Chemical Analysis Report

TLH-ROC-2022-10-24-01

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

Event Description: **Run 18**
Request ID: **RQ-2022-10-24-25**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
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2600 Blair Stone Rd
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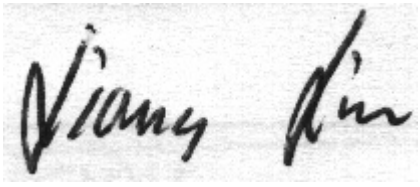
Certified by: Liang Lin, Environmental Administrator

Date Certified: 17-NOV-2022 13:42



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: Lewis Creek upstream Hwy157 **Collection Date/Time: 10/24/2022 09:40**

Field ID: G1TLHR0159 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364430	DEP SOP: NU-094-1	Color (true)	80		PCU	P421384	
	EPA 180.1 Rev. 2.0	Turbidity	4.9	A	NTU	P421381	
	EPA 300.0 Rev. 2.1	Chloride	6.7		mg Cl/L	P422162	
		Sulfate	0.52		mg SO4/L	P422166	
	SM 2320 B-2011	Total Alkalinity	31		mg CaCO3/L	P421549	
	SM 2540 C-2015	TDS	65		mg/L	P421907	
	SM 2540 D-2015	TSS	34		mg/L	P421850	
	SM 4500-F- C-2011	Fluoride	0.085	I	mg F/L	P421550	
2364431	EPA 350.1 Rev. 2.0	Ammonia-N	0.094		mg N/L	P421862	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.62		mg N/L	P421575	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P421604	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P422072	
	SM 5310 B-2011	Organic Carbon	7.6		mg C/L	P421544	
2364471	EPA 200.7 Rev. 4.4	Calcium	9.13		mg/L	P421431	
		Iron	2.73E+03		ug/L	P421431	
		Magnesium	2.79		mg/L	P421431	
		Potassium	0.50	I	mg/L	P421431	
		Sodium	4.0		mg/L	P421431	
		Strontium	23.7		ug/L	P421431	
		Tin	3.0	U	ug/L	P421431	
		Titanium	10.4		ug/L	P421431	
		Vanadium	2.0	U	ug/L	P421431	
		Zinc	5.0	U	ug/L	P421431	
	EPA 200.8 Rev. 5.4	Aluminum	113		ug/L	P421431	
		Antimony	0.050	U	ug/L	P421431	
		Arsenic	1.11		ug/L	P421431	
		Barium	21.5		ug/L	P421431	
		Beryllium	0.015	I	ug/L	P421431	
		Boron	15.7		ug/L	P421431	
		Cadmium	0.020	I	ug/L	P421431	
		Chromium	0.41	I	ug/L	P421431	MS
		Cobalt	0.136		ug/L	P421431	
		Copper	0.62	I	ug/L	P421431	
		Lead	0.20	U	ug/L	P421431	
		Manganese	212		ug/L	P421431	
		Molybdenum	0.28	I	ug/L	P421431	
		Nickel	0.50	U	ug/L	P421431	
		Selenium	0.20	U	ug/L	P421431	
		Silver	0.010	U	ug/L	P421431	
		Thallium	0.10	U	ug/L	P421431	
	SM 2340 B-2011	Hardness	34.3		mg/L	P421431	

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

Sample Location: Hurricane Creek upstream Lake Tallavana **Collection Date/Time: 10/24/2022 10:20**

Field ID: G1TLHR0160 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364433	DEP SOP: NU-094-1	Color (true)	15		PCU	P421384	
	EPA 180.1 Rev. 2.0	Turbidity	4.2		NTU	P421381	
	EPA 300.0 Rev. 2.1	Chloride	41		mg Cl/L	P422162	
		Sulfate	180		mg SO4/L	P422166	
	SM 2320 B-2011	Total Alkalinity	106		mg CaCO3/L	P421549	
	SM 2540 C-2015	TDS	483		mg/L	P421907	
	SM 2540 D-2015	TSS	35		mg/L	P421850	
	SM 4500-F- C-2011	Fluoride	0.46		mg F/L	P421550	
2364436	EPA 350.1 Rev. 2.0	Ammonia-N	0.057		mg N/L	P421862	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P421575	
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.6		mg N/L	P421604	
	EPA 365.1 Rev. 2.0	Total-P	0.79		mg P/L	P421429	
	SM 5310 B-2011	Organic Carbon	5.4		mg C/L	P421544	
2364459	EPA 8321B	Acesulfame K	0.10	U	ug/L	P421330	
		2,4-D	0.0044	I	ug/L	P421320	
		AMPA	5.0		ug/L	P421330	
		2,4,5-T	0.0040	U	ug/L	P421320	
		Acetaminophen	0.0080	U	ug/L	P421320	
		Acetamiprid	1.2		ug/L	P421320	
		Endothall	0.25	U	ug/L	P421330	MS
		Glufosinate	0.10	U	ug/L	P421330	
		Glyphosate	6.1		ug/L	P421330	
		Afidopyropen	0.013		ug/L	P421320	
		Sucralose	0.018	I	ug/L	P421330	
		Bentazon	0.61		ug/L	P421320	
		Benzovindiflupyr	0.21		ug/L	P421320	
		Carbamazepine	8.0E-04	U	ug/L	P421320	
		Clothianidin	0.0077	I	ug/L	P421320	
		Dinotefuran	0.15		ug/L	P421320	
		Diuron	0.14		ug/L	P421320	
		Fenuron	0.032	U	ug/L	P421320	
		Fluridone	8.1E-04	I	ug/L	P421320	
		Imazapyr	0.0040	U	ug/L	P421320	
		Hydrocodone	0.0020	U	ug/L	P421320	
		Ibuprofen	0.20	U	ug/L	P421320	
		Imidacloprid	0.021		ug/L	P421320	
		Linuron	0.0040	U	ug/L	P421320	
		Mandestrobin	0.0020	U	ug/L	P421320	
		MCPP	0.0040	U	ug/L	P421320	
		Naproxen	0.0080	U	ug/L	P421320	
		Primidone	0.0040	U	ug/L	P421320	
		Pyraclostrobin	0.021		ug/L	P421320	
		Silvex	0.0040	U	ug/L	P421320	
		Thiamethoxam	0.023		ug/L	P421320	

Field ID: G1TLHR0160 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364459	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P421320	
		Triclopyr	0.0040	U	ug/L	P421320	
2364472	EPA 200.7 Rev. 4.4	Calcium	63.7		mg/L	P421431	
		Iron	210		ug/L	P421431	
		Magnesium	29.8		mg/L	P421431	
		Potassium	10.9		mg/L	P421431	
		Sodium	26.9		mg/L	P421431	
		Strontium	711		ug/L	P421431	
		Tin	3.0	U	ug/L	P421431	
		Titanium	8.0		ug/L	P421431	
		Vanadium	2.9	I	ug/L	P421431	
		Zinc	5.0	U	ug/L	P421431	
	EPA 200.8 Rev. 5.4	Aluminum	137		ug/L	P421431	
		Antimony	0.077	I	ug/L	P421431	
		Arsenic	1.36		ug/L	P421431	
		Barium	18.2		ug/L	P421431	
		Beryllium	0.010	I	ug/L	P421431	
		Boron	33.2		ug/L	P421431	
		Cadmium	0.020	U	ug/L	P421431	
		Chromium	0.40	U	ug/L	P421431	MS
		Cobalt	0.068	I	ug/L	P421431	
		Copper	1.20		ug/L	P421431	
		Lead	0.20	U	ug/L	P421431	
		Manganese	27.3		ug/L	P421431	
		Molybdenum	3.12		ug/L	P421431	
		Nickel	0.50	U	ug/L	P421431	
		Selenium	0.20	U	ug/L	P421431	
		Silver	0.010	U	ug/L	P421431	
		Thallium	0.10	U	ug/L	P421431	
	SM 2340 B-2011	Hardness	282		mg/L	P421431	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for Glyphosate could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Lake Tallavana Outlet **Collection Date/Time: 10/24/2022 10:45**

Field ID: G1TLHR0164 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364464	EPA 8321B	Aldicarb	0.020	U	ug/L	P421445	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P421445	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P421445	
		Carbaryl	0.0020	U	ug/L	P421445	
		Carbofuran	0.0020	U	ug/L	P421445	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P421445	
		Methiocarb	0.0020	U	ug/L	P421445	
		Methomyl	0.0020	U	ug/L	P421445	
		Oxamyl	0.0020	U	ug/L	P421445	
		Propoxur	0.0020	U	ug/L	P421445	
2364465		Acesulfame K	0.10	U	ug/L	P421330	
		2,4-D	0.0020	U	ug/L	P421320	
		AMPA	0.10	U	ug/L	P421330	
		2,4,5-T	0.0040	U	ug/L	P421320	
		Acetaminophen	0.0080	U	ug/L	P421320	
		Acetamiprid	0.0020	U	ug/L	P421320	
		Endothall	0.25	U	ug/L	P421330	MS
		Glufosinate	0.10	U	ug/L	P421330	
		Glyphosate	0.10	U	ug/L	P421330	
		Afidopyropen	0.0020	U	ug/L	P421320	
		Sucralose	0.099		ug/L	P421330	
		Bentazon	8.0E-04	U	ug/L	P421320	
		Benzovindiflupyr	0.0020	U	ug/L	P421320	
		Carbamazepine	8.0E-04	U	ug/L	P421320	
		Clothianidin	0.0020	U	ug/L	P421320	
		Dinotefuran	0.0020	U	ug/L	P421320	
		Diuron	0.0020	U	ug/L	P421320	
		Fenuron	0.032	U	ug/L	P421320	
		Fluridone	8.0E-04	U	ug/L	P421320	
		Imazapyr	0.0040	U	ug/L	P421320	
		Hydrocodone	0.0020	U	ug/L	P421320	
		Ibuprofen	0.20	U	ug/L	P421320	
		Imidacloprid	0.0020	U	ug/L	P421320	
		Linuron	0.0040	U	ug/L	P421320	
		Mandestrobin	0.0020	U	ug/L	P421320	
		MCPP	0.0040	U	ug/L	P421320	
		Naproxen	0.0080	U	ug/L	P421320	
		Primidone	0.0040	U	ug/L	P421320	
		Pyraclostrobin	0.0020	U	ug/L	P421320	
		Silvex	0.0040	U	ug/L	P421320	
		Thiamethoxam	0.0020	U	ug/L	P421320	
		Tolfenpyrad	0.0020	U	ug/L	P421320	
		Triclopyr	0.0040	U	ug/L	P421320	
2364468	EPA 8270E	Aldrin	0.71	U	ng/L	P421468	

Field ID: G1TLHR0164 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364468	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P421468	
		Alpha-Chlordane	0.22	U	ng/L	P421468	
		Beta-BHC	0.11	U	ng/L	P421468	
		Beta-Cyfluthrin	1.4	UJ	ng/L	P421468	CCV
		Bifenthrin	0.55	U	ng/L	P421468	
		Chlorothalonil	1.4	U	ng/L	P421468	
		Cis-Nonachlor	0.22	U	ng/L	P421468	
		Cypermethrin	1.6	U	ng/L	P421468	
		Dacthal	0.16	U	ng/L	P421468	
		DDD-p,p'	0.27	U	ng/L	P421468	
		DDE-p,p'	0.22	U	ng/L	P421468	
		DDT-p,p'	0.27	U	ng/L	P421468	
		Delta-BHC	0.44	U	ng/L	P421468	
		Deltamethrin	1.4	U	ng/L	P421468	
		Dichlobenil	0.27	U	ng/L	P421468	
		Dicofol	1.4	U	ng/L	P421468	
		Dieldrin	0.44	U	ng/L	P421468	
		Endosulfan I	0.44	U	ng/L	P421468	
		Endosulfan II	0.44	U	ng/L	P421468	
		Endosulfan Sulfate	0.33	U	ng/L	P421468	
		Endrin	0.44	U	ng/L	P421468	
		Endrin Aldehyde	0.82	U	ng/L	P421468	
		Endrin Ketone	0.44	U	ng/L	P421468	
		Esfenvalerate	0.82	U	ng/L	P421468	
		Ethalfluralin	0.16	U	ng/L	P421468	
		Fenpropathrin	0.27	U	ng/L	P421468	
		Gamma-BHC	0.14	U	ng/L	P421468	
		Gamma-Chlordane	0.22	U	ng/L	P421468	
		Heptachlor	0.22	U	ng/L	P421468	
		Heptachlor Epoxide	0.27	U	ng/L	P421468	
		Hexachlorobenzene**	1.1	U	ng/L	P421468	
		Kepone	5.5	UJ	ng/L	P421468	CCV
		Lambda-Cyhalothrin	0.82	U	ng/L	P421468	
		Methoprene	0.82	U	ng/L	P421468	
		Methoxychlor	0.33	U	ng/L	P421468	
		MGK-264	0.22	U	ng/L	P421468	
		Mirex	0.38	U	ng/L	P421468	
		Oxychlordane	0.33	U	ng/L	P421468	
		Permethrin	1.8	I	ng/L	P421468	
		Phenothrin	0.99	U	ng/L	P421468	
		Piperonyl Butoxide	0.16	U	ng/L	P421468	
		Prallethrin	2.2	U	ng/L	P421468	
		Tau-Fluvalinate	0.27	UJ	ng/L	P421468	CCV
		Tetramethrin	0.82	U	ng/L	P421468	
		Trans-Nonachlor	0.22	UJ	ng/L	P421468	LCS

