

Chemical Analysis Report

SO-DIST-2022-06-22-01

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

Event Description: **2022 SMP : Okee Canals**
Request ID: **RQ-2022-06-20-51**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
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FLDEP South District Office
2295 Victoria Ave. Suite 364
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 14-JUL-2022 09:51



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: Indian Prairie Canal @ SR 70

Collection Date/Time: 06/21/2022 09:30

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336231	DEP SOP: NU-094-1	Color (true)	150		PCU	P415578	
	EPA 180.1 Rev. 2.0	Turbidity	3.9	A	NTU	P415590	
	EPA 300.0 Rev. 2.1	Chloride	63		mg Cl/L	P415943	
		Sulfate	110		mg SO4/L	P415948	
	SM 2320 B-2011	Total Alkalinity	46		mg CaCO3/L	P415768	
	SM 2540 C-2011	TDS	405		mg/L	P415903	
	SM 2540 D-2011	TSS	5	I	mg/L	P415892	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P415772	
2336232	EPA 350.1 Rev. 2.0	Ammonia-N	0.20		mg N/L	P415883	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.0		mg N/L	P415789	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.19		mg N/L	P416273	
	EPA 365.1 Rev. 2.0	Total-P	0.26		mg P/L	P415850	
	SM 5310 B-2011	Organic Carbon	25		mg C/L	P415818	
2336244	EPA 8321B	Aldicarb	0.020	U	ug/L	P415664	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P415664	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P415664	
		Carbaryl	0.0020	U	ug/L	P415664	
		Carbofuran	0.0020	U	ug/L	P415664	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P415664	
		Methiocarb	0.0020	U	ug/L	P415664	
		Methomyl	0.0020	U	ug/L	P415664	
		Oxamyl	0.0020	U	ug/L	P415664	
		Propoxur	0.0020	U	ug/L	P415664	
2336245		2,4-D	0.061		ug/L	P415542	
		Acesulfame K	0.10	U	ug/L	P415517	
		AMPA	6.1		ug/L	P415517	
		2,4,5-T	0.0040	U	ug/L	P415542	MS, RPD
		Acetaminophen	0.017	I	ug/L	P415542	
		Acetamiprid	0.0020	U	ug/L	P415542	
		Endothall	0.25	U	ug/L	P415517	
		Glufosinate	0.10	U	ug/L	P415517	
		Glyphosate	25		ug/L	P415517	
		Afidopyropen	0.0020	U	ug/L	P415542	
		Bentazon	0.023		ug/L	P415542	
		Sucralose	0.10		ug/L	P415517	
		Benzovindiflupyr	0.0020	U	ug/L	P415542	
		Carbamazepine	8.0E-04	U	ug/L	P415542	
		Clothianidin	0.0040	I	ug/L	P415542	
		Dinotefuran	0.0020	U	ug/L	P415542	
		Diuron	0.0030	I	ug/L	P415542	
		Fenuron	0.032	U	ug/L	P415542	
		Fluridone	0.0043		ug/L	P415542	
		Imazapyr	0.27		ug/L	P415542	
		Hydrocodone	0.0020	U	ug/L	P415542	

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336245	EPA 8321B	Ibuprofen	0.080	U	ug/L	P415542	
		Imidacloprid	0.031		ug/L	P415542	MS
		Linuron	0.0040	U	ug/L	P415542	
		Mandestrobin	0.0020	U	ug/L	P415542	
		MCP	0.0040	U	ug/L	P415542	
		Naproxen	0.0080	U	ug/L	P415542	MS, RPD
		Primidone	0.0040	U	ug/L	P415542	
		Pyraclostrobin	0.0020	U	ug/L	P415542	
		Silvex	0.0040	U	ug/L	P415542	
		Thiamethoxam	0.0065	I	ug/L	P415542	MS
		Tolfenpyrad	0.0020	U	ug/L	P415542	
		Triclopyr	0.0040	U	ug/L	P415542	MS
2336247	EPA 8270E	Aldrin	0.67	U	ng/L	P415743	
		Alpha-BHC	0.10	U	ng/L	P415743	
		Alpha-Chlordane	0.21	U	ng/L	P415743	
		PCB-1016	2.1	U	ng/L	P415743	
		Beta-BHC	0.10	U	ng/L	P415743	
		PCB-1221	2.1	U	ng/L	P415743	
		Beta-Cyfluthrin**	1.3	U	ng/L	P415743	
		PCB-1232	2.1	U	ng/L	P415743	
		Bifenthrin**	0.52	U	ng/L	P415743	
		PCB-1242	2.1	U	ng/L	P415743	
		PCB-1248	2.1	U	ng/L	P415743	
		Chlorothalonil	1.3	U	ng/L	P415743	
		PCB-1254	2.1	U	ng/L	P415743	
		Cis-Nonachlor**	0.21	U	ng/L	P415743	
		PCB-1260	2.1	U	ng/L	P415743	
		Cypermethrin	1.6	U	ng/L	P415743	
		Dacthal**	0.16	U	ng/L	P415743	
		DDD-p,p'	0.26	U	ng/L	P415743	
		DDE-p,p'	0.21	U	ng/L	P415743	
		DDT-p,p'	0.26	U	ng/L	P415743	
		Delta-BHC	0.61	I	ng/L	P415743	
		Deltamethrin**	1.3	U	ng/L	P415743	
		Dichlobenil**	0.26	U	ng/L	P415743	
		Dicofol	1.3	U	ng/L	P415743	
		Dieldrin	0.41	U	ng/L	P415743	
		Endosulfan I	0.41	U	ng/L	P415743	
		Endosulfan II	0.41	U	ng/L	P415743	
		Endosulfan Sulfate	0.31	U	ng/L	P415743	
		Endrin	0.41	U	ng/L	P415743	
		Endrin Aldehyde	0.78	U	ng/L	P415743	
		Endrin Ketone	0.41	U	ng/L	P415743	
		Esfenvalerate**	0.78	U	ng/L	P415743	
		Ethalfuralin**	0.16	U	ng/L	P415743	

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336247	EPA 8270E	Fenpropathrin**	0.26	U	ng/L	P415743	
		Gamma-BHC	0.13	U	ng/L	P415743	
		Gamma-Chlordane	0.21	U	ng/L	P415743	
		Heptachlor	0.21	U	ng/L	P415743	
		Heptachlor Epoxide	0.26	U	ng/L	P415743	
		Hexachlorobenzene**	1.0	U	ng/L	P415743	
		Kepone**	5.2	UJ	ng/L	P415743	CCV
		Lambda-Cyhalothrin**	0.78	U	ng/L	P415743	
		Methoprene**	0.78	U	ng/L	P415743	
		Methoxychlor	0.31	U	ng/L	P415743	
		MGK-264**	0.21	U	ng/L	P415743	
		Mirex	0.72	U	ng/L	P415743	
		Oxychlordane**	0.31	U	ng/L	P415743	
		Permethrin	1.7	U	ng/L	P415743	
		Phenothrin**	0.93	U	ng/L	P415743	
		Piperonyl Butoxide**	0.16	U	ng/L	P415743	
		Prallethrin**	2.1	U	ng/L	P415743	
		Tau-Fluvalinate**	0.26	U	ng/L	P415743	
		Tetramethrin**	0.78	U	ng/L	P415743	
		Trans-Nonachlor**	0.21	U	ng/L	P415743	
		Triclosan Methyl**	0.16	U	ng/L	P415743	
		Trifluralin	0.21	U	ng/L	P415743	
		Chlordane	2.6	U	ng/L	P415743	
		Toxaphene	16	U	ng/L	P415743	
2336248	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P415527	
		Acetochlor	0.24	U	ng/L	P415527	
		Octinoxate**	19	U	ng/L	P415527	
		Alachlor	0.24	U	ng/L	P415527	
		Avobenzone**	97	U	ng/L	P415527	
		Ametryn	11		ng/L	P415527	
		Atrazine	1.1E+03		ng/L	P415527	
		PBDE-47**	3.9	U	ng/L	P415527	
		Atrazine Desethyl	47	J	ng/L	P415527	LCS
		PBDE-99**	4.8	U	ng/L	P415527	
		Azinphos Methyl	1.9	U	ng/L	P415527	RPD
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P415527	
		Azoxystrobin**	4.5		ng/L	P415527	
		Bromacil	13		ng/L	P415527	MS
		2-Ethylhexyl	12	U	ng/L	P415527	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.39	U	ng/L	P415527	
		Caffeine**	7.3	U	ng/L	P415527	
		Carbophenothion	0.19	U	ng/L	P415527	
		Carfentrazone Ethyl**	0.097	U	ng/L	P415527	
		Chlorfenapyr**	0.17	U	ng/L	P415527	

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336248	EPA 8270E	Chlorpyrifos Ethyl	0.24	U	ng/L	P415527	
		Chlorpyrifos Methyl	0.048	U	ng/L	P415527	MS
		Coumaphos**	0.48	U	ng/L	P415527	
		Cyanazine	3.1	U	ng/L	P415527	
		Cyprodinil**	0.097	U	ng/L	P415527	
		Demeton	1.5	U	ng/L	P415527	
		Diazinon	0.19	I	ng/L	P415527	
		Difenoconazole**	0.58	U	ng/L	P415527	
		Dimethenamid**	430		ng/L	P415527	
		Dimethomorph**	0.17	U	ng/L	P415527	
		Disulfoton	0.48	U	ng/L	P415527	
		Dithiopyr**	1.1		ng/L	P415527	
		EPTC	1.2	U	ng/L	P415527	
		Ethion	0.15	U	ng/L	P415527	
		Ethoprop	0.097	U	ng/L	P415527	
		Etridiazole**	0.15	U	ng/L	P415527	MS
		Fenamiphos	0.48	U	ng/L	P415527	
		Fenbuconazole**	0.41	I	ng/L	P415527	
		Fipronil	0.24	U	ng/L	P415527	
		Fipronil Desulfinyl**	0.12	U	ng/L	P415527	
		Fipronil Sulfide	0.15	U	ng/L	P415527	
		Fipronil Sulfone	0.15	U	ng/L	P415527	
		Fluazifop-P-butyl**	0.097	U	ng/L	P415527	
		Fludioxonil**	0.12	U	ng/L	P415527	
		Flumioxazin**	8.3		ng/L	P415527	
		Flutolanil**	0.097	U	ng/L	P415527	
		Fluxapyroxad**	0.097	U	ng/L	P415527	RPD
		Fonofos	0.19	U	ng/L	P415527	
		Hexazinone	4.1		ng/L	P415527	
		Imazalil**	0.73	U	ng/L	P415527	
		Iprodione**	0.58	U	ng/L	P415527	
		Loratadine**	0.097	U	ng/L	P415527	RPD
		Malathion	0.34	U	ng/L	P415527	
		Metalaxyl	4.0		ng/L	P415527	
		Metolachlor	3.4E+03		ng/L	P415527	
		Metribuzin	2.4	U	ng/L	P415527	
		Mevinphos	1.0	U	ng/L	P415527	
		Molinate	0.29	U	ng/L	P415527	
		Myclobutanil**	0.24	U	ng/L	P415527	
		Naled**	1.5	U	ng/L	P415527	
		Napropamide**	0.39	U	ng/L	P415527	MS
		Norflurazon	17		ng/L	P415527	
		Oxadiazon	7.8		ng/L	P415527	
		Oxyfluorfen**	0.15	U	ng/L	P415527	
		Parathion Ethyl	0.24	U	ng/L	P415527	

Field ID: G4SD0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336248	EPA 8270E	Parathion Methyl	0.53	U	ng/L	P415527	MS, RPD
		Pendimethalin	3.8	I	ng/L	P415527	
		Phenytol**	3.4	U	ng/L	P415527	
		Phorate	0.51	U	ng/L	P415527	
		Prodiatamine**	0.17	U	ng/L	P415527	
		Prometon	0.87	U	ng/L	P415527	
		Prometryn	2.5		ng/L	P415527	
		Pronamide**	0.69		ng/L	P415527	
		Propanil**	0.12	U	ng/L	P415527	
		Propargite**	1.5	U	ng/L	P415527	
		Propiconazole**	0.48	U	ng/L	P415527	
		Pyraflufen Ethyl**	0.24	U	ng/L	P415527	
		Pyridaben**	0.44	U	ng/L	P415527	
		Pyriproxyfen**	0.12	U	ng/L	P415527	
		Simazine	390		ng/L	P415527	
		Stirophos**	0.12	U	ng/L	P415527	MS
		Sulfentrazone**	77		ng/L	P415527	
		Tebuconazole**	0.48	U	ng/L	P415527	
		Terbufos	0.097	U	ng/L	P415527	
		Terbutylazine	0.41	U	ng/L	P415527	
		Thiobencarb**	0.58	U	ng/L	P415527	
		Triadimefon**	0.24	U	ng/L	P415527	

