

Chemical Analysis Report

NW-DIST-2023-06-15-01

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

Event Description: **NW Run**
Request ID: **RQ-2023-06-12-65**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
Pensacola, FL 32502-5794
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 12-JUL-2023 14:36



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: BIG ESCAMBIA CREEK DOWNSTREAM OF FANNIE RD

Collection Date/Time: 06/14/2023 11:00

Field ID: G4NW0421

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2417478	DEP SOP: NU-094-1	Color (true)	56	A	PCU	P431337		
	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P431348		
	EPA 300.0 Rev. 2.1	Chloride	4.1		mg Cl/L	P431682		
		Sulfate	0.86		mg SO4/L	P431685		
	SM 2320 B-2011	Total Alkalinity	2.8		mg CaCO3/L	P431569		
	SM 2540 C-2015	TDS	19	I	mg/L	P431885		
	SM 2540 D-2015	TSS	13		mg/L	P431825		
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P431572		
2417479	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P431528		
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.32		mg N/L	P431539		
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.42		mg N/L	P431724		
	EPA 365.1 Rev. 2.0	Total-P	0.025		mg P/L	P431384		
	SM 5310 B-2011	Organic Carbon	4.7		mg C/L	P431574		
2417494	EPA 8321B	Aldicarb	0.020	U	ug/L	P431332	MS	
		Aldicarb Sulfone	0.0020	U	ug/L	P431332		
		Aldicarb Sulfoxide	0.0020	U	ug/L	P431332		
		Carbaryl	0.0020	U	ug/L	P431332		
		Carbofuran	0.0020	U	ug/L	P431332		
		3-Hydroxycarbofuran	0.0020	U	ug/L	P431332		
		Methiocarb	0.0020	U	ug/L	P431332		
		Methomyl	0.0020	U	ug/L	P431332		
		Oxamyl	0.0027	I	ug/L	P431332		
		Propoxur	0.0020	U	ug/L	P431332		
2417495		2,4-D	0.0046	I	ug/L	P431299		
		Acesulfame K	0.10	U	ug/L	P431314		
		2,4,5-T	0.0040	U	ug/L	P431299		
		AMPA	0.10	U	ug/L	P431314		
		Acetaminophen	0.0080	U	ug/L	P431299		
		Acetamiprid	0.0020	U	ug/L	P431299		
		Endothall	0.25	U	ug/L	P431314		
		Glufosinate	0.10	U	ug/L	P431314		
		Glyphosate	0.10	U	ug/L	P431314		
		Afidopyropen	0.0020	U	ug/L	P431299		
		Bentazon	8.0E-04	U	ug/L	P431299		
		Sucralose	0.12		ug/L	P431314		
		Benzovindiflupyr	0.0020	U	ug/L	P431299		
		Carbamazepine	8.0E-04	U	ug/L	P431299		
		Clothianidin	0.0020	U	ug/L	P431299		
		Dinotefuran	0.0020	U	ug/L	P431299		
		Diuron	0.0020	U	ug/L	P431299		RPD
		Fenuron	0.032	U	ug/L	P431299		
		Fluridone	8.0E-04	U	ug/L	P431299		
		Imazapyr	0.022		ug/L	P431299		

Field ID: G4NW0421

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417495	EPA 8321B	Hydrocodone	0.0020	U	ug/L	P431299	
		Ibuprofen	0.080	U	ug/L	P431299	
		Imidacloprid	0.0057	I	ug/L	P431299	
		Linuron	0.0040	U	ug/L	P431299	
		Mandestrobin	0.0020	U	ug/L	P431299	
		MCP	0.0020	U	ug/L	P431299	
		Naproxen	0.0080	U	ug/L	P431299	
		Primidone	0.0040	U	ug/L	P431299	
		Pyraclostrobin	0.0020	U	ug/L	P431299	
		Silvex	0.0040	U	ug/L	P431299	
		Thiamethoxam	0.0020	U	ug/L	P431299	
		Tolfenpyrad	0.0020	U	ug/L	P431299	
		Triclopyr	0.0040	U	ug/L	P431299	
2417500	EPA 8270E	Aldrin	0.77	U	ng/L	P431247	
		Alpha-BHC	0.12	U	ng/L	P431247	
		Alpha-Chlordane	0.24	U	ng/L	P431247	
		PCB-1016	2.4	U	ng/L	P431247	
		Beta-BHC	0.12	U	ng/L	P431247	
		PCB-1221	2.4	U	ng/L	P431247	
		Beta-Cyfluthrin	1.5	U	ng/L	P431247	
		PCB-1232	2.4	U	ng/L	P431247	
		Bifenthrin	0.59	U	ng/L	P431247	
		PCB-1242	2.4	U	ng/L	P431247	
		PCB-1248	2.4	U	ng/L	P431247	
		Chlorothalonil	4.3	U	ng/L	P431247	
		PCB-1254	2.4	U	ng/L	P431247	
		Cis-Nonachlor	0.24	U	ng/L	P431247	
		PCB-1260	2.4	U	ng/L	P431247	
		Cypermethrin	1.8	U	ng/L	P431247	
		Dacthal	0.18	UJ	ng/L	P431247	LCS
		DDD-p,p'	0.30	U	ng/L	P431247	
		DDE-p,p'	0.24	U	ng/L	P431247	
		DDT-p,p'	0.30	U	ng/L	P431247	
		Delta-BHC	0.48	U	ng/L	P431247	
		Deltamethrin	1.5	U	ng/L	P431247	
		Dichlobenil	0.30	U	ng/L	P431247	
		Dicofol	1.5	U	ng/L	P431247	
		Diieldrin	0.48	U	ng/L	P431247	
		Endosulfan I	0.48	U	ng/L	P431247	
		Endosulfan II	0.48	U	ng/L	P431247	
		Endosulfan Sulfate	0.36	U	ng/L	P431247	
		Endrin	0.48	U	ng/L	P431247	
		Endrin Aldehyde	0.89	U	ng/L	P431247	
		Endrin Ketone	0.48	U	ng/L	P431247	
		Esfenvalerate	0.89	U	ng/L	P431247	

Field ID: G4NW0421

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417500	EPA 8270E	Ethalfuralin	0.18	U	ng/L	P431247	RPD
		Fenpropathrin	0.30	U	ng/L	P431247	
		Gamma-BHC	0.15	U	ng/L	P431247	
		Gamma-Chlordane	0.24	U	ng/L	P431247	
		Heptachlor	0.24	U	ng/L	P431247	
		Heptachlor Epoxide	0.30	U	ng/L	P431247	
		Hexachlorobenzene**	1.2	U	ng/L	P431247	
		Kepone	5.9	U	ng/L	P431247	
		Lambda-Cyhalothrin	0.89	U	ng/L	P431247	
		Methoprene	0.89	U	ng/L	P431247	
		Methoxychlor	0.36	U	ng/L	P431247	
		MGK-264	0.24	U	ng/L	P431247	
		Mirex	0.42	U	ng/L	P431247	
		Oxychlordane	0.36	U	ng/L	P431247	
		Permethrin	1.9	U	ng/L	P431247	
		Phenothrin	1.1	U	ng/L	P431247	
		Piperonyl Butoxide	0.18	U	ng/L	P431247	
		Prallethrin	2.4	U	ng/L	P431247	
		Tau-Fluvalinate	0.30	U	ng/L	P431247	
		Tetramethrin	0.89	U	ng/L	P431247	RPD
		Trans-Nonachlor	0.24	U	ng/L	P431247	
		Triclosan Methyl	0.18	U	ng/L	P431247	
		Trifluralin	0.24	U	ng/L	P431247	LCS, MS
		Chlordane	2.4	UJ	ng/L	P431247	
		Toxaphene	18	U	ng/L	P431247	
2417501	EPA 8270E	Oxybenzone**	12	U	ng/L	P431467	
		Acetochlor	6.6		ng/L	P431467	
		Octinoxate**	24	U	ng/L	P431467	
		Alachlor	0.48	U	ng/L	P431467	
		Avobenzone**	120	U	ng/L	P431467	
		Ametryn	1.3	U	ng/L	P431467	
		Atrazine	60		ng/L	P431467	
		PBDE-47**	4.8	U	ng/L	P431467	
		Atrazine Desethyl	13		ng/L	P431467	
		PBDE-99**	6.0	U	ng/L	P431467	
		Azinphos Methyl	3.6	U	ng/L	P431467	
		Tri-o-cresyl Phosphate**	7.2	U	ng/L	P431467	
		Azoxystrobin	0.48	U	ng/L	P431467	
		Bromacil	0.72	U	ng/L	P431467	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	14	U	ng/L	P431467	
		Butylate	0.24	U	ng/L	P431467	
		Dechlorane Plus**	36	U	ng/L	P431467	
		Caffeine**	9.0	I	ng/L	P431467	
		Dechlorane 602**	6.0	U	ng/L	P431467	

Field ID: G4NW0421

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417501	EPA 8270E	Carbophenothion	0.60	U	ng/L	P431467	
		Dechlorane 603**	4.8	UJ	ng/L	P431467	MS
		Carfentrazone Ethyl	0.18	U	ng/L	P431467	
		Hexabromobenzene**	7.2	U	ng/L	P431467	
		Chlorfenapyr	0.36	U	ng/L	P431467	
		PBB-153**	9.6	U	ng/L	P431467	
		Chlorpyrifos Ethyl	0.36	U	ng/L	P431467	
		Pentabromotoluene**	3.6	U	ng/L	P431467	
		Chlorpyrifos Methyl	0.12	U	ng/L	P431467	
		Tris(2-chloroethyl) phosphate (TCEP)**	84	U	ng/L	P431467	
		Coumaphos	1.3	U	ng/L	P431467	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	18	U	ng/L	P431467	
		Cyanazine	6.0	U	ng/L	P431467	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	3.0	U	ng/L	P431467	
		Cyprodinil	0.24	U	ng/L	P431467	
		Tetradecachloro-m-terphenyl**	9.0	U	ng/L	P431467	
		Demeton	4.2	U	ng/L	P431467	
		Diazinon	0.15	U	ng/L	P431467	
		Difenoconazole	0.72	U	ng/L	P431467	
		Dimethenamid	0.12	U	ng/L	P431467	
		Dimethomorph	0.44	I	ng/L	P431467	
		Disulfoton	0.72	U	ng/L	P431467	
		Dithiopyr	1.2	U	ng/L	P431467	
		EPTC	0.60	U	ng/L	P431467	
		Ethion	0.36	U	ng/L	P431467	
		Ethoprop	0.15	U	ng/L	P431467	
		Etridiazole	0.12	U	ng/L	P431467	
		Fenamiphos	0.54	U	ng/L	P431467	
		Fenbuconazole	0.60	U	ng/L	P431467	
		Fipronil	0.24	U	ng/L	P431467	
		Fipronil Desulfinyl**	0.12	U	ng/L	P431467	
		Fipronil Sulfide	0.12	U	ng/L	P431467	
		Fipronil Sulfone	0.12	U	ng/L	P431467	
		Fluazifop-P-butyl	0.12	U	ng/L	P431467	
		Fludioxonil	0.12	U	ng/L	P431467	
		Flumioxazin	3.6	U	ng/L	P431467	
		Flutolanil	0.12	U	ng/L	P431467	
		Fluxapyroxad	0.41	I	ng/L	P431467	
		Fonofos	0.18	U	ng/L	P431467	
		Hexazinone	0.60	U	ng/L	P431467	
		Imazalil	0.78	U	ng/L	P431467	
		Iprodione	0.60	UJ	ng/L	P431467	CCV, MS, RPD
		Loratadine**	0.36	U	ng/L	P431467	
		Malathion	0.42	U	ng/L	P431467	