Field ID: G1TLHR0164 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364468	EPA 8270E	Triclosan Methyl	0.16	U	ng/L	P421468	
		Trifluralin	0.22	U	ng/L	P421468	
	EPA 8276	Chlordane	2.7	U	ng/L	P421468	
		Toxaphene	16	U	ng/L	P421468	
2364469	EPA 8270E	Acetochlor	0.25	U	ng/L	P421323	
		Alachlor	0.25	U	ng/L	P421323	
		Ametryn	0.59	U	ng/L	P421323	
		Atrazine	0.25	U	ng/L	P421323	
		Atrazine Desethyl	1.5	U	ng/L	P421323	
		Azinphos Methyl	2.0	U	ng/L	P421323	
		Azoxystrobin	0.49	U	ng/L	P421323	
		Bromacil	0.49	U	ng/L	P421323	
		Butylate	0.42	I	ng/L	P421323	
		Caffeine**	18	I	ng/L	P421323	
		Carbophenothion	0.20	U	ng/L	P421323	
		Carfentrazone Ethyl	0.098	U	ng/L	P421323	
		Chlorfenapyr	0.17	U	ng/L	P421323	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P421323	
		Chlorpyrifos Methyl	0.049	U	ng/L	P421323	
		Coumaphos	0.49	U	ng/L	P421323	
		Cyanazine	3.2	U	ng/L	P421323	
		Cyprodinil	0.098	U	ng/L	P421323	
		Demeton	1.5	U	ng/L	P421323	
		Diazinon	0.12	U	ng/L	P421323	
		Difenoconazole	0.59	U	ng/L	P421323	
		Dimethenamid	0.098	U	ng/L	P421323	
		Dimethomorph	0.17	U	ng/L	P421323	
		Disulfoton	0.49	U	ng/L	P421323	
		Dithiopyr	0.61	U	ng/L	P421323	
		EPTC	1.2	U	ng/L	P421323	
		Ethion	0.15	U	ng/L	P421323	
		Ethoprop	0.098	U	ng/L	P421323	
		Etridiazole	0.15	U	ng/L	P421323	
		Fenamiphos	0.49	U	ng/L	P421323	
		Fenbuconazole	0.12	U	ng/L	P421323	
		Fipronil	0.25	U	ng/L	P421323	MS
		Fipronil Desulfinyl**	0.12	U	ng/L	P421323	
		Fipronil Sulfide	0.15	U	ng/L	P421323	MS
		Fipronil Sulfone	0.22	I	ng/L	P421323	
		Fluazifop-P-butyl	0.098	U	ng/L	P421323	
		Fludioxonil	0.12	U	ng/L	P421323	
		Flumioxazin	4.4	U	ng/L	P421323	
		Flutolanil	0.098	U	ng/L	P421323	
		Fluxapyroxad	0.098	U	ng/L	P421323	
		Fonofos	0.20	U	ng/L	P421323	

Field ID: G1TLHR0164 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364469	EPA 8270E	Hexazinone	0.49	U	ng/L	P421323	
		Imazalil	0.74	U	ng/L	P421323	
		Iprodione	0.59	U	ng/L	P421323	
		Loratadine**	0.34	U	ng/L	P421323	
		Malathion	0.34	U	ng/L	P421323	
		Metalaxyl	0.92	I	ng/L	P421323	
		Metolachlor	0.34	U	ng/L	P421323	
		Metribuzin	1.5	U	ng/L	P421323	
		Mevinphos	1.0	U	ng/L	P421323	
		Molinate	0.29	U	ng/L	P421323	
		Myclobutanil	0.25	U	ng/L	P421323	
		Naled	1.5	U	ng/L	P421323	
		Napropamide	0.39	U	ng/L	P421323	
		Norflurazon	0.49	U	ng/L	P421323	
		Oxadiazon	0.29	U	ng/L	P421323	
		Oxyfluorfen	0.15	U	ng/L	P421323	
		Parathion Ethyl	0.25	U	ng/L	P421323	
		Parathion Methyl	0.54	U	ng/L	P421323	
		Pendimethalin	0.98	U	ng/L	P421323	
		Phenytoin**	3.4	U	ng/L	P421323	
		Phorate	0.51	U	ng/L	P421323	
		Prodiamine	0.17	U	ng/L	P421323	
		Prometon	0.88	U	ng/L	P421323	
		Prometryn	0.20	U	ng/L	P421323	
		Pronamide	0.15	U	ng/L	P421323	
		Propanil	0.12	U	ng/L	P421323	
		Propargite	1.5	U	ng/L	P421323	
		Propiconazole	0.49	U	ng/L	P421323	
		Pyraflufen Ethyl	0.25	U	ng/L	P421323	
		Pyridaben	0.44	U	ng/L	P421323	
		Pyriproxyfen	0.12	U	ng/L	P421323	
		Simazine	0.49	U	ng/L	P421323	
		Stirophos	0.12	U	ng/L	P421323	
		Sulfentrazone	0.49	U	ng/L	P421323	
		Tebuconazole	0.49	U	ng/L	P421323	
		Terbufos	0.098	U	ng/L	P421323	
		Terbuthylazine	0.42	U	ng/L	P421323	
		Thiobencarb	0.59	U	ng/L	P421323	
		Triadimefon	0.25	U	ng/L	P421323	

Ref. Method and Comment:
EPA 8321B: MS accuracy for Glyphosate could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked.

Sample Location: Beaver Creek **Collection Date/Time: 10/24/2022 11:20**

Field ID: G1TLHR0165 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364434	DEP SOP: NU-094-1	Color (true)	14	A	PCU	P421421	
	EPA 180.1 Rev. 2.0	Turbidity	26		NTU	P421381	
	EPA 300.0 Rev. 2.1	Chloride	13	A	mg Cl/L	P422162	
		Sulfate	2.5	A	mg SO4/L	P422166	
	SM 2320 B-2011	Total Alkalinity	46		mg CaCO3/L	P421549	
	SM 2540 C-2015	TDS	64		mg/L	P421907	
	SM 2540 D-2015	TSS	134		mg/L	P421850	
	SM 4500-F- C-2011	Fluoride	0.084	I	mg F/L	P421550	
2364437	EPA 350.1 Rev. 2.0	Ammonia-N	0.017		mg N/L	P421862	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.84		mg N/L	P421575	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.62		mg N/L	P421605	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P421429	
	SM 5310 B-2011	Organic Carbon	3.6		mg C/L	P421544	
2364460	EPA 8321B	Acesulfame K	0.10	U	ug/L	P421330	
		2,4-D	0.0020	U	ug/L	P421320	
		AMPA	0.10	U	ug/L	P421330	
		2,4,5-T	0.0040	U	ug/L	P421320	
		Acetaminophen	0.0080	U	ug/L	P421320	
		Acetamiprid	0.0020	U	ug/L	P421320	
		Endothall	0.25	U	ug/L	P421330	MS
		Glufosinate	0.10	U	ug/L	P421330	
		Glyphosate	0.10	U	ug/L	P421330	
		Afidopyropen	0.0020	U	ug/L	P421320	
		Sucralose	0.30		ug/L	P421330	
		Bentazon	8.0E-04	U	ug/L	P421320	
		Benzovindiflupyr	0.0020	U	ug/L	P421320	
		Carbamazepine	8.0E-04	U	ug/L	P421320	
		Clothianidin	0.0025	I	ug/L	P421320	
		Dinotefuran	0.0020	U	ug/L	P421320	
		Diuron	0.0020	U	ug/L	P421320	
		Fenuron	0.032	U	ug/L	P421320	
		Fluridone	9.2E-04	I	ug/L	P421320	
		Imazapyr	0.0040	U	ug/L	P421320	
		Hydrocodone	0.0020	U	ug/L	P421320	
		Ibuprofen	0.20	U	ug/L	P421320	
		Imidacloprid	0.0033	I	ug/L	P421320	
		Linuron	0.0040	U	ug/L	P421320	
		Mandestrobin	0.0020	U	ug/L	P421320	
		MCPP	0.0040	U	ug/L	P421320	
		Naproxen	0.0080	U	ug/L	P421320	
		Primidone	0.0040	U	ug/L	P421320	
		Pyraclostrobin	0.0020	U	ug/L	P421320	
		Silvex	0.0040	U	ug/L	P421320	
		Thiamethoxam	0.0020	U	ug/L	P421320	

Field ID: G1TLHR0165 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364460	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P421320	
		Triclopyr	0.0040	U	ug/L	P421320	
2364473	EPA 200.7 Rev. 4.4	Calcium	15.8		mg/L	P421431	
		Iron	1.42E+03		ug/L	P421431	
		Magnesium	3.53		mg/L	P421431	
		Potassium	0.56	I	mg/L	P421431	
		Sodium	7.9		mg/L	P421431	
		Strontium	35.3		ug/L	P421431	
		Tin	3.0	U	ug/L	P421431	
		Titanium	55.6		ug/L	P421431	
		Vanadium	2.8	I	ug/L	P421431	
		Zinc	11	I	ug/L	P421431	
	EPA 200.8 Rev. 5.4	Aluminum	965		ug/L	P421431	
		Antimony	0.050	U	ug/L	P421431	
		Arsenic	0.90		ug/L	P421431	
		Barium	25.5		ug/L	P421431	
		Beryllium	0.045		ug/L	P421431	
		Boron	13.0		ug/L	P421431	
		Cadmium	0.020	U	ug/L	P421431	
		Chromium	1.5	I	ug/L	P421431	MS
		Cobalt	0.195		ug/L	P421431	
		Copper	0.59	I	ug/L	P421431	
		Lead	0.73		ug/L	P421431	
		Manganese	61.4		ug/L	P421431	
		Molybdenum	0.15	U	ug/L	P421431	
		Nickel	0.50	U	ug/L	P421431	
		Selenium	0.20	U	ug/L	P421431	
		Silver	0.010	U	ug/L	P421431	
		Thallium	0.10	U	ug/L	P421431	
	SM 2340 B-2011	Hardness	53.9		mg/L	P421431	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for Glyphosate could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Double Branch Upstream SR270 **Collection Date/Time: 10/24/2022 11:40**

Field ID: G1TLHR0171 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364458	EPA 8321B	Acesulfame K	0.10	U	ug/L	P421330	
		2,4-D	0.0020	U	ug/L	P421320	
		AMPA	0.10	U	ug/L	P421330	
		2,4,5-T	0.0040	U	ug/L	P421320	
		Acetaminophen	0.0080	U	ug/L	P421320	
		Acetamiprid	0.0020	U	ug/L	P421320	
		Endothall	0.25	U	ug/L	P421330	MS
		Glufosinate	0.10	U	ug/L	P421330	
		Glyphosate	0.10	U	ug/L	P421330	
		Afidopyropen	0.0020	U	ug/L	P421320	
		Sucralose	0.13		ug/L	P421330	
		Bentazon	8.0E-04	U	ug/L	P421320	
		Benzovindiflupyr	0.0020	U	ug/L	P421320	
		Carbamazepine	8.0E-04	U	ug/L	P421320	
		Clothianidin	0.0020	U	ug/L	P421320	
		Dinotefuran	0.0020	U	ug/L	P421320	
		Diuron	0.0020	U	ug/L	P421320	
		Fenuron	0.032	U	ug/L	P421320	
		Fluridone	8.0E-04	U	ug/L	P421320	
		Imazapyr	0.0040	U	ug/L	P421320	
		Hydrocodone	0.0020	U	ug/L	P421320	
		Ibuprofen	0.20	U	ug/L	P421320	
		Imidacloprid	0.0020	U	ug/L	P421320	
		Linuron	0.0040	U	ug/L	P421320	
		Mandestrobin	0.0020	U	ug/L	P421320	
		MCPP	0.0040	U	ug/L	P421320	
		Naproxen	0.0080	U	ug/L	P421320	
		Primidone	0.0040	U	ug/L	P421320	
		Pyraclostrobin	0.0020	U	ug/L	P421320	
		Silvex	0.0040	U	ug/L	P421320	
		Thiamethoxam	0.0020	U	ug/L	P421320	
		Tolfenpyrad	0.0020	U	ug/L	P421320	
		Triclopyr	0.0040	U	ug/L	P421320	
2364470	EPA 200.7 Rev. 4.4	Calcium	4.35		mg/L	P421431	
		Iron	770		ug/L	P421431	
		Magnesium	1.26		mg/L	P421431	
		Potassium	0.30	I	mg/L	P421431	
		Sodium	3.2		mg/L	P421431	
		Strontium	12.9		ug/L	P421431	
		Tin	3.0	U	ug/L	P421431	
		Titanium	50.9		ug/L	P421431	
		Vanadium	2.0	U	ug/L	P421431	
		Zinc	5.0	U	ug/L	P421431	
	EPA 200.8 Rev. 5.4	Aluminum	335		ug/L	P421431	