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: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

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: L-49

Collection Date/Time: 06/21/2022 10:15

Field ID: G4SD0190

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336227	DEP SOP: NU-094-1	Color (true)	73	A	PCU	P415578	
	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P415590	
	EPA 300.0 Rev. 2.1	Chloride	99		mg Cl/L	P415943	
		Sulfate	47		mg SO4/L	P415948	
	SM 2320 B-2011	Total Alkalinity	175		mg CaCO3/L	P415768	
	SM 2540 C-2011	TDS	447		mg/L	P415903	
	SM 2540 D-2011	TSS	2	I	mg/L	P415892	
	SM 4500-F- C-2011	Fluoride	0.20		mg F/L	P415772	
2336228	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P415883	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P415919	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P416273	
	EPA 365.1 Rev. 2.0	Total-P	0.038		mg P/L	P415814	
	SM 5310 B-2011	Organic Carbon	20		mg C/L	P415818	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: L-61W At Old LakeportRd

Collection Date/Time: 06/21/2022 11:25

Field ID: G4SD0217

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336250	EPA 200.7 Rev. 4.4	Calcium	36.0		mg/L	P415596	
		Iron	360		ug/L	P415596	
		Magnesium	7.69		mg/L	P415596	
		Potassium	6.2		mg/L	P415596	
		Sodium	25.7		mg/L	P415596	
		Strontium	965		ug/L	P415596	
		Tin	3.0	U	ug/L	P415596	
		Titanium	1.3	I	ug/L	P415596	
		Vanadium	2.0	U	ug/L	P415596	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P415596	
		Aluminum	72		ug/L	P415596	
		Antimony	0.071	I	ug/L	P415596	
		Arsenic	1.43		ug/L	P415596	
		Barium	29.3		ug/L	P415596	
		Beryllium	0.015	I	ug/L	P415596	
		Boron	47.6		ug/L	P415596	
		Cadmium	0.020	U	ug/L	P415596	
		Chromium	0.40	U	ug/L	P415596	
		Cobalt	0.097		ug/L	P415596	
		Copper	0.40	U	ug/L	P415596	
		Lead	0.20	U	ug/L	P415596	
		Manganese	26.2		ug/L	P415596	
		Molybdenum	0.67		ug/L	P415596	
		Nickel	0.50	U	ug/L	P415596	
		Selenium	0.20	U	ug/L	P415596	
		Silver	0.010	U	ug/L	P415596	
		Thallium	0.10	U	ug/L	P415596	
	SM 2340 B-2011	Hardness	122		mg/L	P415596	

Sample Location: L-61W

Collection Date/Time: 06/21/2022 11:35

Field ID: G4SD0194

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336229	DEP SOP: NU-094-1	Color (true)	140		PCU	P415578	
	EPA 180.1 Rev. 2.0	Turbidity	9.1		NTU	P415590	
	EPA 300.0 Rev. 2.1	Chloride	49		mg Cl/L	P415943	
		Sulfate	11		mg SO4/L	P415948	
	SM 2320 B-2011	Total Alkalinity	102		mg CaCO3/L	P415768	
	SM 2540 C-2011	TDS	258		mg/L	P415903	
	SM 2540 D-2011	TSS	25		mg/L	P415892	
	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P415772	
2336230	EPA 350.1 Rev. 2.0	Ammonia-N	0.089		mg N/L	P415883	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P415869	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.092		mg N/L	P416273	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P415850	
	SM 5310 B-2011	Organic Carbon	26		mg C/L	P415818	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: C-19 Canal

Collection Date/Time: 06/21/2022 12:15

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336233	DEP SOP: NU-094-1	Color (true)	110		PCU	P415578	
	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P415590	
	EPA 300.0 Rev. 2.1	Chloride	57		mg Cl/L	P415943	
		Sulfate	34		mg SO4/L	P415948	
	SM 2320 B-2011	Total Alkalinity	163		mg CaCO3/L	P415768	
	SM 2540 C-2011	TDS	331		mg/L	P415903	
	SM 2540 D-2011	TSS	8	I	mg/L	P415892	
2336234	SM 4500-F- C-2011	Fluoride	0.27		mg F/L	P415772	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.50		mg N/L	P415883	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.4		mg N/L	P415869	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.022		mg N/L	P416273	
	EPA 365.1 Rev. 2.0	Total-P	0.19		mg P/L	P415850	
2336246	EPA 8321B	SM 5310 B-2011	Organic Carbon	22	mg C/L	P415818	
		2,4-D	0.17		ug/L	P415542	
		Acesulfame K	0.10	U	ug/L	P415517	
		AMPA	0.65		ug/L	P415517	
		2,4,5-T	0.0040	U	ug/L	P415542	MS, RPD
		Acetaminophen	0.0080	U	ug/L	P415542	
		Acetamiprid	0.0020	U	ug/L	P415542	
		Endothall	0.25	U	ug/L	P415517	
		Glufosinate	0.10	U	ug/L	P415517	
		Glyphosate	2.5		ug/L	P415517	
		Afidopyropen	0.0020	U	ug/L	P415542	
		Bentazon	0.012		ug/L	P415542	
		Sucralose	0.11		ug/L	P415517	
		Benzovindiflupyr	0.0020	U	ug/L	P415542	
		Carbamazepine	8.0E-04	U	ug/L	P415542	
		Clothianidin	0.0020	U	ug/L	P415542	
		Dinotefuran	0.0020	U	ug/L	P415542	
		Diuron	0.0020	U	ug/L	P415542	
		Fenuron	0.032	U	ug/L	P415542	
		Fluridone	0.0015	I	ug/L	P415542	
		Imazapyr	0.045		ug/L	P415542	
		Hydrocodone	0.0020	U	ug/L	P415542	
		Ibuprofen	0.080	U	ug/L	P415542	
		Imidacloprid	0.0020	U	ug/L	P415542	MS
		Linuron	0.0040	U	ug/L	P415542	
		Mandestrobin	0.0020	U	ug/L	P415542	
		MCP	0.0040	U	ug/L	P415542	
		Naproxen	0.0080	U	ug/L	P415542	MS, RPD
		Primidone	0.0040	U	ug/L	P415542	
		Pyraclostrobin	0.0020	U	ug/L	P415542	
		Silvex	0.0040	U	ug/L	P415542	
		Thiamethoxam	0.0020	U	ug/L	P415542	MS

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336246	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P415542	MS
		Triclopyr	0.0040	U	ug/L	P415542	
2336249	EPA 8270E	Aldrin	0.67	U	ng/L	P415743	
		Alpha-BHC	0.10	U	ng/L	P415743	
		Alpha-Chlordane	0.21	U	ng/L	P415743	
		PCB-1016	2.1	U	ng/L	P415743	
		Beta-BHC	0.10	U	ng/L	P415743	
		PCB-1221	2.1	U	ng/L	P415743	
		Beta-Cyfluthrin**	1.3	U	ng/L	P415743	
		PCB-1232	2.1	U	ng/L	P415743	
		Bifenthrin**	0.52	U	ng/L	P415743	
		PCB-1242	2.1	U	ng/L	P415743	
		Carbophenothion	0.93	U	ng/L	P415743	
		PCB-1248	2.1	U	ng/L	P415743	
		Chlorothalonil	1.3	U	ng/L	P415743	
		PCB-1254	2.1	U	ng/L	P415743	
		Cis-Nonachlor**	0.21	U	ng/L	P415743	
		PCB-1260	2.1	U	ng/L	P415743	
		Cypermethrin	1.5	U	ng/L	P415743	
		Dacthal**	0.15	U	ng/L	P415743	
		DDD-p,p'	0.26	U	ng/L	P415743	
		DDE-p,p'	0.21	U	ng/L	P415743	
		DDT-p,p'	0.26	U	ng/L	P415743	
		Delta-BHC	0.41	U	ng/L	P415743	
		Deltamethrin**	1.3	U	ng/L	P415743	
		Dichlobenil**	0.26	U	ng/L	P415743	
		Dicofol	1.3	U	ng/L	P415743	
		Dieldrin	0.41	U	ng/L	P415743	
		Endosulfan I	0.41	U	ng/L	P415743	
		Endosulfan II	0.41	U	ng/L	P415743	
		Endosulfan Sulfate	0.31	U	ng/L	P415743	
		Endrin	0.41	U	ng/L	P415743	
		Endrin Aldehyde	0.77	U	ng/L	P415743	
		Endrin Ketone	0.41	U	ng/L	P415743	
		Esfenvalerate**	0.77	U	ng/L	P415743	
		Ethalfuralin**	0.15	U	ng/L	P415743	
		Fenpropathrin**	0.26	U	ng/L	P415743	
		Gamma-BHC	0.13	U	ng/L	P415743	
		Gamma-Chlordane	0.21	U	ng/L	P415743	
		Heptachlor	0.21	U	ng/L	P415743	
		Heptachlor Epoxide	0.26	U	ng/L	P415743	
		Hexachlorobenzene**	1.0	U	ng/L	P415743	
		Kepone**	5.2	UJ	ng/L	P415743	CCV
		Lambda-Cyhalothrin**	0.77	U	ng/L	P415743	
		Methoprene**	0.77	U	ng/L	P415743	

Field ID: G3SD0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336249	EPA 8270E	Methoxychlor	0.31	U	ng/L	P415743	
		MGK-264**	0.21	U	ng/L	P415743	
		Mirex	0.72	U	ng/L	P415743	
		Oxychlordane**	0.31	U	ng/L	P415743	
		Permethrin	1.6	U	ng/L	P415743	
		Phenothrin**	0.93	U	ng/L	P415743	
		Piperonyl Butoxide**	0.23	I	ng/L	P415743	
		Prallethrin**	2.1	U	ng/L	P415743	
		Tau-Fluvalinate**	0.26	U	ng/L	P415743	
		Tetramethrin**	0.77	U	ng/L	P415743	
		Trans-Nonachlor**	0.21	U	ng/L	P415743	
		Triclosan Methyl**	0.15	U	ng/L	P415743	
		Trifluralin	0.21	U	ng/L	P415743	
	EPA 8276	Chlordane	2.6	U	ng/L	P415743	
		Toxaphene	15	U	ng/L	P415743	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

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

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P415578

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415590

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415596

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: P415596

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: P415943

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415948

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415883

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415789

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415869

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415919

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416273

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415814

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415850

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

Reference Method: EPA 8270E
Batch ID: P415527

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
 Batch ID: P415527

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415527

Component	Result	Code	Units
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415527

Component	Result	Code	Units
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415527

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

Reference Method: EPA 8270E

Batch ID: P415743

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415743

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415743

Component	Result	Code	Units
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
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: P415743

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: P415517

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

Reference Method: EPA 8321B

Batch ID: P415542

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P415542

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P415664

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

Reference Method: SM 2320 B-2011

Batch ID: P415768

Component	Result	Code	Units
Total Alkalinity	1.0	U	mg CaCO3/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2011
Batch ID: P415903

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P415892

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P415772

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P415818

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: P415578

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.9		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415590

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.1		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415596

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	101		P	85 - 115
Iron	104		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	105		P	85 - 115
Sodium	103		P	85 - 115
Strontium	103		P	85 - 115
Tin	106		P	85 - 115
Titanium	104		P	85 - 115
Vanadium	95.3		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415596

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.5		P	85 - 115
Antimony	99.1		P	85 - 115
Arsenic	99.5		P	85 - 115
Barium	104		P	85 - 115
Beryllium	99.1		P	85 - 115
Boron	98.8		P	85 - 115
Cadmium	97.7		P	85 - 115
Chromium	96.9		P	85 - 115
Cobalt	101		P	85 - 115
Copper	97.9		P	85 - 115
Lead	96.9		P	85 - 115
Manganese	98.1		P	85 - 115
Molybdenum	99.7		P	85 - 115
Nickel	98.7		P	85 - 115
Selenium	98.0		P	85 - 115
Silver	99.3		P	85 - 115
Thallium	99.7		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415943

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.9		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415948

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415883

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415789

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415869

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415919

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416273

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415814

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	107		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415850

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

Reference Method: EPA 8270E
Batch ID: P415527

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.3		P	50 - 150
Acetochlor	84.5		P	70 - 121
Alachlor	77.1		P	68 - 119
Ametryn	90.5		P	64 - 139

