

Chemical Analysis Report

SE-DIST-2023-12-07-01

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

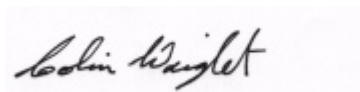
Event Description: **SMP - Basinger**
Request ID: **RQ-2023-11-13-54**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Andrew Luering

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Certified by: Colin Wright, Program Administrator

Date Certified: 04-JAN-2024 17:08

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a white rectangular background.

Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

**Sample Location: CHANDLER SLOUGH AT SOUTHERN US98
CULVERT**

Collection Date/Time: 12/06/2023 09:45

Field ID: G4SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455136	DEP SOP: NU-094-1	Color (true)	95		PCU	P438671	
	EPA 180.1 Rev. 2.0	Turbidity	0.60	I	NTU	P438658	
	EPA 300.0 Rev. 2.1	Chloride	220		mg Cl/L	P439033	
		Sulfate	60		mg SO4/L	P439139	
	SM 2320 B-2011	Total Alkalinity	77		mg CaCO3/L	P438936	
	SM 2540 C-2015	TDS	624		mg/L	P439144	
	SM 2540 D-2015	TSS	3	I	mg/L	P439130	
	SM 4500-F- C-2011	Fluoride	0.13		mg F/L	P438938	
2455137	EPA 350.1 Rev. 2.0	Ammonia-N	0.057		mg N/L	P438841	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99		mg N/L	P438749	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.037		mg N/L	P438731	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P438835	
	SM 5310 B-2014	Organic Carbon	21		mg C/L	P438734	
2455146	EPA 8321B	Aldicarb	0.020	U	ug/L	P438625	
		Aldicarb Sulfone	0.0020	U	ug/L	P438625	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P438625	
		Carbaryl	0.0020	U	ug/L	P438625	
		Carbofuran	0.0020	U	ug/L	P438625	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P438625	
		Methiocarb	0.0020	U	ug/L	P438625	
		Methomyl	0.0020	U	ug/L	P438625	
		Oxamyl	0.0020	U	ug/L	P438625	
		Propoxur	0.0020	U	ug/L	P438625	
		2,4-D	0.0020	U	ug/L	P438542	
		Acesulfame K	0.10	U	ug/L	P438531	
		2,4,5-T	0.0040	U	ug/L	P438542	
2455147		AMPA	0.42		ug/L	P438531	
		Acetaminophen	0.0080	U	ug/L	P438542	
		Acetamiprid	0.0020	U	ug/L	P438542	
		Endothall	0.25	U	ug/L	P438531	
		Glufosinate	0.10	U	ug/L	P438531	
		Glyphosate	0.10	U	ug/L	P438531	
		Afidopyropen	0.0020	U	ug/L	P438542	RPD
		Bentazon	0.20		ug/L	P438542	
		Sucralose	0.010	U	ug/L	P438531	
		Benzovindiflupyr	0.0020	U	ug/L	P438542	
		Carbamazepine	8.0E-04	U	ug/L	P438542	
		Clothianidin	0.0020	U	ug/L	P438542	
		Dinotefuran	0.024		ug/L	P438542	
		Diuron	0.0020	U	ug/L	P438542	
		Fenuron	0.032	U	ug/L	P438542	
		Fluridone	8.0E-04	U	ug/L	P438542	
		Imazapyr	0.0096	I	ug/L	P438542	

Field ID: G4SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455147	EPA 8321B	Hydrocodone	0.0020	U	ug/L	P438542	
		Ibuprofen	0.080	U	ug/L	P438542	
		Imidacloprid	0.0020	U	ug/L	P438542	
		Linuron	0.0040	U	ug/L	P438542	
		Mandestrobin	0.0020	U	ug/L	P438542	
		MCP	0.0020	U	ug/L	P438542	
		Naproxen	0.0080	U	ug/L	P438542	
		Primidone	0.0040	U	ug/L	P438542	
		Pyraclostrobin	0.0020	U	ug/L	P438542	
		Silvex	0.0040	U	ug/L	P438542	
		Thiamethoxam	0.0020	U	ug/L	P438542	
		Tolfenpyrad	0.0020	U	ug/L	P438542	
		Triclopyr	0.0040	U	ug/L	P438542	
2455150	EPA 8270E	Aldrin	0.67	U	ng/L	P438606	
		Alpha-BHC	0.10	U	ng/L	P438606	MS
		Alpha-Chlordane	0.21	U	ng/L	P438606	
		PCB-1016	2.1	U	ng/L	P438606	MS
		Beta-BHC	0.10	U	ng/L	P438606	
		PCB-1221	2.1	U	ng/L	P438606	
		Beta-Cyfluthrin	1.3	U	ng/L	P438606	
		PCB-1232	2.1	U	ng/L	P438606	
		Bifenthrin	0.51	U	ng/L	P438606	
		PCB-1242	2.1	U	ng/L	P438606	
		PCB-1248	2.1	U	ng/L	P438606	
		Chlorothalonil	3.7	U	ng/L	P438606	
		PCB-1254	2.1	U	ng/L	P438606	
		Cis-Nonachlor	0.21	U	ng/L	P438606	
		PCB-1260	2.1	U	ng/L	P438606	MS
		Cypermethrin	1.5	U	ng/L	P438606	
		Dacthal	0.15	U	ng/L	P438606	
		DDD-p,p'	0.26	U	ng/L	P438606	
		DDE-p,p'	0.21	U	ng/L	P438606	
		DDT-p,p'	0.82	U	ng/L	P438606	
		Delta-BHC	0.41	U	ng/L	P438606	
		Deltamethrin	1.3	U	ng/L	P438606	
		Dichlobenil	0.26	U	ng/L	P438606	RPD
		Dicofol	1.3	U	ng/L	P438606	
		Dieldrin	0.41	U	ng/L	P438606	MS
		Endosulfan I	0.41	U	ng/L	P438606	RPD
		Endosulfan II	0.92	U	ng/L	P438606	
		Endosulfan Sulfate	0.31	U	ng/L	P438606	RPD
		Endrin	0.92	U	ng/L	P438606	
		Endrin Aldehyde	0.77	U	ng/L	P438606	RPD
		Endrin Ketone	0.41	U	ng/L	P438606	
		Esfenvalerate	0.77	U	ng/L	P438606	

Field ID: G4SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes		
2455150	EPA 8270E	Ethalfuralin	0.15	U	ng/L	P438606			
		Fenpropathrin	0.26	U	ng/L	P438606	MS		
		Gamma-BHC	0.13	U	ng/L	P438606	MS		
		Gamma-Chlordane	0.21	U	ng/L	P438606			
		Heptachlor	0.21	U	ng/L	P438606			
		Heptachlor Epoxide	0.26	U	ng/L	P438606			
		Hexachlorobenzene**	1.0	U	ng/L	P438606	MS, RPD		
		Kepone	14	U	ng/L	P438606			
		Lambda-Cyhalothrin	0.77	U	ng/L	P438606			
		Methoprene	0.77	U	ng/L	P438606			
		Methoxychlor	0.31	U	ng/L	P438606	MS		
		MGK-264	0.21	U	ng/L	P438606			
		Mirex	0.36	U	ng/L	P438606			
		Oxychlordane	0.31	U	ng/L	P438606	MS, RPD		
		Permethrin	1.6	U	ng/L	P438606			
		Phenothrin	0.92	U	ng/L	P438606			
		Piperonyl Butoxide	0.15	U	ng/L	P438606			
		Prallethrin	2.1	U	ng/L	P438606			
		Tau-Fluvalinate	0.26	U	ng/L	P438606	RPD		
		Tetramethrin	0.77	U	ng/L	P438606			
		Trans-Nonachlor	0.21	U	ng/L	P438606			
		Triclosan Methyl	0.15	U	ng/L	P438606			
		Trifluralin	0.21	U	ng/L	P438606			
			EPA 8276	Chlordane	2.1	U	ng/L	P438606	
				Toxaphene	15	U	ng/L	P438606	
2455151	EPA 8270E	Oxybenzone**	10	UJ	ng/L	P438743	LCS, MS		
		Acetochlor	0.21	U	ng/L	P438743			
		Octinoxate**	200	I	ng/L	P438743	MS		
		Alachlor	0.41	U	ng/L	P438743			
		Avobenzone**	100	U	ng/L	P438743	MS		
		Ametryn	9.9	J	ng/L	P438743			
		Atrazine	7.0	J	ng/L	P438743			
		PBDE-47**	4.1	U	ng/L	P438743	MS		
		Atrazine Desethyl	1.3	U	ng/L	P438743			
		PBDE-99**	5.1	U	ng/L	P438743	MS		
		Azinphos Methyl	3.1	U	ng/L	P438743			
		Tri-o-cresyl Phosphate**	6.2	UJ	ng/L	P438743	LCS, MS		
		Azoxystrobin	1.5	I	ng/L	P438743			
		Bromacil	0.62	U	ng/L	P438743			
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P438743	MS		
		Butylate	0.46	U	ng/L	P438743			
		Dechlorane Plus**	31	U	ng/L	P438743			
		Caffeine**	7.7	U	ng/L	P438743			
		Dechlorane 602**	5.1	U	ng/L	P438743	MS		

Field ID: G4SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455151	EPA 8270E	Carbophenothion	0.51	U	ng/L	P438743	
		Dechlorane 603**	4.1	U	ng/L	P438743	
		Carfentrazone Ethyl	0.15	U	ng/L	P438743	
		Hexabromobenzene**	6.2	U	ng/L	P438743	
		Chlorfenapyr	0.31	U	ng/L	P438743	
		PBB-153**	6.2	U	ng/L	P438743	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P438743	
		Pentabromotoluene**	3.1	U	ng/L	P438743	MS, RPD
		Chlorpyrifos Methyl	0.10	U	ng/L	P438743	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	U	ng/L	P438743	MS
		Coumaphos	1.1	U	ng/L	P438743	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P438743	
		Cyanazine	5.1	U	ng/L	P438743	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	UJ	ng/L	P438743	LCS, MS
		Cyprodinil	0.21	U	ng/L	P438743	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P438743	MS
		Demeton	3.6	U	ng/L	P438743	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P438743	MS
		Diazinon	0.13	U	ng/L	P438743	
		Difenoconazole	0.62	U	ng/L	P438743	
		Dimethenamid	0.10	U	ng/L	P438743	
		Dimethomorph	0.31	U	ng/L	P438743	
		Disulfoton	0.62	U	ng/L	P438743	
		Dithiopyr	1.0	U	ng/L	P438743	
		EPTC	0.51	U	ng/L	P438743	
		Ethion	0.31	U	ng/L	P438743	
		Ethoprop	0.13	U	ng/L	P438743	
		Etridiazole	0.10	U	ng/L	P438743	
		Fenamiphos	0.46	U	ng/L	P438743	
		Fenbuconazole	0.51	U	ng/L	P438743	
		Fipronil	0.21	U	ng/L	P438743	
		Fipronil Desulfinyl**	0.10	U	ng/L	P438743	
		Fipronil Sulfide	0.10	U	ng/L	P438743	
		Fipronil Sulfone	0.10	U	ng/L	P438743	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P438743	LCS, MS
		Fludioxonil	0.10	U	ng/L	P438743	
		Flumioxazin	3.1	U	ng/L	P438743	
		Flutolanil	1.9		ng/L	P438743	
		Fluxapyroxad	10	J	ng/L	P438743	CCV
		Fonofos	0.15	U	ng/L	P438743	
		Hexazinone	77		ng/L	P438743	
		Imazalil	0.67	UJ	ng/L	P438743	CCV
		Iprodione	1.5	I	ng/L	P438743	
		Loratadine**	0.31	U	ng/L	P438743	

Field ID: G4SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455151	EPA 8270E	Malathion	0.36	U	ng/L	P438743	
		Metalaxyl	0.51	U	ng/L	P438743	
		Metolachlor	21		ng/L	P438743	
		Metribuzin	0.41	U	ng/L	P438743	
		Mevinphos	1.0	U	ng/L	P438743	
		Molinate	0.26	U	ng/L	P438743	
		Myclobutanil	0.36	U	ng/L	P438743	
		Naled	2.6	U	ng/L	P438743	
		Napropamide	0.72	U	ng/L	P438743	
		Norflurazon	1.0	U	ng/L	P438743	MS
		Oxadiazon	0.36	U	ng/L	P438743	
		Oxyfluorfen	0.21	U	ng/L	P438743	
		Parathion Ethyl	0.15	UJ	ng/L	P438743	LCS
		Parathion Methyl	0.21	U	ng/L	P438743	
		Pendimethalin	1.7	U	ng/L	P438743	
		Phenytion**	5.5	U	ng/L	P438743	
		Phorate	0.26	U	ng/L	P438743	
		Prodiamine	0.21	U	ng/L	P438743	
		Prometon	3.1	U	ng/L	P438743	
		Prometryn	9.7		ng/L	P438743	MS
		Pronamide	8.8	J	ng/L	P438743	
		Propanil	0.10	U	ng/L	P438743	
		Propargite	0.82	U	ng/L	P438743	
		Propiconazole	0.62	U	ng/L	P438743	
		Pyraflufen Ethyl	0.31	U	ng/L	P438743	
		Pyridaben	1.4	U	ng/L	P438743	
		Pyriproxyfen	0.26	UJ	ng/L	P438743	CCV
		Simazine	6.1		ng/L	P438743	
		Stirophos	0.41	U	ng/L	P438743	
		Sulfentrazone	37	J	ng/L	P438743	CCV
		Tebuconazole	1.4	U	ng/L	P438743	
		Terbufos	0.21	U	ng/L	P438743	
		Terbutylazine	0.21	U	ng/L	P438743	
		Thiobencarb	0.51	U	ng/L	P438743	
		Triadimefon	0.15	U	ng/L	P438743	