Field ID: G4NW0421

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417501	EPA 8270E	Metalaxyl	0.60	U	ng/L	P431467	MS
		Metolachlor	21		ng/L	P431467	
		Metribuzin	0.48	U	ng/L	P431467	
		Mevinphos	1.2	UJ	ng/L	P431467	
		Molinate	0.30	U	ng/L	P431467	
		Myclobutanil	0.42	U	ng/L	P431467	
		Naled	3.0	U	ng/L	P431467	
		Napropamide	0.84	U	ng/L	P431467	
		Norflurazon	1.2	U	ng/L	P431467	
		Oxadiazon	0.42	U	ng/L	P431467	
		Oxyfluorfen	0.24	U	ng/L	P431467	
		Parathion Ethyl	0.18	U	ng/L	P431467	
		Parathion Methyl	0.24	U	ng/L	P431467	
		Pendimethalin	0.90	U	ng/L	P431467	
		Phenytol**	6.4	U	ng/L	P431467	
		Phorate	0.30	U	ng/L	P431467	
		Prodiamine	0.24	U	ng/L	P431467	
		Prometon	3.6	U	ng/L	P431467	
		Prometryn	0.42	U	ng/L	P431467	
		Pronamide	0.12	U	ng/L	P431467	
		Propanil	0.12	U	ng/L	P431467	
		Propargite	0.96	U	ng/L	P431467	
		Propiconazole	0.72	U	ng/L	P431467	
		Pyraflufen Ethyl	0.36	U	ng/L	P431467	
		Pyridaben	1.7	U	ng/L	P431467	
		Pyriproxyfen	0.30	U	ng/L	P431467	
		Simazine	0.30	U	ng/L	P431467	
		Stirophos	0.48	U	ng/L	P431467	
		Sulfentrazone	1.7	U	ng/L	P431467	
		Tebuconazole	1.7	U	ng/L	P431467	
		Terbufos	0.24	U	ng/L	P431467	
		Terbutylazine	0.24	U	ng/L	P431467	
		Thiobencarb	0.60	U	ng/L	P431467	
		Triadimefon	0.18	U	ng/L	P431467	

Ref. Method and Comment:

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

SM 5310 B-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

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

Sample Location: WIGGINS BRANCH BELOW HIGHWAY 29

Collection Date/Time: 06/14/2023 10:30

Field ID: G4NW0163

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417480	DEP SOP: NU-094-1	Color (true)	61		PCU	P431337	
	EPA 180.1 Rev. 2.0	Turbidity	6.0		NTU	P431348	
	EPA 300.0 Rev. 2.1	Chloride	3.5		mg Cl/L	P431682	
		Sulfate	2.1		mg SO4/L	P431685	
	SM 2320 B-2011	Total Alkalinity	5.7		mg CaCO3/L	P431569	
	SM 2540 C-2015	TDS	30		mg/L	P431885	
	SM 2540 D-2015	TSS	6	I	mg/L	P431825	
	SM 4500-F- C-2011	Fluoride	0.029	I	mg F/L	P431572	
2417482	EPA 350.1 Rev. 2.0	Ammonia-N	0.039		mg N/L	P431528	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26		mg N/L	P431539	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.038		mg N/L	P431724	
	EPA 365.1 Rev. 2.0	Total-P	0.015		mg P/L	P431384	
	SM 5310 B-2011	Organic Carbon	4.4		mg C/L	P431574	
2417510	EPA 200.7 Rev. 4.4	Calcium	2.61		mg/L	P431414	
		Iron	3.25E+03		ug/L	P431414	
		Magnesium	0.91		mg/L	P431414	
		Potassium	0.37	I	mg/L	P431414	
		Sodium	2.3		mg/L	P431414	
		Strontium	9.2		ug/L	P431414	
		Tin	3.0	U	ug/L	P431414	
		Titanium	0.81	I	ug/L	P431414	
	EPA 200.8 Rev. 5.4	Vanadium	2.0	U	ug/L	P431414	
		Zinc	6.2	I	ug/L	P431414	
		Aluminum	33		ug/L	P431414	
		Antimony	0.092	I	ug/L	P431414	
		Arsenic	2.11		ug/L	P431414	
		Barium	9.57		ug/L	P431414	
		Beryllium	0.010	U	ug/L	P431414	
		Boron	35.0		ug/L	P431414	
		Cadmium	0.020	U	ug/L	P431414	
		Chromium	0.40	U	ug/L	P431414	
		Cobalt	0.030	I	ug/L	P431414	
		Copper	0.56	I	ug/L	P431414	
		Lead	0.20	U	ug/L	P431414	
		Manganese	5.85		ug/L	P431414	
		Molybdenum	0.15	U	ug/L	P431414	
		Nickel	0.50	U	ug/L	P431414	
		Selenium	0.20	U	ug/L	P431414	
		Silver	0.010	U	ug/L	P431414	
		Thallium	0.10	U	ug/L	P431414	
	SM 2340 B-2011	Hardness	10.3		mg/L	P431414	

Ref. Method and Comment:

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

SM 5310 B-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: LITTLE PINE BARREN CREEK ABOVE CR99

Collection Date/Time: 06/14/2023 11:50

Field ID: G4NW0420

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417481	DEP SOP: NU-094-1	Color (true)	19		PCU	P431337	
	EPA 180.1 Rev. 2.0	Turbidity	3.1		NTU	P431348	
	EPA 300.0 Rev. 2.1	Chloride	6.8		mg Cl/L	P431682	
		Sulfate	0.46	I	mg SO4/L	P431685	
	SM 2320 B-2011	Total Alkalinity	5.2		mg CaCO3/L	P431569	
	SM 2540 C-2015	TDS	34		mg/L	P431885	
	SM 2540 D-2015	TSS	4	I	mg/L	P431825	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P431572	
2417483	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P431528	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.19	I	mg N/L	P431539	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.0		mg N/L	P431724	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P431384	
	SM 5310 B-2011	Organic Carbon	1.4		mg C/L	P431574	
2417511	EPA 200.7 Rev. 4.4	Calcium	2.19		mg/L	P431414	
		Iron	1.38E+03		ug/L	P431414	
		Magnesium	2.08		mg/L	P431414	
		Potassium	0.93	I	mg/L	P431414	
		Sodium	2.9		mg/L	P431414	
		Strontium	23.2		ug/L	P431414	
		Tin	3.0	U	ug/L	P431414	
		Titanium	1.6	I	ug/L	P431414	
	EPA 200.8 Rev. 5.4	Vanadium	2.0	U	ug/L	P431414	
		Zinc	5.0	U	ug/L	P431414	
		Aluminum	48		ug/L	P431414	
		Antimony	0.050	U	ug/L	P431414	
		Arsenic	0.39		ug/L	P431414	
		Barium	77.5		ug/L	P431414	
		Beryllium	0.029	I	ug/L	P431414	
		Boron	9.1		ug/L	P431414	
		Cadmium	0.020	U	ug/L	P431414	
		Chromium	0.40	U	ug/L	P431414	
		Cobalt	0.495		ug/L	P431414	
		Copper	0.40	U	ug/L	P431414	
		Lead	0.20	U	ug/L	P431414	
		Manganese	59.0		ug/L	P431414	
		Molybdenum	0.15	U	ug/L	P431414	
		Nickel	0.50	U	ug/L	P431414	
		Selenium	0.20	U	ug/L	P431414	
		Silver	0.010	U	ug/L	P431414	
		Thallium	0.10	U	ug/L	P431414	
	SM 2340 B-2011	Hardness	14.0		mg/L	P431414	

Ref. Method and Comment:

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

SM 5310 B-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

**Sample Location: BRUSHY CREEK UPSTREAM OF ARTHUR
 BROWN RD**

Collection Date/Time: 06/14/2023 12:15

Field ID: G5NW0002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417512	EPA 200.7 Rev. 4.4	Calcium	2.11		mg/L	P431414	
		Iron	450		ug/L	P431414	
		Magnesium	1.02		mg/L	P431414	
		Potassium	0.57	I	mg/L	P431414	
		Sodium	3.5		mg/L	P431414	
		Strontium	12.9		ug/L	P431414	
		Tin	3.0	U	ug/L	P431414	
		Titanium	2.5	I	ug/L	P431414	
		Vanadium	2.0	U	ug/L	P431414	
		Zinc	5.0	U	ug/L	P431414	
	EPA 200.8 Rev. 5.4	Aluminum	93		ug/L	P431414	
		Antimony	0.050	U	ug/L	P431414	
		Arsenic	0.57		ug/L	P431414	
		Barium	21.8		ug/L	P431414	
		Beryllium	0.063		ug/L	P431414	
		Boron	9.5		ug/L	P431414	
		Cadmium	0.020	U	ug/L	P431414	
		Chromium	0.40	U	ug/L	P431414	
		Cobalt	0.868		ug/L	P431414	
		Copper	0.40	U	ug/L	P431414	
		Lead	0.22	I	ug/L	P431414	
		Manganese	84.2		ug/L	P431414	
		Molybdenum	0.15	U	ug/L	P431414	
		Nickel	0.85	I	ug/L	P431414	
		Selenium	0.20	U	ug/L	P431414	
		Silver	0.010	U	ug/L	P431414	
		Thallium	0.10	U	ug/L	P431414	
	SM 2340 B-2011	Hardness	9.5		mg/L	P431414	

Sample Location: FB

Collection Date/Time: 06/14/2023 10:35

Field ID: FB_06142023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2417484	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P431339	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P431348	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P431682	
		Sulfate	0.20	U	mg SO4/L	P431685	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P431569	
	SM 2540 C-2015	TDS	15	U	mg/L	P431885	
	SM 2540 D-2015	TSS	2	U	mg/L	P431825	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P431572	
2417485	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P431528	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P431539	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P431720	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P431384	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P431574	
2417513	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P431414	
		Iron	30	U	ug/L	P431414	
		Magnesium	0.040	U	mg/L	P431414	
		Potassium	0.30	U	mg/L	P431414	
		Sodium	0.50	U	mg/L	P431414	
		Strontium	2.0	U	ug/L	P431414	
		Tin	3.0	U	ug/L	P431414	
		Titanium	0.75	U	ug/L	P431414	
		Vanadium	2.0	U	ug/L	P431414	
		Zinc	5.0	U	ug/L	P431414	
		Aluminum	5.0	U	ug/L	P431414	
		Antimony	0.050	U	ug/L	P431414	
	EPA 200.8 Rev. 5.4	Arsenic	0.050	U	ug/L	P431414	
		Barium	0.20	U	ug/L	P431414	
		Beryllium	0.010	U	ug/L	P431414	
		Boron	2.0	U	ug/L	P431414	
		Cadmium	0.020	U	ug/L	P431414	
		Chromium	0.40	U	ug/L	P431414	
		Cobalt	0.020	U	ug/L	P431414	
		Copper	0.40	U	ug/L	P431414	
		Lead	0.20	U	ug/L	P431414	
		Manganese	0.10	U	ug/L	P431414	
		Molybdenum	0.15	U	ug/L	P431414	
		Nickel	0.50	U	ug/L	P431414	
		Selenium	0.20	U	ug/L	P431414	
		Silver	0.010	U	ug/L	P431414	
		Thallium	0.10	U	ug/L	P431414	
	SM 2340 B-2011	Hardness	0.35	U	mg/L	P431414	

Ref. Method and Comment:

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

SM 5310 B-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P431337

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P431339

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431348

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431414

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: P431414

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431682

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431685

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431528

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431539

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431720

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431724

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431384

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

Reference Method: EPA 8270E
Batch ID: P431247

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431247

Component	Result	Code	Units
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431247

Component	Result	Code	Units
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431467

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	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	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

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Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431467

Component	Result	Code	Units
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431467

Component	Result	Code	Units
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	6.4	I	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	5.3	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiatone	0.20	U	ng/L
Prodiatone	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431467

Component	Result	Code	Units
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8276

Batch ID: P431247

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P431299

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P431299

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	0.0020	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: P431314

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: P431332

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P431332

Component	Result	Code	Units
Propoxur	0.0020	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P431569

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

Reference Method: SM 2540 C-2015
Batch ID: P431885

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P431825

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431572

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P431574

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: P431337

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.8		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P431339

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431348

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431414

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	107		P	85 - 115
Iron	110		P	85 - 115
Magnesium	110		P	85 - 115
Potassium	107		P	85 - 115
Sodium	106		P	85 - 115
Strontium	108		P	85 - 115
Tin	108		P	85 - 115
Titanium	107		P	85 - 115
Vanadium	107		P	85 - 115
Zinc	110		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431414

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.9		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	101		P	85 - 115
Barium	102		P	85 - 115
Beryllium	94.6		P	85 - 115
Boron	103		P	85 - 115
Cadmium	99.5		P	85 - 115
Chromium	97.4		P	85 - 115
Cobalt	101		P	85 - 115
Copper	102		P	85 - 115
Lead	95.3		P	85 - 115
Manganese	98.1		P	85 - 115
Molybdenum	98.4		P	85 - 115
Nickel	102		P	85 - 115
Selenium	102		P	85 - 115
Silver	104		P	85 - 115
Thallium	102		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431682

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431685

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431528

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431539

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431720

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431724

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431384

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

Reference Method: EPA 8270E
Batch ID: P431247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	44.0		P	10 - 92.0
Alpha-BHC	75.4		P	75 - 107
Alpha-Chlordane	60.4		P	50 - 108
Beta-BHC	82.7		P	36 - 138
Beta-Cyfluthrin	66.9		P	20 - 161
Bifenthrin	62.4		P	10 - 119
Chlorothalonil	91.0		P	26 - 186
Cis-Nonachlor	50.6		P	42 - 119
Cypermethrin	66.2		P	22 - 150
Dacthal	70.3		F	72 - 119