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P415527

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine	78.6		P	76 - 120
Atrazine Desethyl	42.0		F	44 - 126
Avobenzone	109		P	76 - 212
Azinphos Methyl	95.9		P	43 - 192
Azoxystrobin	85.9		P	36 - 224
Bromacil	65.7		P	52 - 121
Butylate	45.1		P	28 - 91.0
Caffeine	83.6		P	50 - 134
Carbophenothion	93.5		P	56 - 129
Carfentrazone Ethyl	108		P	60 - 141
Chlorfenapyr	67.5		P	56 - 115
Chlorpyrifos Ethyl	61.4		P	60 - 118
Chlorpyrifos Methyl	75.7		P	68 - 119
Coumaphos	174		P	18 - 250
Cyanazine	77.6		P	61 - 250
Cyprodinil	72.9		P	55 - 145
Demeton	63.4		P	30 - 159
Diazinon	116		P	70 - 123
Difenoconazole	91.7		P	49 - 204
Dimethenamid	72.4		P	64 - 115
Dimethomorph	92.3		P	12 - 219
Disulfoton	83.1		P	44 - 125
Dithiopyr	89.5		P	64 - 115
EPTC	47.6		P	28 - 86.0
Ethion	55.2		P	33 - 125
Ethoprop	87.8		P	64 - 116
Etridiazole	49.7		P	34 - 91.0
Fenamiphos	81.4		P	12 - 127
Fenbuconazole	135		P	59 - 151
Fipronil	85.5		P	67 - 129
Fipronil Desulfinyl	93.8		P	65 - 127
Fipronil Sulfide	89.6		P	61 - 116
Fipronil Sulfone	86.1		P	55 - 117
Fluazifop-P-butyl	85.6		P	62 - 127
Fludioxonil	82.4		P	62 - 128
Flumioxazin	214		P	33 - 250
Flutolanil	77.6		P	56 - 127
Fluxapyroxad	66.4		P	45 - 128
Fonofos	74.6		P	62 - 111
Hexazinone	85.6		P	46 - 139
Imazalil	72.6		P	38 - 142
Iprodione	84.0		P	47 - 135
Loratadine	98.0		P	10 - 244
Malathion	96.5		P	61 - 139
Metalaxyl	77.7		P	10 - 119
Metolachlor	89.5		P	65 - 118
Metribuzin	78.1		P	51 - 250
Mevinphos	68.0		P	53 - 121
Molinate	60.3		P	42 - 96.0
Myclobutanil	82.9		P	55 - 128
Naled	69.8		P	10 - 98.0
Napropamide	61.8		P	49 - 121

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P415527

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Norflurazon	114		P	61 - 126
Octinoxate	89.3		P	30 - 159
Oxadiazon	85.0		P	59 - 116
Oxybenzone	84.1		P	61 - 139
Oxyfluorfen	97.9		P	64 - 137
Parathion Ethyl	86.1		P	70 - 112
Parathion Methyl	98.9		P	76 - 133
PBDE-47	88.6		P	50 - 150
PBDE-99	82.2		P	50 - 150
Pendimethalin	80.0		P	52 - 117
Phenytoin	45.9		P	10 - 199
Phorate	81.6		P	48 - 121
Prodiamine	76.6		P	26 - 142
Prometon	69.4		P	43 - 123
Prometryn	80.1		P	66 - 127
Pronamide	102		P	75 - 121
Propanil	65.2		P	45 - 150
Propargite	149		P	42 - 208
Propiconazole	114		P	60 - 125
Pyraflufen Ethyl	111		P	70 - 138
Pyridaben	150		P	35 - 245
Pyriproxyfen	93.6		P	30 - 149
Simazine	74.0		P	72 - 125
Stiophos	71.4		P	29 - 164
Sulfentrazone	118		P	21 - 139
Tebuconazole	110		P	10 - 115
Terbufos	84.8		P	60 - 123
Terbuthylazine	90.2		P	72 - 115
Thiobencarb	75.2		P	31 - 139
Tri-o-cresyl Phosphate	95.0		P	50 - 150
Triadimefon	66.5		P	65 - 116

Reference Method: EPA 8270E

Batch ID: P415743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.2		P	10 - 93.0
Alpha-BHC	92.1		P	75 - 106
Alpha-Chlordane	88.4		P	50 - 109
Beta-BHC	104		P	36 - 138
Beta-Cyfluthrin	96.6		P	23 - 167
Bifenthrin	72.2		P	11 - 123
Carbophenothion	63.6		P	18 - 96.0
Chlorothalonil	82.1		P	27 - 190
Cis-Nonachlor	70.6		P	40 - 111
Cypermethrin	84.9		P	25 - 155
Dacthal	93.4		P	72 - 119
DDD-p,p'	74.3		P	47 - 108
DDE-p,p'	87.5		P	48 - 107
DDT-p,p'	74.5		P	49 - 111
Delta-BHC	123		P	54 - 138
Deltamethrin	88.8		P	22 - 189

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P415743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dichlobenil	101		P	32 - 113
Dicofol	69.6		P	50 - 108
Dieldrin	87.7		P	56 - 110
Endosulfan I	94.5		P	60 - 105
Endosulfan II	79.9		P	50 - 120
Endosulfan Sulfate	89.8		P	55 - 121
Endrin	76.7		P	31 - 119
Endrin Aldehyde	83.8		P	36 - 116
Endrin Ketone	88.6		P	69 - 177
Esfenvalerate	87.8		P	10 - 179
Ethalfuralin	75.3		P	49 - 99.0
Fenpropathrin	77.1		P	35 - 119
Gamma-BHC	99.9		P	69 - 120
Gamma-Chlordane	82.8		P	45 - 107
Heptachlor	65.7		P	41 - 100
Heptachlor Epoxide	88.2		P	58 - 106
Hexachlorobenzene	77.2		P	39 - 100
Kepone	50.7		P	10 - 191
Lambda-Cyhalothrin	91.5		P	21 - 206
Methoprene	80.3		P	10 - 129
Methoxychlor	77.3		P	61 - 111
MGK-264	89.3		P	20 - 123
Mirex	63.0		P	10 - 182
Oxychlordane	81.8		P	39 - 110
PCB-1016	88.7		P	49 - 111
PCB-1260	86.7		P	42 - 116
Permethrin	99.4		P	26 - 152
Phenothrin	73.5		P	10 - 109
Piperonyl Butoxide	94.6		P	19 - 147
Prallethrin	84.2		P	14 - 109
Tau-Fluvalinate	77.7		P	16 - 134
Tetramethrin	97.0		P	10 - 125
Trans-Nonachlor	87.6		P	45 - 107
Triclosan Methyl	88.3		P	60 - 110
Trifluralin	76.5		P	44 - 101

Reference Method: EPA 8276

Batch ID: P415743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	98.5		P	61 - 118
Toxaphene	111		P	51 - 122

Reference Method: EPA 8321B

Batch ID: P415517

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	86.3		P	40 - 150
AMPA	107		P	40 - 150
Endothall	105		P	40 - 150
Glufosinate	117		P	40 - 150
Glyphosate	101		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P415517

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	97.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P415542

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	62.0		P	40 - 150
2,4,5-T	40.5		P	40 - 150
Acetaminophen	75.5		P	30 - 150
Acetamiprid	70.1		P	40 - 150
Afidopyropen	56.4		P	30 - 150
Bentazon	72.6		P	30 - 150
Benzovindiflupyr	80.1		P	40 - 150
Carbamazepine	82.6		P	40 - 150
Clothianidin	89.5		P	40 - 150
Dinotefuran	87.8		P	40 - 150
Diuron	75.1		P	40 - 150
Fenuron	85.8		P	40 - 150
Fluridone	81.5		P	40 - 150
Hydrocodone	79.6		P	40 - 150
Ibuprofen	67.0		P	40 - 150
Imazapyr	82.4		P	40 - 150
Imidacloprid	94.6		P	40 - 150
Linuron	80.9		P	40 - 150
Mandestrobin	79.8		P	40 - 150
MCPP	74.9		P	40 - 150
Naproxen	62.5		P	40 - 150
Primidone	94.8		P	40 - 150
Pyraclostrobin	66.0		P	40 - 150
Silvex	45.1		P	40 - 150
Thiamethoxam	86.5		P	40 - 150
Tolfenpyrad	37.2		P	30 - 150
Triclopyr	46.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P415664

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	71.9		P	40 - 150
Aldicarb	60.4		P	30 - 150
Aldicarb Sulfone	85.5		P	40 - 150
Aldicarb Sulfoxide	83.8		P	40 - 150
Carbaryl	75.0		P	40 - 150
Carbofuran	82.1		P	40 - 150
Methiocarb	72.1		P	40 - 150
Methomyl	74.3		P	40 - 150
Oxamyl	81.7		P	40 - 150
Propoxur	68.6		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P415768

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P415772

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

Reference Method: SM 5310 B-2011
Batch ID: P415818

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P415596

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336052	Calcium	104		P	80 - 120
2336052	Iron	105		P	80 - 120
2336052	Magnesium	107		P	80 - 120
2336052	Potassium	106		P	80 - 120
2336052	Sodium	105		P	80 - 120
2336052	Strontium	103		P	80 - 120
2336052	Tin	106		P	80 - 120
2336052	Titanium	102		P	80 - 120
2336052	Vanadium	95.3		P	80 - 120
2336052	Zinc	100		P	80 - 120
2336176	Calcium	100		P	80 - 120
2336176	Iron	107	105	P/P	80 - 120
2336176	Magnesium	107	106	P/P	80 - 120
2336176	Potassium	107	105	P/P	80 - 120
2336176	Sodium	106	106	P/P	80 - 120
2336176	Strontium	104	103	P/P	80 - 120
2336176	Tin	104	105	P/P	80 - 120
2336176	Titanium	106	105	P/P	80 - 120
2336176	Vanadium	95.8	95.3	P/P	80 - 120
2336176	Zinc	102	101	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P415596

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336052	Aluminum	97.8		P	80 - 120
2336052	Antimony	99.4		P	80 - 120
2336052	Arsenic	99.5		P	80 - 120
2336052	Barium	103		P	80 - 120
2336052	Beryllium	98.2		P	80 - 120
2336052	Boron	102		P	80 - 120
2336052	Cadmium	100		P	80 - 120
2336052	Chromium	98.7		P	80 - 120
2336052	Cobalt	99.4		P	80 - 120
2336052	Copper	96.3		P	80 - 120
2336052	Lead	97.0		P	80 - 120
2336052	Manganese	97.7		P	80 - 120
2336052	Molybdenum	100		P	80 - 120
2336052	Nickel	97.9		P	80 - 120
2336052	Selenium	96.4		P	80 - 120
2336052	Silver	99.0		P	80 - 120
2336052	Thallium	102		P	80 - 120
2336176	Aluminum	98.1	101	P/P	80 - 120
2336176	Antimony	99.5	100	P/P	80 - 120
2336176	Arsenic	99.5	100	P/P	80 - 120
2336176	Barium	103	103	P/P	80 - 120
2336176	Beryllium	96.8	99.7	P/P	80 - 120
2336176	Boron	99.4	104	P/P	80 - 120
2336176	Cadmium	98.6	99.5	P/P	80 - 120
2336176	Chromium	98.0	98.4	P/P	80 - 120
2336176	Cobalt	100	99.9	P/P	80 - 120
2336176	Copper	98.0	98.4	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415596

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336176	Lead	97.4	98.5	P/P	80 - 120
2336176	Manganese	100	99.2	P/P	80 - 120
2336176	Molybdenum	100	101	P/P	80 - 120
2336176	Nickel	99.3	99.1	P/P	80 - 120
2336176	Selenium	96.7	97.1	P/P	80 - 120
2336176	Silver	100	93.9	P/P	80 - 120
2336176	Thallium	101	104	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336204	Chloride	98.7		P	90 - 110
2336486	Chloride	97.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336204	Sulfate	96.2		P	90 - 110
2336486	Sulfate	94.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415883

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336228	Ammonia-N	97.8	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336404	Kjeldahl Nitrogen	104	98.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416273

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336203	NO2NO3-N	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415814

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336164	Total-P	105	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415850

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336314	Total-P	104	104	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415527