Ref. Method and Comment:

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

EPA 8270E: 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. Estimation for ametryn, atrazine, fluxapyroxad and pronamide due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: OAK CREEK AT 68

Collection Date/Time: 12/06/2023 10:30

Field ID: G4SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455148	EPA 8321B	Aldicarb	0.020	U	ug/L	P438625	
		Aldicarb Sulfone	0.0020	U	ug/L	P438625	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P438625	
		Carbaryl	0.0020	U	ug/L	P438625	
		Carbofuran	0.0020	U	ug/L	P438625	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P438625	
		Methiocarb	0.0020	U	ug/L	P438625	
		Methomyl	0.0020	U	ug/L	P438625	
		Oxamyl	0.0020	U	ug/L	P438625	
		Propoxur	0.0020	U	ug/L	P438625	
2455149		2,4-D	0.0020	U	ug/L	P438542	
		Acesulfame K	0.10	U	ug/L	P438531	
		2,4,5-T	0.0040	U	ug/L	P438542	
		AMPA	0.10	U	ug/L	P438531	
		Acetaminophen	0.0083	I	ug/L	P438542	
		Acetamiprid	0.0020	U	ug/L	P438542	
		Endothall	0.25	U	ug/L	P438531	
		Glufosinate	0.10	U	ug/L	P438531	
		Glyphosate	0.10	U	ug/L	P438531	
		Afidopyropen	0.0020	U	ug/L	P438542	RPD
		Bentazon	8.0E-04	U	ug/L	P438542	
		Sucralose	0.017	I	ug/L	P438531	
		Benzovindiflupyr	0.0020	U	ug/L	P438542	
		Carbamazepine	8.0E-04	U	ug/L	P438542	
		Clothianidin	0.0020	U	ug/L	P438542	
		Dinotefuran	0.0020	U	ug/L	P438542	
		Diuron	0.0020	U	ug/L	P438542	
		Fenuron	0.032	U	ug/L	P438542	
		Fluridone	8.0E-04	U	ug/L	P438542	
		Imazapyr	0.0067	I	ug/L	P438542	
		Hydrocodone	0.0020	U	ug/L	P438542	
		Ibuprofen	0.080	U	ug/L	P438542	
		Imidacloprid	0.0020	U	ug/L	P438542	
		Linuron	0.0040	U	ug/L	P438542	
		Mandestrobin	0.0020	U	ug/L	P438542	
		MCPP	0.0020	U	ug/L	P438542	
		Naproxen	0.0080	U	ug/L	P438542	
		Primidone	0.0040	U	ug/L	P438542	
		Pyraclostrobin	0.0020	U	ug/L	P438542	
		Silvex	0.0040	U	ug/L	P438542	
		Thiamethoxam	0.0020	U	ug/L	P438542	
		Tolfenpyrad	0.0020	U	ug/L	P438542	
		Triclopyr	0.0040	U	ug/L	P438542	
2455152	EPA 8270E	Aldrin	0.67	U	ng/L	P438606	

Field ID: G4SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455152	EPA 8270E	Alpha-BHC	0.10	U	ng/L	P438606	MS
		Alpha-Chlordane	0.21	U	ng/L	P438606	
		PCB-1016	2.1	U	ng/L	P438606	MS
		Beta-BHC	0.10	U	ng/L	P438606	
		PCB-1221	2.1	U	ng/L	P438606	
		Beta-Cyfluthrin	1.3	U	ng/L	P438606	
		PCB-1232	2.1	U	ng/L	P438606	
		Bifenthrin	0.52	U	ng/L	P438606	
		PCB-1242	2.1	U	ng/L	P438606	
		PCB-1248	2.1	U	ng/L	P438606	
		Chlorothalonil	3.7	U	ng/L	P438606	
		PCB-1254	2.1	U	ng/L	P438606	
		Cis-Nonachlor	0.21	U	ng/L	P438606	
		PCB-1260	2.1	U	ng/L	P438606	MS
		Cypermethrin	1.5	U	ng/L	P438606	
		Dacthal	0.15	U	ng/L	P438606	
		DDD-p,p'	0.26	U	ng/L	P438606	
		DDE-p,p'	0.21	U	ng/L	P438606	
		DDT-p,p'	0.83	U	ng/L	P438606	
		Delta-BHC	0.41	U	ng/L	P438606	
		Deltamethrin	1.3	U	ng/L	P438606	
		Dichlobenil	0.26	U	ng/L	P438606	RPD
		Dicofol	1.3	U	ng/L	P438606	
		Dieldrin	0.41	U	ng/L	P438606	MS
		Endosulfan I	0.41	U	ng/L	P438606	RPD
		Endosulfan II	0.93	U	ng/L	P438606	
		Endosulfan Sulfate	0.31	U	ng/L	P438606	RPD
		Endrin	0.93	U	ng/L	P438606	
		Endrin Aldehyde	0.77	U	ng/L	P438606	RPD
		Endrin Ketone	0.41	U	ng/L	P438606	
		Esfenvalerate	0.77	U	ng/L	P438606	
		Ethalfuralin	0.15	U	ng/L	P438606	
		Fenpropathrin	0.26	U	ng/L	P438606	MS
		Gamma-BHC	0.13	U	ng/L	P438606	MS
		Gamma-Chlordane	0.21	U	ng/L	P438606	
		Heptachlor	0.21	U	ng/L	P438606	
		Heptachlor Epoxide	0.26	U	ng/L	P438606	
		Hexachlorobenzene**	1.0	U	ng/L	P438606	MS, RPD
		Kepone	14	U	ng/L	P438606	
		Lambda-Cyhalothrin	0.77	U	ng/L	P438606	
		Methoprene	0.77	U	ng/L	P438606	
		Methoxychlor	0.31	U	ng/L	P438606	MS
		MGK-264	0.21	U	ng/L	P438606	
		Mirex	0.36	U	ng/L	P438606	
		Oxychlordane	0.31	U	ng/L	P438606	MS, RPD

Field ID: G4SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455152	EPA 8270E	Permethrin	1.7	U	ng/L	P438606	
		Phenothrin	0.93	U	ng/L	P438606	
		Piperonyl Butoxide	2.2		ng/L	P438606	
		Prallethrin	2.1	U	ng/L	P438606	
		Tau-Fluvalinate	0.26	U	ng/L	P438606	RPD
		Tetramethrin	0.77	U	ng/L	P438606	
		Trans-Nonachlor	0.21	U	ng/L	P438606	
		Triclosan Methyl	0.15	U	ng/L	P438606	
		Trifluralin	0.21	U	ng/L	P438606	
		Chlordane	2.1	U	ng/L	P438606	
	EPA 8276	Toxaphene	15	U	ng/L	P438606	
		Oxybenzone**	10	UJ	ng/L	P438743	LCS, MS
		Acetochlor	0.21	U	ng/L	P438743	
		Octinoxate**	150	U	ng/L	P438743	MS
		Alachlor	0.41	U	ng/L	P438743	
		Avobenzone**	100	U	ng/L	P438743	MS
		Ametryn	1.1	U	ng/L	P438743	
		Atrazine	4.4	J	ng/L	P438743	
		PBDE-47**	4.1	U	ng/L	P438743	MS
		Atrazine Desethyl	1.3	U	ng/L	P438743	
2455153	EPA 8270E	PBDE-99**	5.2	U	ng/L	P438743	MS
		Azinphos Methyl	3.1	U	ng/L	P438743	
		Tri-o-cresyl Phosphate**	6.2	UJ	ng/L	P438743	LCS, MS
		Azoxystrobin	0.41	U	ng/L	P438743	
		Bromacil	0.62	U	ng/L	P438743	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P438743	MS
		Butylate	0.46	U	ng/L	P438743	
		Dechlorane Plus**	31	U	ng/L	P438743	
		Caffeine**	27	I	ng/L	P438743	
		Dechlorane 602**	5.2	U	ng/L	P438743	MS
		Carbophenothion	0.52	U	ng/L	P438743	
		Dechlorane 603**	4.1	U	ng/L	P438743	
		Carfentrazone Ethyl	0.15	U	ng/L	P438743	
		Hexabromobenzene**	6.2	U	ng/L	P438743	
		Chlorfenapyr	0.31	U	ng/L	P438743	
		PBB-153**	6.2	U	ng/L	P438743	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P438743	
		Pentabromotoluene**	3.1	U	ng/L	P438743	MS, RPD
		Chlorpyrifos Methyl	0.10	U	ng/L	P438743	
		Tris(2-chloroethyl) phosphate (TCEP)**	57	U	ng/L	P438743	MS
		Coumaphos	1.1	U	ng/L	P438743	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P438743	
		Cyanazine	5.2	U	ng/L	P438743	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	3.7	IJ	ng/L	P438743	LCS, MS

Field ID: G4SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455153	EPA 8270E	Cyprodinil	0.21	U	ng/L	P438743	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P438743	MS
		Demeton	3.6	U	ng/L	P438743	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	62	U	ng/L	P438743	MS
		Diazinon	0.13	U	ng/L	P438743	
		Difenoconazole	0.62	U	ng/L	P438743	
		Dimethenamid	0.10	U	ng/L	P438743	
		Dimethomorph	0.31	U	ng/L	P438743	
		Disulfoton	0.62	U	ng/L	P438743	
		Dithiopyr	1.0	U	ng/L	P438743	
		EPTC	0.52	U	ng/L	P438743	
		Ethion	0.31	U	ng/L	P438743	
		Ethoprop	0.13	U	ng/L	P438743	
		Etridiazole	0.10	U	ng/L	P438743	
		Fenamiphos	0.46	U	ng/L	P438743	
		Fenbuconazole	0.52	U	ng/L	P438743	
		Fipronil	0.21	U	ng/L	P438743	
		Fipronil Desulfinyl**	0.10	U	ng/L	P438743	
		Fipronil Sulfide	0.10	U	ng/L	P438743	
		Fipronil Sulfone	0.10	U	ng/L	P438743	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P438743	LCS, MS
		Fludioxonil	0.10	U	ng/L	P438743	
		Flumioxazin	3.1	U	ng/L	P438743	
		Flutolanil	0.10	U	ng/L	P438743	
		Fluxapyroxad	0.26	UJ	ng/L	P438743	CCV
		Fonofos	0.15	U	ng/L	P438743	
		Hexazinone	21		ng/L	P438743	
		Imazalil	0.67	UJ	ng/L	P438743	CCV
		Iprodione	0.52	U	ng/L	P438743	
		Loratadine**	0.31	U	ng/L	P438743	
		Malathion	0.36	U	ng/L	P438743	
		Metalaxyl	0.52	U	ng/L	P438743	
		Metolachlor	1.0	I	ng/L	P438743	
		Metribuzin	0.41	U	ng/L	P438743	
		Mevinphos	1.0	U	ng/L	P438743	
		Molinate	0.26	U	ng/L	P438743	
		Myclobutanil	0.36	U	ng/L	P438743	
		Naled	2.6	U	ng/L	P438743	
		Napropamide	0.72	U	ng/L	P438743	
		Norflurazon	1.0	U	ng/L	P438743	MS
		Oxadiazon	0.36	U	ng/L	P438743	
		Oxyfluorfen	0.21	U	ng/L	P438743	
		Parathion Ethyl	0.15	UJ	ng/L	P438743	LCS
		Parathion Methyl	0.21	U	ng/L	P438743	

Field ID: G4SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455153	EPA 8270E	Pendimethalin	1.8	U	ng/L	P438743	
		Phenytion**	5.5	U	ng/L	P438743	
		Phorate	0.26	U	ng/L	P438743	
		Prodiamine	0.21	U	ng/L	P438743	
		Prometon	3.1	U	ng/L	P438743	
		Prometryn	0.36	U	ng/L	P438743	MS
		Pronamide	0.10	U	ng/L	P438743	
		Propanil	0.10	U	ng/L	P438743	
		Propargite	0.83	U	ng/L	P438743	
		Propiconazole	0.62	U	ng/L	P438743	
		Pyraflufen Ethyl	0.31	U	ng/L	P438743	
		Pyridaben	1.4	U	ng/L	P438743	
		Pyriproxyfen	0.26	UJ	ng/L	P438743	CCV
		Simazine	0.26	U	ng/L	P438743	
		Stirophos	0.41	U	ng/L	P438743	
		Sulfentrazone	1.4	UJ	ng/L	P438743	CCV
		Tebuconazole	1.4	U	ng/L	P438743	
		Terbufos	0.21	U	ng/L	P438743	
		Terbutylazine	0.21	U	ng/L	P438743	
		Thiobencarb	0.52	U	ng/L	P438743	
		Triadimefon	0.15	U	ng/L	P438743	

Ref. Method and Comment:

EPA 8270E: 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. Estimation for atrazine due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: SEVENMILE SLOUGH AT PEAVINE TRAIL