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P431247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDD-p,p'	62.5		P	45 - 107
DDE-p,p'	60.8		P	48 - 106
DDT-p,p'	61.4		P	48 - 110
Delta-BHC	96.8		P	54 - 140
Deltamethrin	82.8		P	22 - 189
Dichlobenil	73.5		P	36 - 117
Dicofol	62.5		P	46 - 155
Dieldrin	57.1		P	54 - 110
Endosulfan I	62.8		P	59 - 105
Endosulfan II	55.3		P	51 - 118
Endosulfan Sulfate	57.7		P	57 - 121
Endrin	57.6		P	10 - 120
Endrin Aldehyde	59.3		P	34 - 118
Endrin Ketone	77.3		P	69 - 177
Esfenvalerate	91.8		P	23 - 168
Ethalfuralin	59.6		P	49 - 99.0
Fenpropathrin	61.3		P	34 - 117
Gamma-BHC	80.4		P	72 - 117
Gamma-Chlordane	63.0		P	43 - 106
Heptachlor	53.4		P	41 - 98.0
Heptachlor Epoxide	77.2		P	57 - 106
Hexachlorobenzene	51.9		P	36 - 99.0
Kepone	53.5		P	16 - 215
Lambda-Cyhalothrin	79.9		P	21 - 177
Methoprene	42.6		P	10 - 119
Methoxychlor	69.5		P	60 - 112
MGK-264	49.2		P	26 - 122
Mirex	59.2		P	10 - 169
Oxychlordane	53.2		P	43 - 105
PCB-1016	71.3		P	48 - 112
PCB-1260	65.5		P	44 - 118
Permethrin	60.2		P	24 - 148
Phenothrin	79.0		P	10 - 106
Piperonyl Butoxide	75.7		P	10 - 139
Prallethrin	52.9		P	17 - 109
Tau-Fluvalinate	76.3		P	13 - 131
Tetramethrin	67.7		P	10 - 132
Trans-Nonachlor	56.2		P	44 - 106
Triclosan Methyl	69.8		P	59 - 109
Trifluralin	66.4		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P431467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107		P	42 - 162
Acetochlor	80.6		P	69 - 123
Alachlor	88.2		P	65 - 118
Ametryn	107		P	58 - 141
Atrazine	96.1		P	73 - 118
Atrazine Desethyl	88.1		P	32 - 125
Avobenzone	121		P	40 - 203

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P431467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Azinphos Methyl	107		P	36 - 197
Azoxystrobin	103		P	58 - 226
Bromacil	104		P	48 - 120
Butylate	55.5		P	27 - 85.0
Caffeine	100		P	40 - 137
Carbophenothion	102		P	54 - 132
Carfentrazone Ethyl	115		P	60 - 142
Chlorfenapyr	88.4		P	53 - 117
Chlorpyrifos Ethyl	96.4		P	59 - 116
Chlorpyrifos Methyl	94.6		P	66 - 119
Coumaphos	71.4		P	11 - 234
Cyanazine	193		P	61 - 248
Cyprodinil	107		P	50 - 147
Dechlorane 602	98.0		P	50 - 150
Dechlorane 603	134		P	50 - 150
Dechlorane Plus	99.8		P	47 - 182
Demeton	88.1		P	30 - 138
Diazinon	110		P	67 - 126
Difenoconazole	129		P	38 - 205
Dimethenamid	91.5		P	57 - 111
Dimethomorph	191		P	16 - 212
Disulfoton	101		P	46 - 126
Dithiopyr	103		P	62 - 115
EPTC	51.5		P	28 - 80.0
Ethion	83.4		P	24 - 122
Ethoprop	95.6		P	62 - 113
Etridiazole	70.0		P	28 - 92.0
Fenamiphos	92.8		P	57 - 128
Fenbuconazole	70.7		P	52 - 155
Fipronil	106		P	63 - 130
Fipronil Desulfinyl	100		P	61 - 130
Fipronil Sulfide	93.5		P	56 - 117
Fipronil Sulfone	83.8		P	52 - 118
Fluazifop-P-butyl	96.3		P	61 - 128
Fludioxonil	89.7		P	59 - 129
Flumioxazin	114		P	30 - 250
Flutolanil	93.6		P	53 - 127
Fluxapyroxad	103		P	42 - 132
Fonofos	93.8		P	61 - 110
Hexabromobenzene	133		P	50 - 150
Hexazinone	98.8		P	46 - 139
Imazalil	101		P	40 - 139
Iprodione	118		P	40 - 146
Loratadine	181		P	10 - 224
Malathion	101		P	61 - 135
Metalaxyl	97.4		P	58 - 121
Metolachlor	101		P	64 - 118
Metribuzin	95.8		P	45 - 245
Mevinphos	97.1		P	49 - 118
Molinate	57.3		P	42 - 92.0
Myclobutanil	98.0		P	55 - 127
Naled	48.5		P	10 - 114

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P431467

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Napropamide	85.0		P	39 - 121
Norflurazon	62.3		P	55 - 129
Octinoxate	123		P	26 - 166
Oxadiazon	94.6		P	54 - 115
Oxybenzone	128		P	49 - 135
Oxyfluorfen	112		P	64 - 139
Parathion Ethyl	103		P	70 - 111
Parathion Methyl	104		P	76 - 136
PBB-153	130		P	50 - 150
PBDE-47	112		P	41 - 148
PBDE-99	96.6		P	38 - 147
Pendimethalin	112		P	52 - 118
Pentabromotoluene	123		P	50 - 150
Phenytoin	22.8		P	10 - 162
Phorate	87.6		P	40 - 122
Prodiamine	48.2		P	26 - 141
Prometon	98.7		P	54 - 122
Prometryn	118		P	61 - 128
Pronamide	114		P	72 - 121
Propanil	119		P	45 - 144
Propargite	65.7		P	10 - 199
Propiconazole	89.1		P	56 - 127
Pyraflufen Ethyl	97.7		P	56 - 140
Pyridaben	125		P	26 - 211
Pyriproxyfen	85.5		P	33 - 194
Simazine	91.1		P	67 - 121
Stirophos	69.2		P	20 - 142
Sulfentrazone	77.2		P	21 - 144
Tebuconazole	70.0		P	10 - 122
Terbufos	109		P	60 - 129
Terbutylazine	86.5		P	69 - 113
Tetradecachloro-m-terphenyl	141		P	70 - 200
Thiobencarb	93.6		P	51 - 120
Tri-o-cresyl Phosphate	123		P	49 - 150
Triadimefon	96.6		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	121		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	117		P	70 - 180

Reference Method: EPA 8276

Batch ID: P431247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	59.2		F	61 - 116
Toxaphene	64.1		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P431299

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	106		P	40 - 150
2,4,5-T	94.0		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P431299

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	49.1		P	30 - 150
Acetamiprid	79.2		P	40 - 150
Afidopyropen	62.2		P	30 - 150
Bentazon	110		P	30 - 150
Benzovindiflupyr	64.4		P	40 - 150
Carbamazepine	67.4		P	40 - 150
Clothianidin	84.1		P	40 - 150
Dinotefuran	86.0		P	40 - 150
Diuron	51.7		P	40 - 150
Fenuron	72.2		P	40 - 150
Fluridone	73.1		P	40 - 150
Hydrocodone	86.2		P	40 - 150
Ibuprofen	85.3		P	40 - 150
Imazapyr	88.9		P	40 - 150
Imidacloprid	79.6		P	40 - 150
Linuron	82.7		P	40 - 150
Mandestrobin	78.8		P	40 - 150
MCPP	95.8		P	40 - 150
Naproxen	70.7		P	40 - 150
Primidone	77.1		P	40 - 150
Pyraclostrobin	87.0		P	40 - 150
Silvex	96.2		P	40 - 150
Thiamethoxam	83.2		P	40 - 150
Tolfenpyrad	60.4		P	30 - 150
Triclopyr	93.5		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P431314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	146		P	40 - 150
AMPA	81.6		P	40 - 150
Endothall	97.0		P	40 - 150
Glufosinate	102		P	40 - 150
Glyphosate	107		P	40 - 150
Sucralose	120		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P431332

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	54.2		P	40 - 150
Aldicarb	40.7		P	30 - 150
Aldicarb Sulfone	77.9		P	40 - 150
Aldicarb Sulfoxide	93.0		P	40 - 150
Carbaryl	77.8		P	40 - 150
Carbofuran	69.8		P	40 - 150
Methiocarb	65.1		P	40 - 150
Methomyl	76.4		P	40 - 150
Oxamyl	70.9		P	40 - 150
Propoxur	66.3		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P431569

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.3		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P431885

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

Reference Method: SM 2540 D-2015
Batch ID: P431825

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.8		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P431572

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P431574

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: P431414

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417441	Calcium	104		P	80 - 120
2417441	Iron	108	107	P/P	80 - 120
2417441	Magnesium	106	105	P/P	80 - 120
2417441	Potassium	105	104	P/P	80 - 120
2417441	Sodium	109	109	P/P	80 - 120
2417441	Strontium	106	106	P/P	80 - 120
2417441	Tin	109	109	P/P	80 - 120
2417441	Titanium	102	105	P/P	80 - 120
2417441	Vanadium	107	108	P/P	80 - 120
2417441	Zinc	106	106	P/P	80 - 120
2417511	Calcium	108		P	80 - 120
2417511	Iron	110		P	80 - 120
2417511	Magnesium	110		P	80 - 120
2417511	Potassium	107		P	80 - 120
2417511	Sodium	112		P	80 - 120
2417511	Strontium	108		P	80 - 120
2417511	Tin	106		P	80 - 120
2417511	Titanium	106		P	80 - 120
2417511	Vanadium	109		P	80 - 120
2417511	Zinc	109		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P431414

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417441	Aluminum	97.7	98.2	P/P	80 - 120
2417441	Antimony	101	102	P/P	80 - 120
2417441	Arsenic	101	101	P/P	80 - 120
2417441	Barium	103	105	P/P	80 - 120
2417441	Beryllium	92.9	94.6	P/P	80 - 120
2417441	Boron	103	105	P/P	80 - 120
2417441	Cadmium	100	102	P/P	80 - 120
2417441	Chromium	94.8	95.0	P/P	80 - 120
2417441	Cobalt	98.6	99.7	P/P	80 - 120
2417441	Copper	101	102	P/P	80 - 120
2417441	Lead	95.1	95.4	P/P	80 - 120
2417441	Manganese	94.9	96.2	P/P	80 - 120
2417441	Molybdenum	100	102	P/P	80 - 120
2417441	Nickel	97.4	98.6	P/P	80 - 120
2417441	Selenium	98.8	99.6	P/P	80 - 120
2417441	Silver	103	106	P/P	80 - 120
2417441	Thallium	103	104	P/P	80 - 120
2417511	Aluminum	99.6		P	80 - 120
2417511	Antimony	101		P	80 - 120
2417511	Arsenic	100		P	80 - 120
2417511	Barium	105		P	80 - 120
2417511	Beryllium	94.1		P	80 - 120
2417511	Boron	106		P	80 - 120
2417511	Cadmium	99.2		P	80 - 120
2417511	Chromium	96.6		P	80 - 120
2417511	Cobalt	101		P	80 - 120
2417511	Copper	102		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431414

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417511	Lead	96.3		P	80 - 120
2417511	Manganese	96.7		P	80 - 120
2417511	Molybdenum	97.9		P	80 - 120
2417511	Nickel	102		P	80 - 120
2417511	Selenium	99.3		P	80 - 120
2417511	Silver	104		P	80 - 120
2417511	Thallium	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431682

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417496	Chloride	99.0		P	90 - 110
2417639	Chloride	99.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431685

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417496	Sulfate	93.1		P	90 - 110
2417639	Sulfate	95.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417430	Ammonia-N	100	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431539

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417350	Kjeldahl Nitrogen	104	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417497	NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431724

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417421	NO2NO3-N	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431384

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417482	Total-P	99.8	97.3	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P431247