Field ID: G1TLHR0171 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364470	EPA 200.8 Rev. 5.4	Antimony	0.050	U	ug/L	P421431	
		Arsenic	0.42		ug/L	P421431	
		Barium	11.6		ug/L	P421431	
		Beryllium	0.017	I	ug/L	P421431	
		Boron	10.5		ug/L	P421431	
		Cadmium	0.020	U	ug/L	P421431	
		Chromium	0.64	I	ug/L	P421431	MS
		Cobalt	0.090		ug/L	P421431	
		Copper	0.40	U	ug/L	P421431	
		Lead	0.25	I	ug/L	P421431	
		Manganese	32.8		ug/L	P421431	
		Molybdenum	0.15	U	ug/L	P421431	
		Nickel	0.50	U	ug/L	P421431	
		Selenium	0.20	U	ug/L	P421431	
		Silver	0.010	U	ug/L	P421431	
		Thallium	0.10	U	ug/L	P421431	
	SM 2340 B-2011	Hardness	16.1		mg/L	P421431	

Ref. Method and Comment:
EPA 8321B: MS accuracy for Glyphosate could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Hurricane Creek upstream US90 **Collection Date/Time: 10/24/2022 12:00**

Field ID: G1TLHR0161 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364435	DEP SOP: NU-094-1	Color (true)	30		PCU	P421384	
	EPA 180.1 Rev. 2.0	Turbidity	4.1		NTU	P421381	
	EPA 300.0 Rev. 2.1	Chloride	9.1		mg Cl/L	P422162	
		Sulfate	6.6		mg SO4/L	P422166	
	SM 2320 B-2011	Total Alkalinity	38		mg CaCO3/L	P421549	
	SM 2540 C-2015	TDS	74		mg/L	P421907	
	SM 2540 D-2015	TSS	3	I	mg/L	P421850	
	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P421550	
2364438	EPA 350.1 Rev. 2.0	Ammonia-N	0.023		mg N/L	P421794	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.28		mg N/L	P421575	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P421605	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P421429	
	SM 5310 B-2011	Organic Carbon	3.7		mg C/L	P421635	
2364461	EPA 8321B	Acesulfame K	0.10	U	ug/L	P421330	
		2,4-D	0.0021	I	ug/L	P421320	
		AMPA	0.38	I	ug/L	P421330	
		2,4,5-T	0.0040	U	ug/L	P421320	
		Acetaminophen	0.0080	U	ug/L	P421320	
		Acetamiprid	0.0020	U	ug/L	P421320	
		Endothall	0.25	U	ug/L	P421330	MS
		Glufosinate	0.10	U	ug/L	P421330	
		Glyphosate	0.10	U	ug/L	P421330	
		Afidopyropen	0.0020	U	ug/L	P421320	
		Sucralose	0.050		ug/L	P421330	
		Bentazon	0.036		ug/L	P421320	
		Benzovindiflupyr	0.0020	U	ug/L	P421320	
		Carbamazepine	8.0E-04	U	ug/L	P421320	
		Clothianidin	0.0020	U	ug/L	P421320	
		Dinotefuran	0.0073	I	ug/L	P421320	
		Diuron	0.015		ug/L	P421320	
		Fenuron	0.032	U	ug/L	P421320	
		Fluridone	8.0E-04	U	ug/L	P421320	
		Imazapyr	0.0040	U	ug/L	P421320	
		Hydrocodone	0.0020	U	ug/L	P421320	
		Ibuprofen	0.20	U	ug/L	P421320	
		Imidacloprid	0.0020	U	ug/L	P421320	
		Linuron	0.0040	U	ug/L	P421320	
		Mandestrobin	0.0020	U	ug/L	P421320	
		MCPP	0.0040	U	ug/L	P421320	
		Naproxen	0.0080	U	ug/L	P421320	
		Primidone	0.0040	U	ug/L	P421320	
		Pyraclostrobin	0.0020	U	ug/L	P421320	
		Silvex	0.0040	U	ug/L	P421320	
		Thiamethoxam	0.0020	U	ug/L	P421320	

Field ID: G1TLHR0161 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364461	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P421320	
		Triclopyr	0.0040	U	ug/L	P421320	
2364474	EPA 200.7 Rev. 4.4	Calcium	11.8		mg/L	P421431	
		Iron	510		ug/L	P421431	
		Magnesium	4.03		mg/L	P421431	
		Potassium	1.4		mg/L	P421431	
		Sodium	5.6		mg/L	P421431	
		Strontium	57.7		ug/L	P421431	
		Tin	3.0	U	ug/L	P421431	
		Titanium	6.9		ug/L	P421431	
		Vanadium	2.0	U	ug/L	P421431	
		Zinc	5.0	U	ug/L	P421431	
	EPA 200.8 Rev. 5.4	Aluminum	86		ug/L	P421431	
		Antimony	0.050	U	ug/L	P421431	
		Arsenic	0.56		ug/L	P421431	
		Barium	8.67		ug/L	P421431	
		Beryllium	0.010	U	ug/L	P421431	
		Boron	14.0		ug/L	P421431	
		Cadmium	0.020	U	ug/L	P421431	
		Chromium	0.40	U	ug/L	P421431	MS
		Cobalt	0.043	I	ug/L	P421431	
		Copper	0.40	U	ug/L	P421431	
		Lead	0.20	U	ug/L	P421431	
		Manganese	16.2		ug/L	P421431	
		Molybdenum	0.23	I	ug/L	P421431	
		Nickel	0.50	U	ug/L	P421431	
		Selenium	0.20	U	ug/L	P421431	
		Silver	0.010	U	ug/L	P421431	
		Thallium	0.10	U	ug/L	P421431	
	SM 2340 B-2011	Hardness	45.9		mg/L	P421431	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for Glyphosate could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Richlander Creek upstream Hwy65B **Collection Date/Time: 10/24/2022 12:55**

Field ID: G1TLHR0162 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364462	EPA 8321B	Aldicarb	0.020	UJ	ug/L	P421445	RPD
		Aldicarb Sulfone	0.0020	U	ug/L	P421445	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P421445	
		Carbaryl	0.0020	U	ug/L	P421445	
		Carbofuran	0.0020	U	ug/L	P421445	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P421445	
		Methiocarb	0.0020	U	ug/L	P421445	
		Methomyl	0.0020	U	ug/L	P421445	
		Oxamyl	0.0020	U	ug/L	P421445	
		Propoxur	0.0020	U	ug/L	P421445	
2364463		Acesulfame K	0.10	U	ug/L	P421330	
		2,4-D	0.0020	U	ug/L	P421320	
		AMPA	0.10	U	ug/L	P421330	
		2,4,5-T	0.0040	U	ug/L	P421320	
		Acetaminophen	0.0080	U	ug/L	P421320	
		Acetamiprid	0.0020	U	ug/L	P421320	
		Endothall	0.25	U	ug/L	P421330	MS
		Glufosinate	0.10	U	ug/L	P421330	
		Glyphosate	0.10	U	ug/L	P421330	
		Afidopyropen	0.0020	U	ug/L	P421320	
		Sucralose	0.12		ug/L	P421330	
		Bentazon	8.0E-04	U	ug/L	P421320	
		Benzovindiflupyr	0.0020	U	ug/L	P421320	
		Carbamazepine	8.0E-04	U	ug/L	P421320	
		Clothianidin	0.0020	U	ug/L	P421320	
		Dinotefuran	0.0020	U	ug/L	P421320	
		Diuron	0.0020	U	ug/L	P421320	
		Fenuron	0.032	U	ug/L	P421320	
		Fluridone	8.0E-04	U	ug/L	P421320	
		Imazapyr	0.0040	U	ug/L	P421320	
		Hydrocodone	0.0020	U	ug/L	P421320	
		Ibuprofen	0.20	U	ug/L	P421320	
		Imidacloprid	0.0031	I	ug/L	P421320	
		Linuron	0.0040	U	ug/L	P421320	
		Mandestrobin	0.0020	U	ug/L	P421320	
		MCPP	0.0040	U	ug/L	P421320	
		Naproxen	0.0080	U	ug/L	P421320	
		Primidone	0.0040	U	ug/L	P421320	
		Pyraclostrobin	0.0020	U	ug/L	P421320	
		Silvex	0.0040	U	ug/L	P421320	
		Thiamethoxam	0.0020	U	ug/L	P421320	
		Tolfenpyrad	0.0020	U	ug/L	P421320	
		Triclopyr	0.0040	U	ug/L	P421320	
2364466	EPA 8270E	Aldrin	0.70	U	ng/L	P421468	

Field ID: G1TLHR0162 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364466	EPA 8270E	Alpha-BHC	0.11	U	ng/L	P421468	
		Alpha-Chlordane	0.21	U	ng/L	P421468	
		PCB-1016	2.1	U	ng/L	P421468	
		Beta-BHC	0.27	I	ng/L	P421468	
		PCB-1221	2.1	U	ng/L	P421468	
		Beta-Cyfluthrin	1.3	UJ	ng/L	P421468	CCV
		PCB-1232	2.1	U	ng/L	P421468	
		Bifenthrin	0.75	I	ng/L	P421468	
		PCB-1242	2.1	U	ng/L	P421468	
		PCB-1248	2.1	U	ng/L	P421468	
		Chlorothalonil	1.3	U	ng/L	P421468	
		PCB-1254	2.1	U	ng/L	P421468	
		Cis-Nonachlor	0.21	U	ng/L	P421468	
		PCB-1260	2.1	U	ng/L	P421468	
		Cypermethrin	1.6	U	ng/L	P421468	
		Dacthal	0.16	U	ng/L	P421468	
		DDD-p,p'	0.27	U	ng/L	P421468	
		DDE-p,p'	0.21	U	ng/L	P421468	
		DDT-p,p'	0.27	U	ng/L	P421468	
		Delta-BHC	0.43	U	ng/L	P421468	
		Deltamethrin	1.3	U	ng/L	P421468	
		Dichlobenil	0.27	U	ng/L	P421468	
		Dicofol	1.3	U	ng/L	P421468	
		Dieldrin	0.43	U	ng/L	P421468	
		Endosulfan I	0.43	U	ng/L	P421468	
		Endosulfan II	0.43	U	ng/L	P421468	
		Endosulfan Sulfate	0.32	U	ng/L	P421468	
		Endrin	0.43	U	ng/L	P421468	
		Endrin Aldehyde	0.80	U	ng/L	P421468	
		Endrin Ketone	0.43	U	ng/L	P421468	
		Esfenvalerate	0.80	U	ng/L	P421468	
		Ethalfluralin	0.16	U	ng/L	P421468	
		Fenpropathrin	0.27	U	ng/L	P421468	
		Gamma-BHC	0.13	U	ng/L	P421468	
		Gamma-Chlordane	0.21	U	ng/L	P421468	
		Heptachlor	0.21	U	ng/L	P421468	
		Heptachlor Epoxide	0.27	U	ng/L	P421468	
		Hexachlorobenzene**	1.1	U	ng/L	P421468	
		Kepone	5.4	UJ	ng/L	P421468	CCV
		Lambda-Cyhalothrin	0.80	U	ng/L	P421468	
		Methoprene	0.80	U	ng/L	P421468	
		Methoxychlor	0.32	U	ng/L	P421468	
		MGK-264	0.21	U	ng/L	P421468	
		Mirex	0.37	U	ng/L	P421468	
		Oxychlordane	0.32	U	ng/L	P421468	

Field ID: G1TLHR0162 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364466	EPA 8270E	Permethrin	1.7	U	ng/L	P421468	
		Phenothrin	0.96	U	ng/L	P421468	
		Piperonyl Butoxide	0.16	U	ng/L	P421468	
		Prallethrin	2.1	U	ng/L	P421468	
		Tau-Fluvalinate	0.27	UJ	ng/L	P421468	CCV
		Tetramethrin	0.80	U	ng/L	P421468	
		Trans-Nonachlor	0.21	UJ	ng/L	P421468	LCS
		Triclosan Methyl	0.16	U	ng/L	P421468	
		Trifluralin	0.21	U	ng/L	P421468	
	EPA 8276	Chlordane	2.7	U	ng/L	P421468	
		Toxaphene	16	U	ng/L	P421468	
2364467	EPA 8270E	Acetochlor	0.25	U	ng/L	P421323	
		Alachlor	0.81	I	ng/L	P421323	
		Ametryn	0.61	U	ng/L	P421323	
		Atrazine	0.25	U	ng/L	P421323	
		Atrazine Desethyl	1.5	U	ng/L	P421323	
		Azinphos Methyl	2.0	U	ng/L	P421323	
		Azoxystrobin	0.51	U	ng/L	P421323	
		Bromacil	0.66	I	ng/L	P421323	
		Butylate	0.41	U	ng/L	P421323	
		Caffeine**	7.6	U	ng/L	P421323	
		Carbophenothion	0.20	U	ng/L	P421323	
		Carfentrazone Ethyl	0.10	U	ng/L	P421323	
		Chlorfenapyr	0.18	U	ng/L	P421323	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P421323	
		Chlorpyrifos Methyl	0.051	U	ng/L	P421323	
		Coumaphos	0.51	U	ng/L	P421323	
		Cyanazine	3.3	U	ng/L	P421323	
		Cyprodinil	0.10	U	ng/L	P421323	
		Demeton	1.5	U	ng/L	P421323	
		Diazinon	0.13	U	ng/L	P421323	
		Difenoconazole	0.61	U	ng/L	P421323	
		Dimethenamid	0.10	U	ng/L	P421323	
		Dimethomorph	0.18	U	ng/L	P421323	
		Disulfoton	0.51	U	ng/L	P421323	
		Dithiopyr	0.64	U	ng/L	P421323	
		EPTC	1.3	U	ng/L	P421323	
		Ethion	0.15	U	ng/L	P421323	
		Ethoprop	0.10	U	ng/L	P421323	
		Etridiazole	0.15	U	ng/L	P421323	
		Fenamiphos	0.51	U	ng/L	P421323	
		Fenbuconazole	0.13	U	ng/L	P421323	
		Fipronil	0.25	U	ng/L	P421323	MS
		Fipronil Desulfinyl**	0.13	U	ng/L	P421323	
		Fipronil Sulfide	0.15	U	ng/L	P421323	MS