Collection Date/Time: 12/06/2023 12:00

Field ID: G4SE0153

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2455138	DEP SOP: NU-094-1	Color (true)	320		PCU	P438671	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P438658	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P439033	
		Sulfate	0.20	U	mg SO4/L	P439139	
	SM 2320 B-2011	Total Alkalinity	5.8		mg CaCO3/L	P438936	
	SM 2540 C-2015	TDS	116		mg/L	P439144	
	SM 2540 D-2015	TSS	3	IA	mg/L	P439130	
	SM 4500-F- C-2011	Fluoride	0.051	I	mg F/L	P438938	
2455139	EPA 350.1 Rev. 2.0	Ammonia-N	0.027		mg N/L	P438841	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P438759	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P438731	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P438835	
	SM 5310 B-2014	Organic Carbon	30		mg C/L	P438734	
2455154	EPA 200.7 Rev. 4.4	Calcium	5.22		mg/L	P438706	
		Chromium	1.0	U	ug/L	P438706	
		Iron	1.10E+03		ug/L	P438706	
		Magnesium	1.96		mg/L	P438706	
		Potassium	1.3		mg/L	P438706	
		Sodium	10.6		mg/L	P438706	
		Strontium	70.7		ug/L	P438706	
		Tin	3.0	U	ug/L	P438706	
	EPA 200.8 Rev. 5.4	Titanium	0.75	U	ug/L	P438706	
		Vanadium	2.0	U	ug/L	P438706	
		Zinc	30		ug/L	P438706	
		Aluminum	91		ug/L	P438706	
		Antimony	0.050	U	ug/L	P438706	
		Arsenic	0.43		ug/L	P438706	
		Barium	5.94		ug/L	P438706	
		Beryllium	0.010	U	ug/L	P438706	
		Boron	20.8		ug/L	P438706	
		Cadmium	0.020	U	ug/L	P438706	
		Cobalt	0.110		ug/L	P438706	
		Copper	0.62	I	ug/L	P438706	
		Lead	0.34	I	ug/L	P438706	
		Manganese	14.7		ug/L	P438706	
		Molybdenum	0.15	U	ug/L	P438706	
		Nickel	0.50	U	ug/L	P438706	
		Selenium	0.20	U	ug/L	P438706	
		Silver	0.010	U	ug/L	P438706	
		Thallium	0.10	U	ug/L	P438706	
	SM 2340 B-2011	Hardness	21.1		mg/L	P438706	

Ref. Method and Comment:

SM 2540 D-2015: 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: P438671

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438658

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438706

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Chromium	1.0	U	ug/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: P438706

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
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439033

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439139

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438841

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438749

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438759

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438731

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438835

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

Reference Method: EPA 8270E
Batch ID: P438606

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P438606

Component	Result	Code	Units
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8270E

Batch ID: P438743

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzene	100	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P438743

Component	Result	Code	Units
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P438743

Component	Result	Code	Units
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytol	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8276

Batch ID: P438606

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

Reference Method: EPA 8321B

Batch ID: P438531

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P438531

Component	Result	Code	Units
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: P438542

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: P438625

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P438936

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

Reference Method: SM 2540 C-2015
Batch ID: P439144

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P439130

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P438938

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P438734

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: P438671

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438658

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438706

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	110		P	85 - 115
Chromium	100		P	85 - 115
Iron	111		P	85 - 115
Magnesium	112		P	85 - 115
Potassium	101		P	85 - 115
Sodium	99.2		P	85 - 115
Strontium	97.7		P	85 - 115
Tin	98.1		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	98.2		P	85 - 115
Zinc	94.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438706

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.8		P	85 - 115
Antimony	98.9		P	85 - 115
Arsenic	97.0		P	85 - 115
Barium	98.4		P	85 - 115
Beryllium	103		P	85 - 115
Boron	103		P	85 - 115
Cadmium	98.0		P	85 - 115
Cobalt	98.2		P	85 - 115
Copper	96.5		P	85 - 115
Lead	101		P	85 - 115
Manganese	95.0		P	85 - 115
Molybdenum	97.2		P	85 - 115
Nickel	96.3		P	85 - 115
Selenium	97.6		P	85 - 115
Silver	104		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439033

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439139

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438841

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438749

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438759

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438731

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438835

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

Reference Method: EPA 8270E
Batch ID: P438606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	42.2		P	30 - 96.0
Alpha-BHC	80.3		P	70 - 109
Alpha-Chlordane	92.0		P	45 - 107
Beta-BHC	104		P	64 - 138
Beta-Cyfluthrin	88.9		P	17 - 141
Bifenthrin	59.7		P	10 - 113
Chlorothalonil	87.7		P	26 - 180
Cis-Nonachlor	87.9		P	37 - 102
Cypermethrin	94.0		P	20 - 133
Dacthal	86.3		P	69 - 114
DDD-p,p'	90.4		P	42 - 105
DDE-p,p'	64.4		P	42 - 106
DDT-p,p'	69.2		P	42 - 107
Delta-BHC	102		P	67 - 144
Deltamethrin	98.1		P	15 - 149
Dichlobenil	82.1		P	46 - 117

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P438606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dicofol	72.8		P	34 - 114
Dieldrin	75.7		P	50 - 108
Endosulfan I	83.6		P	55 - 104
Endosulfan II	90.2		P	51 - 111
Endosulfan Sulfate	77.2		P	56 - 121
Endrin	92.7		P	10 - 106
Endrin Aldehyde	72.0		P	34 - 114
Endrin Ketone	95.4		P	63 - 177
Esfenvalerate	76.6		P	29 - 143
Ethalfuralin	71.7		P	46 - 96.0
Fenpropathrin	66.2		P	28 - 115
Gamma-BHC	94.9		P	65 - 121
Gamma-Chlordane	84.4		P	39 - 103
Heptachlor	68.0		P	39 - 94.0
Heptachlor Epoxide	93.4		P	54 - 104
Hexachlorobenzene	81.3		P	36 - 100
Kepone	92.8		P	10 - 225
Lambda-Cyhalothrin	82.8		P	10 - 135
Methoprene	69.2		P	10 - 109
Methoxychlor	91.4		P	52 - 112
MGK-264	78.8		P	44 - 117
Mirex	60.1		P	20 - 90.0
Oxychlordane	64.9		P	44 - 102
PCB-1016	84.7		P	45 - 107
PCB-1260	110		P	40 - 118
Permethrin	83.5		P	18 - 135
Phenothrin	68.1		P	10 - 102
Piperonyl Butoxide	110		P	28 - 156
Prallethrin	84.3		P	28 - 113
Tau-Fluvalinate	95.4		P	10 - 123
Tetramethrin	88.5		P	18 - 158
Trans-Nonachlor	97.2		P	39 - 104
Triclosan Methyl	80.9		P	54 - 108
Trifluralin	90.3		P	46 - 97.0

Reference Method: EPA 8270E

Batch ID: P438743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	90.1		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	127		P	37 - 154
Acetochlor	95.8		P	60 - 124
Alachlor	104		P	54 - 122
Ametryn	141		P	51 - 208
Atrazine	109		P	57 - 131
Atrazine Desethyl	116		P	13 - 124
Avobenzene	150		P	48 - 193
Azinphos Methyl	201		P	43 - 276
Azoxystrobin	148		P	52 - 300
Bromacil	107		P	44 - 134
Butylate	70.0		P	23 - 82.0
Caffeine	116		P	10 - 277

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P438743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbophenothion	129		P	47 - 135
Carfentrazone Ethyl	137		P	46 - 147
Chlorfenapyr	87.2		P	43 - 114
Chlorpyrifos Ethyl	73.0		P	47 - 124
Chlorpyrifos Methyl	89.3		P	60 - 135
Coumaphos	101		P	10 - 222
Cyanazine	179		P	10 - 257
Cyprodinil	109		P	42 - 148
Dechlorane 602	71.5		P	23 - 142
Dechlorane 603	137		P	51 - 171
Dechlorane Plus	111		P	46 - 161
Demeton	127		P	41 - 137
Diazinon	129		P	64 - 139
Difenoconazole	61.8		P	46 - 254
Dimethenamid	92.0		P	47 - 117
Dimethomorph	169		P	14 - 255
Disulfoton	127		P	52 - 130
Dithiopyr	115		P	40 - 121
EPTC	57.7		P	19 - 78.0
Ethion	35.3		P	12 - 124
Ethoprop	130		P	68 - 144
Etridiazole	61.8		P	26 - 96.0
Fenamiphos	114		P	41 - 129
Fenbuconazole	82.4		P	26 - 169
Fipronil	101		P	46 - 145
Fipronil Desulfinyl	109		P	47 - 136
Fipronil Sulfide	114		P	41 - 127
Fipronil Sulfone	101		P	35 - 133
Fluazifop-P-butyl	139		F	46 - 131
Fludioxonil	82.1		P	51 - 124
Flumioxazin	107		P	10 - 289
Flutolanil	82.4		P	34 - 130
Fluxapyroxad	99.0		P	10 - 197
Fonofos	81.4		P	42 - 131
Hexabromobenzene	134		P	52 - 165
Hexazinone	108		P	64 - 125
Imazalil	88.4		P	37 - 252
Iprodione	196		P	34 - 265
Loratadine	187		P	20 - 231
Malathion	146		P	34 - 164
Metalaxyl	108		P	49 - 125
Metolachlor	115		P	54 - 125
Metribuzin	135		P	51 - 139
Mevinphos	111		P	46 - 130
Molinate	91.2		P	39 - 93.0
Myclobutanil	92.9		P	50 - 130
Naled	23.7		P	10 - 150
Napropamide	62.8		P	10 - 109
Norflurazon	127		P	36 - 134
Octinoxate	172		P	29 - 176
Oxadiazon	85.0		P	43 - 112
Oxybenzone	146		F	45 - 145

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P438743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Oxyfluorfen	109		P	62 - 154
Parathion Ethyl	127		F	65 - 120
Parathion Methyl	156		P	77 - 185
PBB-153	137		P	42 - 179
PBDE-47	90.5		P	44 - 141
PBDE-99	108		P	36 - 141
Pendimethalin	137		P	50 - 146
Pentabromotoluene	142		P	58 - 148
Phenytoin	51.6		P	10 - 157
Phorate	158		P	54 - 161
Prodiamine	67.7		P	29 - 160
Prometon	93.3		P	38 - 145
Prometryn	120		P	32 - 151
Pronamide	110		P	61 - 140
Propanil	115		P	50 - 147
Propargite	73.3		P	10 - 190
Propiconazole	93.6		P	30 - 146
Pyraflufen Ethyl	135		P	30 - 147
Pyridaben	86.0		P	15 - 195
Pyriproxyfen	95.1		P	31 - 218
Simazine	113		P	45 - 139
Stiropfos	35.3		P	10 - 134
Sulfentrazone	119		P	53 - 186
Tebuconazole	56.6		P	10 - 133
Terbufos	141		P	65 - 151
Terbuthylazine	99.3		P	62 - 117
Tetradecachloro-m-terphenyl	222		P	30 - 235
Thiobencarb	108		P	48 - 122
Tri-o-cresyl Phosphate	154		F	50 - 150
Triadimefon	89.4		P	46 - 124
Tris(1-chloro-2-propyl) phosphate (TCPP)	60.1		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	60.5		F	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	64.1		P	59 - 166

Reference Method: EPA 8276

Batch ID: P438606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	99.8		P	52 - 117
Toxaphene	109		P	44 - 125

Reference Method: EPA 8321B

Batch ID: P438531

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	109		P	40 - 150
AMPA	99.4		P	40 - 160
Endothall	101		P	40 - 160
Glufosinate	99.1		P	40 - 160
Glyphosate	95.8		P	40 - 160
Sucralose	106		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P438542

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	100		P	40 - 150
2,4,5-T	122		P	40 - 150
Acetaminophen	95.7		P	30 - 150
Acetamiprid	85.4		P	40 - 150
Afidopyropen	68.5		P	30 - 150
Bentazon	74.4		P	30 - 150
Benzovindiflupyr	90.2		P	40 - 150
Carbamazepine	85.4		P	40 - 150
Clothianidin	95.2		P	40 - 150
Dinotefuran	106		P	40 - 150
Diuron	80.8		P	40 - 150
Fenuron	96.5		P	40 - 150
Fluridone	92.8		P	40 - 150
Hydrocodone	93.6		P	40 - 150
Ibuprofen	70.0		P	40 - 150
Imazapyr	95.4		P	40 - 150
Imidacloprid	90.9		P	40 - 150
Linuron	82.8		P	40 - 150
Mandestrobin	96.3		P	40 - 150
MCPP	97.2		P	40 - 150
Naproxen	87.4		P	40 - 150
Primidone	88.6		P	40 - 150
Pyraclostrobin	80.9		P	40 - 150
Silvex	92.2		P	40 - 150
Thiamethoxam	93.8		P	40 - 150
Tolfenpyrad	52.3		P	30 - 150
Triclopyr	125		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P438625

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	91.8		P	40 - 150
Aldicarb	65.0		P	30 - 150
Aldicarb Sulfone	102		P	40 - 150
Aldicarb Sulfoxide	121		P	40 - 150
Carbaryl	71.2		P	40 - 150
Carbofuran	72.5		P	40 - 150
Methiocarb	73.2		P	40 - 150
Methomyl	89.4		P	40 - 150
Oxamyl	93.0		P	40 - 150
Propoxur	71.8		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P438936

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.7		P	92 - 105

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P439144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	103		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P439130

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	105		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P438938