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416653	PCB-1016	92.2	104	P/P	46 - 111
2416653	PCB-1260	83.8	106	P/P	45 - 114
2417276	Aldrin	53.3	51.3	P/P	20 - 82.0
2417276	Alpha-BHC	97.0	87.4	P/P	71 - 109
2417276	Alpha-Chlordane	75.0	53.6	P/P	42 - 106
2417276	Beta-BHC	103	92.2	P/P	69 - 180
2417276	Beta-Cyfluthrin	79.7	66.2	P/P	18 - 175
2417276	Bifenthrin	108	80.4	P/P	21 - 128
2417276	Chlorothalonil	193	132	P/P	10 - 300
2417276	Cis-Nonachlor	72.1	66.3	P/P	34 - 106
2417276	Cypermethrin	83.1	66.0	P/P	22 - 158
2417276	Dacthal	116	90.7	P/P	54 - 116
2417276	DDD-p,p'	106	85.6	P/P	34 - 107
2417276	DDE-p,p'	102	75.1	P/P	33 - 110
2417276	DDT-p,p'	70.4	60.0	P/P	50 - 122
2417276	Delta-BHC	143	105	P/P	77 - 193
2417276	Deltamethrin	110	103	P/P	10 - 195
2417276	Dichlobenil	39.1	45.6	P/P	25 - 113
2417276	Dicofol	84.2	73.9	P/P	38 - 247
2417276	Dieldrin	75.8	67.2	P/P	45 - 118
2417276	Endosulfan I	80.5	72.8	P/P	51 - 106
2417276	Endosulfan II	61.1	59.6	P/P	37 - 122
2417276	Endosulfan Sulfate	77.2	59.9	P/P	43 - 132
2417276	Endrin	66.9	64.9	P/P	29 - 101
2417276	Endrin Aldehyde	87.5	64.6	P/P	19 - 110
2417276	Endrin Ketone	77.9	68.5	P/P	60 - 140
2417276	Esfenvalerate	118	128	P/P	26 - 199
2417276	Ethalfuralin	62.8	62.9	P/P	45 - 99.0
2417276	Fenpropathrin	74.0	65.4	P/P	35 - 120
2417276	Gamma-BHC	115	91.4	P/P	63 - 128
2417276	Gamma-Chlordane	64.3	46.1	P/P	40 - 104
2417276	Heptachlor	56.9	56.4	P/P	36 - 97.0
2417276	Heptachlor Epoxide	76.9	67.8	P/P	49 - 184
2417276	Hexachlorobenzene	81.0	57.8	P/P	39 - 96.0
2417276	Kepone	93.4	54.8	P/P	10 - 217
2417276	Lambda-Cyhalothrin	190	155	P/P	21 - 193
2417276	Methoprene	47.4	41.9	P/P	20 - 106
2417276	Methoxychlor	83.0	75.2	P/P	53 - 118
2417276	MGK-264	57.9	55.7	P/P	40 - 118
2417276	Mirex	86.7	68.8	P/P	26 - 92.0
2417276	Oxychlordane	47.8	47.4	P/P	44 - 99.0
2417276	Permethrin	75.7	79.4	P/P	33 - 182
2417276	Phenothrin	115	107	P/P	10 - 129
2417276	Piperonyl Butoxide	113	105	P/P	10 - 211
2417276	Prallethrin	45.2	44.4	P/P	24 - 113
2417276	Tau-Fluvalinate	148	138	P/P	14 - 149
2417276	Tetramethrin	83.3	72.4	P/P	17 - 151
2417276	Trans-Nonachlor	71.5	45.6	P/P	42 - 102
2417276	Triclosan Methyl	81.1	69.3	P/P	48 - 108
2417276	Trifluralin	54.2	56.2	P/P	47 - 96.0

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P431467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417501	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	130	113	P/P	26 - 165
2417501	Acetochlor	70.3	103	P/P	67 - 124
2417501	Alachlor	80.8	78.5	P/P	60 - 120
2417501	Ametryn	150	143	P/P	54 - 216
2417501	Atrazine Desethyl	115	111	P/P	15 - 122
2417501	Avobenzone	132	121	P/P	37 - 178
2417501	Azinphos Methyl	153	122	P/P	40 - 292
2417501	Azoxystrobin	132	126	P/P	35 - 220
2417501	Bromacil	108	114	P/P	45 - 127
2417501	Butylate	58.2	55.0	P/P	20 - 83.0
2417501	Caffeine	108	107	P/P	10 - 194
2417501	Carbophenothion	125	106	P/P	57 - 127
2417501	Carfentrazone Ethyl	138	126	P/P	51 - 141
2417501	Chlorfenapyr	99.6	93.5	P/P	46 - 111
2417501	Chlorpyrifos Ethyl	93.8	101	P/P	52 - 120
2417501	Chlorpyrifos Methyl	87.8	90.0	P/P	63 - 119
2417501	Coumaphos	179	145	P/P	10 - 228
2417501	Cyanazine	213	180	P/P	59 - 241
2417501	Cyprodinil	103	78.3	P/P	47 - 146
2417501	Dechlorane 602	121	113	P/P	50 - 150
2417501	Dechlorane 603	160	156	F/F	50 - 150
2417501	Dechlorane Plus	97.6	98.0	P/P	50 - 150
2417501	Demeton	98.1	93.3	P/P	40 - 136
2417501	Diazinon	110	114	P/P	69 - 132
2417501	Difenoconazole	229	200	P/P	57 - 258
2417501	Dimethenamid	89.4	96.3	P/P	54 - 110
2417501	Dimethomorph	165	184	P/P	28 - 210
2417501	Disulfoton	111	107	P/P	43 - 133
2417501	Dithiopyr	111	110	P/P	39 - 116
2417501	EPTC	49.4	44.8	P/P	20 - 78.0
2417501	Ethion	93.8	81.4	P/P	17 - 119
2417501	Ethoprop	101	100	P/P	66 - 120
2417501	Etridiazole	83.4	66.1	P/P	28 - 96.0
2417501	Fenamiphos	82.4	91.8	P/P	41 - 126
2417501	Fenbuconazole	108	95.7	P/P	42 - 169
2417501	Fipronil	118	106	P/P	61 - 132
2417501	Fipronil Desulfinyl	111	99.5	P/P	56 - 132
2417501	Fipronil Sulfide	94.9	95.4	P/P	48 - 119
2417501	Fipronil Sulfone	95.7	101	P/P	42 - 131
2417501	Fluazifop-P-butyl	80.5	94.7	P/P	53 - 131
2417501	Fludioxonil	91.7	105	P/P	56 - 127
2417501	Flumioxazin	214	194	P/P	19 - 300
2417501	Flutolanil	96.1	99.9	P/P	41 - 127
2417501	Fluxapyroxad	123	112	P/P	42 - 172
2417501	Fonofos	90.1	87.3	P/P	59 - 113
2417501	Hexabromobenzene	145	139	P/P	50 - 150
2417501	Hexazinone	108	109	P/P	66 - 122
2417501	Imazalil	107	94.7	P/P	21 - 283
2417501	Iprodione	94.9	190	P/F	43 - 150
2417501	Loratadine	137	154	P/P	23 - 201
2417501	Malathion	115	105	P/P	58 - 136
2417501	Metalaxyl	111	89.2	P/P	55 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P431467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417501	Metolachlor	80.0	98.7	P/P	57 - 121
2417501	Metribuzin	104	105	P/P	58 - 294
2417501	Mevinphos	143	110	F/P	50 - 126
2417501	Molinate	54.2	60.1	P/P	42 - 93.0
2417501	Myclobutanil	118	102	P/P	55 - 125
2417501	Naled	44.9	46.4	P/P	18 - 200
2417501	Napropamide	78.1	103	P/P	39 - 110
2417501	Norflurazon	120	104	P/P	48 - 128
2417501	Octinoxate	128	126	P/P	21 - 159
2417501	Oxadiazon	106	95.2	P/P	43 - 112
2417501	Oxybenzone	141	136	P/P	41 - 142
2417501	Oxyfluorfen	118	121	P/P	64 - 153
2417501	Parathion Ethyl	106	96.7	P/P	69 - 114
2417501	Parathion Methyl	96.6	82.6	P/P	79 - 139
2417501	PBB-153	149	144	P/P	50 - 150
2417501	PBDE-47	121	118	P/P	27 - 144
2417501	PBDE-99	117	109	P/P	18 - 150
2417501	Pendimethalin	123	105	P/P	50 - 139
2417501	Pentabromotoluene	132	123	P/P	50 - 150
2417501	Phenytoin	41.7	36.9	P/P	10 - 146
2417501	Phorate	127	112	P/P	54 - 161
2417501	Prodiamine	55.7	53.0	P/P	30 - 161
2417501	Prometon	102	99.2	P/P	45 - 134
2417501	Prometryn	111	116	P/P	45 - 137
2417501	Pronamide	131	117	P/P	65 - 133
2417501	Propanil	138	122	P/P	49 - 142
2417501	Propargite	92.3	80.8	P/P	10 - 203
2417501	Propiconazole	124	105	P/P	38 - 146
2417501	Pyraflufen Ethyl	126	111	P/P	34 - 153
2417501	Pyridaben	171	137	P/P	12 - 192
2417501	Pyriproxyfen	134	108	P/P	33 - 180
2417501	Simazine	96.2	95.6	P/P	51 - 157
2417501	Stiropfos	53.1	83.0	P/P	10 - 128
2417501	Sulfentrazone	119	87.3	P/P	53 - 186
2417501	Tebuconazole	98.0	91.2	P/P	10 - 133
2417501	Terbufos	121	116	P/P	65 - 139
2417501	Terbuthylazine	90.5	91.7	P/P	66 - 117
2417501	Tetradecachloro-m-terphenyl	126	135	P/P	70 - 200
2417501	Thiobencarb	97.1	91.4	P/P	51 - 119
2417501	Tri-o-cresyl Phosphate	129	129	P/P	31 - 144
2417501	Triadimefon	114	90.4	P/P	48 - 119
2417501	Tris(1-chloro-2-propyl) phosphate (TCPP)	108	104	P/P	50 - 150
2417501	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	120	121	P/P	50 - 150
2417501	Tris(2-chloroethyl) phosphate (TCEP)	120	121	P/P	70 - 180

Reference Method: EPA 8276
Batch ID: P431247

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416653	Chlordane	47.4	42.8	F/F	53 - 126
2416653	Toxaphene	58.9	59.9	P/P	56 - 211

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P431299

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417275	2,4-D	108	100	P/P	40 - 150
2417275	2,4,5-T	110	91.1	P/P	40 - 150
2417275	Acetaminophen	51.3	49.6	P/P	30 - 150
2417275	Acetamiprid	86.8	67.5	P/P	40 - 150
2417275	Afidopyropen	54.5	70.5	P/P	30 - 150
2417275	Bentazon	104	110	P/P	30 - 150
2417275	Benzovindiflupyr	94.4	85.9	P/P	40 - 150
2417275	Carbamazepine	85.8	73.3	P/P	40 - 150
2417275	Clothianidin	91.3	96.8	P/P	40 - 150
2417275	Dinotefuran	95.1	89.8	P/P	40 - 150
2417275	Diuron	46.7	74.1	P/P	40 - 150
2417275	Fenuron	73.4	70.7	P/P	40 - 150
2417275	Fluridone	73.8	73.5	P/P	40 - 150
2417275	Hydrocodone	82.8	84.7	P/P	40 - 150
2417275	Ibuprofen	64.3	79.9	P/P	40 - 150
2417275	Imazapyr	113	107	P/P	40 - 150
2417275	Imidacloprid	98.8	126	P/P	40 - 150
2417275	Linuron	63.6	65.4	P/P	40 - 150
2417275	Mandestrobin	91.3	87.2	P/P	40 - 150
2417275	MCCPP	112	105	P/P	40 - 150
2417275	Naproxen	75.3	67.2	P/P	40 - 150
2417275	Primidone	90.0	68.7	P/P	40 - 150
2417275	Pyraclostrobin	89.3	89.7	P/P	40 - 150
2417275	Silvex	109	97.2	P/P	40 - 150
2417275	Thiamethoxam	98.5	102	P/P	40 - 150
2417275	Tolfenpyrad	56.0	54.2	P/P	30 - 150
2417275	Triclopyr	121	96.7	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P431314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417495	Acesulfame K	135	135	P/P	40 - 150
2417495	AMPA	74.7	71.7	P/P	40 - 150
2417495	Endothall	101	102	P/P	40 - 150
2417495	Glufosinate	92.8	94.6	P/P	40 - 150
2417495	Glyphosate	90.5	92.4	P/P	40 - 150
2417495	Sucralose	124	123	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P431332

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417274	3-Hydroxycarbofuran	70.1	68.7	P/P	40 - 150
2417274	Aldicarb	53.7	59.6	P/P	30 - 150
2417274	Aldicarb Sulfone	83.5	86.2	P/P	40 - 150
2417274	Aldicarb Sulfoxide	25.2	31.8	F/F	40 - 150
2417274	Carbaryl	69.2	53.9	P/P	40 - 150
2417274	Carbofuran	63.4	62.4	P/P	40 - 150
2417274	Methiocarb	78.8	91.0	P/P	40 - 150
2417274	Methomyl	70.5	74.8	P/P	40 - 150
2417274	Oxamyl	80.3	76.1	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P431332

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417274	Propoxur	67.8	64.7	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P431572