Field ID: G1TLHR0162 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364467	EPA 8270E	Fipronil Sulfone	0.15	U	ng/L	P421323	
		Fluazifop-P-butyl	0.10	U	ng/L	P421323	
		Fludioxonil	0.13	U	ng/L	P421323	
		Flumioxazin	4.6	U	ng/L	P421323	
		Flutolanil	0.10	U	ng/L	P421323	
		Fluxapyroxad	0.10	U	ng/L	P421323	
		Fonofos	0.20	U	ng/L	P421323	
		Hexazinone	0.51	U	ng/L	P421323	
		Imazalil	0.76	U	ng/L	P421323	
		Iprodione	0.61	U	ng/L	P421323	
		Loratadine**	0.36	U	ng/L	P421323	
		Malathion	0.36	U	ng/L	P421323	
		Metalaxyl	0.76	U	ng/L	P421323	
		Metolachlor	1.9		ng/L	P421323	
		Metribuzin	1.5	U	ng/L	P421323	
		Mevinphos	1.1	U	ng/L	P421323	
		Molinate	0.31	U	ng/L	P421323	
		Myclobutanil	0.25	U	ng/L	P421323	
		Naled	1.5	U	ng/L	P421323	
		Napropamide	0.41	U	ng/L	P421323	
		Norflurazon	0.51	U	ng/L	P421323	
		Oxadiazon	0.31	U	ng/L	P421323	
		Oxyfluorfen	0.15	U	ng/L	P421323	
		Parathion Ethyl	0.25	U	ng/L	P421323	
		Parathion Methyl	0.56	U	ng/L	P421323	
		Pendimethalin	1.0	U	ng/L	P421323	
		Phenytoin**	3.6	U	ng/L	P421323	
		Phorate	0.53	U	ng/L	P421323	
		Prodiamine	0.18	U	ng/L	P421323	
		Prometon	0.92	U	ng/L	P421323	
		Prometryn	0.20	U	ng/L	P421323	
		Pronamide	0.15	U	ng/L	P421323	
		Propanil	0.13	U	ng/L	P421323	
		Propargite	1.5	U	ng/L	P421323	
		Propiconazole	0.51	U	ng/L	P421323	
		Pyraflufen Ethyl	0.25	U	ng/L	P421323	
		Pyridaben	0.46	U	ng/L	P421323	
		Pyriproxyfen	0.13	U	ng/L	P421323	
		Simazine	0.51	U	ng/L	P421323	
		Stirophos	0.13	U	ng/L	P421323	
		Sulfentrazone	0.51	U	ng/L	P421323	
		Tebuconazole	0.51	U	ng/L	P421323	
		Terbufos	0.10	U	ng/L	P421323	
		Terbuthylazine	0.43	U	ng/L	P421323	
		Thiobencarb	0.61	U	ng/L	P421323	

Field ID: G1TLHR0162 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2364467	EPA 8270E	Triadimefon	0.25	U	ng/L	P421323	
2364475	EPA 200.7 Rev. 4.4	Calcium	4.53		mg/L	P421431	
		Iron	680		ug/L	P421431	
		Magnesium	1.74		mg/L	P421431	
		Potassium	0.37	I	mg/L	P421431	
		Sodium	4.2		mg/L	P421431	
		Strontium	15.7		ug/L	P421431	
		Tin	3.0	U	ug/L	P421431	
		Titanium	8.6		ug/L	P421431	
		Vanadium	2.0	U	ug/L	P421431	
		Zinc	5.0	U	ug/L	P421431	
	EPA 200.8 Rev. 5.4	Aluminum	120		ug/L	P421431	
		Antimony	0.050	U	ug/L	P421431	
		Arsenic	0.31		ug/L	P421431	
		Barium	10.4		ug/L	P421431	
		Beryllium	0.010	U	ug/L	P421431	
		Boron	11.1		ug/L	P421431	
		Cadmium	0.020	U	ug/L	P421431	
		Chromium	0.40	U	ug/L	P421431	MS
		Cobalt	0.050	I	ug/L	P421431	
		Copper	0.40	U	ug/L	P421431	
		Lead	0.20	U	ug/L	P421431	
		Manganese	15.5		ug/L	P421431	
		Molybdenum	0.15	U	ug/L	P421431	
		Nickel	0.50	U	ug/L	P421431	
		Selenium	0.20	U	ug/L	P421431	
		Silver	0.010	U	ug/L	P421431	
		Thallium	0.10	U	ug/L	P421431	
	SM 2340 B-2011	Hardness	18.5		mg/L	P421431	

Ref. Method and Comment:
EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8321B: MS accuracy for Glyphosate could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P421384

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P421421

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421381

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P421431

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421431

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422162

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422166

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421794

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421862

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421575

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421604

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421605

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421429

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422072

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P421323

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P421323

Component	Result	Code	Units
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P421323

Component	Result	Code	Units
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P421323

Component	Result	Code	Units
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E
Batch ID: P421468

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P421468

Component	Result	Code	Units
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P421468

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

Reference Method: EPA 8276
Batch ID: P421468

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B
Batch ID: P421320

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	0.20	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P421320

Component	Result	Code	Units
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: P421330

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

Reference Method: EPA 8321B
Batch ID: P421445

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

Reference Method: SM 2320 B-2011
Batch ID: P421549

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

Reference Method: SM 2540 C-2015
Batch ID: P421907

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P421850

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P421550

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P421544

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

Reference Method: SM 5310 B-2011
Batch ID: P421635

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: P421384

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	92.8		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P421421

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	93.1		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421381

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P421431

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	90.8		P	85 - 115
Iron	103		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	97.9		P	85 - 115
Sodium	88.9		P	85 - 115
Strontium	102		P	85 - 115
Tin	97.9		P	85 - 115
Titanium	97.2		P	85 - 115
Vanadium	97.1		P	85 - 115
Zinc	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421431

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	104		P	85 - 115
Barium	104		P	85 - 115
Beryllium	94.6		P	85 - 115
Boron	107		P	85 - 115
Cadmium	98.4		P	85 - 115
Chromium	98.9		P	85 - 115
Cobalt	100		P	85 - 115
Copper	99.2		P	85 - 115
Lead	95.4		P	85 - 115
Manganese	99.6		P	85 - 115
Molybdenum	98.4		P	85 - 115
Nickel	99.5		P	85 - 115
Selenium	99.2		P	85 - 115
Silver	101		P	85 - 115
Thallium	100		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422162

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422166

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421794

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421862

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421575

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421604

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421605

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: P421429

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422072

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P421323

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	91.4		P	69 - 123
Alachlor	86.4		P	65 - 118
Ametryn	91.9		P	58 - 141
Atrazine	99.8		P	73 - 118
Atrazine Desethyl	67.4		P	32 - 125
Azinphos Methyl	145		P	36 - 197
Azoxystrobin	113		P	58 - 226
Bromacil	89.4		P	48 - 120
Butylate	72.4		P	27 - 85.0
Caffeine	79.8		P	40 - 137
Carbophenothion	88.7		P	54 - 132
Carfentrazone Ethyl	95.6		P	60 - 142
Chlorfenapyr	80.7		P	53 - 117
Chlorpyrifos Ethyl	92.5		P	59 - 116
Chlorpyrifos Methyl	78.4		P	66 - 119
Coumaphos	108		P	11 - 234
Cyanazine	93.1		P	61 - 248
Cyprodinil	77.9		P	50 - 147
Demeton	82.9		P	30 - 138
Diazinon	92.6		P	67 - 126
Difenoconazole	101		P	38 - 205
Dimethenamid	72.5		P	57 - 111
Dimethomorph	134		P	16 - 212
Disulfoton	73.0		P	46 - 126
Dithiopyr	84.3		P	62 - 115
EPTC	57.1		P	28 - 80.0
Ethion	65.8		P	24 - 122
Ethoprop	90.7		P	62 - 113
Etridiazole	65.0		P	28 - 92.0
Fenamiphos	98.2		P	57 - 128
Fenbuconazole	100		P	52 - 155
Fipronil	76.8		P	63 - 130
Fipronil Desulfinyl	80.3		P	61 - 130
Fipronil Sulfide	60.1		P	56 - 117
Fipronil Sulfone	65.1		P	52 - 118
Fluazifop-P-butyl	94.5		P	61 - 128
Fludioxonil	88.5		P	59 - 129
Flumioxazin	147		P	30 - 250
Flutolanil	91.7		P	53 - 127
Fluxapyroxad	68.2		P	42 - 132
Fonofos	72.4		P	61 - 110
Hexazinone	101		P	46 - 139
Imazalil	86.8		P	40 - 139
Iprodione	92.2		P	40 - 146
Loratadine	143		P	10 - 224
Malathion	103		P	61 - 135
Metalaxyl	80.0		P	58 - 121
Metolachlor	90.9		P	64 - 118
Metribuzin	91.8		P	45 - 245
Mevinphos	83.3		P	49 - 118
Molinate	73.1		P	42 - 92.0
Myclobutanil	86.9		P	55 - 127

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P421323

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naled	72.6		P	10 - 114
Napropamide	78.0		P	39 - 121
Norflurazon	80.8		P	55 - 129
Oxadiazon	73.5		P	54 - 115
Oxyfluorfen	117		P	64 - 139
Parathion Ethyl	103		P	70 - 111
Parathion Methyl	115		P	76 - 136
Pendimethalin	88.0		P	52 - 118
Phenytoin	41.2		P	10 - 162
Phorate	76.1		P	40 - 122
Prodiamine	50.7		P	26 - 141
Prometon	55.8		P	54 - 122
Prometryn	61.5		P	61 - 128
Pronamide	106		P	72 - 121
Propanil	118		P	45 - 144
Propargite	68.2		P	10 - 199
Propiconazole	81.5		P	56 - 127
Pyraflufen Ethyl	76.2		P	56 - 140
Pyridaben	106		P	26 - 211
Pyriproxyfen	104		P	33 - 194
Simazine	81.5		P	67 - 121
Stirophos	65.7		P	20 - 142
Sulfentrazone	76.2		P	21 - 144
Tebuconazole	48.2		P	10 - 122
Terbufos	95.8		P	60 - 129
Terbuthylazine	82.8		P	69 - 113
Thiobencarb	93.4		P	51 - 120
Triadimefon	80.9		P	56 - 114

Reference Method: EPA 8270E
Batch ID: P421468

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	51.2		P	10 - 92.0
Alpha-BHC	82.0		P	75 - 107
Alpha-Chlordane	61.1		P	50 - 108
Beta-BHC	80.6		P	36 - 138
Beta-Cyfluthrin	60.0		P	20 - 161
Bifenthrin	38.5		P	10 - 119
Chlorothalonil	94.7		P	26 - 186
Cis-Nonachlor	50.5		P	42 - 119
Cypermethrin	64.1		P	22 - 150
Dacthal	82.5		P	72 - 119
DDD-p,p'	65.6		P	45 - 107
DDE-p,p'	59.0		P	48 - 106
DDT-p,p'	59.1		P	48 - 110
Delta-BHC	90.9		P	54 - 140
Deltamethrin	55.0		P	22 - 189
Dichlobenil	82.3		P	36 - 117
Dicofol	65.9		P	46 - 155
Dieldrin	60.0		P	54 - 110
Endosulfan I	60.1		P	59 - 105