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2335685	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	74.5	79.6	P/P	50 - 150
2335685	Acetochlor	76.6	87.2	P/P	65 - 124
2335685	Alachlor	65.9	80.8	P/P	61 - 121
2335685	Ametryn	88.5	62.8	P/P	52 - 216
2335685	Atrazine Desethyl	42.0	40.0	P/P	15 - 160
2335685	Avobenzone	89.5	94.0	P/P	59 - 206
2335685	Azinphos Methyl	59.4	137	P/P	40 - 292
2335685	Azoxystrobin	83.2	97.0	P/P	12 - 242
2335685	Bromacil	51.6	50.7	F/F	54 - 167
2335685	Butylate	40.3	36.2	P/P	14 - 94.0
2335685	Caffeine	88.7	83.3	P/P	10 - 226
2335685	Carbophenothion	99.4	97.4	P/P	49 - 122
2335685	Carfentrazone Ethyl	102	110	P/P	53 - 138
2335685	Chlorfenapyr	62.8	55.4	P/P	50 - 150
2335685	Chlorpyrifos Ethyl	52.4	56.8	P/P	52 - 122
2335685	Chlorpyrifos Methyl	65.2	67.1	F/P	66 - 117
2335685	Coumaphos	159	145	P/P	50 - 220
2335685	Cyanazine	65.3	71.6	P/P	43 - 245
2335685	Cyprodinil	64.1	69.7	P/P	50 - 150
2335685	Demeton	64.4	57.2	P/P	43 - 188
2335685	Diazinon	114	100	P/P	69 - 131
2335685	Difenoconazole	193	203	P/P	34 - 231
2335685	Dimethenamid	66.6	71.0	P/P	55 - 118
2335685	Dimethomorph	102	82.0	P/P	50 - 150
2335685	Disulfoton	73.2	69.5	P/P	38 - 141
2335685	Dithiopyr	84.6	81.0	P/P	42 - 116
2335685	EPTC	37.9	33.8	P/P	18 - 85.0
2335685	Ethion	44.4	53.2	P/P	10 - 131
2335685	Ethoprop	74.2	76.4	P/P	65 - 129
2335685	Etridiazole	57.2	46.7	P/F	50 - 150
2335685	Fenamiphos	81.8	70.5	P/P	31 - 137
2335685	Fenbuconazole	127	127	P/P	57 - 160
2335685	Fipronil	75.1	84.9	P/P	62 - 132
2335685	Fipronil Desulfinyl	99.3	85.5	P/P	57 - 131
2335685	Fluazifop-P-butyl	75.5	72.6	P/P	54 - 133
2335685	Fludioxonil	71.5	78.0	P/P	58 - 127
2335685	Flumioxazin	128	157	P/P	33 - 300
2335685	Flutolanil	65.0	74.7	P/P	42 - 130
2335685	Fluxapyroxad	43.3	65.2	P/P	23 - 141
2335685	Fonofos	72.3	59.8	P/P	58 - 119
2335685	Hexazinone	68.1	76.6	P/P	68 - 172
2335685	Imazalil	66.8	59.3	P/P	48 - 283
2335685	Iprodione	133	134	P/P	38 - 140
2335685	Loratadine	127	78.3	P/P	50 - 150
2335685	Malathion	79.6	86.5	P/P	40 - 137
2335685	Metalaxyl	68.4	67.4	P/P	21 - 129
2335685	Metolachlor	77.6	80.9	P/P	55 - 122
2335685	Metribuzin	68.3	76.6	P/P	38 - 187
2335685	Mevinphos	54.9	59.0	P/P	54 - 134
2335685	Molinate	54.2	48.1	P/P	41 - 97.0
2335685	Myclobutanil	71.1	81.3	P/P	56 - 125
2335685	Naled	60.5	74.0	P/P	10 - 108

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415527

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2335685	Napropamide	45.2	58.8	F/P	50 - 150
2335685	Norflurazon	104	99.3	P/P	32 - 122
2335685	Octinoxate	69.9	74.1	P/P	25 - 150
2335685	Oxadiazon	74.4	65.5	P/P	40 - 119
2335685	Oxybenzone	76.5	75.8	P/P	59 - 147
2335685	Oxyfluorfen	95.3	98.2	P/P	61 - 153
2335685	Parathion Ethyl	70.6	73.0	P/P	59 - 130
2335685	Parathion Methyl	95.4	94.1	P/P	65 - 155
2335685	PBDE-47	63.6	76.2	P/P	50 - 150
2335685	PBDE-99	58.0	73.6	P/P	50 - 150
2335685	Pendimethalin	74.8	77.3	P/P	49 - 138
2335685	Phenytoin	17.3	54.9	F/P	50 - 200
2335685	Phorate	65.6	57.6	P/P	54 - 161
2335685	Prodiamine	80.6	85.1	P/P	33 - 161
2335685	Prometon	70.5	75.3	P/P	48 - 140
2335685	Prometryn	72.5	67.4	P/P	55 - 134
2335685	Pronamide	95.6	96.3	P/P	66 - 137
2335685	Propanil	54.2	66.3	P/P	50 - 150
2335685	Propargite	132	164	P/P	50 - 200
2335685	Propiconazole	106	92.1	P/P	36 - 150
2335685	Pyraflufen Ethyl	119	120	P/P	50 - 150
2335685	Pyridaben	155	160	P/P	50 - 200
2335685	Pyriproxyfen	70.0	62.8	P/P	10 - 165
2335685	Simazine	59.2	58.7	P/P	57 - 145
2335685	Stirophos	49.9	56.3	F/P	50 - 150
2335685	Sulfentrazone	114	118	P/P	34 - 140
2335685	Tebuconazole	93.4	108	P/P	10 - 127
2335685	Terbufos	90.3	79.3	P/P	59 - 138
2335685	Terbuthylazine	80.6	81.1	P/P	68 - 119
2335685	Thiobencarb	63.6	73.6	P/P	50 - 150
2335685	Tri-o-cresyl Phosphate	73.5	76.2	P/P	50 - 150
2335685	Triadimefon	64.6	65.4	P/P	50 - 150

Reference Method: EPA 8270E

Batch ID: P415743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336507	Aldrin	50.7	55.2	P/P	10 - 89.0
2336507	Alpha-BHC	92.2	94.3	P/P	71 - 105
2336507	Alpha-Chlordane	65.2	64.1	P/P	43 - 107
2336507	Beta-BHC	114	117	P/P	57 - 152
2336507	Beta-Cyfluthrin	79.8	94.0	P/P	29 - 186
2336507	Bifenthrin	73.7	72.7	P/P	19 - 119
2336507	Carbophenothion	69.9	77.7	P/P	19 - 107
2336507	Chlorothalonil	30.2	35.1	P/P	10 - 245
2336507	Cis-Nonachlor	61.6	60.6	P/P	36 - 110
2336507	Cypermethrin	73.1	86.9	P/P	24 - 169
2336507	Dacthal	84.5	88.9	P/P	62 - 115
2336507	DDD-p,p'	60.0	66.3	P/P	36 - 109
2336507	DDE-p,p'	68.7	68.1	P/P	30 - 114
2336507	DDT-p,p'	62.1	63.4	P/P	42 - 108
2336507	Delta-BHC	140	138	P/P	60 - 164

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336507	Deltamethrin	77.3	92.2	P/P	10 - 210
2336507	Dichlobenil	67.5	66.9	P/P	23 - 108
2336507	Dicofol	60.1	60.2	P/P	44 - 109
2336507	Dieldrin	63.0	65.8	P/P	37 - 119
2336507	Endosulfan I	78.0	83.7	P/P	52 - 105
2336507	Endosulfan II	62.5	69.0	P/P	35 - 127
2336507	Endosulfan Sulfate	75.0	83.8	P/P	39 - 130
2336507	Endrin	64.5	68.7	P/P	30 - 116
2336507	Endrin Aldehyde	54.7	59.4	P/P	20 - 110
2336507	Endrin Ketone	80.0	80.3	P/P	48 - 134
2336507	Esfenvalerate	81.1	92.8	P/P	10 - 199
2336507	Ethalfuralin	66.1	71.6	P/P	48 - 95.0
2336507	Fenpropathrin	75.3	70.1	P/P	37 - 121
2336507	Gamma-BHC	104	104	P/P	61 - 126
2336507	Gamma-Chlordane	61.2	63.8	P/P	39 - 105
2336507	Heptachlor	51.2	57.8	P/P	38 - 96.0
2336507	Heptachlor Epoxide	76.5	77.0	P/P	42 - 114
2336507	Hexachlorobenzene	59.4	64.8	P/P	39 - 93.0
2336507	Kepone	33.1	38.4	P/P	10 - 215
2336507	Lambda-Cyhalothrin	88.5	93.4	P/P	10 - 204
2336507	Methoprene	62.6	64.1	P/P	17 - 108
2336507	Methoxychlor	67.4	66.0	P/P	56 - 115
2336507	MGK-264	74.7	87.4	P/P	35 - 120
2336507	Mirex	56.7	54.7	P/P	10 - 178
2336507	Oxychlordane	64.7	68.4	P/P	47 - 91.0
2336507	Permethrin	83.0	103	P/P	27 - 170
2336507	Phenothrin	78.8	83.8	P/P	10 - 133
2336507	Piperonyl Butoxide	83.7	96.5	P/P	23 - 150
2336507	Prallethrin	72.1	81.8	P/P	21 - 113
2336507	Tau-Fluvalinate	75.1	82.4	P/P	16 - 158
2336507	Tetramethrin	98.1	119	P/P	22 - 132
2336507	Trans-Nonachlor	63.6	67.0	P/P	43 - 102
2336507	Triclosan Methyl	70.0	67.8	P/P	49 - 109
2336507	Trifluralin	71.0	69.9	P/P	48 - 93.0
2336762	PCB-1016	84.6	84.0	P/P	46 - 110
2336762	PCB-1260	81.9	79.9	P/P	42 - 111

Reference Method: EPA 8276

Batch ID: P415743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336762	Chlordane	103	96.3	P/P	55 - 128
2336762	Toxaphene	107	107	P/P	57 - 211

Reference Method: EPA 8321B

Batch ID: P415517

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2335341	Acesulfame K	80.6	79.9	P/P	40 - 150
2335341	AMPA	104	100	P/P	40 - 150
2335341	Endothall	108	112	P/P	40 - 150
2335341	Glufosinate	94.8	97.4	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P415517

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2335341	Glyphosate	87.7	94.8	P/P	40 - 150
2335341	Sucralose	94.0	96.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P415542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2335680	2,4-D	80.4	55.2	P/P	40 - 150
2335680	2,4,5-T	43.1	29.3	P/F	40 - 150
2335680	Acetaminophen	96.2	93.8	P/P	30 - 150
2335680	Acetamiprid	93.2	83.2	P/P	40 - 150
2335680	Afidopyropen	84.1	66.4	P/P	30 - 150
2335680	Benzovindiflupyr	94.2	87.7	P/P	40 - 150
2335680	Carbamazepine	92.8	94.4	P/P	40 - 150
2335680	Clothianidin	112	108	P/P	40 - 150
2335680	Dinotefuran	137	129	P/P	40 - 150
2335680	Diuron	83.2	77.9	P/P	40 - 150
2335680	Fenuron	82.5	76.4	P/P	40 - 150
2335680	Hydrocodone	99.1	91.1	P/P	40 - 150
2335680	Ibuprofen	49.7	47.8	P/P	40 - 150
2335680	Imidacloprid	158	137	F/P	40 - 150
2335680	Linuron	75.2	82.1	P/P	40 - 150
2335680	Mandestrobin	79.6	75.5	P/P	40 - 150
2335680	MCPP	66.6	59.3	P/P	40 - 150
2335680	Naproxen	27.6	58.0	F/P	40 - 150
2335680	Primidone	92.5	93.2	P/P	40 - 150
2335680	Pyraclostrobin	86.0	79.5	P/P	40 - 150
2335680	Silvex	52.5	42.6	P/P	40 - 150
2335680	Thiamethoxam	150	142	F/P	40 - 150
2335680	Tolfenpyrad	51.6	50.3	P/P	30 - 150
2335680	Triclopyr	44.5	35.1	P/F	40 - 150

Reference Method: EPA 8321B
Batch ID: P415664

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336088	3-Hydroxycarbofuran	85.1	89.0	P/P	40 - 150
2336088	Aldicarb	53.1	73.7	P/P	30 - 150
2336088	Aldicarb Sulfone	95.1	98.2	P/P	40 - 150
2336088	Aldicarb Sulfoxide	49.6	53.5	P/P	40 - 150
2336088	Carbaryl	73.0	80.5	P/P	40 - 150
2336088	Carbofuran	78.1	82.0	P/P	40 - 150
2336088	Methiocarb	75.0	78.4	P/P	40 - 150
2336088	Methomyl	77.8	84.0	P/P	40 - 150
2336088	Oxamyl	86.1	88.0	P/P	40 - 150
2336088	Propoxur	72.2	66.9	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P415772