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417428	Fluoride	101	101	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P431574

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417430	Organic Carbon	96.5		P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P431337

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417478	Color (true)	2.11	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P431339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417571	Color (true)	0.519	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431348

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417378	Turbidity	4.05	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431414

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417441	Calcium	0.537	Spike	P	0 - 20
2417441	Iron	0.606	Spike	P	0 - 20
2417441	Magnesium	0.780	Spike	P	0 - 20
2417441	Potassium	0.195	Spike	P	0 - 20
2417441	Sodium	0.421	Spike	P	0 - 20
2417441	Strontium	0.00440	Spike	P	0 - 20
2417441	Tin	0.265	Spike	P	0 - 20
2417441	Titanium	2.04	Spike	P	0 - 20
2417441	Vanadium	0.921	Spike	P	0 - 20
2417441	Zinc	0.222	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431414

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417441	Aluminum	0.371	Spike	P	0 - 20
2417441	Antimony	1.22	Spike	P	0 - 20
2417441	Arsenic	0.866	Spike	P	0 - 20
2417441	Barium	0.755	Spike	P	0 - 20
2417441	Beryllium	1.48	Spike	P	0 - 20
2417441	Boron	1.23	Spike	P	0 - 20
2417441	Cadmium	1.24	Spike	P	0 - 20
2417441	Chromium	0.154	Spike	P	0 - 20
2417441	Cobalt	1.13	Spike	P	0 - 20
2417441	Copper	0.741	Spike	P	0 - 20
2417441	Lead	0.328	Spike	P	0 - 20
2417441	Manganese	1.05	Spike	P	0 - 20
2417441	Molybdenum	1.28	Spike	P	0 - 20
2417441	Nickel	1.12	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431414

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417441	Selenium	0.832	Spike	P	0 - 20
2417441	Silver	2.13	Spike	P	0 - 20
2417441	Thallium	0.793	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431682

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417496	Chloride	0.711	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431685

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417496	Sulfate	0.457	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417430	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431539

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417350	Kjeldahl Nitrogen	1.38	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417497	NO2NO3-N	0.249	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431724

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417421	NO2NO3-N	0.477	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431384

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P431384

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417482	Total-P	2.44	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P431247

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416653	PCB-1016	11.7	Spike	P	0 - 32
2416653	PCB-1260	23.7	Spike	P	0 - 31
2417276	Aldrin	3.82	Spike	P	0 - 41
2417276	Alpha-BHC	10.4	Spike	P	0 - 25
2417276	Alpha-Chlordane	30.2	Spike	P	0 - 33
2417276	Beta-BHC	11.4	Spike	P	0 - 36
2417276	Beta-Cyfluthrin	18.6	Spike	P	0 - 42
2417276	Bifenthrin	29.2	Spike	P	0 - 53
2417276	Chlorothalonil	37.7	Spike	P	0 - 71
2417276	Cis-Nonachlor	8.40	Spike	P	0 - 29
2417276	Cypermethrin	23.0	Spike	P	0 - 40
2417276	Dacthal	24.3	Spike	P	0 - 26
2417276	DDD-p,p'	20.9	Spike	P	0 - 39
2417276	DDE-p,p'	30.3	Spike	P	0 - 33
2417276	DDT-p,p'	16.0	Spike	P	0 - 40
2417276	Delta-BHC	31.3	Spike	P	0 - 37
2417276	Deltamethrin	6.79	Spike	P	0 - 100
2417276	Dichlobenil	15.2	Spike	P	0 - 40
2417276	Dicofol	13.1	Spike	P	0 - 31
2417276	Dieldrin	12.1	Spike	P	0 - 27
2417276	Endosulfan I	10.1	Spike	P	0 - 23
2417276	Endosulfan II	2.46	Spike	P	0 - 28
2417276	Endosulfan Sulfate	25.2	Spike	P	0 - 38
2417276	Endrin	3.06	Spike	P	0 - 63
2417276	Endrin Aldehyde	30.1	Spike	P	0 - 60
2417276	Endrin Ketone	12.9	Spike	P	0 - 37
2417276	Esfenvalerate	8.39	Spike	P	0 - 52
2417276	Ethalfuralin	0.0547	Spike	P	0 - 23
2417276	Fenpropathrin	12.3	Spike	P	0 - 32
2417276	Gamma-BHC	23.0	Spike	F	0 - 17
2417276	Gamma-Chlordane	29.6	Spike	P	0 - 40
2417276	Heptachlor	0.808	Spike	P	0 - 29
2417276	Heptachlor Epoxide	12.6	Spike	P	0 - 25
2417276	Hexachlorobenzene	33.6	Spike	P	0 - 36
2417276	Kepone	52.1	Spike	P	0 - 93
2417276	Lambda-Cyhalothrin	20.4	Spike	P	0 - 55
2417276	Methoprene	12.4	Spike	P	0 - 53
2417276	Methoxychlor	9.94	Spike	P	0 - 29
2417276	MGK-264	3.83	Spike	P	0 - 35
2417276	Mirex	23.0	Spike	P	0 - 46
2417276	Oxychlordane	0.863	Spike	P	0 - 29
2417276	Permethrin	4.69	Spike	P	0 - 44
2417276	Phenothrin	6.97	Spike	P	0 - 56
2417276	Piperonyl Butoxide	7.22	Spike	P	0 - 100

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P431247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417276	Prallethrin	1.67	Spike	P	0 - 42
2417276	Tau-Fluvalinate	6.75	Spike	P	0 - 54
2417276	Tetramethrin	13.9	Spike	P	0 - 51
2417276	Trans-Nonachlor	44.3	Spike	F	0 - 37
2417276	Triclosan Methyl	15.7	Spike	P	0 - 31
2417276	Trifluralin	3.71	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P431467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417501	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	13.8	Spike	P	0 - 37
2417501	Acetochlor	19.0	Spike	P	0 - 28
2417501	Alachlor	2.84	Spike	P	0 - 30
2417501	Ametryn	4.65	Spike	P	0 - 32
2417501	Atrazine	10.6	Spike	P	0 - 41
2417501	Atrazine Desethyl	2.28	Spike	P	0 - 36
2417501	Avobenzone	8.68	Spike	P	0 - 36
2417501	Azinphos Methyl	22.5	Spike	P	0 - 75
2417501	Azoxystrobin	4.97	Spike	P	0 - 39
2417501	Bromacil	5.35	Spike	P	0 - 33
2417501	Butylate	5.78	Spike	P	0 - 44
2417501	Caffeine	0.565	Spike	P	0 - 74
2417501	Carbophenothion	16.3	Spike	P	0 - 25
2417501	Carfentrazone Ethyl	9.06	Spike	P	0 - 27
2417501	Chlorfenapyr	6.32	Spike	P	0 - 24
2417501	Chlorpyrifos Ethyl	7.31	Spike	P	0 - 26
2417501	Chlorpyrifos Methyl	2.55	Spike	P	0 - 26
2417501	Coumaphos	21.0	Spike	P	0 - 28
2417501	Cyanazine	16.8	Spike	P	0 - 48
2417501	Cyprodinil	26.9	Spike	P	0 - 29
2417501	Dechlorane 602	6.80	Spike	P	0 - 30
2417501	Dechlorane 603	2.43	Spike	P	0 - 30
2417501	Dechlorane Plus	0.446	Spike	P	0 - 30
2417501	Demeton	5.03	Spike	P	0 - 33
2417501	Diazinon	3.94	Spike	P	0 - 29
2417501	Difenoconazole	13.9	Spike	P	0 - 34
2417501	Dimethenamid	7.49	Spike	P	0 - 39
2417501	Dimethomorph	10.4	Spike	P	0 - 51
2417501	Disulfoton	4.41	Spike	P	0 - 30
2417501	Dithiopyr	1.73	Spike	P	0 - 26
2417501	EPTC	9.68	Spike	P	0 - 43
2417501	Ethion	14.1	Spike	P	0 - 79
2417501	Ethoprop	0.229	Spike	P	0 - 29
2417501	Etridiazole	23.1	Spike	P	0 - 33
2417501	Fenamiphos	10.8	Spike	P	0 - 40
2417501	Fenbuconazole	11.7	Spike	P	0 - 74
2417501	Fipronil	10.6	Spike	P	0 - 29
2417501	Fipronil Desulfinyl	10.7	Spike	P	0 - 32
2417501	Fipronil Sulfide	0.573	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P431467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417501	Fipronil Sulfone	5.81	Spike	P	0 - 33
2417501	Fluazifop-P-butyl	16.3	Spike	P	0 - 38
2417501	Fludioxonil	13.5	Spike	P	0 - 29
2417501	Flumioxazin	9.81	Spike	P	0 - 51
2417501	Flutolanil	3.88	Spike	P	0 - 25
2417501	Fluxapyroxad	8.32	Spike	P	0 - 45
2417501	Fonofos	3.09	Spike	P	0 - 27
2417501	Hexabromobenzene	4.15	Spike	P	0 - 30
2417501	Hexazinone	1.22	Spike	P	0 - 30
2417501	Imazalil	12.1	Spike	P	0 - 100
2417501	Iprodione	66.9	Spike	F	0 - 33
2417501	Loratadine	11.1	Spike	P	0 - 56
2417501	Malathion	8.67	Spike	P	0 - 37
2417501	Metaxyl	21.5	Spike	P	0 - 40
2417501	Metolachlor	8.37	Spike	P	0 - 29
2417501	Metribuzin	0.823	Spike	P	0 - 45
2417501	Mevinphos	26.5	Spike	P	0 - 29
2417501	Molinate	10.3	Spike	P	0 - 33
2417501	Myclobutanil	14.5	Spike	P	0 - 26
2417501	Naled	3.26	Spike	P	0 - 37
2417501	Napropamide	27.1	Spike	P	0 - 44
2417501	Norflurazon	14.2	Spike	P	0 - 30
2417501	Octinoxate	1.36	Spike	P	0 - 45
2417501	Oxadiazon	10.7	Spike	P	0 - 28
2417501	Oxybenzone	3.25	Spike	P	0 - 46
2417501	Oxyfluorfen	2.79	Spike	P	0 - 28
2417501	Parathion Ethyl	9.05	Spike	P	0 - 31
2417501	Parathion Methyl	15.6	Spike	P	0 - 29
2417501	PBB-153	3.48	Spike	P	0 - 30
2417501	PBDE-47	2.65	Spike	P	0 - 36
2417501	PBDE-99	6.90	Spike	P	0 - 40
2417501	Pendimethalin	16.2	Spike	P	0 - 33
2417501	Pentabromotoluene	7.27	Spike	P	0 - 30
2417501	Phenytoin	12.1	Spike	P	0 - 100
2417501	Phorate	12.7	Spike	P	0 - 36
2417501	Prodiamine	4.96	Spike	P	0 - 71
2417501	Prometon	2.66	Spike	P	0 - 36
2417501	Prometryn	4.96	Spike	P	0 - 28
2417501	Pronamide	11.8	Spike	P	0 - 24
2417501	Propanil	12.4	Spike	P	0 - 28
2417501	Propargite	13.3	Spike	P	0 - 43
2417501	Propiconazole	17.2	Spike	P	0 - 33
2417501	Pyraflufen Ethyl	12.9	Spike	P	0 - 29
2417501	Pyridaben	21.8	Spike	P	0 - 30
2417501	Pyriproxyfen	20.8	Spike	P	0 - 79
2417501	Simazine	0.694	Spike	P	0 - 29
2417501	Stirophos	44.0	Spike	P	0 - 61
2417501	Sulfentrazone	30.4	Spike	P	0 - 33
2417501	Tebuconazole	7.20	Spike	P	0 - 69
2417501	Terbufos	3.50	Spike	P	0 - 29
2417501	Terbutylazine	1.32	Spike	P	0 - 32

