 00:02	Josef B Mick	2304439
SM 2540 C-2011	02/08/2022			02/09/2022 14:36	Yijie Li	2304417
SM 2540 D-2011	02/08/2022			02/09/2022 14:36	Yijie Li	2304417
SM 4500 F-C-2011	02/08/2022			02/15/2022 01:50	Dale L. Simmons	2304417
SM 5310 B-2011	02/08/2022			02/18/2022 01:41	Khloe J Berg	2304418