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P421468

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endosulfan II	61.6		P	51 - 118
Endosulfan Sulfate	85.5		P	57 - 121
Endrin	65.0		P	10 - 120
Endrin Aldehyde	61.7		P	34 - 118
Endrin Ketone	92.4		P	69 - 177
Esfenvalerate	39.5		P	23 - 168
Ethalfluralin	61.0		P	49 - 99.0
Fenpropathrin	53.2		P	34 - 117
Gamma-BHC	81.7		P	72 - 117
Gamma-Chlordane	54.2		P	43 - 106
Heptachlor	67.2		P	41 - 98.0
Heptachlor Epoxide	70.1		P	57 - 106
Hexachlorobenzene	68.4		P	36 - 99.0
Kepone	26.1		P	16 - 215
Lambda-Cyhalothrin	42.7		P	21 - 177
Methoprene	45.5		P	10 - 119
Methoxychlor	67.1		P	60 - 112
MGK-264	74.0		P	26 - 122
Mirex	42.6		P	10 - 169
Oxychlordane	71.3		P	43 - 105
PCB-1016	73.4		P	48 - 112
PCB-1260	72.7		P	44 - 118
Permethrin	57.1		P	24 - 148
Phenothrin	47.7		P	10 - 106
Piperonyl Butoxide	101		P	10 - 139
Prallethrin	82.8		P	17 - 109
Tau-Fluvalinate	32.1		P	13 - 131
Tetramethrin	70.0		P	10 - 132
Trans-Nonachlor	41.9		F	44 - 106
Triclosan Methyl	75.6		P	59 - 109
Trifluralin	65.3		P	44 - 101

Reference Method: EPA 8276
Batch ID: P421468

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	76.2		P	61 - 116
Toxaphene	67.7		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P421320

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	83.3		P	40 - 150
2,4,5-T	69.0		P	40 - 150
Acetaminophen	92.5		P	30 - 150
Acetamiprid	76.4		P	40 - 150
Afidopyropen	60.9		P	30 - 150
Bentazon	80.5		P	30 - 150
Benzovindiflupyr	76.1		P	40 - 150
Carbamazepine	84.6		P	40 - 150
Clothianidin	95.9		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P421320

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dinotefuran	97.9		P	40 - 150
Diuron	76.7		P	40 - 150
Fenuron	106		P	40 - 150
Fluridone	86.6		P	40 - 150
Hydrocodone	95.6		P	40 - 150
Ibuprofen	79.8		P	40 - 150
Imazapyr	108		P	40 - 150
Imidacloprid	92.3		P	40 - 150
Linuron	65.3		P	40 - 150
Mandestrobin	80.5		P	40 - 150
MCPP	83.2		P	40 - 150
Naproxen	84.0		P	40 - 150
Primidone	100		P	40 - 150
Pyraclostrobin	75.3		P	40 - 150
Silvex	66.8		P	40 - 150
Thiamethoxam	89.8		P	40 - 150
Tolfenpyrad	47.5		P	30 - 150
Triclopyr	66.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P421330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.9		P	40 - 150
AMPA	103		P	40 - 150
Endothall	95.0		P	40 - 150
Glufosinate	92.1		P	40 - 150
Glyphosate	94.6		P	40 - 150
Sucralose	92.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P421445

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	100		P	40 - 150
Aldicarb	106		P	30 - 150
Aldicarb Sulfone	109		P	40 - 150
Aldicarb Sulfoxide	99.0		P	40 - 150
Carbaryl	75.1		P	40 - 150
Carbofuran	80.5		P	40 - 150
Methiocarb	74.6		P	40 - 150
Methomyl	97.0		P	40 - 150
Oxamyl	99.8		P	40 - 150
Propoxur	71.9		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P421549

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.9		P	94 - 106

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P421907

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.4		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P421850

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.0		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P421550

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.1		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P421544

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.4		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P421635

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.4		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P421431

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364053	Calcium	99.2		P	80 - 120
2364053	Iron	104	115	P/P	80 - 120
2364053	Magnesium	104	104	P/P	80 - 120
2364053	Potassium	97.0	95.8	P/P	80 - 120
2364053	Sodium	96.0		P	80 - 120
2364053	Strontium	99.9	101	P/P	80 - 120
2364053	Tin	99.8	96.4	P/P	80 - 120
2364053	Titanium	100	96.6	P/P	80 - 120
2364053	Vanadium	101	96.2	P/P	80 - 120
2364053	Zinc	100	95.9	P/P	80 - 120
2364475	Calcium	99.4		P	80 - 120
2364475	Iron	97.6		P	80 - 120
2364475	Magnesium	97.1		P	80 - 120
2364475	Potassium	96.5		P	80 - 120
2364475	Sodium	95.5		P	80 - 120
2364475	Strontium	101		P	80 - 120
2364475	Tin	96.6		P	80 - 120
2364475	Titanium	92.9		P	80 - 120
2364475	Vanadium	97.4		P	80 - 120
2364475	Zinc	94.7		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421431

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364053	Aluminum	102	99.5	P/P	80 - 120
2364053	Antimony	105	104	P/P	80 - 120
2364053	Arsenic	105	104	P/P	80 - 120
2364053	Barium	106	105	P/P	80 - 120
2364053	Beryllium	95.1	94.7	P/P	80 - 120
2364053	Boron	108	106	P/P	80 - 120
2364053	Cadmium	103	100	P/P	80 - 120
2364053	Chromium	81.2	80.0	P/F	80 - 120
2364053	Cobalt	101	99.7	P/P	80 - 120
2364053	Copper	103	103	P/P	80 - 120
2364053	Lead	96.7	94.6	P/P	80 - 120
2364053	Manganese	101	98.4	P/P	80 - 120
2364053	Molybdenum	95.6	93.5	P/P	80 - 120
2364053	Nickel	86.2	86.3	P/P	80 - 120
2364053	Selenium	101	98.5	P/P	80 - 120
2364053	Silver	101	99.7	P/P	80 - 120
2364053	Thallium	101	100	P/P	80 - 120
2364475	Aluminum	100		P	80 - 120
2364475	Antimony	106		P	80 - 120
2364475	Arsenic	104		P	80 - 120
2364475	Barium	105		P	80 - 120
2364475	Beryllium	97.9		P	80 - 120
2364475	Boron	107		P	80 - 120
2364475	Cadmium	105		P	80 - 120
2364475	Chromium	101		P	80 - 120
2364475	Cobalt	101		P	80 - 120
2364475	Copper	103		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421431

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364475	Lead	97.3		P	80 - 120
2364475	Manganese	100		P	80 - 120
2364475	Molybdenum	101		P	80 - 120
2364475	Nickel	101		P	80 - 120
2364475	Selenium	99.3		P	80 - 120
2364475	Silver	103		P	80 - 120
2364475	Thallium	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422162

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364434	Chloride	97.7		P	90 - 110
2364737	Chloride	99.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422166

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364434	Sulfate	100		P	90 - 110
2364737	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421794

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364438	Ammonia-N	101	99.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421862

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364437	Ammonia-N	96.8	96.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421575

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364436	Kjeldahl Nitrogen	109	99.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364315	NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421605

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364438	NO2NO3-N	98.5	99.5	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364334	Total-P	106	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422072

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366154	Total-P	107	106	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P421323

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364007	Acetochlor	90.0	84.9	P/P	67 - 124
2364007	Alachlor	83.1	94.0	P/P	60 - 120
2364007	Ametryn	99.8	110	P/P	54 - 216
2364007	Atrazine Desethyl	67.3	62.2	P/P	15 - 122
2364007	Azinphos Methyl	110	107	P/P	40 - 292
2364007	Azoxystrobin	127	118	P/P	35 - 220
2364007	Bromacil	88.8	86.4	P/P	45 - 127
2364007	Butylate	54.1	57.2	P/P	20 - 83.0
2364007	Carbophenothion	76.3	66.4	P/P	57 - 127
2364007	Carfentrazone Ethyl	81.5	75.0	P/P	51 - 141
2364007	Chlorfenapyr	56.5	53.5	P/P	46 - 111
2364007	Chlorpyrifos Ethyl	60.2	72.2	P/P	52 - 120
2364007	Chlorpyrifos Methyl	84.6	92.2	P/P	63 - 119
2364007	Coumaphos	68.3	57.2	P/P	10 - 228
2364007	Cyanazine	96.7	82.8	P/P	59 - 241
2364007	Cyprodinil	59.5	59.3	P/P	47 - 146
2364007	Demeton	97.0	93.9	P/P	40 - 136
2364007	Diazinon	93.8	89.3	P/P	69 - 132
2364007	Difenoconazole	91.2	83.0	P/P	57 - 258
2364007	Dimethenamid	76.5	69.6	P/P	54 - 110
2364007	Dimethomorph	146	140	P/P	28 - 210
2364007	Disulfoton	79.7	72.7	P/P	43 - 133
2364007	Dithiopyr	71.1	74.8	P/P	39 - 116
2364007	EPTC	45.8	40.5	P/P	20 - 78.0
2364007	Ethion	70.8	48.3	P/P	17 - 119
2364007	Ethoprop	98.1	87.6	P/P	66 - 120
2364007	Etridiazole	67.3	65.6	P/P	28 - 96.0
2364007	Fenamiphos	47.9	57.4	P/P	41 - 126
2364007	Fenbuconazole	83.1	72.0	P/P	42 - 169
2364007	Fipronil	48.9	70.0	F/P	61 - 132
2364007	Fipronil Desulfinyl	66.6	84.1	P/P	56 - 132
2364007	Fipronil Sulfide	13.1	16.7	F/F	48 - 119
2364007	Fluazifop-P-butyl	77.6	70.3	P/P	53 - 131
2364007	Fludioxonil	78.7	77.6	P/P	56 - 127
2364007	Flumioxazin	112	100	P/P	19 - 300
2364007	Flutolanil	69.1	70.7	P/P	41 - 127
2364007	Fluxapyroxad	64.5	52.8	P/P	42 - 172
2364007	Fonofos	59.2	64.1	P/P	59 - 113
2364007	Hexazinone	117	105	P/P	66 - 122
2364007	Imazalil	65.0	97.5	P/P	21 - 283

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P421323

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364007	Iprodione	78.4	67.3	P/P	43 - 150
2364007	Loratadine	140	142	P/P	23 - 201
2364007	Malathion	84.6	84.4	P/P	58 - 136
2364007	Metalaxyl	77.8	74.8	P/P	55 - 120
2364007	Metolachlor	83.7	82.0	P/P	57 - 121
2364007	Metribuzin	115	109	P/P	58 - 294
2364007	Mevinphos	86.8	80.4	P/P	50 - 126
2364007	Molinate	62.2	64.2	P/P	42 - 93.0
2364007	Myclobutanil	89.4	89.2	P/P	55 - 125
2364007	Napropamide	62.5	59.1	P/P	39 - 110
2364007	Norflurazon	72.0	66.2	P/P	48 - 128
2364007	Oxadiazon	57.1	57.6	P/P	43 - 112
2364007	Oxyfluorfen	110	115	P/P	64 - 153
2364007	Parathion Ethyl	95.7	90.0	P/P	69 - 114
2364007	Parathion Methyl	120	113	P/P	79 - 139
2364007	Pendimethalin	76.6	65.7	P/P	50 - 139
2364007	Phenytoin	41.2	32.5	P/P	10 - 146
2364007	Phorate	65.3	59.1	P/P	54 - 161
2364007	Prodiamine	49.1	43.3	P/P	30 - 161
2364007	Prometon	96.3	85.3	P/P	45 - 134
2364007	Prometryn	61.9	64.3	P/P	45 - 137
2364007	Pronamide	103	104	P/P	65 - 133
2364007	Propanil	125	124	P/P	49 - 142
2364007	Propargite	71.0	52.2	P/P	10 - 203
2364007	Propiconazole	76.9	70.9	P/P	38 - 146
2364007	Pyraflufen Ethyl	63.9	59.5	P/P	34 - 153
2364007	Pyridaben	76.5	77.7	P/P	12 - 192
2364007	Pyriproxyfen	91.3	79.6	P/P	33 - 180
2364007	Simazine	99.6	88.3	P/P	51 - 157
2364007	Stirophos	61.2	49.3	P/P	10 - 128
2364007	Tebuconazole	55.7	36.4	P/P	10 - 133
2364007	Terbufos	85.6	83.2	P/P	65 - 139
2364007	Terbuthylazine	94.2	82.8	P/P	66 - 117
2364007	Thiobencarb	83.3	83.2	P/P	51 - 119
2364007	Triadimefon	80.5	80.3	P/P	48 - 119

Reference Method: EPA 8270E
Batch ID: P421468

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364466	PCB-1016	57.9	60.0	P/P	46 - 111
2364466	PCB-1260	57.0	57.7	P/P	45 - 114
2364468	Aldrin	67.9	69.8	P/P	20 - 82.0
2364468	Alpha-BHC	89.0	87.8	P/P	71 - 109
2364468	Alpha-Chlordane	58.8	48.8	P/P	42 - 106
2364468	Beta-BHC	99.4	97.7	P/P	69 - 180
2364468	Beta-Cyfluthrin	134	131	P/P	18 - 175
2364468	Bifenthrin	76.5	73.5	P/P	21 - 128
2364468	Chlorothalonil	124	126	P/P	10 - 300
2364468	Cis-Nonachlor	61.6	69.1	P/P	34 - 106
2364468	Cypermethrin	113	94.1	P/P	22 - 158
2364468	Dacthal	90.1	80.1	P/P	54 - 116