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P431467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417501	Tetradecachloro-m-terphenyl	6.71	Spike	P	0 - 30
2417501	Thiobencarb	5.54	Spike	P	0 - 26
2417501	Tri-o-cresyl Phosphate	0.0811	Spike	P	0 - 33
2417501	Triadimefon	23.2	Spike	P	0 - 28
2417501	Tris(1-chloro-2-propyl) phosphate (TCPP)	4.34	Spike	P	0 - 30
2417501	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	1.26	Spike	P	0 - 30
2417501	Tris(2-chloroethyl) phosphate (TCEP)	0.582	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P431247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416653	Chlordane	10.3	Spike	P	0 - 25
2416653	Toxaphene	1.57	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P431299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417275	2,4-D	7.28	Spike	P	0 - 30
2417275	2,4,5-T	19.1	Spike	P	0 - 30
2417275	Acetaminophen	3.29	Spike	P	0 - 30
2417275	Acetamiprid	24.9	Spike	P	0 - 30
2417275	Afidopyropen	25.5	Spike	P	0 - 30
2417275	Bentazon	5.26	Spike	P	0 - 30
2417275	Benzovindiflupyr	9.51	Spike	P	0 - 30
2417275	Carbamazepine	15.8	Spike	P	0 - 30
2417275	Clothianidin	5.86	Spike	P	0 - 30
2417275	Dinotefuran	5.66	Spike	P	0 - 30
2417275	Diuron	45.4	Spike	F	0 - 30
2417275	Fenuron	3.80	Spike	P	0 - 30
2417275	Fluridone	0.429	Spike	P	0 - 30
2417275	Hydrocodone	2.30	Spike	P	0 - 30
2417275	Ibuprofen	21.7	Spike	P	0 - 30
2417275	Imazapyr	5.47	Spike	P	0 - 30
2417275	Imidacloprid	22.2	Spike	P	0 - 30
2417275	Linuron	2.75	Spike	P	0 - 30
2417275	Mandestrobin	4.60	Spike	P	0 - 30
2417275	MCPP	6.42	Spike	P	0 - 30
2417275	Naproxen	11.3	Spike	P	0 - 30
2417275	Primidone	26.8	Spike	P	0 - 30
2417275	Pyraclostrobin	0.421	Spike	P	0 - 30
2417275	Silvex	11.1	Spike	P	0 - 30
2417275	Thiamethoxam	3.19	Spike	P	0 - 30
2417275	Tolfenpyrad	3.28	Spike	P	0 - 30
2417275	Triclopyr	22.2	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P431314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417495	Acesulfame K	0.395	Spike	P	0 - 30
2417495	AMPA	4.02	Spike	P	0 - 30
2417495	Endothall	0.867	Spike	P	0 - 30
2417495	Glufosinate	1.92	Spike	P	0 - 30
2417495	Glyphosate	2.11	Spike	P	0 - 30
2417495	Sucralose	0.971	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P431332

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417274	3-Hydroxycarbofuran	1.93	Spike	P	0 - 30
2417274	Aldicarb	10.5	Spike	P	0 - 30
2417274	Aldicarb Sulfone	3.18	Spike	P	0 - 30
2417274	Aldicarb Sulfoxide	23.2	Spike	P	0 - 30
2417274	Carbaryl	25.0	Spike	P	0 - 30
2417274	Carbofuran	1.54	Spike	P	0 - 30
2417274	Methiocarb	14.4	Spike	P	0 - 30
2417274	Methomyl	5.91	Spike	P	0 - 30
2417274	Oxamyl	5.47	Spike	P	0 - 30
2417274	Propoxur	4.70	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P431569

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417428	Total Alkalinity	1.34	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P431885

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417425	TDS	2.04	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P431572

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417428	Fluoride	0.476	Spike	P	0 - 1.9

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

Quality Assurance Report Surrogates

Lab Sample ID: 2417494
Field Sample ID: G4NW0421

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	58.8	P	30 - 160

Lab Sample ID: 2417495
Field Sample ID: G4NW0421

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	106	P	30 - 160
EPA 8321B	Acetaminophen-d4	57.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.4	P	30 - 160
EPA 8321B	Diuron-d6	61.6	P	30 - 160
EPA 8321B	Endothall-d6	108	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	89.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	85.3	P	30 - 160
EPA 8321B	Primidone-d5	75.4	P	30 - 160
EPA 8321B	Sucralose-d6	119	P	30 - 160

Lab Sample ID: 2417500
Field Sample ID: G4NW0421

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	104	P	29 - 130
EPA 8270E	Decachlorobiphenyl	72.1	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	61.0	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	59.7	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	53.7	P	30 - 101
EPA 8276	PCNB	82.6	P	48 - 121

Lab Sample ID: 2417501
Field Sample ID: G4NW0421

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	89.2	P	20 - 200
EPA 8270E	Simazine-d10	81.5	P	62 - 142
EPA 8270E	Terbufos-d10	76.5	P	58 - 132
EPA 8270E	Terphenyl-d14	74.0	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A119831

Included Lab Sample IDs: 2417478, 2417480, 2417481, 2417484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	101	P/P	90 - 110
Color (true)	99.2	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A119833

Included Lab Sample IDs: 2417478, 2417480, 2417481, 2417484

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

Reference Method: EPA 8321B

Run ID: A119868

Included Lab Sample IDs: 2417495

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	141	145	P/P	60 - 160
Sucralose	129	128	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A119875

Included Lab Sample IDs: 2417495

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	104	101	P/P	60 - 160
Endothall	95.4	92.6	P/P	60 - 160
Glufosinate	90.8	90.1	P/P	60 - 160
Glyphosate	109	101	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119899

Included Lab Sample IDs: 2417510, 2417511, 2417512, 2417513

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.4	99.0	P/P	90 - 110
Aluminum	99.0	98.7	P/P	90 - 110
Antimony	98.2	99.3	P/P	90 - 110
Antimony	99.3	98.5	P/P	90 - 110
Arsenic	99.4	99.5	P/P	90 - 110
Arsenic	99.9	99.4	P/P	90 - 110
Barium	97.5	98.1	P/P	90 - 110
Barium	98.1	98.8	P/P	90 - 110
Beryllium	98.1	95.8	P/P	90 - 110
Beryllium	99.2	98.1	P/P	90 - 110
Boron	100	101	P/P	90 - 110
Boron	96.5	100	P/P	90 - 110
Cadmium	98.6	99.1	P/P	90 - 110
Cadmium	99.1	98.8	P/P	90 - 110
Chromium	95.0	97.4	P/P	90 - 110
Chromium	97.4	97.7	P/P	90 - 110
Cobalt	99.6	99.8	P/P	90 - 110
Cobalt	99.8	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119899

Included Lab Sample IDs: 2417510, 2417511, 2417512, 2417513

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	99.3	98.9	P/P	90 - 110
Copper	99.6	99.3	P/P	90 - 110
Lead	93.1	94.1	P/P	90 - 110
Lead	94.1	93.3	P/P	90 - 110
Manganese	96.6	98.5	P/P	90 - 110
Manganese	98.5	98.6	P/P	90 - 110
Molybdenum	97.2	98.6	P/P	90 - 110
Molybdenum	98.6	97.8	P/P	90 - 110
Nickel	99.4	99.3	P/P	90 - 110
Nickel	99.4	99.4	P/P	90 - 110
Selenium	97.7	99.0	P/P	90 - 110
Selenium	99.0	97.3	P/P	90 - 110
Silver	101	102	P/P	90 - 110
Silver	102	103	P/P	90 - 110
Thallium	101	101	P/P	90 - 110
Thallium	99.3	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A119900

Included Lab Sample IDs: 2417495

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	104	93.5	P/P	50 - 150
2,4,5-T	96.7	91.9	P/P	50 - 150
3-Hydroxycarbofuran	105	93.2	P/P	60 - 150
Acetaminophen	75.8	73.3	P/P	60 - 160
Acetamiprid	106	95.3	P/P	50 - 150
Afidopyropen	77.7	109	P/P	50 - 150
Aldicarb	107	113	P/P	60 - 150
Aldicarb Sulfone	101	114	P/P	50 - 150
Aldicarb Sulfoxide	74.3	97.5	P/P	50 - 150
Bentazon	159	142	P/P	50 - 160
Benzovindiflupyr	88.5	101	P/P	50 - 150
Carbamazepine	90.6	105	P/P	60 - 150
Carbaryl	104	106	P/P	60 - 150
Carbofuran	91.7	93.5	P/P	50 - 150
Clothianidin	86.5	99.9	P/P	60 - 150
Dinotefuran	107	104	P/P	50 - 150
Diuron	125	126	P/P	60 - 160
Fenuron	113	98.3	P/P	60 - 150
Fluridone	98.8	97.4	P/P	60 - 160
Hydrocodone	113	100	P/P	60 - 150
Ibuprofen	78.8	132	P/P	50 - 160
Imazapyr	105	104	P/P	50 - 150
Imidacloprid	98.1	90.5	P/P	60 - 150
Linuron	110	105	P/P	60 - 150
Mandestrobin	113	101	P/P	50 - 150
MCPP	99.6	89.8	P/P	50 - 150
Methiocarb	122	108	P/P	50 - 150
Methomyl	98.5	97.9	P/P	50 - 150
Naproxen	68.2	67.8	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A119900
Included Lab Sample IDs: 2417494

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxamyl	118	89.8	P/P	50 - 150
Primidone	110	95.5	P/P	60 - 150
Propoxur	106	112	P/P	50 - 150
Pyraclostrobin	129	105	P/P	60 - 150
Silvex	113	111	P/P	50 - 150
Thiamethoxam	96.5	94.2	P/P	50 - 150
Tolfenpyrad	102	102	P/P	60 - 150
Triclopyr	83.7	99.3	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119917
Included Lab Sample IDs: 2417479, 2417482, 2417483, 2417485

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A119925
Included Lab Sample IDs: 2417479, 2417482, 2417483, 2417485

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	98.9	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A119927
Included Lab Sample IDs: 2417478, 2417480, 2417481, 2417484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.8	100	P/P	90 - 110
Sulfate	99.1	99.6	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A119936
Included Lab Sample IDs: 2417500

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	89.8		P	80 - 120
PCB-1260	105		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A119941
Included Lab Sample IDs: 2417478, 2417480, 2417481, 2417484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.1	98.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A119941
Included Lab Sample IDs: 2417478, 2417480, 2417481, 2417484

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

Reference Method: SM 4500-F- C-2011

Run ID: A119941

Included Lab Sample IDs: 2417478, 2417480, 2417481, 2417484

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

Reference Method: SM 5310 B-2011

Run ID: A119942

Included Lab Sample IDs: 2417479, 2417482, 2417483, 2417485

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.0	96.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119972

Included Lab Sample IDs: 2417479, 2417482, 2417483, 2417485

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	95.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A119996

Included Lab Sample IDs: 2417479, 2417482, 2417483, 2417485

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	104	P/P	90 - 110
NO2NO3-N	104	103	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A120024

Included Lab Sample IDs: 2417500

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	103		P	80 - 120
Alpha-BHC	108		P	80 - 120
Alpha-Chlordane	112		P	80 - 120
Beta-BHC	116		P	80 - 120
Beta-Cyfluthrin	88.9		P	80 - 120
Bifenthrin	97.9		P	80 - 120
Chlorothalonil	105		P	80 - 120
Cis-Nonachlor	115		P	80 - 120
Cypermethrin	98.9		P	80 - 120
Dacthal	96.7		P	80 - 120
DDD-p,p'	107		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	97.6		P	80 - 120
Delta-BHC	110		P	80 - 120
Deltamethrin	90.7		P	80 - 120
Dichlobenil	109		P	80 - 120
Dicofol	93.0		P	80 - 120
Dieldrin	97.6		P	80 - 120
Endosulfan I	105		P	80 - 120
Endosulfan II	108		P	80 - 120
Endosulfan Sulfate	98.5		P	80 - 120
Endrin	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120024
Included Lab Sample IDs: 2417500

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin Aldehyde	116		P	80 - 120
Endrin Ketone	108		P	80 - 120
Esfenvalerate	93.4		P	80 - 120
Ethalfuralin	97.5		P	80 - 120
Fenpropathrin	97.7		P	80 - 120
Gamma-BHC	106		P	80 - 120
Gamma-Chlordane	113		P	80 - 120
Heptachlor	99.6		P	80 - 120
Heptachlor Epoxide	120		P	80 - 120
Hexachlorobenzene	111		P	80 - 120
Kepone	93.3		P	80 - 120
Lambda-Cyhalothrin	114		P	80 - 120
Methoprene	102		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	94.1		P	80 - 120
Mirex	114		P	80 - 120
Oxychlordane	102		P	80 - 120
Permethrin	94.6		P	80 - 120
Phenothrin	103		P	80 - 120
Piperonyl Butoxide	94.2		P	80 - 120
Prallethrin	111		P	80 - 120
Tau-Fluvalinate	83.9		P	80 - 120
Tetramethrin	99.4		P	80 - 120
Trans-Nonachlor	107		P	80 - 120
Triclosan Methyl	118		P	80 - 120
Trifluralin	97.5		P	80 - 120

Reference Method: EPA 8276
Run ID: A120026
Included Lab Sample IDs: 2417500

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.6		P	80 - 120
Toxaphene	99.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A120027
Included Lab Sample IDs: 2417501

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.2		P	80 - 120
Avobenzene	96.1		P	80 - 120
Dechlorane 602	103		P	80 - 120
Dechlorane 603	101		P	80 - 120
Dechlorane Plus	93.6		P	80 - 120
Hexabromobenzene	97.2		P	80 - 120
Octinoxate	92.7		P	80 - 120
Oxybenzone	96.5		P	80 - 120
PBB-153	97.3		P	80 - 120
PBDE-47	94.3		P	80 - 120
PBDE-99	97.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A120027