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

Reference Method: SM 5310 B-2014
Batch ID: P438734

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P438706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454849	Calcium	109	109	P/P	80 - 120
2454849	Chromium	89.7	90.4	P/P	80 - 120
2454849	Iron	108	109	P/P	80 - 120
2454849	Magnesium	109	111	P/P	80 - 120
2454849	Potassium	99.5	99.4	P/P	80 - 120
2454849	Sodium	97.1		P	80 - 120
2454849	Strontium	96.5	96.9	P/P	80 - 120
2454849	Tin	96.6	97.0	P/P	80 - 120
2454849	Titanium	104	104	P/P	80 - 120
2454849	Vanadium	99.1	98.9	P/P	80 - 120
2454849	Zinc	93.2	91.6	P/P	80 - 120
2455252	Calcium	105		P	80 - 120
2455252	Chromium	99.7		P	80 - 120
2455252	Iron	111		P	80 - 120
2455252	Magnesium	112		P	80 - 120
2455252	Potassium	101		P	80 - 120
2455252	Sodium	100		P	80 - 120
2455252	Strontium	98.6		P	80 - 120
2455252	Tin	99.0		P	80 - 120
2455252	Titanium	103		P	80 - 120
2455252	Vanadium	99.2		P	80 - 120
2455252	Zinc	94.5		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P438706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454849	Aluminum	97.8	95.7	P/P	80 - 120
2454849	Antimony	96.9	96.4	P/P	80 - 120
2454849	Arsenic	95.3	95.6	P/P	80 - 120
2454849	Barium	97.5	96.7	P/P	80 - 120
2454849	Beryllium	106	104	P/P	80 - 120
2454849	Boron	101	97.6	P/P	80 - 120
2454849	Cadmium	97.6	95.5	P/P	80 - 120
2454849	Cobalt	96.9	96.2	P/P	80 - 120
2454849	Copper	95.0	95.4	P/P	80 - 120
2454849	Lead	101	99.9	P/P	80 - 120
2454849	Manganese	90.9	90.2	P/P	80 - 120
2454849	Molybdenum	96.1	96.5	P/P	80 - 120
2454849	Nickel	83.0	83.0	P/P	80 - 120
2454849	Selenium	95.1	94.9	P/P	80 - 120
2454849	Silver	101	102	P/P	80 - 120
2454849	Thallium	103	103	P/P	80 - 120
2455252	Aluminum	90.2		P	80 - 120
2455252	Antimony	97.2		P	80 - 120
2455252	Arsenic	96.7		P	80 - 120
2455252	Barium	95.9		P	80 - 120
2455252	Beryllium	96.5		P	80 - 120
2455252	Boron	103		P	80 - 120
2455252	Cadmium	95.8		P	80 - 120
2455252	Cobalt	97.0		P	80 - 120
2455252	Copper	95.7		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455252	Lead	99.9		P	80 - 120
2455252	Manganese	99.7		P	80 - 120
2455252	Molybdenum	96.3		P	80 - 120
2455252	Nickel	95.1		P	80 - 120
2455252	Selenium	92.8		P	80 - 120
2455252	Silver	102		P	80 - 120
2455252	Thallium	101		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439033

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455183	Chloride	100		P	90 - 110
2455512	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439139

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455183	Sulfate	100		P	90 - 110
2455512	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455139	Ammonia-N	95.2	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438749

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455386	Kjeldahl Nitrogen	101	95.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438759

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455139	Kjeldahl Nitrogen	100	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438731

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455137	NO2NO3-N	99.4	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438835

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454962	Total-P	104	108	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P438606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454573	PCB-1016	91.3	114	P/F	45 - 107
2454573	PCB-1260	110	130	P/F	40 - 112
2455436	Aldrin	40.5	36.2	P/P	24 - 81.0
2455436	Alpha-BHC	55.5	58.9	F/F	65 - 110
2455436	Alpha-Chlordane	51.8	56.8	P/P	43 - 119
2455436	Beta-BHC	89.3	75.7	P/P	54 - 165
2455436	Beta-Cyfluthrin	64.0	61.5	P/P	27 - 165
2455436	Bifenthrin	46.9	56.2	P/P	17 - 117
2455436	Chlorothalonil	94.7	76.6	P/P	10 - 255
2455436	Cis-Nonachlor	58.0	57.6	P/P	34 - 98.0
2455436	Cypermethrin	42.3	55.5	P/P	25 - 143
2455436	Dacthal	72.7	63.5	P/P	55 - 139
2455436	DDD-p,p'	49.8	66.2	P/P	30 - 109
2455436	DDE-p,p'	56.4	55.2	P/P	35 - 106
2455436	DDT-p,p'	52.7	43.0	P/P	41 - 101
2455436	Delta-BHC	87.1	69.8	P/P	58 - 165
2455436	Deltamethrin	53.7	39.3	P/P	10 - 194
2455436	Dichlobenil	81.4	49.6	P/P	22 - 114
2455436	Dicofol	53.5	52.5	P/P	17 - 133
2455436	Dieldrin	22.9	22.1	F/F	45 - 129
2455436	Endosulfan I	64.5	50.1	P/P	49 - 104
2455436	Endosulfan II	57.7	66.6	P/P	37 - 117
2455436	Endosulfan Sulfate	98.5	51.9	P/P	38 - 128
2455436	Endrin	49.6	62.3	P/P	35 - 116
2455436	Endrin Aldehyde	72.6	28.7	P/P	19 - 108
2455436	Endrin Ketone	57.7	72.6	P/P	44 - 134
2455436	Esfenvalerate	60.4	71.5	P/P	27 - 176
2455436	Ethalfuralin	64.3	54.2	P/P	49 - 100
2455436	Fenpropathrin	42.3	33.4	P/F	34 - 117
2455436	Gamma-BHC	67.2	54.3	P/F	59 - 129
2455436	Gamma-Chlordane	47.9	50.4	P/P	33 - 107
2455436	Heptachlor	50.8	43.4	P/P	37 - 94.0
2455436	Heptachlor Epoxide	69.9	52.6	P/P	38 - 118
2455436	Hexachlorobenzene	29.4	48.8	F/P	35 - 97.0
2455436	Kepone	37.1	33.5	P/P	10 - 221
2455436	Lambda-Cyhalothrin	42.9	55.0	P/P	23 - 190
2455436	Methoprene	46.9	37.9	P/P	21 - 109
2455436	Methoxychlor	42.8	58.8	F/P	46 - 118
2455436	MGK-264	68.4	53.6	P/P	39 - 122
2455436	Mirex	49.2	36.6	P/P	25 - 90.0
2455436	Oxychlordane	53.5	35.3	P/F	42 - 100
2455436	Permethrin	51.1	61.2	P/P	33 - 181
2455436	Phenothrin	55.5	70.7	P/P	12 - 125
2455436	Piperonyl Butoxide	86.9	69.1	P/P	10 - 178
2455436	Prallethrin	51.8	46.1	P/P	24 - 122
2455436	Tau-Fluvalinate	53.1	93.0	P/P	13 - 151
2455436	Tetramethrin	65.5	64.2	P/P	16 - 172
2455436	Trans-Nonachlor	58.5	51.2	P/P	39 - 100
2455436	Triclosan Methyl	63.1	47.0	P/P	43 - 110
2455436	Trifluralin	60.7	49.2	P/P	45 - 94.0

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P438743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455364	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	156	134	F/P	50 - 150
2455364	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	184	152	F/P	29 - 155
2455364	Acetochlor	91.7	83.7	P/P	60 - 124
2455364	Alachlor	111	111	P/P	54 - 122
2455364	Ametryn	116	111	P/P	51 - 208
2455364	Atrazine Desethyl	98.3	98.0	P/P	13 - 124
2455364	Avobenzene	206	178	F/P	35 - 187
2455364	Azinphos Methyl	129	144	P/P	43 - 276
2455364	Azoxystrobin	92.9	97.6	P/P	52 - 300
2455364	Bromacil	87.5	85.0	P/P	44 - 134
2455364	Butylate	69.9	62.4	P/P	23 - 82.0
2455364	Caffeine	126	119	P/P	10 - 277
2455364	Carbophenothion	129	114	P/P	47 - 135
2455364	Carfentrazone Ethyl	146	127	P/P	46 - 147
2455364	Chlorfenapyr	84.5	89.8	P/P	43 - 114
2455364	Chlorpyrifos Ethyl	121	119	P/P	47 - 124
2455364	Chlorpyrifos Methyl	66.7	79.4	P/P	60 - 135
2455364	Coumaphos	76.6	94.4	P/P	10 - 222
2455364	Cyanazine	134	126	P/P	10 - 257
2455364	Cyprodinil	76.8	96.6	P/P	42 - 148
2455364	Dechlorane 602	153	114	F/P	14 - 133
2455364	Dechlorane 603	146	98.5	P/P	18 - 191
2455364	Dechlorane Plus	126	88.0	P/P	23 - 154
2455364	Demeton	102	99.6	P/P	41 - 137
2455364	Diazinon	112	113	P/P	64 - 139
2455364	Difenoconazole	82.9	91.3	P/P	46 - 254
2455364	Dimethenamid	84.4	82.2	P/P	47 - 117
2455364	Dimethomorph	170	181	P/P	14 - 255
2455364	Disulfoton	101	97.4	P/P	52 - 130
2455364	Dithiopyr	76.4	77.7	P/P	40 - 121
2455364	EPTC	52.8	51.5	P/P	19 - 78.0
2455364	Ethion	107	104	P/P	12 - 124
2455364	Ethoprop	111	111	P/P	68 - 144
2455364	Etridiazole	60.4	55.8	P/P	26 - 96.0
2455364	Fenamiphos	127	118	P/P	41 - 129
2455364	Fenbuconazole	53.1	62.7	P/P	26 - 169
2455364	Fipronil	95.1	112	P/P	46 - 145
2455364	Fipronil Desulfinyl	58.8	60.9	P/P	47 - 136
2455364	Fipronil Sulfide	95.8	113	P/P	41 - 127
2455364	Fipronil Sulfone	53.3	67.5	P/P	35 - 133
2455364	Fluazifop-P-butyl	129	140	P/F	46 - 131
2455364	Fludioxonil	91.9	72.4	P/P	51 - 124
2455364	Flumioxazin	128	127	P/P	10 - 289
2455364	Flutolanil	119	97.8	P/P	34 - 130
2455364	Fluxapyroxad	131	175	P/P	10 - 197
2455364	Fonofos	99.7	112	P/P	42 - 131
2455364	Hexabromobenzene	155	134	P/P	47 - 178
2455364	Hexazinone	109	109	P/P	64 - 125
2455364	Imazalil	89.0	65.6	P/P	37 - 252
2455364	Iprodione	167	154	P/P	34 - 265
2455364	Loratadine	125	155	P/P	20 - 231
2455364	Malathion	115	121	P/P	34 - 164

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P438743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455364	Metalaxyl	86.6	85.2	P/P	49 - 125
2455364	Metolachlor	82.0	91.2	P/P	54 - 125
2455364	Metribuzin	126	122	P/P	51 - 139
2455364	Mevinphos	88.3	90.2	P/P	46 - 130
2455364	Molinate	83.8	76.0	P/P	39 - 93.0
2455364	Myclobutanil	101	85.8	P/P	50 - 130
2455364	Naled	18.6	19.8	P/P	10 - 150
2455364	Napropamide	98.1	69.1	P/P	10 - 109
2455364	Norflurazon	127	150	P/F	36 - 134
2455364	Octinoxate	271	223	F/F	18 - 170
2455364	Oxadiazon	50.1	56.3	P/P	43 - 112
2455364	Oxybenzone	184	153	F/P	33 - 154
2455364	Oxyfluorfen	132	105	P/P	62 - 154
2455364	Parathion Ethyl	114	96.5	P/P	65 - 120
2455364	Parathion Methyl	153	129	P/P	77 - 185
2455364	PBB-153	178	147	P/P	23 - 193
2455364	PBDE-47	160	136	F/P	31 - 139
2455364	PBDE-99	174	145	F/F	24 - 138
2455364	Pendimethalin	106	99.8	P/P	50 - 146
2455364	Pentabromotoluene	175	140	F/P	54 - 152
2455364	Phenytoin	115	110	P/P	10 - 157
2455364	Phorate	132	129	P/P	54 - 161
2455364	Prodiamine	54.0	57.9	P/P	29 - 160
2455364	Prometon	138	128	P/P	38 - 145
2455364	Prometryn	147	151	P/F	32 - 151
2455364	Pronamide	92.5	92.5	P/P	61 - 140
2455364	Propanil	106	105	P/P	50 - 147
2455364	Propargite	134	130	P/P	10 - 190
2455364	Propiconazole	113	140	P/P	30 - 146
2455364	Pyraflufen Ethyl	145	111	P/P	30 - 147
2455364	Pyridaben	172	183	P/P	15 - 195
2455364	Pyriproxyfen	98.8	114	P/P	31 - 218
2455364	Simazine	87.8	91.6	P/P	45 - 139
2455364	Stirophos	41.1	49.7	P/P	10 - 134
2455364	Sulfentrazone	67.5	97.7	P/P	53 - 186
2455364	Tebuconazole	129	129	P/P	10 - 133
2455364	Terbufos	116	122	P/P	65 - 151
2455364	Terbutylazine	84.1	89.8	P/P	62 - 117
2455364	Tetradecachloro-m-terphenyl	267	213	F/P	10 - 260
2455364	Thiobencarb	83.0	81.9	P/P	48 - 122
2455364	Tri-o-cresyl Phosphate	177	154	F/F	32 - 151
2455364	Triadimefon	65.6	63.8	P/P	46 - 124
2455364	Tris(1-chloro-2-propyl) phosphate (TCPP)	54.2	53.0	P/P	51 - 154
2455364	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	59.2	55.0	P/F	59 - 147
2455364	Tris(2-chloroethyl) phosphate (TCEP)	65.8	62.7	P/F	65 - 156