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336312	Fluoride	101	101	P/P	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P415818

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336228	Organic Carbon	97.1	99.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P415578

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336227	Color (true)	1.10	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336231	Turbidity	6.84	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415596

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336176	Calcium	0.0830	Spike	P	0 - 20
2336176	Iron	1.74	Spike	P	0 - 20
2336176	Magnesium	1.14	Spike	P	0 - 20
2336176	Potassium	1.70	Spike	P	0 - 20
2336176	Sodium	0.301	Spike	P	0 - 20
2336176	Strontium	1.03	Spike	P	0 - 20
2336176	Tin	0.498	Spike	P	0 - 20
2336176	Titanium	0.568	Spike	P	0 - 20
2336176	Vanadium	0.540	Spike	P	0 - 20
2336176	Zinc	1.04	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415596

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336176	Aluminum	2.64	Spike	P	0 - 20
2336176	Antimony	0.786	Spike	P	0 - 20
2336176	Arsenic	0.990	Spike	P	0 - 20
2336176	Barium	0.369	Spike	P	0 - 20
2336176	Beryllium	2.94	Spike	P	0 - 20
2336176	Boron	3.81	Spike	P	0 - 20
2336176	Cadmium	0.970	Spike	P	0 - 20
2336176	Chromium	0.434	Spike	P	0 - 20
2336176	Cobalt	0.277	Spike	P	0 - 20
2336176	Copper	0.437	Spike	P	0 - 20
2336176	Lead	1.17	Spike	P	0 - 20
2336176	Manganese	0.522	Spike	P	0 - 20
2336176	Molybdenum	1.06	Spike	P	0 - 20
2336176	Nickel	0.266	Spike	P	0 - 20
2336176	Selenium	0.408	Spike	P	0 - 20
2336176	Silver	6.40	Spike	P	0 - 20
2336176	Thallium	2.25	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336204	Chloride	0.252	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336204	Sulfate	0.160	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415883

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336228	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336404	Kjeldahl Nitrogen	2.66	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415869

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336185	Kjeldahl Nitrogen	0.302	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415919

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336228	Kjeldahl Nitrogen	2.33	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416273

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336203	NO2NO3-N	0.825	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415814

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336164	Total-P	0.372	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P415850

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336314	Total-P	0.0	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P415527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2335685	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	6.63	Spike	P	0 - 30
2335685	Acetochlor	12.9	Spike	P	0 - 27
2335685	Alachlor	20.4	Spike	P	0 - 27
2335685	Ametryn	27.2	Spike	P	0 - 34
2335685	Atrazine	3.59	Spike	P	0 - 41
2335685	Atrazine Desethyl	4.88	Spike	P	0 - 38
2335685	Avobenzone	4.93	Spike	P	0 - 30
2335685	Azinphos Methyl	79.3	Spike	F	0 - 62
2335685	Azoxystrobin	15.4	Spike	P	0 - 32
2335685	Bromacil	1.81	Spike	P	0 - 30
2335685	Butylate	10.9	Spike	P	0 - 59
2335685	Caffeine	6.08	Spike	P	0 - 60
2335685	Carbophenothion	1.95	Spike	P	0 - 25
2335685	Carfentrazone Ethyl	6.99	Spike	P	0 - 26
2335685	Chlorfenapyr	12.5	Spike	P	0 - 30
2335685	Chlorpyrifos Ethyl	8.08	Spike	P	0 - 27
2335685	Chlorpyrifos Methyl	2.87	Spike	P	0 - 26
2335685	Coumaphos	9.59	Spike	P	0 - 30
2335685	Cyanazine	9.18	Spike	P	0 - 58
2335685	Cyprodinil	8.36	Spike	P	0 - 30
2335685	Demeton	11.9	Spike	P	0 - 25
2335685	Diazinon	12.4	Spike	P	0 - 29
2335685	Difenoconazole	4.70	Spike	P	0 - 25
2335685	Dimethenamid	6.31	Spike	P	0 - 30
2335685	Dimethomorph	21.4	Spike	P	0 - 30
2335685	Disulfoton	5.13	Spike	P	0 - 33
2335685	Dithiopyr	4.33	Spike	P	0 - 22
2335685	EPTC	11.4	Spike	P	0 - 38
2335685	Ethion	18.1	Spike	P	0 - 79
2335685	Ethoprop	3.01	Spike	P	0 - 23
2335685	Etridiazole	20.1	Spike	P	0 - 30
2335685	Fenamiphos	14.8	Spike	P	0 - 58
2335685	Fenbuconazole	0.0177	Spike	P	0 - 37
2335685	Fipronil	10.2	Spike	P	0 - 33
2335685	Fipronil Desulfinyl	9.62	Spike	P	0 - 26
2335685	Fipronil Sulfide	12.6	Spike	P	0 - 37
2335685	Fipronil Sulfone	2.00	Spike	P	0 - 50
2335685	Fluazifop-P-butyl	3.83	Spike	P	0 - 24
2335685	Fludioxonil	8.74	Spike	P	0 - 26
2335685	Flumioxazin	17.3	Spike	P	0 - 37
2335685	Flutolanil	13.9	Spike	P	0 - 26
2335685	Fluxapyroxad	40.4	Spike	F	0 - 34
2335685	Fonofos	19.0	Spike	P	0 - 27
2335685	Hexazinone	10.8	Spike	P	0 - 36

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P415527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2335685	Imazalil	11.9	Spike	P	0 - 65
2335685	Iprodione	0.832	Spike	P	0 - 33
2335685	Loratadine	47.7	Spike	F	0 - 30
2335685	Malathion	8.24	Spike	P	0 - 44
2335685	Metalaxyl	1.42	Spike	P	0 - 38
2335685	Metolachlor	4.08	Spike	P	0 - 36
2335685	Metribuzin	11.5	Spike	P	0 - 63
2335685	Mevinphos	7.12	Spike	P	0 - 26
2335685	Molinate	11.8	Spike	P	0 - 40
2335685	Myclobutanil	12.4	Spike	P	0 - 21
2335685	Naled	20.1	Spike	P	0 - 26
2335685	Napropamide	26.1	Spike	P	0 - 30
2335685	Norflurazon	4.93	Spike	P	0 - 24
2335685	Octinoxate	5.76	Spike	P	0 - 30
2335685	Oxadiazon	8.32	Spike	P	0 - 27
2335685	Oxybenzone	0.920	Spike	P	0 - 30
2335685	Oxyfluorfen	3.01	Spike	P	0 - 24
2335685	Parathion Ethyl	3.40	Spike	P	0 - 28
2335685	Parathion Methyl	1.43	Spike	P	0 - 27
2335685	PBDE-47	18.0	Spike	P	0 - 30
2335685	PBDE-99	23.7	Spike	P	0 - 30
2335685	Pendimethalin	3.29	Spike	P	0 - 31
2335685	Phenytoin	104	Spike	F	0 - 30
2335685	Phorate	13.1	Spike	P	0 - 27
2335685	Prodiamine	5.34	Spike	P	0 - 52
2335685	Prometon	6.56	Spike	P	0 - 31
2335685	Prometryn	7.35	Spike	P	0 - 28
2335685	Pronamide	0.709	Spike	P	0 - 26
2335685	Propanil	20.1	Spike	P	0 - 30
2335685	Propargite	21.6	Spike	P	0 - 30
2335685	Propiconazole	8.18	Spike	P	0 - 31
2335685	Pyraflufen Ethyl	0.376	Spike	P	0 - 30
2335685	Pyridaben	2.89	Spike	P	0 - 30
2335685	Pyriproxyfen	10.7	Spike	P	0 - 50
2335685	Simazine	0.874	Spike	P	0 - 29
2335685	Stirophos	12.0	Spike	P	0 - 30
2335685	Sulfentrazone	2.59	Spike	P	0 - 33
2335685	Tebuconazole	11.9	Spike	P	0 - 44
2335685	Terbufos	13.0	Spike	P	0 - 29
2335685	Terbutylazine	0.639	Spike	P	0 - 27
2335685	Thiobencarb	14.6	Spike	P	0 - 30
2335685	Tri-o-cresyl Phosphate	3.66	Spike	P	0 - 30
2335685	Triadimefon	1.23	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P415743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336507	Aldrin	8.52	Spike	P	0 - 37
2336507	Alpha-BHC	2.27	Spike	P	0 - 16

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P415743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336507	Alpha-Chlordane	1.80	Spike	P	0 - 28
2336507	Beta-BHC	2.40	Spike	P	0 - 32
2336507	Beta-Cyfluthrin	16.3	Spike	P	0 - 41
2336507	Bifenthrin	1.36	Spike	P	0 - 36
2336507	Carbophenothion	10.5	Spike	P	0 - 30
2336507	Chlorothalonil	14.9	Spike	P	0 - 54
2336507	Cis-Nonachlor	1.70	Spike	P	0 - 33
2336507	Cypermethrin	17.3	Spike	P	0 - 38
2336507	Dacthal	5.01	Spike	P	0 - 23
2336507	DDD-p,p'	9.97	Spike	P	0 - 35
2336507	DDE-p,p'	0.840	Spike	P	0 - 27
2336507	DDT-p,p'	2.08	Spike	P	0 - 31
2336507	Delta-BHC	1.70	Spike	P	0 - 30
2336507	Deltamethrin	17.6	Spike	P	0 - 76
2336507	Dichlobenil	0.942	Spike	P	0 - 33
2336507	Dicofol	0.155	Spike	P	0 - 24
2336507	Dieldrin	4.04	Spike	P	0 - 35
2336507	Endosulfan I	7.01	Spike	P	0 - 25
2336507	Endosulfan II	9.85	Spike	P	0 - 31
2336507	Endosulfan Sulfate	11.1	Spike	P	0 - 38
2336507	Endrin	6.38	Spike	P	0 - 53
2336507	Endrin Aldehyde	8.33	Spike	P	0 - 81
2336507	Endrin Ketone	0.401	Spike	P	0 - 33
2336507	Esfenvalerate	13.5	Spike	P	0 - 46
2336507	Ethalfuralin	7.93	Spike	P	0 - 22
2336507	Fenpropathrin	7.19	Spike	P	0 - 29
2336507	Gamma-BHC	0.316	Spike	P	0 - 17
2336507	Gamma-Chlordane	4.10	Spike	P	0 - 28
2336507	Heptachlor	12.1	Spike	P	0 - 28
2336507	Heptachlor Epoxide	0.643	Spike	P	0 - 23
2336507	Hexachlorobenzene	8.71	Spike	P	0 - 22
2336507	Kepone	14.7	Spike	P	0 - 61
2336507	Lambda-Cyhalothrin	5.33	Spike	P	0 - 52
2336507	Methoprene	2.47	Spike	P	0 - 38
2336507	Methoxychlor	2.08	Spike	P	0 - 29
2336507	MGK-264	15.7	Spike	P	0 - 41
2336507	Mirex	3.65	Spike	P	0 - 39
2336507	Oxychlordane	5.45	Spike	P	0 - 33
2336507	Permethrin	22.0	Spike	P	0 - 39
2336507	Phenothrin	6.13	Spike	P	0 - 52
2336507	Piperonyl Butoxide	14.1	Spike	P	0 - 91
2336507	Prallethrin	12.6	Spike	P	0 - 34
2336507	Tau-Fluvalinate	9.27	Spike	P	0 - 41
2336507	Tetramethrin	19.2	Spike	P	0 - 43
2336507	Trans-Nonachlor	5.25	Spike	P	0 - 31
2336507	Triclosan Methyl	3.11	Spike	P	0 - 24
2336507	Trifluralin	1.51	Spike	P	0 - 23
2336762	PCB-1016	0.701	Spike	P	0 - 32
2336762	PCB-1260	2.49	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P415743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336762	Chlordane	6.52	Spike	P	0 - 25
2336762	Toxaphene	0.00717	Spike	P	0 - 24

Reference Method: EPA 8321B
Batch ID: P415517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2335341	Acesulfame K	0.916	Spike	P	0 - 30
2335341	AMPA	3.24	Spike	P	0 - 30
2335341	Endothall	3.05	Spike	P	0 - 30
2335341	Glufosinate	2.62	Spike	P	0 - 30
2335341	Glyphosate	7.05	Spike	P	0 - 30
2335341	Sucralose	2.98	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P415542