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P421468

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364468	DDD-p,p'	87.6	85.5	P/P	34 - 107
2364468	DDE-p,p'	63.3	62.7	P/P	33 - 110
2364468	DDT-p,p'	66.1	63.5	P/P	50 - 122
2364468	Delta-BHC	117	118	P/P	77 - 193
2364468	Deltamethrin	119	124	P/P	10 - 195
2364468	Dichlobenil	89.9	88.4	P/P	25 - 113
2364468	Dicofol	71.3	75.6	P/P	38 - 247
2364468	Dieldrin	65.4	65.8	P/P	45 - 118
2364468	Endosulfan I	70.2	69.8	P/P	51 - 106
2364468	Endosulfan II	45.8	37.4	P/P	37 - 122
2364468	Endosulfan Sulfate	115	105	P/P	43 - 132
2364468	Endrin	76.4	66.8	P/P	29 - 101
2364468	Endrin Aldehyde	92.1	90.5	P/P	19 - 110
2364468	Endrin Ketone	103	108	P/P	60 - 140
2364468	Esfenvalerate	90.0	83.7	P/P	26 - 199
2364468	Ethalfluralin	67.4	57.9	P/P	45 - 99.0
2364468	Fenpropathrin	89.4	87.6	P/P	35 - 120
2364468	Gamma-BHC	98.0	95.7	P/P	63 - 128
2364468	Gamma-Chlordane	71.7	65.3	P/P	40 - 104
2364468	Heptachlor	60.9	56.5	P/P	36 - 97.0
2364468	Heptachlor Epoxide	86.6	87.4	P/P	49 - 184
2364468	Hexachlorobenzene	67.8	67.5	P/P	39 - 96.0
2364468	Kepone	32.4	29.2	P/P	10 - 217
2364468	Lambda-Cyhalothrin	80.0	71.6	P/P	21 - 193
2364468	Methoprene	74.9	68.2	P/P	20 - 106
2364468	Methoxychlor	82.9	86.6	P/P	53 - 118
2364468	MGK-264	97.3	99.1	P/P	40 - 118
2364468	Mirex	55.2	55.1	P/P	26 - 92.0
2364468	Oxychlordane	66.4	56.5	P/P	44 - 99.0
2364468	Permethrin	113	116	P/P	33 - 182
2364468	Phenothrin	86.6	82.3	P/P	10 - 129
2364468	Piperonyl Butoxide	124	129	P/P	10 - 211
2364468	Prallethrin	94.9	77.3	P/P	24 - 113
2364468	Tau-Fluvalinate	86.0	85.3	P/P	14 - 149
2364468	Tetramethrin	105	103	P/P	17 - 151
2364468	Trans-Nonachlor	54.0	46.4	P/P	42 - 102
2364468	Triclosan Methyl	85.7	83.4	P/P	48 - 108
2364468	Trifluralin	67.6	61.7	P/P	47 - 96.0

Reference Method: EPA 8276
Batch ID: P421468

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364466	Chlordane	65.7	67.3	P/P	53 - 126
2364466	Toxaphene	60.2	62.3	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P421320

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364461	2,4-D	81.2	101	P/P	40 - 150
2364461	2,4,5-T	58.7	62.9	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P421320

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364461	Acetaminophen	102	100	P/P	30 - 150
2364461	Acetamiprid	66.9	82.8	P/P	40 - 150
2364461	Afidopyropen	48.4	61.6	P/P	30 - 150
2364461	Benzovindiflupyr	79.0	83.1	P/P	40 - 150
2364461	Carbamazepine	80.6	85.0	P/P	40 - 150
2364461	Clothianidin	118	109	P/P	40 - 150
2364461	Dinotefuran	111	113	P/P	40 - 150
2364461	Diuron	65.7	68.3	P/P	40 - 150
2364461	Fenuron	103	102	P/P	40 - 150
2364461	Fluridone	85.2	85.7	P/P	40 - 150
2364461	Hydrocodone	107	104	P/P	40 - 150
2364461	Ibuprofen	79.7	79.3	P/P	40 - 150
2364461	Imazapyr	117	113	P/P	40 - 150
2364461	Imidacloprid	131	132	P/P	40 - 150
2364461	Linuron	61.8	60.7	P/P	40 - 150
2364461	Mandestrobin	74.6	78.7	P/P	40 - 150
2364461	MCPP	73.7	82.9	P/P	40 - 150
2364461	Naproxen	70.5	63.5	P/P	40 - 150
2364461	Primidone	108	109	P/P	40 - 150
2364461	Pyraclostrobin	79.9	80.7	P/P	40 - 150
2364461	Silvex	61.9	68.1	P/P	40 - 150
2364461	Thiamethoxam	119	114	P/P	40 - 150
2364461	Tolfenpyrad	50.1	54.5	P/P	30 - 150
2364461	Triclopyr	58.0	67.4	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P421330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364287	Acesulfame K	98.5	79.2	P/P	40 - 150
2364287	AMPA	55.5	61.8	P/P	40 - 150
2364287	Endothall	171	172	F/F	40 - 150
2364287	Glufosinate	70.4	70.0	P/P	40 - 150
2364287	Sucralose	80.1	84.6	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P421445

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364462	3-Hydroxycarbofuran	91.5	113	P/P	40 - 150
2364462	Aldicarb	56.4	77.2	P/P	30 - 150
2364462	Aldicarb Sulfone	107	120	P/P	40 - 150
2364462	Aldicarb Sulfoxide	49.5	65.8	P/P	40 - 150
2364462	Carbaryl	67.8	70.9	P/P	40 - 150
2364462	Carbofuran	72.4	78.3	P/P	40 - 150
2364462	Methiocarb	67.4	75.6	P/P	40 - 150
2364462	Methomyl	85.1	104	P/P	40 - 150
2364462	Oxamyl	91.6	115	P/P	40 - 150
2364462	Propoxur	64.8	65.0	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P421550

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364738	Fluoride	98.1	97.3	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P421544

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364275	Organic Carbon	99.6		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P421635

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364648	Organic Carbon	96.8	95.1	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P421384

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364486	Color (true)	4.68	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P421421

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364434	Color (true)	5.09	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364430	Turbidity	3.49	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P421431

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364053	Calcium	0.830	Spike	P	0 - 20
2364053	Iron	9.94	Spike	P	0 - 20
2364053	Magnesium	0.623	Spike	P	0 - 20
2364053	Potassium	0.873	Spike	P	0 - 20
2364053	Sodium	0.0307	Spike	P	0 - 20
2364053	Strontium	1.28	Spike	P	0 - 20
2364053	Tin	3.41	Spike	P	0 - 20
2364053	Titanium	3.94	Spike	P	0 - 20
2364053	Vanadium	4.36	Spike	P	0 - 20
2364053	Zinc	4.60	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421431

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364053	Aluminum	1.95	Spike	P	0 - 20
2364053	Antimony	0.781	Spike	P	0 - 20
2364053	Arsenic	0.878	Spike	P	0 - 20
2364053	Barium	0.499	Spike	P	0 - 20
2364053	Beryllium	0.337	Spike	P	0 - 20
2364053	Boron	2.15	Spike	P	0 - 20
2364053	Cadmium	2.61	Spike	P	0 - 20
2364053	Chromium	1.18	Spike	P	0 - 20
2364053	Cobalt	1.65	Spike	P	0 - 20
2364053	Copper	0.0517	Spike	P	0 - 20
2364053	Lead	2.05	Spike	P	0 - 20
2364053	Manganese	1.81	Spike	P	0 - 20
2364053	Molybdenum	2.04	Spike	P	0 - 20
2364053	Nickel	0.0258	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421431

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364053	Selenium	2.81	Spike	P	0 - 20
2364053	Silver	1.34	Spike	P	0 - 20
2364053	Thallium	0.861	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422162

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364434	Chloride	4.62	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422166

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364434	Sulfate	5.25	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421794

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364438	Ammonia-N	1.10	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364437	Ammonia-N	0.305	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421575

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364436	Kjeldahl Nitrogen	6.07	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364315	NO2NO3-N	0.487	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364438	NO2NO3-N	0.606	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364334	Total-P	0.666	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422072

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366154	Total-P	0.796	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P421323

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364007	Acetochlor	5.83	Spike	P	0 - 28
2364007	Alachlor	12.3	Spike	P	0 - 30
2364007	Ametryn	9.85	Spike	P	0 - 32
2364007	Atrazine	11.4	Spike	P	0 - 41
2364007	Atrazine Desethyl	8.02	Spike	P	0 - 36
2364007	Azinphos Methyl	2.80	Spike	P	0 - 75
2364007	Azoxystrobin	6.20	Spike	P	0 - 39
2364007	Bromacil	2.70	Spike	P	0 - 33
2364007	Butylate	5.58	Spike	P	0 - 44
2364007	Caffeine	1.01	Spike	P	0 - 74
2364007	Carbophenothion	13.8	Spike	P	0 - 25
2364007	Carfentrazone Ethyl	8.28	Spike	P	0 - 27
2364007	Chlorfenapyr	5.52	Spike	P	0 - 24
2364007	Chlorpyrifos Ethyl	18.2	Spike	P	0 - 26
2364007	Chlorpyrifos Methyl	8.56	Spike	P	0 - 26
2364007	Coumaphos	17.7	Spike	P	0 - 28
2364007	Cyanazine	15.6	Spike	P	0 - 48
2364007	Cyprodinil	0.341	Spike	P	0 - 29
2364007	Demeton	3.26	Spike	P	0 - 33
2364007	Diazinon	4.95	Spike	P	0 - 29
2364007	Difenoconazole	9.38	Spike	P	0 - 34
2364007	Dimethenamid	9.38	Spike	P	0 - 39
2364007	Dimethomorph	4.58	Spike	P	0 - 51
2364007	Disulfoton	9.13	Spike	P	0 - 30
2364007	Dithiopyr	5.08	Spike	P	0 - 26
2364007	EPTC	12.2	Spike	P	0 - 43
2364007	Ethion	37.8	Spike	P	0 - 79
2364007	Ethoprop	11.3	Spike	P	0 - 29
2364007	Etridiazole	2.66	Spike	P	0 - 33
2364007	Fenamiphos	18.1	Spike	P	0 - 40

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P421323

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364007	Fenbuconazole	14.3	Spike	P	0 - 74
2364007	Fipronil	24.5	Spike	P	0 - 29
2364007	Fipronil Desulfinyl	14.6	Spike	P	0 - 32
2364007	Fipronil Sulfide	7.13	Spike	P	0 - 30
2364007	Fipronil Sulfone	11.2	Spike	P	0 - 33
2364007	Fluazifop-P-butyl	9.96	Spike	P	0 - 38
2364007	Fludioxonil	1.47	Spike	P	0 - 29
2364007	Flumioxazin	11.5	Spike	P	0 - 51
2364007	Flutolanil	1.81	Spike	P	0 - 25
2364007	Fluxapyroxad	11.9	Spike	P	0 - 45
2364007	Fonofos	7.83	Spike	P	0 - 27
2364007	Hexazinone	9.98	Spike	P	0 - 30
2364007	Imazalil	40.0	Spike	P	0 - 100
2364007	Iprodione	15.2	Spike	P	0 - 33
2364007	Loratadine	1.44	Spike	P	0 - 56
2364007	Malathion	0.206	Spike	P	0 - 37
2364007	Metalaxyl	3.85	Spike	P	0 - 40
2364007	Metolachlor	1.95	Spike	P	0 - 29
2364007	Metribuzin	5.20	Spike	P	0 - 45
2364007	Mevinphos	7.58	Spike	P	0 - 29
2364007	Molinate	3.09	Spike	P	0 - 33
2364007	Myclobutanil	0.179	Spike	P	0 - 26
2364007	Naled	4.23	Spike	P	0 - 37
2364007	Napropamide	5.74	Spike	P	0 - 44
2364007	Norflurazon	8.44	Spike	P	0 - 30
2364007	Oxadiazon	0.429	Spike	P	0 - 28
2364007	Oxyfluorfen	4.28	Spike	P	0 - 28
2364007	Parathion Ethyl	6.15	Spike	P	0 - 31
2364007	Parathion Methyl	6.54	Spike	P	0 - 29
2364007	Pendimethalin	15.4	Spike	P	0 - 33
2364007	Phenytoin	23.5	Spike	P	0 - 100
2364007	Phorate	9.90	Spike	P	0 - 36
2364007	Prodiamine	12.6	Spike	P	0 - 71
2364007	Prometon	12.2	Spike	P	0 - 36
2364007	Prometryn	3.86	Spike	P	0 - 28
2364007	Pronamide	0.463	Spike	P	0 - 24
2364007	Propanil	0.656	Spike	P	0 - 28
2364007	Propargite	30.6	Spike	P	0 - 43
2364007	Propiconazole	8.08	Spike	P	0 - 33
2364007	Pyraflufen Ethyl	7.13	Spike	P	0 - 29
2364007	Pyridaben	1.52	Spike	P	0 - 30
2364007	Pyriproxyfen	13.8	Spike	P	0 - 79
2364007	Simazine	7.59	Spike	P	0 - 29
2364007	Stirophos	21.5	Spike	P	0 - 61
2364007	Sulfentrazone	1.42	Spike	P	0 - 33
2364007	Tebuconazole	41.9	Spike	P	0 - 69
2364007	Terbufos	2.85	Spike	P	0 - 29
2364007	Terbuthylazine	12.9	Spike	P	0 - 32
2364007	Thiobencarb	0.150	Spike	P	0 - 26
2364007	Triadimefon	0.308	Spike	P	0 - 28