Reference Method: EPA 8276

Batch ID: P438606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454573	Chlordane	80.5	101	P/P	43 - 123
2454573	Toxaphene	71.2	95.2	P/P	27 - 156

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P438531

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454732	Acesulfame K	101	102	P/P	40 - 150
2454732	AMPA	76.1	91.2	P/P	40 - 160
2454732	Endothall	113	120	P/P	40 - 160
2454732	Glufosinate	93.9	99.5	P/P	40 - 160
2454732	Glyphosate	90.4	93.4	P/P	40 - 160
2454732	Sucralose	112	88.7	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P438542

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454732	2,4-D	114	85.5	P/P	40 - 150
2454732	2,4,5-T	97.3	106	P/P	40 - 150
2454732	Acetaminophen	102	85.4	P/P	30 - 150
2454732	Acetamiprid	91.7	71.6	P/P	40 - 150
2454732	Afidopyropen	83.8	50.2	P/P	30 - 150
2454732	Bentazon	72.5	60.2	P/P	30 - 150
2454732	Benzovindiflupyr	94.7	81.2	P/P	40 - 150
2454732	Carbamazepine	91.6	79.5	P/P	40 - 150
2454732	Clothianidin	104	85.7	P/P	40 - 150
2454732	Dinotefuran	113	94.6	P/P	40 - 150
2454732	Diuron	83.6	71.8	P/P	40 - 150
2454732	Fenuron	99.6	85.1	P/P	40 - 150
2454732	Fluridone	100	85.5	P/P	40 - 150
2454732	Hydrocodone	96.4	84.9	P/P	40 - 150
2454732	Ibuprofen	74.5	58.4	P/P	40 - 150
2454732	Imazapyr	101	81.9	P/P	40 - 150
2454732	Imidacloprid	101	82.8	P/P	40 - 150
2454732	Linuron	85.6	70.2	P/P	40 - 150
2454732	Mandestrobin	101	83.5	P/P	40 - 150
2454732	MCPP	102	83.7	P/P	40 - 150
2454732	Naproxen	67.2	57.9	P/P	40 - 150
2454732	Primidone	95.5	77.4	P/P	40 - 150
2454732	Pyraclostrobin	87.8	75.3	P/P	40 - 150
2454732	Silvex	96.3	77.0	P/P	40 - 150
2454732	Thiamethoxam	86.8	73.9	P/P	40 - 150
2454732	Tolfenpyrad	56.8	47.3	P/P	30 - 150
2454732	Triclopyr	99.2	99.2	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P438625

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455118	3-Hydroxycarbofuran	89.8	76.4	P/P	40 - 150
2455118	Aldicarb	70.7	62.0	P/P	30 - 150
2455118	Aldicarb Sulfone	99.1	94.4	P/P	40 - 150
2455118	Aldicarb Sulfoxide	43.9	44.1	P/P	40 - 150
2455118	Carbaryl	69.3	63.9	P/P	40 - 150
2455118	Carbofuran	63.5	62.2	P/P	40 - 150
2455118	Methiocarb	58.4	58.1	P/P	40 - 150
2455118	Methomyl	85.4	82.5	P/P	40 - 150
2455118	Oxamyl	89.3	84.9	P/P	40 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P438625

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2455118	Propoxur	62.7	63.2	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P438938

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454527	Fluoride	101	101	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P438734

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454741	Organic Carbon	98.7	99.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P438671

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455184	Color (true)	4.78	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438658

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455109	Turbidity	0.727	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454849	Calcium	0.315	Spike	P	0 - 20
2454849	Chromium	0.674	Spike	P	0 - 20
2454849	Iron	0.593	Spike	P	0 - 20
2454849	Magnesium	0.913	Spike	P	0 - 20
2454849	Potassium	0.0834	Spike	P	0 - 20
2454849	Sodium	0.623	Spike	P	0 - 20
2454849	Strontium	0.396	Spike	P	0 - 20
2454849	Tin	0.503	Spike	P	0 - 20
2454849	Titanium	0.125	Spike	P	0 - 20
2454849	Vanadium	0.223	Spike	P	0 - 20
2454849	Zinc	1.60	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454849	Aluminum	1.79	Spike	P	0 - 20
2454849	Antimony	0.472	Spike	P	0 - 20
2454849	Arsenic	0.261	Spike	P	0 - 20
2454849	Barium	0.751	Spike	P	0 - 20
2454849	Beryllium	1.75	Spike	P	0 - 20
2454849	Boron	2.40	Spike	P	0 - 20
2454849	Cadmium	2.12	Spike	P	0 - 20
2454849	Cobalt	0.647	Spike	P	0 - 20
2454849	Copper	0.365	Spike	P	0 - 20
2454849	Lead	1.25	Spike	P	0 - 20
2454849	Manganese	0.653	Spike	P	0 - 20
2454849	Molybdenum	0.395	Spike	P	0 - 20
2454849	Nickel	0.0495	Spike	P	0 - 20
2454849	Selenium	0.190	Spike	P	0 - 20
2454849	Silver	1.21	Spike	P	0 - 20
2454849	Thallium	0.112	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439033

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455183	Chloride	1.16	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P439139

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455183	Sulfate	1.19	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455139	Ammonia-N	3.92	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438749

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455386	Kjeldahl Nitrogen	4.46	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438759

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455139	Kjeldahl Nitrogen	1.95	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438731

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455137	NO2NO3-N	0.423	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438835

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454962	Total-P	3.10	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P438606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454573	PCB-1016	22.4	Spike	P	0 - 25
2454573	PCB-1260	17.0	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P438606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455436	Aldrin	11.3	Spike	P	0 - 41
2455436	Alpha-BHC	5.87	Spike	P	0 - 25
2455436	Alpha-Chlordane	9.06	Spike	P	0 - 32
2455436	Beta-BHC	16.5	Spike	P	0 - 33
2455436	Beta-Cyfluthrin	3.95	Spike	P	0 - 43
2455436	Bifenthrin	18.2	Spike	P	0 - 52
2455436	Chlorothalonil	21.1	Spike	P	0 - 82
2455436	Cis-Nonachlor	0.665	Spike	P	0 - 33
2455436	Cypermethrin	27.1	Spike	P	0 - 51
2455436	Dacthal	13.5	Spike	P	0 - 27
2455436	DDD-p,p'	28.2	Spike	P	0 - 39
2455436	DDE-p,p'	2.15	Spike	P	0 - 31
2455436	DDT-p,p'	20.2	Spike	P	0 - 29
2455436	Delta-BHC	22.0	Spike	P	0 - 35
2455436	Deltamethrin	31.1	Spike	P	0 - 100
2455436	Dichlobenil	48.5	Spike	F	0 - 40
2455436	Dicofol	1.90	Spike	P	0 - 37
2455436	Dieldrin	1.08	Spike	P	0 - 27
2455436	Endosulfan I	25.2	Spike	F	0 - 23
2455436	Endosulfan II	14.4	Spike	P	0 - 34
2455436	Endosulfan Sulfate	61.9	Spike	F	0 - 36
2455436	Endrin	22.7	Spike	P	0 - 45
2455436	Endrin Aldehyde	86.8	Spike	F	0 - 76
2455436	Endrin Ketone	22.9	Spike	P	0 - 43
2455436	Esfenvalerate	16.8	Spike	P	0 - 51
2455436	Ethalfuralin	17.2	Spike	P	0 - 22
2455436	Fenpropathrin	23.4	Spike	P	0 - 49
2455436	Gamma-BHC	21.3	Spike	P	0 - 28
2455436	Gamma-Chlordane	5.11	Spike	P	0 - 40
2455436	Heptachlor	15.9	Spike	P	0 - 29
2455436	Heptachlor Epoxide	25.0	Spike	P	0 - 33
2455436	Hexachlorobenzene	49.5	Spike	F	0 - 36
2455436	Kepone	3.63	Spike	P	0 - 85
2455436	Lambda-Cyhalothrin	24.7	Spike	P	0 - 55
2455436	Methoprene	21.3	Spike	P	0 - 53
2455436	Methoxychlor	31.7	Spike	P	0 - 50
2455436	MGK-264	24.2	Spike	P	0 - 43
2455436	Mirex	29.3	Spike	P	0 - 40
2455436	Oxychlordane	41.1	Spike	F	0 - 31
2455436	Permethrin	18.0	Spike	P	0 - 50
2455436	Phenothrin	24.1	Spike	P	0 - 58
2455436	Piperonyl Butoxide	22.8	Spike	P	0 - 100
2455436	Prallethrin	11.7	Spike	P	0 - 39
2455436	Tau-Fluvalinate	54.7	Spike	F	0 - 54
2455436	Tetramethrin	2.07	Spike	P	0 - 51
2455436	Trans-Nonachlor	13.3	Spike	P	0 - 39
2455436	Triclosan Methyl	29.2	Spike	P	0 - 31
2455436	Trifluralin	21.1	Spike	P	0 - 22

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P438743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455364	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	15.2	Spike	P	0 - 30
2455364	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	19.0	Spike	P	0 - 35
2455364	Acetochlor	9.09	Spike	P	0 - 28
2455364	Alachlor	0.0134	Spike	P	0 - 30
2455364	Ametryn	4.56	Spike	P	0 - 32
2455364	Atrazine	2.01	Spike	P	0 - 33
2455364	Atrazine Desethyl	0.273	Spike	P	0 - 36
2455364	Avobenzene	14.8	Spike	P	0 - 35
2455364	Azinphos Methyl	11.1	Spike	P	0 - 62
2455364	Azoxystrobin	4.88	Spike	P	0 - 39
2455364	Bromacil	2.91	Spike	P	0 - 33
2455364	Butylate	11.3	Spike	P	0 - 51
2455364	Caffeine	4.57	Spike	P	0 - 100
2455364	Carbophenothion	12.7	Spike	P	0 - 34
2455364	Carfentrazone Ethyl	14.4	Spike	P	0 - 33
2455364	Chlorfenapyr	6.03	Spike	P	0 - 28
2455364	Chlorpyrifos Ethyl	1.60	Spike	P	0 - 31
2455364	Chlorpyrifos Methyl	17.5	Spike	P	0 - 27
2455364	Coumaphos	20.8	Spike	P	0 - 62
2455364	Cyanazine	5.84	Spike	P	0 - 48
2455364	Cyprodinil	22.9	Spike	P	0 - 29
2455364	Dechlorane 602	28.6	Spike	P	0 - 60
2455364	Dechlorane 603	38.5	Spike	P	0 - 40
2455364	Dechlorane Plus	35.6	Spike	P	0 - 38
2455364	Demeton	2.21	Spike	P	0 - 33
2455364	Diazinon	0.738	Spike	P	0 - 32
2455364	Difenoconazole	9.65	Spike	P	0 - 71
2455364	Dimethenamid	2.73	Spike	P	0 - 60
2455364	Dimethomorph	6.14	Spike	P	0 - 61
2455364	Disulfoton	4.01	Spike	P	0 - 30
2455364	Dithiopyr	1.71	Spike	P	0 - 28
2455364	EPTC	2.46	Spike	P	0 - 56
2455364	Ethion	2.92	Spike	P	0 - 79
2455364	Ethoprop	0.454	Spike	P	0 - 31
2455364	Etridiazole	7.88	Spike	P	0 - 43
2455364	Fenamiphos	7.84	Spike	P	0 - 43
2455364	Fenbuconazole	16.6	Spike	P	0 - 79
2455364	Fipronil	16.5	Spike	P	0 - 46
2455364	Fipronil Desulfinyl	3.60	Spike	P	0 - 36
2455364	Fipronil Sulfide	15.5	Spike	P	0 - 34
2455364	Fipronil Sulfone	19.4	Spike	P	0 - 47
2455364	Fluazifop-P-butyl	8.18	Spike	P	0 - 38
2455364	Fludioxonil	23.8	Spike	P	0 - 29
2455364	Flumioxazin	0.873	Spike	P	0 - 63
2455364	Flutolanil	19.2	Spike	P	0 - 36
2455364	Fluxapyroxad	28.4	Spike	P	0 - 65
2455364	Fonofos	11.6	Spike	P	0 - 35
2455364	Hexabromobenzene	14.6	Spike	P	0 - 41
2455364	Hexazinone	0.420	Spike	P	0 - 31
2455364	Imazalil	30.3	Spike	P	0 - 52
2455364	Iprodione	8.29	Spike	P	0 - 49