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2335680	2,4-D	19.8	Spike	P	0 - 30
2335680	2,4,5-T	38.2	Spike	F	0 - 30
2335680	Acetaminophen	2.51	Spike	P	0 - 30
2335680	Acetamiprid	11.4	Spike	P	0 - 30
2335680	Afidopyropen	23.5	Spike	P	0 - 30
2335680	Bentazon	5.57	Spike	P	0 - 30
2335680	Benzovindiflupyr	7.18	Spike	P	0 - 30
2335680	Carbamazepine	1.75	Spike	P	0 - 30
2335680	Clothianidin	4.11	Spike	P	0 - 30
2335680	Dinotefuran	5.75	Spike	P	0 - 30
2335680	Diuron	5.60	Spike	P	0 - 30
2335680	Fenuron	7.69	Spike	P	0 - 30
2335680	Fluridone	1.26	Spike	P	0 - 30
2335680	Hydrocodone	8.37	Spike	P	0 - 30
2335680	Ibuprofen	3.99	Spike	P	0 - 30
2335680	Imazapyr	3.68	Spike	P	0 - 30
2335680	Imidacloprid	13.8	Spike	P	0 - 30
2335680	Linuron	8.74	Spike	P	0 - 30
2335680	Mandestrobin	5.25	Spike	P	0 - 30
2335680	MCPP	11.6	Spike	P	0 - 30
2335680	Naproxen	71.1	Spike	F	0 - 30
2335680	Primidone	0.743	Spike	P	0 - 30
2335680	Pyraclostrobin	7.85	Spike	P	0 - 30
2335680	Silvex	20.8	Spike	P	0 - 30
2335680	Thiamethoxam	5.99	Spike	P	0 - 30
2335680	Tolfenpyrad	2.45	Spike	P	0 - 30
2335680	Triclopyr	23.5	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
 Batch ID: P415664

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336088	3-Hydroxycarbofuran	4.49	Spike	P	0 - 30
2336088	Aldicarb	32.5	Spike	F	0 - 30
2336088	Aldicarb Sulfone	3.21	Spike	P	0 - 30
2336088	Aldicarb Sulfoxide	7.56	Spike	P	0 - 30
2336088	Carbaryl	9.70	Spike	P	0 - 30
2336088	Carbofuran	4.77	Spike	P	0 - 30
2336088	Methiocarb	4.43	Spike	P	0 - 30
2336088	Methomyl	7.61	Spike	P	0 - 30
2336088	Oxamyl	2.17	Spike	P	0 - 30
2336088	Propoxur	7.52	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
 Batch ID: P415768

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336312	Total Alkalinity	0.00338	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
 Batch ID: P415903

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336200	TDS	9.41	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
 Batch ID: P415772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336312	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
 Batch ID: P415818

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336228	Organic Carbon	1.09	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2336244
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	66.4	P	30 - 160

Lab Sample ID: 2336245
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	55.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	92.4	P	30 - 160
EPA 8321B	Diuron-d6	71.3	P	30 - 160
EPA 8321B	Endothall-d6	104	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	71.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.2	P	30 - 160
EPA 8321B	Primidone-d5	87.7	P	30 - 160
EPA 8321B	Sucralose-d6	99.4	P	30 - 160

Lab Sample ID: 2336246
Field Sample ID: G3SD0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	58.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	97.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	88.2	P	30 - 160
EPA 8321B	Diuron-d6	71.3	P	30 - 160
EPA 8321B	Endothall-d6	113	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	75.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.2	P	30 - 160
EPA 8321B	Primidone-d5	89.1	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	30 - 160

Lab Sample ID: 2336247
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	88.1	P	38 - 115
EPA 8270E	Decachlorobiphenyl	82.1	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	65.1	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	66.3	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	70.0	P	30 - 97.0
EPA 8276	PCNB	99.4	P	45 - 119

Lab Sample ID: 2336248
Field Sample ID: G4SD0174

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	32.0	P	20 - 200
EPA 8270E	Simazine-d10	75.1	P	71 - 140
EPA 8270E	Terbufos-d10	79.0	P	62 - 131
EPA 8270E	Terphenyl-d14	63.9	P	52 - 141

Quality Assurance Report Surrogates

Lab Sample ID: 2336249

Field Sample ID: G3SD0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	93.2	P	38 - 115
EPA 8270E	Decachlorobiphenyl	92.8	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	68.2	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	69.0	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	84.9	P	30 - 97.0
EPA 8276	PCNB	101	P	45 - 119

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A112988

Included Lab Sample IDs: 2336227, 2336229, 2336231, 2336233

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.1	97.7	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A112991

Included Lab Sample IDs: 2336227, 2336229, 2336231, 2336233

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A113016

Included Lab Sample IDs: 2336245, 2336246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	104	101	P/P	60 - 160
Endothall	80.6	68.8	P/P	60 - 160
Glufosinate	92.2	84.0	P/P	60 - 160
Glyphosate	102	101	P/P	60 - 160
Glyphosate	96.7	98.3	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A113034

Included Lab Sample IDs: 2336245, 2336246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	99.8	87.3	P/P	50 - 150
2,4,5-T	112	109	P/P	50 - 150
Acetaminophen	98.6	96.1	P/P	60 - 160
Acetamiprid	105	105	P/P	50 - 150
Afidopyropen	89.6	91.3	P/P	50 - 150
Bentazon	94.5	95.4	P/P	50 - 160
Benzovindiflupyr	107	104	P/P	50 - 150
Carbamazepine	101	106	P/P	60 - 150
Clothianidin	108	91.6	P/P	60 - 150
Dinotefuran	102	104	P/P	50 - 150
Diuron	98.0	86.5	P/P	60 - 160
Fenuron	98.2	94.8	P/P	60 - 150
Fluridone	110	107	P/P	60 - 160
Hydrocodone	104	99.7	P/P	60 - 150
Ibuprofen	80.5	95.5	P/P	50 - 160
Imazapyr	85.2	80.6	P/P	50 - 150
Imidacloprid	101	98.7	P/P	60 - 150
Linuron	86.8	109	P/P	60 - 150
Mandestrobin	99.2	96.8	P/P	50 - 150
MCPP	109	118	P/P	50 - 150
Naproxen	89.2	86.1	P/P	50 - 160
Primidone	96.2	90.1	P/P	60 - 150
Pyraclostrobin	101	101	P/P	60 - 150
Silvex	96.7	92.6	P/P	50 - 150
Thiamethoxam	98.9	106	P/P	50 - 150
Tolfenpyrad	101	97.0	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A113034

Included Lab Sample IDs: 2336245, 2336246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Triclopyr	103	102	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A113044

Included Lab Sample IDs: 2336245, 2336246

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	75.6	74.1	P/P	60 - 160
Sucralose	94.9	93.9	P/P	60 - 160

Reference Method: SM 2320 B-2011

Run ID: A113067

Included Lab Sample IDs: 2336227, 2336229, 2336231, 2336233

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	99.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A113067

Included Lab Sample IDs: 2336227, 2336229, 2336231, 2336233

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

Reference Method: SM 5310 B-2011

Run ID: A113098

Included Lab Sample IDs: 2336228, 2336230, 2336232, 2336234

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.9	101	P/P	90 - 110
Organic Carbon	99.0	98.9	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113130

Included Lab Sample IDs: 2336250

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.5	99.8	P/P	90 - 110
Antimony	99.0	97.5	P/P	90 - 110
Arsenic	98.7	98.9	P/P	90 - 110
Barium	99.3	99.1	P/P	90 - 110
Boron	95.8	99.5	P/P	90 - 110
Cadmium	98.7	99.2	P/P	90 - 110
Chromium	96.9	97.0	P/P	90 - 110
Cobalt	98.7	98.3	P/P	90 - 110
Copper	95.5	96.1	P/P	90 - 110
Lead	96.0	95.7	P/P	90 - 110
Manganese	97.5	97.5	P/P	90 - 110
Molybdenum	98.2	98.3	P/P	90 - 110
Nickel	98.0	97.6	P/P	90 - 110
Selenium	97.8	98.3	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113130

Included Lab Sample IDs: 2336250

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	101	100	P/P	90 - 110
Thallium	98.0	97.0	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113131

Included Lab Sample IDs: 2336248

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.9		P	80 - 120
Alachlor	97.4		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine Desethyl	98.3		P	80 - 120
Azinphos Methyl	90.9		P	80 - 120
Bromacil	97.9		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	97.8		P	80 - 120
Carbophenothion	88.5		P	80 - 120
Carfentrazone Ethyl	89.1		P	80 - 120
Chlorfenapyr	96.7		P	80 - 120
Chlorpyrifos Ethyl	81.2		P	80 - 120
Chlorpyrifos Methyl	88.8		P	80 - 120
Coumaphos	98.2		P	80 - 120
Cyanazine	91.0		P	80 - 120
Cyprodinil	92.5		P	80 - 120
Demeton	95.5		P	80 - 120
Diazinon	102		P	80 - 120
Difenoconazole	87.9		P	80 - 120
Dimethomorph	97.4		P	80 - 120
Disulfoton	87.8		P	80 - 120
Dithiopyr	98.8		P	80 - 120
EPTC	99.7		P	80 - 120
Ethion	80.7		P	80 - 120
Ethoprop	88.9		P	80 - 120
Etridiazole	99.0		P	80 - 120
Fenamiphos	86.3		P	80 - 120
Fipronil	98.2		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	100		P	80 - 120
Fludioxonil	96.6		P	80 - 120
Flutolanil	91.0		P	80 - 120
Fluxapyroxad	92.0		P	80 - 120
Fonofos	104		P	80 - 120
Imazalil	92.1		P	80 - 120
Iprodione	92.9		P	80 - 120
Loratadine	107		P	80 - 120
Malathion	96.0		P	80 - 120
Metalaxyl	95.1		P	80 - 120
Metribuzin	99.1		P	80 - 120
Mevinphos	94.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113131
Included Lab Sample IDs: 2336248

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Molinate	104		P	80 - 120
Myclobutanil	99.5		P	80 - 120
Naled	97.9		P	80 - 120
Napropamide	95.0		P	80 - 120
Norflurazon	93.7		P	80 - 120
Oxadiazon	107		P	80 - 120
Oxyfluorfen	94.3		P	80 - 120
Parathion Ethyl	94.1		P	80 - 120
Parathion Methyl	96.6		P	80 - 120
Pendimethalin	95.8		P	80 - 120
Phenytol	87.7		P	80 - 120
Phorate	93.6		P	80 - 120
Prodiamine	103		P	80 - 120
Prometon	95.2		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	91.8		P	80 - 120
Propargite	94.1		P	80 - 120
Propiconazole	91.4		P	80 - 120
Pyraflufen Ethyl	97.2		P	80 - 120
Pyridaben	88.5		P	80 - 120
Pyriproxyfen	93.2		P	80 - 120
Stiophos	94.7		P	80 - 120
Tebuconazole	87.7		P	80 - 120
Terbufos	93.1		P	80 - 120
Terbuthylazine	93.3		P	80 - 120
Thiobencarb	86.7		P	80 - 120
Triadimefon	101		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A113138
Included Lab Sample IDs: 2336228, 2336230, 2336232, 2336234

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	99.3	P/P	90 - 110
Ammonia-N	99.2	98.9	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A113148
Included Lab Sample IDs: 2336250

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	96.6	98.2	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A113154
Included Lab Sample IDs: 2336244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	98.6	96.1	P/P	60 - 150
Aldicarb	93.8	94.5	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A113154
Included Lab Sample IDs: 2336244

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldicarb Sulfone	105	107	P/P	50 - 150
Aldicarb Sulfoxide	103	105	P/P	50 - 150
Carbaryl	113	101	P/P	60 - 150
Carbofuran	109	101	P/P	50 - 150
Methiocarb	111	107	P/P	50 - 150
Methomyl	100	97.7	P/P	50 - 150
Oxamyl	101	101	P/P	50 - 150
Propoxur	101	97.2	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A113156
Included Lab Sample IDs: 2336227, 2336229, 2336231, 2336233

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A113174
Included Lab Sample IDs: 2336250

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.2	99.6	P/P	90 - 110
Iron	100	102	P/P	90 - 110
Magnesium	99.9	101	P/P	90 - 110
Potassium	102	103	P/P	90 - 110
Sodium	100	101	P/P	90 - 110
Strontium	99.4	99.9	P/P	90 - 110
Tin	98.4	99.3	P/P	90 - 110
Titanium	97.3	98.5	P/P	90 - 110
Vanadium	98.4	98.8	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A113176
Included Lab Sample IDs: 2336248