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P421468

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364466	PCB-1016	3.64	Spike	P	0 - 32
2364466	PCB-1260	1.22	Spike	P	0 - 31
2364468	Aldrin	2.89	Spike	P	0 - 41
2364468	Alpha-BHC	1.47	Spike	P	0 - 25
2364468	Alpha-Chlordane	18.5	Spike	P	0 - 33
2364468	Beta-BHC	1.71	Spike	P	0 - 36
2364468	Beta-Cyfluthrin	2.56	Spike	P	0 - 42
2364468	Bifenthrin	3.89	Spike	P	0 - 53
2364468	Chlorothalonil	1.43	Spike	P	0 - 71
2364468	Cis-Nonachlor	11.5	Spike	P	0 - 29
2364468	Cypermethrin	18.0	Spike	P	0 - 40
2364468	Dacthal	11.8	Spike	P	0 - 26
2364468	DDD-p,p'	2.40	Spike	P	0 - 39
2364468	DDE-p,p'	0.920	Spike	P	0 - 33
2364468	DDT-p,p'	4.00	Spike	P	0 - 40
2364468	Delta-BHC	0.732	Spike	P	0 - 37
2364468	Deltamethrin	4.28	Spike	P	0 - 100
2364468	Dichlobenil	1.69	Spike	P	0 - 40
2364468	Dicofol	5.88	Spike	P	0 - 31
2364468	Dieldrin	0.627	Spike	P	0 - 27
2364468	Endosulfan I	0.595	Spike	P	0 - 23
2364468	Endosulfan II	20.0	Spike	P	0 - 28
2364468	Endosulfan Sulfate	9.73	Spike	P	0 - 38
2364468	Endrin	13.4	Spike	P	0 - 63
2364468	Endrin Aldehyde	1.72	Spike	P	0 - 60
2364468	Endrin Ketone	4.70	Spike	P	0 - 37
2364468	Esfenvalerate	7.17	Spike	P	0 - 52
2364468	Ethalfluralin	15.1	Spike	P	0 - 23
2364468	Fenpropathrin	2.00	Spike	P	0 - 32
2364468	Gamma-BHC	2.38	Spike	P	0 - 17
2364468	Gamma-Chlordane	9.37	Spike	P	0 - 40
2364468	Heptachlor	7.43	Spike	P	0 - 29
2364468	Heptachlor Epoxide	0.911	Spike	P	0 - 25
2364468	Hexachlorobenzene	0.491	Spike	P	0 - 36
2364468	Kepone	10.1	Spike	P	0 - 93
2364468	Lambda-Cyhalothrin	11.0	Spike	P	0 - 55
2364468	Methoprene	9.37	Spike	P	0 - 53
2364468	Methoxychlor	4.28	Spike	P	0 - 29
2364468	MGK-264	1.87	Spike	P	0 - 35
2364468	Mirex	0.258	Spike	P	0 - 46
2364468	Oxychlordane	16.2	Spike	P	0 - 29
2364468	Permethrin	2.48	Spike	P	0 - 44
2364468	Phenothrin	5.10	Spike	P	0 - 56
2364468	Piperonyl Butoxide	4.24	Spike	P	0 - 100
2364468	Prallethrin	20.5	Spike	P	0 - 42
2364468	Tau-Fluvalinate	0.717	Spike	P	0 - 54
2364468	Tetramethrin	1.89	Spike	P	0 - 51
2364468	Trans-Nonachlor	15.3	Spike	P	0 - 37
2364468	Triclosan Methyl	2.73	Spike	P	0 - 31
2364468	Trifluralin	9.03	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8276
Batch ID: P421468

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364466	Chlordane	2.45	Spike	P	0 - 25
2364466	Toxaphene	3.41	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P421320

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364461	2,4-D	21.4	Spike	P	0 - 30
2364461	2,4,5-T	6.85	Spike	P	0 - 30
2364461	Acetaminophen	1.30	Spike	P	0 - 30
2364461	Acetamiprid	21.3	Spike	P	0 - 30
2364461	Afidopyropen	24.0	Spike	P	0 - 30
2364461	Bentazon	9.50	Spike	P	0 - 30
2364461	Benzovindiflupyr	5.04	Spike	P	0 - 30
2364461	Carbamazepine	5.42	Spike	P	0 - 30
2364461	Clothianidin	8.06	Spike	P	0 - 30
2364461	Dinotefuran	1.44	Spike	P	0 - 30
2364461	Diuron	3.03	Spike	P	0 - 30
2364461	Fenuron	1.36	Spike	P	0 - 30
2364461	Fluridone	0.493	Spike	P	0 - 30
2364461	Hydrocodone	2.66	Spike	P	0 - 30
2364461	Ibuprofen	0.480	Spike	P	0 - 30
2364461	Imazapyr	2.66	Spike	P	0 - 30
2364461	Imidacloprid	0.477	Spike	P	0 - 30
2364461	Linuron	1.76	Spike	P	0 - 30
2364461	Mandestrobin	5.40	Spike	P	0 - 30
2364461	MCPP	11.7	Spike	P	0 - 30
2364461	Naproxen	10.5	Spike	P	0 - 30
2364461	Primidone	1.33	Spike	P	0 - 30
2364461	Pyraclostrobin	0.999	Spike	P	0 - 30
2364461	Silvex	9.48	Spike	P	0 - 30
2364461	Thiamethoxam	4.85	Spike	P	0 - 30
2364461	Tolfenpyrad	8.37	Spike	P	0 - 30
2364461	Triclopyr	15.0	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P421330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364287	Acesulfame K	21.7	Spike	P	0 - 30
2364287	AMPA	7.39	Spike	P	0 - 30
2364287	Endothall	0.471	Spike	P	0 - 30
2364287	Glufosinate	0.658	Spike	P	0 - 30
2364287	Glyphosate	2.68	Spike	P	0 - 30
2364287	Sucralose	0.696	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P421445

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364462	3-Hydroxycarbofuran	21.2	Spike	P	0 - 30
2364462	Aldicarb	31.1	Spike	F	0 - 30
2364462	Aldicarb Sulfone	11.3	Spike	P	0 - 30
2364462	Aldicarb Sulfoxide	28.2	Spike	P	0 - 30
2364462	Carbaryl	4.45	Spike	P	0 - 30
2364462	Carbofuran	7.86	Spike	P	0 - 30
2364462	Methiocarb	11.4	Spike	P	0 - 30
2364462	Methomyl	20.0	Spike	P	0 - 30
2364462	Oxamyl	22.6	Spike	P	0 - 30
2364462	Propoxur	0.297	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P421549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364738	Total Alkalinity	2.82	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P421907

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364122	TDS	7.28	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P421550

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364738	Fluoride	0.490	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P421544

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364275	Organic Carbon	0.645	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P421635

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364648	Organic Carbon	1.06	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2364458
Field Sample ID: G1TLHR0171

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	116	P	30 - 160
EPA 8321B	Acetaminophen-d4	111	P	30 - 160
EPA 8321B	Carbamazepine-d10	87.9	P	30 - 160
EPA 8321B	Diuron-d6	81.8	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	103	P	30 - 160
EPA 8321B	Ibuprofen-d3	87.7	P	30 - 160
EPA 8321B	Primidone-d5	114	P	30 - 160
EPA 8321B	Sucralose-d6	90.7	P	30 - 160

Lab Sample ID: 2364459
Field Sample ID: G1TLHR0160

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	108	P	30 - 160
EPA 8321B	Carbamazepine-d10	73.5	P	30 - 160
EPA 8321B	Diuron-d6	65.4	P	30 - 160
EPA 8321B	Endothall-d6	122	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	112	P	30 - 160
EPA 8321B	Ibuprofen-d3	78.7	P	30 - 160
EPA 8321B	Primidone-d5	101	P	30 - 160
EPA 8321B	Sucralose-d6	92.4	P	30 - 160

Lab Sample ID: 2364460
Field Sample ID: G1TLHR0165

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	114	P	30 - 160
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	83.7	P	30 - 160
EPA 8321B	Diuron-d6	78.8	P	30 - 160
EPA 8321B	Endothall-d6	99.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	81.7	P	30 - 160
EPA 8321B	Primidone-d5	74.9	P	30 - 160
EPA 8321B	Sucralose-d6	90.8	P	30 - 160

Lab Sample ID: 2364461
Field Sample ID: G1TLHR0161

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	94.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	105	P	30 - 160
EPA 8321B	Carbamazepine-d10	79.2	P	30 - 160
EPA 8321B	Diuron-d6	73.7	P	30 - 160
EPA 8321B	Endothall-d6	104	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	109	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.9	P	30 - 160
EPA 8321B	Primidone-d5	100	P	30 - 160
EPA 8321B	Sucralose-d6	89.6	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2364462
Field Sample ID: G1TLHR0162

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

Lab Sample ID: 2364463
Field Sample ID: G1TLHR0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	97.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.8	P	30 - 160
EPA 8321B	Diuron-d6	71.7	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	100	P	30 - 160
EPA 8321B	Ibuprofen-d3	73.1	P	30 - 160
EPA 8321B	Primidone-d5	99.2	P	30 - 160
EPA 8321B	Sucralose-d6	90.9	P	30 - 160

Lab Sample ID: 2364464
Field Sample ID: G1TLHR0164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	70.5	P	30 - 160

Lab Sample ID: 2364465
Field Sample ID: G1TLHR0164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	99.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	103	P	30 - 160
EPA 8321B	Carbamazepine-d10	84.5	P	30 - 160
EPA 8321B	Diuron-d6	80.9	P	30 - 160
EPA 8321B	Endothall-d6	95.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	87.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.6	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	91.1	P	30 - 160

Lab Sample ID: 2364466
Field Sample ID: G1TLHR0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	95.2	P	29 - 130
EPA 8270E	Decachlorobiphenyl	55.1	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	62.4	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	59.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	43.9	P	30 - 101
EPA 8276	PCNB	79.9	P	48 - 121

Lab Sample ID: 2364467
Field Sample ID: G1TLHR0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	54.2	P	20 - 200

Quality Assurance Report
Surrogates

Lab Sample ID: 2364467
Field Sample ID: G1TLHR0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	96.4	P	62 - 142
EPA 8270E	Terbufos-d10	81.4	P	58 - 132

Lab Sample ID: 2364468
Field Sample ID: G1TLHR0164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	62.2	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	58.9	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	44.0	P	30 - 101
EPA 8276	PCNB	84.5	P	48 - 121

Lab Sample ID: 2364469
Field Sample ID: G1TLHR0164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	55.1	P	20 - 200
EPA 8270E	Simazine-d10	96.0	P	62 - 142
EPA 8270E	Terbufos-d10	77.5	P	58 - 132

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A115505
Included Lab Sample IDs: 2364430, 2364433, 2364434, 2364435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	98.0	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1
Run ID: A115506
Included Lab Sample IDs: 2364430, 2364433, 2364435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	92.6	94.8	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A115522
Included Lab Sample IDs: 2364434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	92.8	94.4	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A115529
Included Lab Sample IDs: 2364458, 2364459, 2364460, 2364461, 2364463, 2364465

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	103	96.2	P/P	60 - 160
AMPA	97.4	103	P/P	60 - 160
Endothall	101	108	P/P	60 - 160
Endothall	99.6	101	P/P	60 - 160
Glufosinate	85.8	96.0	P/P	60 - 160
Glufosinate	96.0	75.4	P/P	60 - 160
Glyphosate	97.4	97.0	P/P	60 - 160
Glyphosate	97.5	97.4	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A115534
Included Lab Sample IDs: 2364458, 2364459, 2364460, 2364461, 2364463, 2364465

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	100	97.2	P/P	50 - 150
2,4-D	97.2	96.4	P/P	50 - 150
2,4,5-T	102	94.3	P/P	50 - 150
2,4,5-T	106	102	P/P	50 - 150
Acetaminophen	106	106	P/P	60 - 160
Acetaminophen	109	106	P/P	60 - 160
Acetamiprid	104	65.8	P/P	50 - 150
Acetamiprid	110	99.8	P/P	50 - 150
Acetamiprid	94.1	110	P/P	50 - 150
Afidopyropen	104	105	P/P	50 - 150
Afidopyropen	99.6	104	P/P	50 - 150
Bentazon	98.2	99.8	P/P	50 - 160
Bentazon	98.5	98.8	P/P	50 - 160
Bentazon	99.8	98.6	P/P	50 - 160
Benzovindiflupyr	107	106	P/P	50 - 150
Benzovindiflupyr	108	107	P/P	50 - 150

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Calibration Verification

Reference Method: EPA 8321B
Run ID: A115534
Included Lab Sample IDs: 2364458, 2364459, 2364460, 2364461, 2364463, 2364465