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P438743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455364	Loratadine	21.6	Spike	P	0 - 59
2455364	Malathion	4.96	Spike	P	0 - 77
2455364	Metalaxyl	1.58	Spike	P	0 - 76
2455364	Metolachlor	9.89	Spike	P	0 - 29
2455364	Metribuzin	3.14	Spike	P	0 - 51
2455364	Mevinphos	2.07	Spike	P	0 - 31
2455364	Molinate	9.80	Spike	P	0 - 39
2455364	Myclobutanil	16.3	Spike	P	0 - 34
2455364	Naled	6.62	Spike	P	0 - 37
2455364	Napropamide	34.6	Spike	P	0 - 100
2455364	Norflurazon	16.7	Spike	P	0 - 54
2455364	Octinoxate	19.5	Spike	P	0 - 35
2455364	Oxadiazon	8.05	Spike	P	0 - 34
2455364	Oxybenzone	17.9	Spike	P	0 - 35
2455364	Oxyfluorfen	23.4	Spike	P	0 - 28
2455364	Parathion Ethyl	16.6	Spike	P	0 - 31
2455364	Parathion Methyl	16.9	Spike	P	0 - 29
2455364	PBB-153	19.5	Spike	P	0 - 49
2455364	PBDE-47	16.3	Spike	P	0 - 36
2455364	PBDE-99	17.6	Spike	P	0 - 46
2455364	Pendimethalin	5.97	Spike	P	0 - 31
2455364	Pentabromotoluene	22.3	Spike	F	0 - 16
2455364	Phenytoin	4.37	Spike	P	0 - 100
2455364	Phorate	1.83	Spike	P	0 - 36
2455364	Prodiamine	6.95	Spike	P	0 - 68
2455364	Prometon	7.48	Spike	P	0 - 35
2455364	Prometryn	2.71	Spike	P	0 - 33
2455364	Pronamide	0.0135	Spike	P	0 - 24
2455364	Propanil	0.552	Spike	P	0 - 28
2455364	Propargite	3.20	Spike	P	0 - 53
2455364	Propiconazole	21.8	Spike	P	0 - 44
2455364	Pyraflufen Ethyl	26.6	Spike	P	0 - 61
2455364	Pyridaben	6.42	Spike	P	0 - 43
2455364	Pyriproxyfen	14.3	Spike	P	0 - 82
2455364	Simazine	4.27	Spike	P	0 - 29
2455364	Stirophos	18.9	Spike	P	0 - 100
2455364	Sulfentrazone	36.5	Spike	P	0 - 64
2455364	Tebuconazole	0.230	Spike	P	0 - 76
2455364	Terbufos	5.33	Spike	P	0 - 29
2455364	Terbuthylazine	6.54	Spike	P	0 - 28
2455364	Tetradecachloro-m-terphenyl	22.4	Spike	P	0 - 42
2455364	Thiobencarb	1.34	Spike	P	0 - 26
2455364	Tri-o-cresyl Phosphate	14.0	Spike	P	0 - 24
2455364	Triadimefon	2.75	Spike	P	0 - 40
2455364	Tris(1-chloro-2-propyl) phosphate (TCPP)	1.88	Spike	P	0 - 30
2455364	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	7.04	Spike	P	0 - 22
2455364	Tris(2-chloroethyl) phosphate (TCEP)	4.74	Spike	P	0 - 15

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P438606

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454573	Chlordane	22.5	Spike	P	0 - 28
2454573	Toxaphene	25.0	Spike	P	0 - 27

Reference Method: EPA 8321B

Batch ID: P438531

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454732	Acesulfame K	0.640	Spike	P	0 - 30
2454732	AMPA	18.1	Spike	P	0 - 30
2454732	Endothall	5.69	Spike	P	0 - 30
2454732	Glufosinate	5.79	Spike	P	0 - 30
2454732	Glyphosate	3.27	Spike	P	0 - 30
2454732	Sucralose	22.8	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P438542

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454732	2,4-D	28.4	Spike	P	0 - 30
2454732	2,4,5-T	8.97	Spike	P	0 - 30
2454732	Acetaminophen	17.7	Spike	P	0 - 30
2454732	Acetamiprid	24.6	Spike	P	0 - 30
2454732	Afidopyropen	50.1	Spike	F	0 - 30
2454732	Bentazon	18.5	Spike	P	0 - 30
2454732	Benzovindiflupyr	15.3	Spike	P	0 - 30
2454732	Carbamazepine	14.1	Spike	P	0 - 30
2454732	Clothianidin	15.7	Spike	P	0 - 30
2454732	Dinotefuran	17.5	Spike	P	0 - 30
2454732	Diuron	15.2	Spike	P	0 - 30
2454732	Fenuron	15.7	Spike	P	0 - 30
2454732	Fluridone	15.8	Spike	P	0 - 30
2454732	Hydrocodone	12.7	Spike	P	0 - 30
2454732	Ibuprofen	24.2	Spike	P	0 - 30
2454732	Imazapyr	20.9	Spike	P	0 - 30
2454732	Imidacloprid	19.7	Spike	P	0 - 30
2454732	Linuron	19.8	Spike	P	0 - 30
2454732	Mandestrobin	19.3	Spike	P	0 - 30
2454732	MCPP	19.9	Spike	P	0 - 30
2454732	Naproxen	14.9	Spike	P	0 - 30
2454732	Primidone	20.9	Spike	P	0 - 30
2454732	Pyraclostrobin	15.3	Spike	P	0 - 30
2454732	Silvex	22.3	Spike	P	0 - 30
2454732	Thiamethoxam	16.1	Spike	P	0 - 30
2454732	Tolfenpyrad	18.3	Spike	P	0 - 30
2454732	Triclopyr	0.0424	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P438625

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2455118	3-Hydroxycarbofuran	16.1	Spike	P	0 - 30
2455118	Aldicarb	13.1	Spike	P	0 - 30
2455118	Aldicarb Sulfone	4.85	Spike	P	0 - 30
2455118	Aldicarb Sulfoxide	0.503	Spike	P	0 - 30
2455118	Carbaryl	8.02	Spike	P	0 - 30
2455118	Carbofuran	2.04	Spike	P	0 - 30
2455118	Methiocarb	0.450	Spike	P	0 - 30
2455118	Methomyl	3.46	Spike	P	0 - 30
2455118	Oxamyl	5.02	Spike	P	0 - 30
2455118	Propoxur	0.809	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P438936

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454527	Total Alkalinity	0.165	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P439144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454728	TDS	2.53	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P438938

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454527	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P438734

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454741	Organic Carbon	0.740	Spike	P	0 - 15

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

Quality Assurance Report Surrogates

Lab Sample ID: 2455146
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	48.4	P	30 - 160

Lab Sample ID: 2455147
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	75.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	88.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	47.0	P	30 - 160
EPA 8321B	Diuron-d6	43.2	P	30 - 160
EPA 8321B	Endothall-d6	102	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	91.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.2	P	30 - 160
EPA 8321B	Primidone-d5	78.6	P	30 - 160
EPA 8321B	Sucralose-d6	62.1	P	30 - 160

Lab Sample ID: 2455148
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	48.4	P	30 - 160

Lab Sample ID: 2455149
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	69.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	45.1	P	30 - 160
EPA 8321B	Diuron-d6	42.1	P	30 - 160
EPA 8321B	Endothall-d6	99.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	90.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	60.2	P	30 - 160
EPA 8321B	Primidone-d5	72.2	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	30 - 160

Lab Sample ID: 2455150
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	82.4	P	37 - 129
EPA 8270E	Decachlorobiphenyl	71.6	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	51.3	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	46.8	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	98.1	P	28 - 102
EPA 8276	PCNB	105	P	49 - 115

Lab Sample ID: 2455151
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	74.7	P	20 - 200

Quality Assurance Report Surrogates

Lab Sample ID: 2455151
Field Sample ID: G4SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	97.6	P	58 - 137
EPA 8270E	Terbufos-d10	97.1	P	50 - 134
EPA 8270E	Terphenyl-d14	120	P	44 - 134

Lab Sample ID: 2455152
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	85.8	P	37 - 129
EPA 8270E	Decachlorobiphenyl	91.5	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	58.8	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	48.3	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	98.8	P	28 - 102
EPA 8276	PCNB	99.1	P	49 - 115

Lab Sample ID: 2455153
Field Sample ID: G4SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	81.8	P	20 - 200
EPA 8270E	Simazine-d10	104	P	58 - 137
EPA 8270E	Terbufos-d10	98.2	P	50 - 134
EPA 8270E	Terphenyl-d14	72.0	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A123079

Included Lab Sample IDs: 2455136, 2455138

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

Reference Method: DEP SOP: NU-094-1

Run ID: A123087

Included Lab Sample IDs: 2455136, 2455138

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	103	P/P	90 - 110
Color (true)	102	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A123094

Included Lab Sample IDs: 2455147, 2455149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	118	112	P/P	60 - 160
Endothall	94.0	102	P/P	60 - 160
Glufosinate	99.0	103	P/P	60 - 160
Glyphosate	101	99.0	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A123112

Included Lab Sample IDs: 2455137, 2455139

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

Reference Method: SM 5310 B-2014

Run ID: A123116

Included Lab Sample IDs: 2455137, 2455139

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.9	101	P/P	85 - 115

Reference Method: EPA 8321B

Run ID: A123117

Included Lab Sample IDs: 2455147, 2455149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	115	114	P/P	60 - 160
Acesulfame K	125	120	P/P	60 - 160
Sucralose	103	105	P/P	60 - 160
Sucralose	110	104	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A123118

Included Lab Sample IDs: 2455136, 2455138

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A123127

Included Lab Sample IDs: 2455147, 2455149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	101	98.4	P/P	50 - 150
2,4,5-T	96.1	106	P/P	50 - 150
Acetaminophen	111	110	P/P	60 - 160
Acetamiprid	108	108	P/P	50 - 150
Afidopyropen	105	105	P/P	50 - 150
Bentazon	90.4	93.9	P/P	50 - 160
Bentazon	97.3	102	P/P	50 - 160
Benzovindiflupyr	105	105	P/P	50 - 150
Carbamazepine	108	110	P/P	60 - 150
Clothianidin	106	103	P/P	60 - 150
Dinotefuran	109	109	P/P	50 - 150
Diuron	110	110	P/P	60 - 160
Fenuron	105	103	P/P	60 - 150
Fluridone	111	109	P/P	60 - 160
Hydrocodone	108	109	P/P	60 - 150
Ibuprofen	91.6	102	P/P	50 - 160
Imazapyr	90.7	93.5	P/P	50 - 150
Imidacloprid	98.0	98.8	P/P	60 - 150
Linuron	108	109	P/P	60 - 150
Mandestrobin	106	106	P/P	50 - 150
MCPP	104	102	P/P	50 - 150
Naproxen	113	76.9	P/P	50 - 160
Primidone	101	96.5	P/P	60 - 150
Pyraclostrobin	106	105	P/P	60 - 150
Silvex	92.7	94.2	P/P	50 - 150
Thiamethoxam	112	114	P/P	50 - 150
Tolfenpyrad	98.1	99.5	P/P	60 - 150
Triclopyr	107	101	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A123144

Included Lab Sample IDs: 2455154

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.1	96.7	P/P	90 - 110
Antimony	96.0	96.2	P/P	90 - 110
Arsenic	97.0	97.7	P/P	90 - 110
Barium	95.7	94.7	P/P	90 - 110
Boron	103	103	P/P	90 - 110
Cadmium	95.5	96.1	P/P	90 - 110
Cobalt	99.0	97.3	P/P	90 - 110
Copper	96.3	96.3	P/P	90 - 110
Lead	99.2	98.9	P/P	90 - 110
Molybdenum	96.1	96.3	P/P	90 - 110
Nickel	98.2	97.0	P/P	90 - 110
Selenium	96.6	95.0	P/P	90 - 110
Silver	99.6	100	P/P	90 - 110
Thallium	99.7	98.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A123162

Included Lab Sample IDs: 2455137, 2455139

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A123170

Included Lab Sample IDs: 2455154

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	108	100	P/P	90 - 110
Manganese	102	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A123171

Included Lab Sample IDs: 2455146, 2455148

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	104	112	P/P	60 - 150
3-Hydroxycarbofuran	112	106	P/P	60 - 150
Aldicarb	101	102	P/P	60 - 150
Aldicarb	107	101	P/P	60 - 150
Aldicarb Sulfone	105	106	P/P	50 - 150
Aldicarb Sulfone	106	106	P/P	50 - 150
Aldicarb Sulfoxide	105	106	P/P	50 - 150
Aldicarb Sulfoxide	106	107	P/P	50 - 150
Carbaryl	104	108	P/P	60 - 150
Carbaryl	108	112	P/P	60 - 150
Carbofuran	109	109	P/P	50 - 150
Carbofuran	109	114	P/P	50 - 150
Methiocarb	104	108	P/P	50 - 150
Methiocarb	108	106	P/P	50 - 150
Methomyl	104	105	P/P	50 - 150
Methomyl	105	104	P/P	50 - 150
Oxamyl	104	105	P/P	50 - 150
Oxamyl	105	108	P/P	50 - 150
Propoxur	111	119	P/P	50 - 150
Propoxur	119	112	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A123174

Included Lab Sample IDs: 2455137

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.6	95.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A123193

Included Lab Sample IDs: 2455139

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	106	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123196

Included Lab Sample IDs: 2455137

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123197

Included Lab Sample IDs: 2455139

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	95.2	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A123206

Included Lab Sample IDs: 2455154

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	102	P/P	90 - 110
Chromium	102	101	P/P	90 - 110
Iron	102	102	P/P	90 - 110
Magnesium	102	103	P/P	90 - 110
Potassium	101	100	P/P	90 - 110
Sodium	97.2	97.7	P/P	90 - 110
Strontium	98.0	98.4	P/P	90 - 110
Tin	103	101	P/P	90 - 110
Titanium	104	103	P/P	90 - 110
Vanadium	100	99.4	P/P	90 - 110
Zinc	100	99.5	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A123207