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.7		P	80 - 120
Avobenzene	96.3		P	80 - 120
Octinoxate	94.8		P	80 - 120
Oxybenzone	101		P	80 - 120
PBDE-47	95.6		P	80 - 120
PBDE-99	94.2		P	80 - 120
Tri-o-cresyl Phosphate	98.2		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A113179
Included Lab Sample IDs: 2336232

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113201

Included Lab Sample IDs: 2336230, 2336234

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113207

Included Lab Sample IDs: 2336230, 2336232, 2336234

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	99.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113208

Included Lab Sample IDs: 2336228

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A113217

Included Lab Sample IDs: 2336250

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Zinc	97.2	99.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113239

Included Lab Sample IDs: 2336228

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

Reference Method: EPA 8270E

Run ID: A113249

Included Lab Sample IDs: 2336247, 2336249

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	103		P	80 - 120
Alpha-BHC	99.9		P	80 - 120
Alpha-Chlordane	106		P	80 - 120
Beta-BHC	99.9		P	80 - 120
Beta-Cyfluthrin	107		P	80 - 120
Bifenthrin	99.8		P	80 - 120
Carbophenothion	102		P	80 - 120
Chlorothalonil	92.2		P	80 - 120
Cis-Nonachlor	101		P	80 - 120
Cypermethrin	95.8		P	80 - 120
Dacthal	106		P	80 - 120
DDD-p,p'	104		P	80 - 120
DDE-p,p'	108		P	80 - 120
DDT-p,p'	99.4		P	80 - 120
Delta-BHC	95.4		P	80 - 120
Deltamethrin	95.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113249

Included Lab Sample IDs: 2336247, 2336249

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dichlobenil	98.3		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	105		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	103		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	97.1		P	80 - 120
Endrin Ketone	105		P	80 - 120
Esfenvalerate	98.8		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	106		P	80 - 120
Gamma-BHC	99.9		P	80 - 120
Gamma-Chlordane	102		P	80 - 120
Heptachlor	99.6		P	80 - 120
Heptachlor Epoxide	104		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	56.7*		F	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoprene	99.0		P	80 - 120
Methoxychlor	93.8		P	80 - 120
MGK-264	98.7		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	98.7		P	80 - 120
Permethrin	104		P	80 - 120
Phenothrin	100		P	80 - 120
Piperonyl Butoxide	89.5		P	80 - 120
Prallethrin	96.2		P	80 - 120
Tau-Fluvalinate	100		P	80 - 120
Tetramethrin	94.2		P	80 - 120
Trans-Nonachlor	108		P	80 - 120
Triclosan Methyl	105		P	80 - 120
Trifluralin	96.8		P	80 - 120

Reference Method: EPA 8270E

Run ID: A113265

Included Lab Sample IDs: 2336248

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	99.8		P	80 - 120
Azoxystrobin	97.4		P	80 - 120
Dimethenamid	100		P	80 - 120
Fenbuconazole	94.5		P	80 - 120
Flumioxazin	88.1		P	80 - 120
Hexazinone	101		P	80 - 120
Metolachlor	95.8		P	80 - 120
Simazine	107		P	80 - 120
Sulfentrazone	93.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A113266

Included Lab Sample IDs: 2336247, 2336249

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	93.7		P	80 - 120
PCB-1260	100		P	80 - 120

Reference Method: EPA 8276

Run ID: A113306

Included Lab Sample IDs: 2336247, 2336249

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.6		P	80 - 120
Toxaphene	110		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A113334

Included Lab Sample IDs: 2336228, 2336230, 2336232, 2336234

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	101	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	98.9					1.10	
EPA 180.1 Rev. 2.0	Turbidity	96.1					6.84	
EPA 200.7 Rev. 4.4	Calcium	101	104	100				0.0830
	Iron	104	105	107	105			1.74
	Magnesium	105	107	107	106			1.14
	Potassium	105	106	107	105			1.70
	Sodium	103	105	106	106			0.301
	Strontium	103	103	104	103			1.03
	Tin	106	106	104	105			0.498
	Titanium	104	102	106	105			0.568
	Vanadium	95.3	95.3	95.8	95.3			0.540
	Zinc	102	100	102	101			1.04
EPA 200.8 Rev. 5.4	Aluminum	97.5	98.1	101	97.8			2.64
	Antimony	99.1	99.5	100	99.4			0.786
	Arsenic	99.5	99.5	100	99.5			0.990
	Barium	104	103	103	103			0.369
	Beryllium	99.1	96.8	99.7	98.2			2.94
	Boron	98.8	99.4	104	102			3.81
	Cadmium	97.7	98.6	99.5	100			0.970
	Chromium	96.9	98.0	98.4	98.7			0.434
	Cobalt	101	100	99.9	99.4			0.277
	Copper	97.9	98.0	98.4	96.3			0.437
	Lead	96.9	97.4	98.5	97.0			1.17
	Manganese	98.1	100	99.2	97.7			0.522
	Molybdenum	99.7	100	101	100			1.06
	Nickel	98.7	99.3	99.1	97.9			0.266
	Selenium	98.0	96.7	97.1	96.4			0.408
	Silver	99.3	100	93.9	99.0			6.40
	Thallium	99.7	101	104	102			2.25
EPA 300.0 Rev. 2.1	Chloride	98.9	98.7	97.4			0.252	
	Sulfate	98.9	96.2	94.9			0.160	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	97.8	97.8				0.0
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	104	98.6				2.66
	Kjeldahl Nitrogen	104						0.302
	Kjeldahl Nitrogen	103						2.33
EPA 353.2 Rev. 2.0	NO2NO3-N	100	105	104				0.825
EPA 365.1 Rev. 2.0	Total-P	107	105	105				0.372
	Total-P	101	104	104				0.0
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.3	74.5	79.6				6.63
	Acetochlor	84.5	76.6	87.2				12.9
	Alachlor	77.1	65.9	80.8				20.4
	Aldrin	57.2	50.7	55.2				8.52
	Alpha-BHC	92.1	92.2	94.3				2.27
	Alpha-Chlordane	88.4	65.2	64.1				1.80
	Ametryn	90.5	88.5	62.8				27.2
	Atrazine	78.6						3.59
	Atrazine Desethyl	42.0	42.0	40.0				4.88
	Avobenzone	109	89.5	94.0				4.93
	Azinphos Methyl	95.9	59.4	137				79.3
	Azoxystrobin	85.9	83.2	97.0				15.4
	Beta-BHC	104	114	117				2.40
	Beta-Cyfluthrin	96.6	79.8	94.0				16.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Bifenthrin	72.2	73.7	72.7		1.36
	Bromacil	65.7	51.6	50.7		1.81
	Butylate	45.1	40.3	36.2		10.9
	Caffeine	83.6	88.7	83.3		6.08
	Carbophenothion	93.5	99.4	97.4		1.95
	Carbophenothion	63.6	69.9	77.7		10.5
	Carfentrazone Ethyl	108	102	110		6.99
	Chlorfenapyr	67.5	62.8	55.4		12.5
	Chlorothalonil	82.1	30.2	35.1		14.9
	Chlorpyrifos Ethyl	61.4	52.4	56.8		8.08
	Chlorpyrifos Methyl	75.7	65.2	67.1		2.87
	Cis-Nonachlor	70.6	61.6	60.6		1.70
	Coumaphos	174	159	145		9.59
	Cyanazine	77.6	65.3	71.6		9.18
	Cypermethrin	84.9	73.1	86.9		17.3
	Cyprodinil	72.9	64.1	69.7		8.36
	Dacthal	93.4	84.5	88.9		5.01
	DDD-p,p'	74.3	60.0	66.3		9.97
	DDE-p,p'	87.5	68.7	68.1		0.840
	DDT-p,p'	74.5	62.1	63.4		2.08
	Delta-BHC	123	140	138		1.70
	Deltamethrin	88.8	77.3	92.2		17.6
	Demeton	63.4	64.4	57.2		11.9
	Diazinon	116	100	114		12.4
	Dichlobenil	101	67.5	66.9		0.942
	Dicofol	69.6	60.1	60.2		0.155
	Dieldrin	87.7	63.0	65.8		4.04
	Difenoconazole	91.7	193	203		4.70
	Dimethenamid	72.4	66.6	71.0		6.31
	Dimethomorph	92.3	102	82.0		21.4
	Disulfoton	83.1	73.2	69.5		5.13
	Dithiopyr	89.5	84.6	81.0		4.33
	Endosulfan I	94.5	78.0	83.7		7.01
	Endosulfan II	79.9	62.5	69.0		9.85
	Endosulfan Sulfate	89.8	75.0	83.8		11.1
	Endrin	76.7	64.5	68.7		6.38
	Endrin Aldehyde	83.8	54.7	59.4		8.33
	Endrin Ketone	88.6	80.0	80.3		0.401
	EPTC	47.6	37.9	33.8		11.4
	Esfenvalerate	87.8	81.1	92.8		13.5
	Ethalfuralin	75.3	66.1	71.6		7.93
	Ethion	55.2	44.4	53.2		18.1
	Ethoprop	87.8	74.2	76.4		3.01
	Etridiazole	49.7	57.2	46.7		20.1
	Fenamiphos	81.4	81.8	70.5		14.8
	Fenbuconazole	135	127	127		0.0177
	Fenpropathrin	77.1	75.3	70.1		7.19
	Fipronil	85.5	75.1	84.9		10.2
	Fipronil Desulfinyl	93.8	99.3	85.5		9.62
	Fipronil Sulfide	89.6				12.6
	Fipronil Sulfone	86.1				2.00
	Fluazifop-P-butyl	85.6	75.5	72.6		3.83
	Fludioxonil	82.4	71.5	78.0		8.74
	Flumioxazin	214	128	157		17.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 8270E	Flutolanil	77.6		65.0	74.7			13.9
	Fluxapyroxad	66.4		43.3	65.2			40.4
	Fonofos	74.6		72.3	59.8			19.0
	Gamma-BHC	99.9		104	104			0.316
	Gamma-Chlordane	82.8		61.2	63.8			4.10
	Heptachlor	65.7		51.2	57.8			12.1
	Heptachlor Epoxide	88.2		76.5	77.0			0.643
	Hexachlorobenzene	77.2		59.4	64.8			8.71
	Hexazinone	85.6		68.1	76.6			10.8
	Imazalil	72.6		66.8	59.3			11.9
	Iprodione	84.0		133	134			0.832
	Kepone	50.7		33.1	38.4			14.7
	Lambda-Cyhalothrin	91.5		88.5	93.4			5.33
	Loratadine	98.0		127	78.3			47.7
	Malathion	96.5		79.6	86.5			8.24
	Metalaxyl	77.7		68.4	67.4			1.42
	Methoprene	80.3		62.6	64.1			2.47
	Methoxychlor	77.3		67.4	66.0			2.08
	Metolachlor	89.5		77.6	80.9			4.08
	Metribuzin	78.1		68.3	76.6			11.5
	Mevinphos	68.0		54.9	59.0			7.12
	MGK-264	89.3		74.7	87.4			15.7
	Mirex	63.0		56.7	54.7			3.65
	Molinate	60.3		54.2	48.1			11.8
	Myclobutanil	82.9		71.1	81.3			12.4
	Naled	69.8		60.5	74.0			20.1
	Napropamide	61.8		45.2	58.8			26.1
	Norflurazon	114		104	99.3			4.93
	Octinoxate	89.3		69.9	74.1			5.76
	Oxadiazon	85.0		74.4	65.5			8.32
	Oxybenzone	84.1		76.5	75.8			0.920
	Oxychlordane	81.8		64.7	68.4			5.45
	Oxyfluorfen	97.9		95.3	98.2			3.01
	Parathion Ethyl	86.1		70.6	73.0			3.40
	Parathion Methyl	98.9		95.4	94.1			1.43
	PBDE-47	88.6		63.6	76.2			18.0
	PBDE-99	82.2		58.0	73.6			23.7
	PCB-1016	88.7		84.6	84.0			0.701
	PCB-1260	86.7		81.9	79.9			2.49
	Pendimethalin	80.0		74.8	77.3			3.29
	Permethrin	99.4		103	83.0			22.0
	Phenothrin	73.5		83.8	78.8			6.13
	Phenytoin	45.9		17.3	54.9			104
	Phorate	81.6		65.6	57.6			13.1
	Piperonyl Butoxide	94.6		96.5	83.7			14.1
	Prallethrin	84.2		81.8	72.1			12.6
	Prodiamine	76.6		80.6	85.1			5.34
	Prometon	69.4		70.5	75.3			6.56
	Prometryn	80.1		72.5	67.4			7.35
	Pronamide	102		95.6	96.3			0.709
	Propanil	65.2		54.2	66.3			20.1
	Propargite	149		132	164			21.6
	Propiconazole	114		106	92.1			8.18
	Pyraflufen Ethyl	111		119	120			0.376