Included Lab Sample IDs: 2417501

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pentabromotoluene	95.9		P	80 - 120
Tetradecachloro-m-terphenyl	85.0		P	80 - 120
Tri-o-cresyl Phosphate	95.7		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	87.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	91.3		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.0		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A120063

Included Lab Sample IDs: 2417510, 2417511, 2417512, 2417513

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	101	P/P	90 - 110
Calcium	106	104	P/P	90 - 110
Iron	103	102	P/P	90 - 110
Iron	107	105	P/P	90 - 110
Magnesium	103	102	P/P	90 - 110
Magnesium	106	105	P/P	90 - 110
Potassium	103	101	P/P	90 - 110
Potassium	104	104	P/P	90 - 110
Sodium	104	103	P/P	90 - 110
Sodium	106	105	P/P	90 - 110
Strontium	105	107	P/P	90 - 110
Strontium	107	104	P/P	90 - 110
Tin	105	104	P/P	90 - 110
Tin	105	107	P/P	90 - 110
Titanium	102	104	P/P	90 - 110
Titanium	100	99.4	P/P	90 - 110
Vanadium	103	105	P/P	90 - 110
Vanadium	104	101	P/P	90 - 110
Zinc	104	104	P/P	90 - 110
Zinc	105	107	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A120155

Included Lab Sample IDs: 2417501

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	86.3		P	80 - 120
Alachlor	84.8		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	90.2		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	103		P	80 - 120
Azoxystrobin	107		P	80 - 120
Bromacil	99.9		P	80 - 120
Butylate	95.1		P	80 - 120
Caffeine	108		P	80 - 120
Carbophenothion	96.3		P	80 - 120
Carfentrazone Ethyl	100		P	80 - 120
Chlorfenapyr	82.8		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
Run ID: A120155
Included Lab Sample IDs: 2417501

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorpyrifos Ethyl	84.6		P	80 - 120
Chlorpyrifos Methyl	96.3		P	80 - 120
Coumaphos	99.1		P	80 - 120
Cyanazine	102		P	80 - 120
Cyprodinil	95.8		P	80 - 120
Demeton	104		P	80 - 120
Diazinon	98.5		P	80 - 120
Difenoconazole	116		P	80 - 120
Dimethenamid	103		P	80 - 120
Dimethomorph	84.8		P	80 - 120
Disulfoton	105		P	80 - 120
Dithiopyr	100		P	80 - 120
EPTC	98.3		P	80 - 120
Ethion	83.7		P	80 - 120
Ethoprop	99.1		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	90.5		P	80 - 120
Fenbuconazole	91.0		P	80 - 120
Fipronil	90.3		P	80 - 120
Fipronil Desulfinyl	99.2		P	80 - 120
Fipronil Sulfide	98.6		P	80 - 120
Fipronil Sulfone	96.9		P	80 - 120
Fluazifop-P-butyl	98.1		P	80 - 120
Fludioxonil	101		P	80 - 120
Flumioxazin	112		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	91.1		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	97.6		P	80 - 120
Iprodione	55.3*		F	80 - 120
Loratadine	95.3		P	80 - 120
Malathion	82.0		P	80 - 120
Metaxyl	83.6		P	80 - 120
Metolachlor	98.8		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	100		P	80 - 120
Molinate	86.6		P	80 - 120
Myclobutanil	87.0		P	80 - 120
Naled	96.4		P	80 - 120
Napropamide	106		P	80 - 120
Norflurazon	90.7		P	80 - 120
Oxadiazon	99.5		P	80 - 120
Oxyfluorfen	99.2		P	80 - 120
Parathion Ethyl	98.6		P	80 - 120
Parathion Methyl	87.1		P	80 - 120
Pendimethalin	102		P	80 - 120
Phenytol	94.7		P	80 - 120
Phorate	92.7		P	80 - 120
Prodiamine	106		P	80 - 120
Prometon	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120155
Included Lab Sample IDs: 2417501

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometryn	105		P	80 - 120
Pronamide	100		P	80 - 120
Propanil	99.1		P	80 - 120
Propargite	97.6		P	80 - 120
Propiconazole	83.2		P	80 - 120
Pyraflufen Ethyl	99.1		P	80 - 120
Pyridaben	100		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	84.5		P	80 - 120
Stirophos	83.3		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	97.9		P	80 - 120
Terbufos	101		P	80 - 120
Terbutylazine	83.9		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	101		P	80 - 120

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	98.8				2.11	
	Color (true)	101				0.519	
EPA 180.1 Rev. 2.0	Turbidity	98.4				4.05	
EPA 200.7 Rev. 4.4	Calcium	107	104	108			0.537
	Iron	110	108	107	110		0.606
	Magnesium	110	106	105	110		0.780
	Potassium	107	105	104	107		0.195
	Sodium	106	109	109	112		0.421
	Strontium	108	106	106	108		0.0044
	Tin	108	109	109	106		0.265
	Titanium	107	102	105	106		2.04
	Vanadium	107	107	108	109		0.921
	Zinc	110	106	106	109		0.222
EPA 200.8 Rev. 5.4	Aluminum	99.9	97.7	98.2	99.6		0.371
	Antimony	100	101	102	101		1.22
	Arsenic	101	101	101	100		0.866
	Barium	102	103	105	105		0.755
	Beryllium	94.6	92.9	94.6	94.1		1.48
	Boron	103	103	105	106		1.23
	Cadmium	99.5	100	102	99.2		1.24
	Chromium	97.4	94.8	95.0	96.6		0.154
	Cobalt	101	98.6	99.7	101		1.13
	Copper	102	101	102	102		0.741
	Lead	95.3	95.1	95.4	96.3		0.328
	Manganese	98.1	94.9	96.2	96.7		1.05
	Molybdenum	98.4	100	102	97.9		1.28
	Nickel	102	97.4	98.6	102		1.12
	Selenium	102	98.8	99.6	99.3		0.832
	Silver	104	103	106	104		2.13
	Thallium	102	103	104	103		0.793
EPA 300.0 Rev. 2.1	Chloride	99.9	99.0	99.8		0.711	
	Sulfate	97.6	93.1	95.8		0.457	
EPA 350.1 Rev. 2.0	Ammonia-N	96.8	100	100			0.0
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.3	104	106			1.38
EPA 353.2 Rev. 2.0	NO2NO3-N	105	100	101			0.249
	NO2NO3-N	105	105	104			0.477
EPA 365.1 Rev. 2.0	Total-P	101	99.8	97.3			2.44
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107	130	113			13.8
	Acetochlor	80.6	70.3	103			19.0
	Alachlor	88.2	80.8	78.5			2.84
	Aldrin	44.0	53.3	51.3			3.82
	Alpha-BHC	75.4	97.0	87.4			10.4
	Alpha-Chlordane	60.4	75.0	53.6			30.2
	Ametryn	107	150	143			4.65
	Atrazine	96.1					10.6
	Atrazine Desethyl	88.1	115	111			2.28
	Avobenzone	121	132	121			8.68
	Azinphos Methyl	107	153	122			22.5
	Azoxystrobin	103	132	126			4.97
	Beta-BHC	82.7	103	92.2			11.4
	Beta-Cyfluthrin	66.9	79.7	66.2			18.6
	Bifenthrin	62.4	108	80.4			29.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Bromacil	104	108	114			5.35
	Butylate	55.5	58.2	55.0			5.78
	Caffeine	100	108	107			0.565
	Carbophenothion	102	125	106			16.3
	Carfentrazone Ethyl	115	138	126			9.06
	Chlorfenapyr	88.4	99.6	93.5			6.32
	Chlorothalonil	91.0	193	132			37.7
	Chlorpyrifos Ethyl	96.4	93.8	101			7.31
	Chlorpyrifos Methyl	94.6	87.8	90.0			2.55
	Cis-Nonachlor	50.6	72.1	66.3			8.40
	Coumaphos	71.4	179	145			21.0
	Cyanazine	193	213	180			16.8
	Cypermethrin	66.2	83.1	66.0			23.0
	Cyprodinil	107	103	78.3			26.9
	Dacthal	70.3	116	90.7			24.3
	DDD-p,p'	62.5	106	85.6			20.9
	DDE-p,p'	60.8	102	75.1			30.3
	DDT-p,p'	61.4	70.4	60.0			16.0
	Dechlorane 602	98.0	121	113			6.80
	Dechlorane 603	134	160	156			2.43
	Dechlorane Plus	99.8	97.6	98.0			0.446
	Delta-BHC	96.8	143	105			31.3
	Deltamethrin	82.8	110	103			6.79
	Demeton	88.1	98.1	93.3			5.03
	Diazinon	110	110	114			3.94
	Dichlobenil	73.5	39.1	45.6			15.2
	Dicofol	62.5	84.2	73.9			13.1
	Dieldrin	57.1	75.8	67.2			12.1
	Difenoconazole	129	229	200			13.9
	Dimethenamid	91.5	89.4	96.3			7.49
	Dimethomorph	191	165	184			10.4
	Disulfoton	101	111	107			4.41
	Dithiopyr	103	111	110			1.73
	Endosulfan I	62.8	80.5	72.8			10.1
	Endosulfan II	55.3	61.1	59.6			2.46
	Endosulfan Sulfate	57.7	77.2	59.9			25.2
	Endrin	57.6	66.9	64.9			3.06
	Endrin Aldehyde	59.3	87.5	64.6			30.1
	Endrin Ketone	77.3	77.9	68.5			12.9
	EPTC	51.5	49.4	44.8			9.68
	Esfenvalerate	91.8	118	128			8.39
	Ethalfuralin	59.6	62.8	62.9			0.0547
	Ethion	83.4	93.8	81.4			14.1
	Ethoprop	95.6	101	100			0.229
	Etridiazole	70.0	83.4	66.1			23.1
	Fenamiphos	92.8	82.4	91.8			10.8
	Fenbuconazole	70.7	108	95.7			11.7
	Fenpropathrin	61.3	74.0	65.4			12.3
	Fipronil	106	118	106			10.6
	Fipronil Desulfanyl	100	111	99.5			10.7
	Fipronil Sulfide	93.5	94.9	95.4			0.573
	Fipronil Sulfone	83.8	95.7	101			5.81
	Fluazifop-P-butyl	96.3	80.5	94.7			16.3
	Fludioxonil	89.7	91.7	105			13.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Flumioxazin	114	214	194			9.81
	Flutolanil	93.6	96.1	99.9			3.88
	Fluxapyroxad	103	123	112			8.32
	Fonofos	93.8	90.1	87.3			3.09
	Gamma-BHC	80.4	115	91.4			23.0
	Gamma-Chlordane	63.0	64.3	46.1			29.6
	Heptachlor	53.4	56.9	56.4			0.808
	Heptachlor Epoxide	77.2	76.9	67.8			12.6
	Hexabromobenzene	133	145	139			4.15
	Hexachlorobenzene	51.9	81.0	57.8			33.6
	Hexazinone	98.8	108	109			1.22
	Imazalil	101	107	94.7			12.1
	Iprodione	118	94.9	190			66.9
	Kepone	53.5	93.4	54.8			52.1
	Lambda-Cyhalothrin	79.9	190	155			20.4
	Loratadine	181	137	154			11.1
	Malathion	101	115	105			8.67
	Metalaxyl	97.4	111	89.2			21.5
	Methoprene	42.6	47.4	41.9			12.4
	Methoxychlor	69.5	83.0	75.2			9.94
	Metolachlor	101	80.0	98.7			8.37
	Metribuzin	95.8	104	105			0.823
	Mevinphos	97.1	143	110			26.5
	MGK-264	49.2	57.9	55.7			3.83
	Mirex	59.2	86.7	68.8			23.0
	Molinate	57.3	54.2	60.1			10.3
	Myclobutanil	98.0	118	102			14.5
	Naled	48.5	44.9	46.4			3.26
	Napropamide	85.0	78.1	103			27.1
	Norflurazon	62.3	120	104			14.2
	Octinoxate	123	128	126			1.36
	Oxadiazon	94.6	106	95.2			10.7
	Oxybenzone	128	141	136			3.25
	Oxychlordane	53.2	47.8	47.4			0.863
	Oxyfluorfen	112	118	121			2.79
	Parathion Ethyl	103	106	96.7			9.05
	Parathion Methyl	104	96.6	82.6			15.6
	PBB-153	130	149	144			3.48
	PBDE-47	112	121	118			2.65
	PBDE-99	96.6	117	109			6.90
	PCB-1016	71.3	92.2	104			11.7
	PCB-1260	65.5	83.8	106			23.7
	Pendimethalin	112	123	105			16.2
	Pentabromotoluene	123	132	123			7.27
	Permethrin	60.2	75.7	79.4			4.69
	Phenothrin	79.0	115	107			6.97
	Phenytol	22.8	41.7	36.9			12.1
	Phorate	87.6	127	112			12.7
	Piperonyl Butoxide	75.7	113	105			7.22
	Prallethrin	52.9	45.2	44.4			1.67
	Prodiamine	48.2	55.7	53.0			4.96
	Prometon	98.7	102	99.2			2.66
	Prometryn	118	111	116			4.96
	Pronamide	114	131	117			11.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Propanil	119	138	122			12.4
	Propargite	65.7	92.3	80.8			13.3
	Propiconazole	89.1	124	105			17.2
	Pyraflufen Ethyl	97.7	126	111			12.9
	Pyridaben	125	171	137			21.8
	Pyriproxyfen	85.5	134	108			20.8
	Simazine	91.1	96.2	95.6			0.694
	Stirophos	69.2	53.1	83.0			44.0
	Sulfentrazone	77.2	119	87.3			30.4
	Tau-Fluvalinate	76.3	148	138			6.75
	Tebuconazole	70.0	98.0	91.2			7.20
	Terbufos	109	121	116			3.50
	Terbutylazine	86.5	90.5	91.7			1.32
	Tetradecachloro-m-terphenyl	141	126	135			6.71
	Tetramethrin	67.7	83.3	72.4			13.9
	Thiobencarb	93.6	97.1	91.4			5.54
	Trans-Nonachlor	56.2	71.5	45.6			44.3
	Tri-o-cresyl Phosphate	123	129	129			0.0811
	Triadimefon	96.6	114	90.4			23.2
	Triclosan Methyl	69.8	81.1	69.3			15.7
	Trifluralin	66.4	54.2	56.2			3.71
	Tris(1-chloro-2-propyl) phosphate (TCPP)	121	108	104			4.34
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	111	120	121			1.26
	Tris(2-chloroethyl) phosphate (TCEP)	117	120	121			0.582
EPA 8276	Chlordane	59.2	47.4	42.8			10.3
	Toxaphene	64.1	58.9	59.9			1.57
EPA 8321B	2,4-D	106	108	100			7.28
	2,4,5-T	94.0	110	91.1			19.1
	3-Hydroxycarbofuran	54.2	68.7	70.1			1.93
	Acesulfame K	146	135	135			0.395
	Acetaminophen	49.1	51.3	49.6			3.29
	Acetamiprid	79.2	86.8	67.5			24.9
	Afidopyropen	62.2	54.5	70.5			25.5
	Aldicarb	40.7	59.6	53.7			10.5
	Aldicarb Sulfone	77.9	86.2	83.5			3.18
	Aldicarb Sulfoxide	93.0	31.8	25.2			23.2
	AMPA	81.6	74.7	71.7			4.02
	Bentazon	110	104	110			5.26
	Benzovindiflupyr	64.4	94.4	85.9			9.51
	Carbamazepine	67.4	85.8	73.3			15.8
	Carbaryl	77.8	69.2	53.9			25.0
	Carbofuran	69.8	62.4	63.4			1.54
	Clothianidin	84.1	91.3	96.8			5.86
	Dinotefuran	86.0	95.1	89.8			5.66
	Diuron	51.7	46.7	74.1			45.4
	Endothall	97.0	101	102			0.867
	Fenuron	72.2	73.4	70.7			3.80
	Fluridone	73.1	73.8	73.5			0.429
	Glufosinate	102	92.8	94.6			1.92
	Glyphosate	107	90.5	92.4			2.11
	Hydrocodone	86.2	82.8	84.7			2.30