Included Lab Sample IDs: 2455136, 2455138

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.3	98.3	P/P	90 - 110
Total Alkalinity	97.8	94.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A123207

Included Lab Sample IDs: 2455136, 2455138

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A123254

Included Lab Sample IDs: 2455136, 2455138

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A123257

Included Lab Sample IDs: 2455150, 2455152

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	93.3		P	80 - 120
PCB-1260	86.9		P	80 - 120

Reference Method: EPA 8276

Run ID: A123318

Included Lab Sample IDs: 2455150, 2455152

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.7		P	80 - 120
Chlordane	98.7		P	80 - 120
Toxaphene	92.5		P	80 - 120
Toxaphene	97.3		P	80 - 120

Reference Method: EPA 8270E

Run ID: A123394

Included Lab Sample IDs: 2455150, 2455152

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	88.2		P	80 - 120
Beta-BHC	89.2		P	80 - 120
Beta-Cyfluthrin	99.9		P	80 - 120
Bifenthrin	87.8		P	80 - 120
Chlorothalonil	96.4		P	80 - 120
Cis-Nonachlor	100		P	80 - 120
Cypermethrin	98.2		P	80 - 120
Dacthal	112		P	80 - 120
DDD-p,p'	110		P	80 - 120
DDE-p,p'	88.9		P	80 - 120
DDT-p,p'	93.9		P	80 - 120
Delta-BHC	91.3		P	80 - 120
Deltamethrin	98.0		P	80 - 120
Dichlobenil	91.5		P	80 - 120
Dicofol	98.0		P	80 - 120
Dieldrin	94.0		P	80 - 120
Endosulfan I	95.2		P	80 - 120
Endosulfan II	100		P	80 - 120
Endosulfan Sulfate	92.1		P	80 - 120
Endrin	99.3		P	80 - 120
Endrin Aldehyde	96.7		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	98.6		P	80 - 120
Ethalfuralin	88.1		P	80 - 120
Fenpropathrin	87.0		P	80 - 120
Gamma-BHC	85.3		P	80 - 120
Gamma-Chlordane	110		P	80 - 120
Heptachlor	102		P	80 - 120
Heptachlor Epoxide	100		P	80 - 120
Hexachlorobenzene	97.9		P	80 - 120
Kepone	82.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A123394

Included Lab Sample IDs: 2455150, 2455152

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lambda-Cyhalothrin	104		P	80 - 120
Methoprene	97.4		P	80 - 120
Methoxychlor	98.8		P	80 - 120
MGK-264	89.8		P	80 - 120
Mirex	96.6		P	80 - 120
Oxychlordane	82.6		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	103		P	80 - 120
Piperonyl Butoxide	106		P	80 - 120
Prallethrin	98.9		P	80 - 120
Tau-Fluvalinate	108		P	80 - 120
Tetramethrin	103		P	80 - 120
Trans-Nonachlor	115		P	80 - 120
Triclosan Methyl	85.8		P	80 - 120
Trifluralin	112		P	80 - 120

Reference Method: EPA 8270E

Run ID: A123410

Included Lab Sample IDs: 2455151, 2455153

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.6		P	80 - 120
Alachlor	96.3		P	80 - 120
Ametryn	108		P	80 - 120
Atrazine	94.5		P	80 - 120
Atrazine Desethyl	113		P	80 - 120
Azinphos Methyl	116		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	108		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	107		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	109		P	80 - 120
Chlorfenapyr	99.5		P	80 - 120
Chlorpyrifos Ethyl	93.9		P	80 - 120
Chlorpyrifos Methyl	118		P	80 - 120
Coumaphos	91.4		P	80 - 120
Cyanazine	105		P	80 - 120
Cyprodinil	112		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	119		P	80 - 120
Difenoconazole	87.6		P	80 - 120
Dimethenamid	94.5		P	80 - 120
Dimethomorph	87.0		P	80 - 120
Disulfoton	118		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	99.9		P	80 - 120
Ethion	93.5		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	99.4		P	80 - 120
Fenamiphos	90.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A123410

Included Lab Sample IDs: 2455151, 2455153

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenbuconazole	82.7		P	80 - 120
Fipronil	109		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	119		P	80 - 120
Fipronil Sulfone	97.8		P	80 - 120
Fluazifop-P-butyl	112		P	80 - 120
Fludioxonil	87.4		P	80 - 120
Flumioxazin	83.4		P	80 - 120
Flutolanil	114		P	80 - 120
Fluxapyroxad	167*		F	80 - 120
Fonofos	110		P	80 - 120
Hexazinone	93.8		P	80 - 120
Imazalil	182*		F	80 - 120
Iprodione	95.4		P	80 - 120
Loratadine	80.8		P	80 - 120
Malathion	93.8		P	80 - 120
Metaxyl	102		P	80 - 120
Metolachlor	106		P	80 - 120
Metribuzin	110		P	80 - 120
Mevinphos	87.4		P	80 - 120
Molinate	95.3		P	80 - 120
Myclobutanil	86.1		P	80 - 120
Naled	103		P	80 - 120
Napropamide	116		P	80 - 120
Norflurazon	87.8		P	80 - 120
Oxadiazon	107		P	80 - 120
Oxyfluorfen	116		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	110		P	80 - 120
Pendimethalin	115		P	80 - 120
Phenytoin	88.2		P	80 - 120
Phorate	107		P	80 - 120
Prodiamine	114		P	80 - 120
Prometon	99.6		P	80 - 120
Prometryn	117		P	80 - 120
Pronamide	96.7		P	80 - 120
Propanil	97.4		P	80 - 120
Propargite	101		P	80 - 120
Propiconazole	86.6		P	80 - 120
Pyraflufen Ethyl	109		P	80 - 120
Pyridaben	99.0		P	80 - 120
Pyriproxyfen	173*		F	80 - 120
Simazine	94.9		P	80 - 120
Stirophos	102		P	80 - 120
Sulfentrazone	212*		F	80 - 120
Tebuconazole	98.1		P	80 - 120
Terbufos	109		P	80 - 120
Terbuthylazine	87.5		P	80 - 120
Thiobencarb	105		P	80 - 120
Triadimefon	107		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A123463

Included Lab Sample IDs: 2455151, 2455153

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	98.7		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.3		P	80 - 120
Avobenzene	95.5		P	80 - 120
Dechlorane 602	100		P	80 - 120
Dechlorane 603	95.1		P	80 - 120
Dechlorane Plus	94.7		P	80 - 120
Hexabromobenzene	94.0		P	80 - 120
Octinoxate	96.1		P	80 - 120
Oxybenzone	98.4		P	80 - 120
PBB-153	88.9		P	80 - 120
PBDE-47	113		P	80 - 120
PBDE-99	95.4		P	80 - 120
Pentabromotoluene	96.9		P	80 - 120
Tetradecachloro-m-terphenyl	87.1		P	80 - 120
Tri-o-cresyl Phosphate	98.9		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	98.2		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.6		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	99.7		P	80 - 120

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

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements. Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	99.7					4.78	
EPA 180.1 Rev. 2.0	Turbidity	104					0.727	
EPA 200.7 Rev. 4.4	Calcium	110	109	109	105			0.315
	Chromium	100	89.7	90.4	99.7			0.674
	Iron	111	108	109	111			0.593
	Magnesium	112	109	111	112			0.913
	Potassium	101	99.5	99.4	101			0.0834
	Sodium	99.2	97.1	100				0.623
	Strontium	97.7	96.5	96.9	98.6			0.396
	Tin	98.1	96.6	97.0	99.0			0.503
	Titanium	102	104	104	103			0.125
	Vanadium	98.2	99.1	98.9	99.2			0.223
	Zinc	94.9	93.2	91.6	94.5			1.60
EPA 200.8 Rev. 5.4	Aluminum	97.8	97.8	95.7	90.2			1.79
	Antimony	98.9	96.9	96.4	97.2			0.472
	Arsenic	97.0	95.3	95.6	96.7			0.261
	Barium	98.4	97.5	96.7	95.9			0.751
	Beryllium	103	106	104	96.5			1.75
	Boron	103	101	97.6	103			2.40
	Cadmium	98.0	97.6	95.5	95.8			2.12
	Cobalt	98.2	96.9	96.2	97.0			0.647
	Copper	96.5	95.0	95.4	95.7			0.365
	Lead	101	101	99.9	99.9			1.25
	Manganese	95.0	90.9	90.2	99.7			0.653
	Molybdenum	97.2	96.1	96.5	96.3			0.395
	Nickel	96.3	83.0	83.0	95.1			0.0495
	Selenium	97.6	95.1	94.9	92.8			0.190
	Silver	104	101	102	102			1.21
	Thallium	101	103	103	101			0.112
EPA 300.0 Rev. 2.1	Chloride	103	100	101			1.16	
	Sulfate	101	100	100			1.19	
EPA 350.1 Rev. 2.0	Ammonia-N	99.0	95.2	101				3.92
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	101	95.0				4.46
	Kjeldahl Nitrogen	104	100	104				1.95
EPA 353.2 Rev. 2.0	NO2NO3-N	100	99.4	100				0.423
EPA 365.1 Rev. 2.0	Total-P	106	104	108				3.10
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	90.1	156	134				15.2
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	127	184	152				19.0
	Acetochlor	95.8	91.7	83.7				9.09
	Alachlor	104	111	111				0.0134
	Aldrin	42.2	36.2	40.5				11.3
	Alpha-BHC	80.3	58.9	55.5				5.87
	Alpha-Chlordane	92.0	56.8	51.8				9.06
	Ametryn	141	116	111				4.56
	Atrazine	109						2.01
	Atrazine Desethyl	116	98.3	98.0				0.273
	Avobenzone	150	206	178				14.8
	Azinphos Methyl	201	129	144				11.1
	Azoxystrobin	148	92.9	97.6				4.88
	Beta-BHC	104	75.7	89.3				16.5
	Beta-Cyfluthrin	88.9	61.5	64.0				3.95

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Bifenthrin	59.7	56.2	46.9		18.2
	Bromacil	107	87.5	85.0		2.91
	Butylate	70.0	69.9	62.4		11.3
	Caffeine	116	126	119		4.57
	Carbophenothion	129	129	114		12.7
	Carfentrazone Ethyl	137	146	127		14.4
	Chlorfenapyr	87.2	84.5	89.8		6.03
	Chlorothalonil	87.7	76.6	94.7		21.1
	Chlorpyrifos Ethyl	73.0	121	119		1.60
	Chlorpyrifos Methyl	89.3	66.7	79.4		17.5
	Cis-Nonachlor	87.9	57.6	58.0		0.665
	Coumaphos	101	76.6	94.4		20.8
	Cyanazine	179	134	126		5.84
	Cypermethrin	94.0	55.5	42.3		27.1
	Cyprodinil	109	76.8	96.6		22.9
	Dacthal	86.3	63.5	72.7		13.5
	DDD-p,p'	90.4	66.2	49.8		28.2
	DDE-p,p'	64.4	55.2	56.4		2.15
	DDT-p,p'	69.2	43.0	52.7		20.2
	Dechlorane 602	71.5	153	114		28.6
	Dechlorane 603	137	146	98.5		38.5
	Dechlorane Plus	111	126	88.0		35.6
	Delta-BHC	102	69.8	87.1		22.0
	Deltamethrin	98.1	39.3	53.7		31.1
	Demeton	127	102	99.6		2.21
	Diazinon	129	112	113		0.738
	Dichlobenil	82.1	49.6	81.4		48.5
	Dicofol	72.8	52.5	53.5		1.90
	Dieldrin	75.7	22.1	22.9		1.08
	Difenoconazole	61.8	82.9	91.3		9.65
	Dimethenamid	92.0	84.4	82.2		2.73
	Dimethomorph	169	170	181		6.14
	Disulfoton	127	101	97.4		4.01
	Dithiopyr	115	76.4	77.7		1.71
	Endosulfan I	83.6	50.1	64.5		25.2
	Endosulfan II	90.2	66.6	57.7		14.4
	Endosulfan Sulfate	77.2	51.9	98.5		61.9
	Endrin	92.7	62.3	49.6		22.7
	Endrin Aldehyde	72.0	28.7	72.6		86.8
	Endrin Ketone	95.4	72.6	57.7		22.9
	EPTC	57.7	52.8	51.5		2.46
	Esfenvalerate	76.6	71.5	60.4		16.8
	Ethalfuralin	71.7	54.2	64.3		17.2
	Ethion	35.3	107	104		2.92
	Ethoprop	130	111	111		0.454
	Etridiazole	61.8	60.4	55.8		7.88
	Fenamiphos	114	127	118		7.84
	Fenbuconazole	82.4	53.1	62.7		16.6
	Fenpropathrin	66.2	33.4	42.3		23.4
	Fipronil	101	95.1	112		16.5
	Fipronil Desulfinyl	109	58.8	60.9		3.60
	Fipronil Sulfide	114	95.8	113		15.5
	Fipronil Sulfone	101	53.3	67.5		19.4
	Fluazifop-P-butyl	139	129	140		8.18