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pyridaben	150	155	160		2.89
	Pyriproxyfen	93.6	70.0	62.8		10.7
	Simazine	74.0	59.2	58.7		0.874
	Stirophos	71.4	49.9	56.3		12.0
	Sulfentrazone	118	114	118		2.59
	Tau-Fluvalinate	77.7	82.4	75.1		9.27
	Tebuconazole	110	93.4	108		11.9
	Terbufos	84.8	90.3	79.3		13.0
	Terbutylazine	90.2	80.6	81.1		0.639
	Tetramethrin	97.0	119	98.1		19.2
	Thiobencarb	75.2	63.6	73.6		14.6
	Trans-Nonachlor	87.6	67.0	63.6		5.25
	Tri-o-cresyl Phosphate	95.0	73.5	76.2		3.66
	Triadimefon	66.5	64.6	65.4		1.23
	Triclosan Methyl	88.3	67.8	70.0		3.11
	Trifluralin	76.5	69.9	71.0		1.51
EPA 8276	Chlordane	98.5	103	96.3		6.52
	Toxaphene	111	107	107		0.0071
EPA 8321B	2,4-D	62.0	80.4	55.2		19.8
	2,4,5-T	40.5	43.1	29.3		38.2
	3-Hydroxycarbofuran	71.9	85.1	89.0		4.49
	Acesulfame K	86.3	80.6	79.9		0.916
	Acetaminophen	75.5	96.2	93.8		2.51
	Acetamiprid	70.1	93.2	83.2		11.4
	Afidopyropen	56.4	84.1	66.4		23.5
	Aldicarb	60.4	53.1	73.7		32.5
	Aldicarb Sulfone	85.5	95.1	98.2		3.21
	Aldicarb Sulfoxide	83.8	49.6	53.5		7.56
	AMPA	107	104	100		3.24
	Bentazon	72.6				5.57
	Benzovindiflupyr	80.1	94.2	87.7		7.18
	Carbamazepine	82.6	92.8	94.4		1.75
	Carbaryl	75.0	73.0	80.5		9.70
	Carbofuran	82.1	78.1	82.0		4.77
	Clothianidin	89.5	112	108		4.11
	Dinotefuran	87.8	137	129		5.75
	Diuron	75.1	83.2	77.9		5.60
	Endothall	105	108	112		3.05
	Fenuron	85.8	82.5	76.4		7.69
	Fluridone	81.5				1.26
	Glufosinate	117	94.8	97.4		2.62
	Glyphosate	101	87.7	94.8		7.05
	Hydrocodone	79.6	99.1	91.1		8.37
	Ibuprofen	67.0	49.7	47.8		3.99
	Imazapyr	82.4				3.68
	Imidacloprid	94.6	158	137		13.8
	Linuron	80.9	75.2	82.1		8.74
	Mandestrobin	79.8	79.6	75.5		5.25
	MCPP	74.9	66.6	59.3		11.6
	Methiocarb	72.1	75.0	78.4		4.43
	Methomyl	74.3	77.8	84.0		7.61
	Naproxen	62.5	27.6	58.0		71.1
	Oxamyl	81.7	86.1	88.0		2.17
	Primidone	94.8	92.5	93.2		0.743

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Propoxur	68.6	72.2	66.9		7.52
	Pyraclostrobin	66.0	86.0	79.5		7.85
	Silvex	45.1	52.5	42.6		20.8
	Sucralose	97.2	94.0	96.9		2.98
	Thiamethoxam	86.5	150	142		5.99
	Tolfenpyrad	37.2	51.6	50.3		2.45
	Triclopyr	46.9	44.5	35.1		23.5
SM 2320 B-2011	Total Alkalinity	101			0.0033	
SM 2540 C-2011	TDS				9.41	
SM 4500-F- C-2011	Fluoride	101	101	101		0.0
SM 5310 B-2011	Organic Carbon	95.2	97.1	99.2		1.09

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2336227, 2336229, 2336231, 2336233
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2336227, 2336229, 2336231, 2336233
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2336250
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2336250
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2336227, 2336229, 2336231, 2336233
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2336227, 2336229, 2336231, 2336233
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2336228, 2336230, 2336232, 2336234
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2336228, 2336230, 2336232, 2336234
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2336228, 2336230, 2336232, 2336234
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2336228, 2336230, 2336232, 2336234
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2336248
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2336247, 2336249
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2336248
EPA 8270E	PCBs in water matrices by GC/MS/MS	2336247, 2336249
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2336247, 2336249
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2336244
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2336245, 2336246
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2336227, 2336229, 2336231, 2336233
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2336250
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2336227, 2336229, 2336231, 2336233
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2336227, 2336229, 2336231, 2336233
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2336227, 2336229, 2336231, 2336233
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2336228, 2336230, 2336232, 2336234

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	06/22/2022			06/22/2022 15:11	Samantha L Bates	2336227
	06/22/2022			06/22/2022 15:12	Samantha L Bates	2336229
	06/22/2022			06/22/2022 15:14	Samantha L Bates	2336231
	06/22/2022			06/22/2022 15:15	Samantha L Bates	2336233
EPA 180.1 Rev. 2.0	06/22/2022			06/22/2022 13:26	Khloe J Berg	2336227
	06/22/2022			06/22/2022 13:29	Khloe J Berg	2336231
	06/22/2022			06/22/2022 13:34	Khloe J Berg	2336229
	06/22/2022			06/22/2022 13:35	Khloe J Berg	2336233
EPA 200.7 Rev. 4.4	06/22/2022	06/23/2022 09:28	Mackenzie Hunt	06/29/2022 21:40	McKinley C Carter	2336250
	06/22/2022	06/23/2022 09:28	Mackenzie Hunt	06/30/2022 13:51	McKinley C Carter	2336250
EPA 200.8 Rev. 5.4	06/22/2022	06/23/2022 09:28	Mackenzie Hunt	06/28/2022 03:21	Emily M Philpot	2336250
	06/22/2022	06/23/2022 09:28	Mackenzie Hunt	06/28/2022 15:08	Alexander Thompson	2336250
EPA 300.0 Rev. 2.1	06/22/2022			06/28/2022 19:49	Anna M. Plaviak	2336227
	06/22/2022			06/28/2022 20:01	Anna M. Plaviak	2336229
	06/22/2022			06/28/2022 20:13	Anna M. Plaviak	2336231
	06/22/2022			06/28/2022 20:25	Anna M. Plaviak	2336233
EPA 350.1 Rev. 2.0	06/22/2022			06/28/2022 11:29	Ping Hua	2336228
	06/22/2022			06/28/2022 11:34	Ping Hua	2336230
	06/22/2022			06/28/2022 11:36	Ping Hua	2336232
	06/22/2022			06/28/2022 12:24	Ping Hua	2336234
EPA 351.2 Rev. 2.0	06/22/2022	06/28/2022 11:30	Simonne.V. Calhoun	06/29/2022 15:56	Alexandra J Mattheus	2336232
	06/22/2022	06/29/2022 14:44	Samantha L Bates	06/30/2022 12:27	Alexandra J Mattheus	2336230
	06/22/2022	06/29/2022 14:44	Samantha L Bates	06/30/2022 12:29	Alexandra J Mattheus	2336234
	06/22/2022	06/30/2022 14:06	Samantha L Bates	07/01/2022 12:08	Alexandra J Mattheus	2336228
EPA 353.2 Rev. 2.0	06/22/2022			07/07/2022 12:36	Judith K. Clark	2336228
	06/22/2022			07/07/2022 12:37	Judith K. Clark	2336230
	06/22/2022			07/07/2022 12:38	Judith K. Clark	2336232
	06/22/2022			07/07/2022 12:40	Judith K. Clark	2336234
EPA 365.1 Rev. 2.0	06/22/2022	06/28/2022 16:02	Adam P Silver	06/30/2022 14:55	James L Waggeberby	2336228
	06/22/2022	06/29/2022 15:05	Simonne.V. Calhoun	06/30/2022 14:01	Simonne.V. Calhoun	2336230
	06/22/2022	06/29/2022 15:05	Simonne.V. Calhoun	06/30/2022 14:02	Simonne.V. Calhoun	2336232
	06/22/2022	06/29/2022 15:05	Simonne.V. Calhoun	06/30/2022 14:03	Simonne.V. Calhoun	2336234
EPA 8270E	06/22/2022	06/23/2022 10:00	Fe-Val Siddell	06/27/2022 00:14	Michael Poppell	2336248
	06/22/2022	06/23/2022 10:00	Fe-Val Siddell	06/29/2022 19:31	Lipi Saha	2336248
	06/22/2022	06/23/2022 10:00	Fe-Val Siddell	07/01/2022 22:41	Michael Poppell	2336248
	06/22/2022	06/23/2022 10:00	Fe-Val Siddell	07/01/2022 23:33	Michael Poppell	2336248
	06/22/2022	06/27/2022 09:00	Fe-Val Siddell	06/30/2022 17:05	Michael Poppell	2336247
	06/22/2022	06/27/2022 09:00	Fe-Val Siddell	06/30/2022 17:35	Michael Poppell	2336249
	06/22/2022	06/27/2022 09:00	Fe-Val Siddell	07/02/2022 02:44	Arthur Maknenko	2336247
	06/22/2022	06/27/2022 09:00	Fe-Val Siddell	07/02/2022 03:14	Arthur Maknenko	2336249

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8276	06/22/2022	06/27/2022 09:00	Fe-Val Siddell	07/04/2022 08:50	Julie Wi	2336247
	06/22/2022	06/27/2022 09:00	Fe-Val Siddell	07/04/2022 09:46	Julie Wi	2336249
EPA 8321B	06/22/2022	06/22/2022 12:00	Umesh Chiluwal	06/22/2022 17:18	Umesh Chiluwal	2336245
	06/22/2022	06/22/2022 12:00	Umesh Chiluwal	06/22/2022 17:31	Umesh Chiluwal	2336246
	06/22/2022	06/22/2022 12:00	Umesh Chiluwal	06/22/2022 21:26	Umesh Chiluwal	2336245
	06/22/2022	06/22/2022 12:00	Umesh Chiluwal	06/23/2022 07:06	Umesh Chiluwal	2336245
	06/22/2022	06/22/2022 12:00	Umesh Chiluwal	06/23/2022 07:21	Umesh Chiluwal	2336246
	06/22/2022	06/23/2022 09:00	June Rhew	06/24/2022 04:08	Juyoung Kim	2336245
	06/22/2022	06/23/2022 09:00	June Rhew	06/24/2022 04:29	Juyoung Kim	2336246
	06/22/2022	06/27/2022 09:00	June Rhew	06/27/2022 19:14	Juyoung Kim	2336244
SM 2320 B-2011	06/22/2022			06/25/2022 12:39	Dale L. Simmons	2336227
	06/22/2022			06/25/2022 12:53	Dale L. Simmons	2336229
	06/22/2022			06/25/2022 13:07	Dale L. Simmons	2336231
	06/22/2022			06/25/2022 13:22	Dale L. Simmons	2336233
SM 2340 B-2011	06/22/2022			06/29/2022 21:40	McKinley C Carter	2336250
SM 2540 C-2011	06/22/2022			06/24/2022 15:21	Yijie Li	2336227, 2336229, 2336231, 2336233
SM 2540 D-2011	06/22/2022			06/24/2022 15:21	Yijie Li	2336227, 2336229, 2336231, 2336233
SM 4500-F- C-2011	06/22/2022			06/25/2022 12:39	Dale L. Simmons	2336227
	06/22/2022			06/25/2022 12:53	Dale L. Simmons	2336229
	06/22/2022			06/25/2022 13:07	Dale L. Simmons	2336231
	06/22/2022			06/25/2022 13:22	Dale L. Simmons	2336233
SM 5310 B-2011	06/22/2022			06/24/2022 14:08	Khloe J Berg	2336228
	06/22/2022			06/24/2022 16:44	Khloe J Berg	2336230
	06/22/2022			06/24/2022 16:58	Khloe J Berg	2336232
	06/22/2022			06/24/2022 17:12	Khloe J Berg	2336234