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Ibuprofen	85.3	64.3	79.9		21.7
	Imazapyr	88.9	113	107		5.47
	Imidacloprid	79.6	98.8	126		22.2
	Linuron	82.7	63.6	65.4		2.75
	Mandestrobin	78.8	91.3	87.2		4.60
	MCCP	95.8	112	105		6.42
	Methiocarb	65.1	78.8	91.0		14.4
	Methomyl	76.4	74.8	70.5		5.91
	Naproxen	70.7	75.3	67.2		11.3
	Oxamyl	70.9	76.1	80.3		5.47
	Primidone	77.1	90.0	68.7		26.8
	Propoxur	66.3	64.7	67.8		4.70
	Pyraclostrobin	87.0	89.3	89.7		0.421
	Silvex	96.2	109	97.2		11.1
	Sucralose	120	124	123		0.971
	Thiamethoxam	83.2	98.5	102		3.19
	Tolfenpyrad	60.4	56.0	54.2		3.28
	Triclopyr	93.5	121	96.7		22.2
SM 2320 B-2011	Total Alkalinity	97.3			1.34	
SM 2540 C-2015	TDS	96.6			2.04	
SM 2540 D-2015	TSS	95.8				
SM 4500-F- C-2011	Fluoride	102	101	101		0.476
SM 5310 B-2011	Organic Carbon	95.2	96.5			

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2417478, 2417480, 2417481, 2417484
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2417478, 2417480, 2417481, 2417484
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2417510, 2417511, 2417512, 2417513
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2417510, 2417511, 2417512, 2417513
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2417478, 2417480, 2417481, 2417484
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2417478, 2417480, 2417481, 2417484
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2417479, 2417482, 2417483, 2417485
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2417479, 2417482, 2417483, 2417485
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2417479, 2417482, 2417483, 2417485
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2417479, 2417482, 2417483, 2417485
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2417501
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2417500
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2417501
EPA 8270E	PCBs in water matrices by GC/MS/MS	2417500
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2417500
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2417494
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2417495
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2417478, 2417480, 2417481, 2417484
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2417510, 2417511, 2417512, 2417513
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2417478, 2417480, 2417481, 2417484
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2417478, 2417480, 2417481, 2417484
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2417478, 2417480, 2417481, 2417484
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2417479, 2417482, 2417483, 2417485

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	06/15/2023			06/15/2023 14:39	Chandler E Cox	2417478
	06/15/2023			06/15/2023 14:40	Chandler E Cox	2417480
	06/15/2023			06/15/2023 14:41	Chandler E Cox	2417481
	06/15/2023			06/15/2023 15:00	Chandler E Cox	2417484
EPA 180.1 Rev. 2.0	06/15/2023			06/15/2023 13:07	Alexis Price	2417478
	06/15/2023			06/15/2023 13:08	Alexis Price	2417480
	06/15/2023			06/15/2023 13:09	Alexis Price	2417481
	06/15/2023			06/15/2023 13:11	Alexis Price	2417484
EPA 200.7 Rev. 4.4	06/15/2023	06/16/2023 11:55	George D Taylor	06/27/2023 16:15	Samatha Luckman	2417513
	06/15/2023	06/16/2023 11:55	George D Taylor	06/27/2023 19:07	Samatha Luckman	2417510
	06/15/2023	06/16/2023 11:55	George D Taylor	06/27/2023 19:13	Samatha Luckman	2417511
	06/15/2023	06/16/2023 11:55	George D Taylor	06/27/2023 19:31	Samatha Luckman	2417512
EPA 200.8 Rev. 5.4	06/15/2023	06/16/2023 11:55	George D Taylor	06/19/2023 18:31	Emily M Philpot	2417513
	06/15/2023	06/16/2023 11:55	George D Taylor	06/19/2023 21:05	Emily M Philpot	2417510
	06/15/2023	06/16/2023 11:55	George D Taylor	06/19/2023 21:14	Emily M Philpot	2417512
	06/15/2023	06/16/2023 11:55	George D Taylor	06/19/2023 21:34	Emily M Philpot	2417511
EPA 300.0 Rev. 2.1	06/15/2023			06/21/2023 14:15	James L Waggeberby	2417478
	06/15/2023			06/21/2023 14:31	James L Waggeberby	2417480
	06/15/2023			06/21/2023 14:46	James L Waggeberby	2417481
	06/15/2023			06/21/2023 15:01	James L Waggeberby	2417484
EPA 350.1 Rev. 2.0	06/15/2023			06/20/2023 15:07	Khloe J Berg	2417479
	06/15/2023			06/20/2023 15:08	Khloe J Berg	2417482
	06/15/2023			06/20/2023 15:10	Khloe J Berg	2417483
	06/15/2023			06/20/2023 15:11	Khloe J Berg	2417485
EPA 351.2 Rev. 2.0	06/15/2023	06/21/2023 10:13	Samantha L Bates	06/22/2023 13:42	Samantha L Bates	2417479
	06/15/2023	06/21/2023 10:13	Samantha L Bates	06/22/2023 13:43	Samantha L Bates	2417482
	06/15/2023	06/21/2023 10:13	Samantha L Bates	06/22/2023 13:45	Samantha L Bates	2417483
	06/15/2023	06/21/2023 10:13	Samantha L Bates	06/22/2023 13:47	Samantha L Bates	2417485
EPA 353.2 Rev. 2.0	06/15/2023			06/23/2023 11:36	Beverly Y. Sanders	2417485
	06/15/2023			06/23/2023 13:07	Beverly Y. Sanders	2417479
	06/15/2023			06/23/2023 13:08	Beverly Y. Sanders	2417482
	06/15/2023			06/23/2023 13:09	Beverly Y. Sanders	2417483
EPA 365.1 Rev. 2.0	06/15/2023	06/16/2023 15:00	Alexis Price	06/20/2023 11:21	James L Waggeberby	2417485
	06/15/2023	06/16/2023 15:00	Alexis Price	06/20/2023 11:22	James L Waggeberby	2417482
	06/15/2023	06/16/2023 15:00	Alexis Price	06/20/2023 11:23	James L Waggeberby	2417479
	06/15/2023	06/16/2023 15:00	Alexis Price	06/20/2023 11:24	James L Waggeberby	2417483
EPA 8270E	06/15/2023	06/16/2023 08:00	Fe-Val Siddell	06/21/2023 00:44	Michael Poppell	2417500
	06/15/2023	06/16/2023 08:00	Fe-Val Siddell	06/21/2023 01:19	Lipi Saha	2417500
	06/15/2023	06/21/2023 08:00	Fe-Val Siddell	06/23/2023 20:06	Arthur Maknenko	2417501
	06/15/2023	06/21/2023 08:00	Fe-Val Siddell	06/29/2023 16:00	Vandana T. Nagar	2417501

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8276	06/15/2023	06/16/2023 08:00	Fe-Val Siddell	06/23/2023 03:51	Lipi Saha	2417500
EPA 8321B	06/15/2023	06/16/2023 12:00	Touraj Touran	06/16/2023 14:37	Touraj Touran	2417495
	06/15/2023	06/16/2023 12:00	Touraj Touran	06/18/2023 18:30	Touraj Touran	2417495
	06/15/2023	06/19/2023 09:00	Hoor Shaik	06/20/2023 20:30	Juyoung Kim	2417495
	06/15/2023	06/20/2023 08:30	Hoor Shaik	06/21/2023 00:53	Juyoung Kim	2417494
SM 2320 B-2011	06/15/2023			06/21/2023 06:36	Dale L. Simmons	2417478
	06/15/2023			06/21/2023 06:47	Dale L. Simmons	2417480
	06/15/2023			06/21/2023 06:58	Dale L. Simmons	2417481
	06/15/2023			06/21/2023 07:07	Dale L. Simmons	2417484
SM 2340 B-2011	06/15/2023			06/27/2023 16:15	Samatha Luckman	2417513
	06/15/2023			06/27/2023 19:07	Samatha Luckman	2417510
	06/15/2023			06/27/2023 19:13	Samatha Luckman	2417511
	06/15/2023			06/27/2023 19:31	Samatha Luckman	2417512
SM 2540 C-2015	06/15/2023			06/19/2023 14:50	Dana G. Hughes	2417478, 2417480, 2417481, 2417484
SM 2540 D-2015	06/15/2023			06/19/2023 14:50	Dana G. Hughes	2417478, 2417480, 2417481, 2417484
SM 4500-F- C-2011	06/15/2023			06/21/2023 06:36	Dale L. Simmons	2417478
	06/15/2023			06/21/2023 06:47	Dale L. Simmons	2417480
	06/15/2023			06/21/2023 06:58	Dale L. Simmons	2417481
	06/15/2023			06/21/2023 07:07	Dale L. Simmons	2417484
SM 5310 B-2011	06/15/2023			06/20/2023 11:08	Elise M. Gillis	2417479
	06/15/2023			06/20/2023 11:27	Elise M. Gillis	2417482
	06/15/2023			06/20/2023 11:46	Elise M. Gillis	2417483
	06/15/2023			06/20/2023 12:07	Elise M. Gillis	2417485