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Fludioxonil	82.1	91.9	72.4		23.8
	Flumioxazin	107	128	127		0.873
	Flutolanil	82.4	119	97.8		19.2
	Fluxapyroxad	99.0	131	175		28.4
	Fonofos	81.4	99.7	112		11.6
	Gamma-BHC	94.9	54.3	67.2		21.3
	Gamma-Chlordane	84.4	50.4	47.9		5.11
	Heptachlor	68.0	43.4	50.8		15.9
	Heptachlor Epoxide	93.4	52.6	69.9		25.0
	Hexabromobenzene	134	155	134		14.6
	Hexachlorobenzene	81.3	48.8	29.4		49.5
	Hexazinone	108	109	109		0.420
	Imazalil	88.4	89.0	65.6		30.3
	Iprodione	196	167	154		8.29
	Kepone	92.8	33.5	37.1		3.63
	Lambda-Cyhalothrin	82.8	55.0	42.9		24.7
	Loratadine	187	125	155		21.6
	Malathion	146	115	121		4.96
	Metalaxyl	108	86.6	85.2		1.58
	Methoprene	69.2	37.9	46.9		21.3
	Methoxychlor	91.4	58.8	42.8		31.7
	Metolachlor	115	82.0	91.2		9.89
	Metribuzin	135	126	122		3.14
	Mevinphos	111	88.3	90.2		2.07
	MGK-264	78.8	53.6	68.4		24.2
	Mirex	60.1	36.6	49.2		29.3
	Molinate	91.2	83.8	76.0		9.80
	Myclobutanil	92.9	101	85.8		16.3
	Naled	23.7	18.6	19.8		6.62
	Napropamide	62.8	98.1	69.1		34.6
	Norflurazon	127	127	150		16.7
	Octinoxate	172	271	223		19.5
	Oxadiazon	85.0	50.1	56.3		8.05
	Oxybenzone	146	184	153		17.9
	Oxychlordane	64.9	35.3	53.5		41.1
	Oxyfluorfen	109	132	105		23.4
	Parathion Ethyl	127	114	96.5		16.6
	Parathion Methyl	156	153	129		16.9
	PBB-153	137	178	147		19.5
	PBDE-47	90.5	160	136		16.3
	PBDE-99	108	174	145		17.6
	PCB-1016	84.7	91.3	114		22.4
	PCB-1260	110	110	130		17.0
	Pendimethalin	137	106	99.8		5.97
	Pentabromotoluene	142	175	140		22.3
	Permethrin	83.5	61.2	51.1		18.0
	Phenothrin	68.1	70.7	55.5		24.1
	Phenytain	51.6	115	110		4.37
	Phorate	158	132	129		1.83
	Piperonyl Butoxide	110	69.1	86.9		22.8
	Prallethrin	84.3	46.1	51.8		11.7
	Prodiamine	67.7	54.0	57.9		6.95
	Prometon	93.3	138	128		7.48
	Prometryn	120	147	151		2.71

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pronamide	110	92.5	92.5		0.0135
	Propanil	115	106	105		0.552
	Propargite	73.3	134	130		3.20
	Propiconazole	93.6	113	140		21.8
	Pyraflufen Ethyl	135	145	111		26.6
	Pyridaben	86.0	172	183		6.42
	Pyriproxyfen	95.1	98.8	114		14.3
	Simazine	113	87.8	91.6		4.27
	Stirophos	35.3	41.1	49.7		18.9
	Sulfentrazone	119	67.5	97.7		36.5
	Tau-Fluvalinate	95.4	93.0	53.1		54.7
	Tebuconazole	56.6	129	129		0.230
	Terbufos	141	116	122		5.33
	Terbuthylazine	99.3	84.1	89.8		6.54
	Tetradecachloro-m-terphenyl	222	267	213		22.4
	Tetramethrin	88.5	65.5	64.2		2.07
	Thiobencarb	108	83.0	81.9		1.34
	Trans-Nonachlor	97.2	58.5	51.2		13.3
	Tri-o-cresyl Phosphate	154	177	154		14.0
	Triadimefon	89.4	65.6	63.8		2.75
	Triclosan Methyl	80.9	63.1	47.0		29.2
	Trifluralin	90.3	60.7	49.2		21.1
	Tris(1-chloro-2-propyl) phosphate (TCPP)	60.1	54.2	53.0		1.88
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	60.5	59.2	55.0		7.04
	Tris(2-chloroethyl) phosphate (TCEP)	64.1	65.8	62.7		4.74
EPA 8276	Chlordane	99.8	80.5	101		22.5
	Toxaphene	109	71.2	95.2		25.0
EPA 8321B	2,4-D	100	114	85.5		28.4
	2,4,5-T	122	97.3	106		8.97
	3-Hydroxycarbofuran	91.8	89.8	76.4		16.1
	Acesulfame K	109	101	102		0.640
	Acetaminophen	95.7	102	85.4		17.7
	Acetamiprid	85.4	91.7	71.6		24.6
	Afidopyropen	68.5	83.8	50.2		50.1
	Aldicarb	65.0	70.7	62.0		13.1
	Aldicarb Sulfone	102	99.1	94.4		4.85
	Aldicarb Sulfoxide	121	43.9	44.1		0.503
	AMPA	99.4	76.1	91.2		18.1
	Bentazon	74.4	72.5	60.2		18.5
	Benzovindiflupyr	90.2	94.7	81.2		15.3
	Carbamazepine	85.4	91.6	79.5		14.1
	Carbaryl	71.2	69.3	63.9		8.02
	Carbofuran	72.5	63.5	62.2		2.04
	Clothianidin	95.2	104	85.7		15.7
	Dinotefuran	106	113	94.6		17.5
	Diuron	80.8	83.6	71.8		15.2
	Endothall	101	113	120		5.69
	Fenuron	96.5	99.6	85.1		15.7
	Fluridone	92.8	100	85.5		15.8
	Glufosinate	99.1	93.9	99.5		5.79
	Glyphosate	95.8	90.4	93.4		3.27

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Hydrocodone	93.6	96.4	84.9		12.7
	Ibuprofen	70.0	74.5	58.4		24.2
	Imazapyr	95.4	101	81.9		20.9
	Imidacloprid	90.9	101	82.8		19.7
	Linuron	82.8	85.6	70.2		19.8
	Mandestrobin	96.3	101	83.5		19.3
	MCPP	97.2	102	83.7		19.9
	Methiocarb	73.2	58.4	58.1		0.450
	Methomyl	89.4	85.4	82.5		3.46
	Naproxen	87.4	67.2	57.9		14.9
	Oxamyl	93.0	89.3	84.9		5.02
	Primidone	88.6	95.5	77.4		20.9
	Propoxur	71.8	62.7	63.2		0.809
	Pyraclostrobin	80.9	87.8	75.3		15.3
	Silvex	92.2	96.3	77.0		22.3
	Sucralose	106	112	88.7		22.8
	Thiamethoxam	93.8	86.8	73.9		16.1
	Tolfenpyrad	52.3	56.8	47.3		18.3
	Triclopyr	125	99.2	99.2		0.0424
SM 2320 B-2011	Total Alkalinity	97.7				0.165
SM 2540 C-2015	TDS	103				2.53
SM 2540 D-2015	TSS	105				
SM 4500-F- C-2011	Fluoride	102	101	101		0.0
SM 5310 B-2014	Organic Carbon	98.4	98.7	99.6		0.740

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2455136, 2455138
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2455136, 2455138
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2455154
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2455154
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2455136, 2455138
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2455136, 2455138
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2455137, 2455139
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2455137, 2455139
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2455137, 2455139
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2455137, 2455139
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2455151, 2455153
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2455150, 2455152
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2455151, 2455153
EPA 8270E	PCBs in water matrices by GC/MS/MS	2455150, 2455152
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2455150, 2455152
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2455146, 2455148
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2455147, 2455149
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2455136, 2455138
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2455154
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2455136, 2455138
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2455136, 2455138
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2455136, 2455138

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2455137, 2455139

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	12/07/2023			12/07/2023 14:51	Anna M. Plaviak	2455136
	12/07/2023			12/07/2023 15:17	Anna M. Plaviak	2455138
EPA 180.1 Rev. 2.0	12/07/2023			12/07/2023 13:35	Chandler E Cox	2455136
	12/07/2023			12/07/2023 13:38	Chandler E Cox	2455138
EPA 200.7 Rev. 4.4	12/07/2023	12/08/2023 12:10	George D Taylor	12/13/2023 17:39	Chase Roberts	2455154
EPA 200.8 Rev. 5.4	12/07/2023	12/08/2023 12:10	George D Taylor	12/11/2023 19:07	Conrad Hartmann	2455154
	12/07/2023	12/08/2023 12:10	George D Taylor	12/13/2023 01:42	Conrad Hartmann	2455154
EPA 300.0 Rev. 2.1	12/07/2023			12/13/2023 01:32	Anna M. Plaviak	2455136
	12/07/2023			12/13/2023 01:47	Anna M. Plaviak	2455138
	12/07/2023			12/15/2023 20:45	James L Waggerby	2455136
	12/07/2023			12/15/2023 21:00	James L Waggerby	2455138
EPA 350.1 Rev. 2.0	12/07/2023			12/12/2023 12:38	Khloe J Berg	2455139
	12/07/2023			12/12/2023 12:46	Khloe J Berg	2455137
EPA 351.2 Rev. 2.0	12/07/2023	12/11/2023 12:28	Simonne.V. Calhoun	12/12/2023 16:32	Samantha L Bates	2455137
	12/07/2023	12/12/2023 10:36	Ping Hua	12/13/2023 11:19	Ping Hua	2455139
EPA 353.2 Rev. 2.0	12/07/2023			12/08/2023 15:19	Fadila Guebre	2455137
	12/07/2023			12/08/2023 15:20	Fadila Guebre	2455139
EPA 365.1 Rev. 2.0	12/07/2023	12/12/2023 14:15	Adam P Silver	12/13/2023 13:26	Simonne.V. Calhoun	2455137
	12/07/2023	12/12/2023 14:15	Adam P Silver	12/13/2023 14:52	Simonne.V. Calhoun	2455139
EPA 8270E	12/07/2023	12/08/2023 08:00	Fe-Val Siddell	12/13/2023 01:43	Lipi Saha	2455150
	12/07/2023	12/08/2023 08:00	Fe-Val Siddell	12/13/2023 02:13	Lipi Saha	2455152
	12/07/2023	12/08/2023 08:00	Fe-Val Siddell	12/21/2023 01:48	Julie Wi	2455150
	12/07/2023	12/08/2023 08:00	Fe-Val Siddell	12/21/2023 02:17	Julie Wi	2455152
	12/07/2023	12/10/2023 11:30	Mohammad Ghaffari	12/16/2023 21:21	Vandana T. Nagar	2455151
	12/07/2023	12/10/2023 11:30	Mohammad Ghaffari	12/16/2023 21:48	Vandana T. Nagar	2455153
	12/07/2023	12/10/2023 11:30	Mohammad Ghaffari	12/29/2023 22:07	Arthur Maknenko	2455151
	12/07/2023	12/10/2023 11:30	Mohammad Ghaffari	12/29/2023 22:34	Arthur Maknenko	2455153
EPA 8276	12/07/2023	12/08/2023 08:00	Fe-Val Siddell	12/19/2023 09:55	Kenedi Mills	2455150
	12/07/2023	12/08/2023 08:00	Fe-Val Siddell	12/19/2023 11:49	Kenedi Mills	2455152
EPA 8321B	12/07/2023	12/07/2023 13:00	Tae K Lee	12/07/2023 20:31	Hana Lee	2455147
	12/07/2023	12/07/2023 13:00	Tae K Lee	12/07/2023 20:44	Hana Lee	2455149
	12/07/2023	12/07/2023 13:00	Tae K Lee	12/08/2023 12:13	Hana Lee	2455149
	12/07/2023	12/07/2023 13:00	Tae K Lee	12/08/2023 18:59	Hana Lee	2455147
	12/07/2023	12/08/2023 09:00	Hoor Shaik	12/08/2023 21:57	Juyoung Kim	2455147
	12/07/2023	12/08/2023 09:00	Hoor Shaik	12/08/2023 22:15	Juyoung Kim	2455149
	12/07/2023	12/08/2023 09:00	Hoor Shaik	12/11/2023 10:34	Juyoung Kim	2455147
	12/07/2023	12/12/2023 09:00	Hoor Shaik	12/13/2023 02:49	Juyoung Kim	2455146
SM 2320 B-2011	12/07/2023	12/12/2023 09:00	Hoor Shaik	12/13/2023 03:25	Juyoung Kim	2455148
	12/07/2023			12/13/2023 03:45	Dale L. Simmons	2455138
	12/07/2023			12/13/2023 05:53	Dale L. Simmons	2455136

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2340 B-2011	12/07/2023			12/13/2023 17:39	Chase Roberts	2455154
SM 2540 C-2015	12/07/2023			12/08/2023 16:18	Yijie Li	2455136, 2455138
SM 2540 D-2015	12/07/2023			12/08/2023 16:18	Yijie Li	2455136, 2455138
SM 4500-F- C-2011	12/07/2023			12/13/2023 03:45	Dale L. Simmons	2455138
	12/07/2023			12/13/2023 05:53	Dale L. Simmons	2455136
SM 5310 B-2014	12/07/2023			12/08/2023 22:36	Kenneth H Lee	2455137
	12/07/2023			12/08/2023 22:50	Kenneth H Lee	2455139