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbamazepine	112	117	P/P	60 - 150
Carbamazepine	114	112	P/P	60 - 150
Clothianidin	101	109	P/P	60 - 150
Clothianidin	109	111	P/P	60 - 150
Dinotefuran	115	113	P/P	50 - 150
Dinotefuran	117	115	P/P	50 - 150
Diuron	103	113	P/P	60 - 160
Diuron	110	103	P/P	60 - 160
Fenuron	110	110	P/P	60 - 150
Fenuron	110	110	P/P	60 - 150
Fluridone	102	105	P/P	60 - 160
Fluridone	103	102	P/P	60 - 160
Hydrocodone	109	116	P/P	60 - 150
Hydrocodone	116	110	P/P	60 - 150
Ibuprofen	102	76.9	P/P	50 - 160
Ibuprofen	117	102	P/P	50 - 160
Imazapyr	116	124	P/P	50 - 150
Imazapyr	124	119	P/P	50 - 150
Imidacloprid	94.3	99.3	P/P	60 - 150
Imidacloprid	99.3	102	P/P	60 - 150
Linuron	96.0	96.7	P/P	60 - 150
Linuron	96.7	91.4	P/P	60 - 150
Mandestrobin	103	103	P/P	50 - 150
Mandestrobin	103	101	P/P	50 - 150
MCPP	102	105	P/P	50 - 150
MCPP	105	102	P/P	50 - 150
Naproxen	120	76.7	P/P	50 - 160
Naproxen	81.1	120	P/P	50 - 160
Primidone	109	114	P/P	60 - 150
Primidone	111	109	P/P	60 - 150
Pyraclostrobin	102	104	P/P	60 - 150
Pyraclostrobin	104	106	P/P	60 - 150
Silvex	101	87.0	P/P	50 - 150
Silvex	99.9	101	P/P	50 - 150
Thiamethoxam	104	97.6	P/P	50 - 150
Thiamethoxam	97.6	96.4	P/P	50 - 150
Tolfenpyrad	104	105	P/P	60 - 150
Tolfenpyrad	105	108	P/P	60 - 150
Triclopyr	106	108	P/P	50 - 150
Triclopyr	108	98.4	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A115562
Included Lab Sample IDs: 2364436, 2364437, 2364438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	97.8	P/P	90 - 110

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Reference Method: EPA 8321B
Run ID: A115569
Included Lab Sample IDs: 2364458, 2364459, 2364460, 2364461, 2364463, 2364465

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	100	P/P	60 - 160
Acesulfame K	99.0	102	P/P	60 - 160
Sucralose	94.0	94.6	P/P	60 - 160
Sucralose	94.6	93.2	P/P	60 - 160

Reference Method: SM 5310 B-2011
Run ID: A115572
Included Lab Sample IDs: 2364431, 2364436, 2364437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.6	98.6	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A115574
Included Lab Sample IDs: 2364430, 2364433, 2364434, 2364435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	96.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A115574
Included Lab Sample IDs: 2364430, 2364433, 2364434, 2364435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	104	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A115584
Included Lab Sample IDs: 2364470, 2364471, 2364472, 2364473, 2364474, 2364475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	103	P/P	90 - 110
Aluminum	103	102	P/P	90 - 110
Antimony	102	103	P/P	90 - 110
Antimony	103	104	P/P	90 - 110
Arsenic	103	104	P/P	90 - 110
Arsenic	104	104	P/P	90 - 110
Barium	101	102	P/P	90 - 110
Barium	102	101	P/P	90 - 110
Beryllium	99.3	100	P/P	90 - 110
Beryllium	100	99.0	P/P	90 - 110
Boron	103	106	P/P	90 - 110
Boron	106	105	P/P	90 - 110
Cadmium	102	104	P/P	90 - 110
Cadmium	104	105	P/P	90 - 110
Chromium	97.6	98.5	P/P	90 - 110
Chromium	98.5	98.8	P/P	90 - 110
Cobalt	101	99.4	P/P	90 - 110
Cobalt	99.4	101	P/P	90 - 110
Copper	100	99.9	P/P	90 - 110
Copper	99.7	100	P/P	90 - 110

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Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A115584
Included Lab Sample IDs: 2364470, 2364471, 2364472, 2364473, 2364474, 2364475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	94.0	95.3	P/P	90 - 110
Lead	95.3	95.5	P/P	90 - 110
Manganese	97.4	97.9	P/P	90 - 110
Manganese	97.9	99.3	P/P	90 - 110
Molybdenum	100	101	P/P	90 - 110
Molybdenum	101	101	P/P	90 - 110
Nickel	100	99.0	P/P	90 - 110
Nickel	99.3	100	P/P	90 - 110
Selenium	101	102	P/P	90 - 110
Selenium	102	101	P/P	90 - 110
Silver	100	101	P/P	90 - 110
Silver	101	102	P/P	90 - 110
Thallium	101	101	P/P	90 - 110
Thallium	101	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A115597
Included Lab Sample IDs: 2364431, 2364436, 2364437, 2364438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110
NO2NO3-N	101	99.5	P/P	90 - 110
NO2NO3-N	102	101	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A115617
Included Lab Sample IDs: 2364438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.6	98.6	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A115631
Included Lab Sample IDs: 2364467, 2364469

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.7		P	80 - 120
Alachlor	98.0		P	80 - 120
Ametryn	90.3		P	80 - 120
Atrazine	97.8		P	80 - 120
Atrazine Desethyl	90.2		P	80 - 120
Azinphos Methyl	106		P	80 - 120
Azoxystrobin	104		P	80 - 120
Bromacil	99.4		P	80 - 120
Butylate	95.2		P	80 - 120
Caffeine	116		P	80 - 120
Carbophenothion	87.9		P	80 - 120
Carfentrazone Ethyl	92.8		P	80 - 120
Chlorfenapyr	95.3		P	80 - 120
Chlorpyrifos Ethyl	96.2		P	80 - 120
Chlorpyrifos Methyl	84.4		P	80 - 120

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Calibration Verification

Reference Method: EPA 8270E
Run ID: A115631
Included Lab Sample IDs: 2364467, 2364469

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Coumaphos	83.9		P	80 - 120
Cyanazine	87.9		P	80 - 120
Cyprodinil	83.3		P	80 - 120
Demeton	90.9		P	80 - 120
Diazinon	91.5		P	80 - 120
Difenoconazole	105		P	80 - 120
Dimethenamid	98.3		P	80 - 120
Dimethomorph	105		P	80 - 120
Disulfoton	80.3		P	80 - 120
Dithiopyr	93.2		P	80 - 120
EPTC	95.9		P	80 - 120
Ethion	91.7		P	80 - 120
Ethoprop	92.4		P	80 - 120
Etridiazole	98.1		P	80 - 120
Fenamiphos	95.7		P	80 - 120
Fenbuconazole	95.0		P	80 - 120
Fipronil	87.0		P	80 - 120
Fipronil Desulfinyl	92.5		P	80 - 120
Fipronil Sulfide	81.7		P	80 - 120
Fipronil Sulfone	87.8		P	80 - 120
Fluazifop-P-butyl	95.0		P	80 - 120
Fludioxonil	98.8		P	80 - 120
Flumioxazin	81.4		P	80 - 120
Flutolanil	99.8		P	80 - 120
Fluxapyroxad	81.9		P	80 - 120
Fonofos	85.2		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	103		P	80 - 120
Iprodione	82.3		P	80 - 120
Loratadine	109		P	80 - 120
Malathion	91.6		P	80 - 120
Metalaxyl	90.6		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	90.9		P	80 - 120
Molinate	96.8		P	80 - 120
Myclobutanil	98.4		P	80 - 120
Naled	93.5		P	80 - 120
Napropamide	85.4		P	80 - 120
Norflurazon	89.6		P	80 - 120
Oxadiazon	108		P	80 - 120
Oxyfluorfen	90.9		P	80 - 120
Parathion Ethyl	107		P	80 - 120
Parathion Methyl	108		P	80 - 120
Pendimethalin	99.5		P	80 - 120
Phenytoin	93.6		P	80 - 120
Phorate	80.9		P	80 - 120
Prodiamine	89.3		P	80 - 120
Prometon	95.6		P	80 - 120
Prometryn	86.8		P	80 - 120
Pronamide	99.4		P	80 - 120

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Reference Method: EPA 8270E
Run ID: A115631
Included Lab Sample IDs: 2364467, 2364469

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propanil	101		P	80 - 120
Propargite	99.7		P	80 - 120
Propiconazole	89.7		P	80 - 120
Pyraflufen Ethyl	89.0		P	80 - 120
Pyridaben	87.5		P	80 - 120
Pyriproxyfen	104		P	80 - 120
Simazine	94.1		P	80 - 120
Stirophos	86.3		P	80 - 120
Sulfentrazone	84.7		P	80 - 120
Tebuconazole	84.5		P	80 - 120
Terbufos	85.1		P	80 - 120
Terbuthylazine	84.7		P	80 - 120
Thiobencarb	110		P	80 - 120
Triadimefon	95.1		P	80 - 120

Reference Method: EPA 8321B
Run ID: A115645
Included Lab Sample IDs: 2364462, 2364464

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	113	116	P/P	60 - 150
Aldicarb	103	98.1	P/P	60 - 150
Aldicarb Sulfone	99.0	108	P/P	50 - 150
Aldicarb Sulfoxide	93.5	106	P/P	50 - 150
Carbaryl	109	103	P/P	60 - 150
Carbofuran	104	103	P/P	50 - 150
Methiocarb	105	103	P/P	50 - 150
Methomyl	97.1	110	P/P	50 - 150
Oxamyl	101	118	P/P	50 - 150
Propoxur	106	108	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A115651
Included Lab Sample IDs: 2364431, 2364436, 2364437, 2364438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	97.9	P/P	90 - 110
Kjeldahl Nitrogen	97.9	100	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A115671
Included Lab Sample IDs: 2364466

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.6		P	80 - 120
PCB-1260	99.2		P	80 - 120

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Reference Method: EPA 8270E
Run ID: A115680
Included Lab Sample IDs: 2364466, 2364468

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.7		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	106		P	80 - 120
Beta-BHC	89.6		P	80 - 120
Beta-Cyfluthrin	123*		F	80 - 120
Bifenthrin	110		P	80 - 120
Chlorothalonil	112		P	80 - 120
Cis-Nonachlor	86.7		P	80 - 120
Cypermethrin	83.4		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	119		P	80 - 120
DDE-p,p'	110		P	80 - 120
DDT-p,p'	102		P	80 - 120
Delta-BHC	107		P	80 - 120
Deltamethrin	107		P	80 - 120
Dichlobenil	108		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	110		P	80 - 120
Endosulfan I	112		P	80 - 120
Endosulfan II	90.9		P	80 - 120
Endosulfan Sulfate	105		P	80 - 120
Endrin	98.6		P	80 - 120
Endrin Aldehyde	94.6		P	80 - 120
Endrin Ketone	104		P	80 - 120
Esfenvalerate	115		P	80 - 120
Ethalfluralin	96.1		P	80 - 120
Fenpropathrin	115		P	80 - 120
Gamma-BHC	99.5		P	80 - 120
Gamma-Chlordane	103		P	80 - 120
Heptachlor	118		P	80 - 120
Heptachlor Epoxide	96.1		P	80 - 120
Hexachlorobenzene	92.5		P	80 - 120
Kepone	50.6*		F	80 - 120
Lambda-Cyhalothrin	110		P	80 - 120
Methoprene	110		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	91.8		P	80 - 120
Mirex	109		P	80 - 120
Oxychlordane	107		P	80 - 120
Permethrin	110		P	80 - 120
Phenothrin	113		P	80 - 120
Piperonyl Butoxide	105		P	80 - 120
Prallethrin	111		P	80 - 120
Tau-Fluvalinate	120*		F	80 - 120
Tetramethrin	108		P	80 - 120
Trans-Nonachlor	109		P	80 - 120
Triclosan Methyl	108		P	80 - 120
Trifluralin	98.5		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A115690
Included Lab Sample IDs: 2364438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.7	98.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A115726
Included Lab Sample IDs: 2364431, 2364436, 2364437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.6	99.9	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A115751
Included Lab Sample IDs: 2364466, 2364468

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	103		P	80 - 120
Toxaphene	106		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A115800
Included Lab Sample IDs: 2364430, 2364433, 2364434, 2364435

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.6	98.5	P/P	90 - 110
Sulfate	101	103	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A115816
Included Lab Sample IDs: 2364470, 2364471, 2364472, 2364473, 2364474, 2364475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	104	P/P	90 - 110
Iron	104	102	P/P	90 - 110
Magnesium	103	101	P/P	90 - 110
Potassium	99.9	99.0	P/P	90 - 110
Sodium	97.8	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A115830
Included Lab Sample IDs: 2364431

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.9	99.2	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A115896
Included Lab Sample IDs: 2364470, 2364471, 2364472, 2364473, 2364474, 2364475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Strontium	97.7	97.9	P/P	90 - 110
Strontium	97.9	97.6	P/P	90 - 110
Tin	97.1	97.7	P/P	90 - 110

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Reference Method: EPA 200.7 Rev. 4.4
Run ID: A115896
Included Lab Sample IDs: 2364470, 2364471, 2364472, 2364473, 2364474, 2364475

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tin	97.3	97.1	P/P	90 - 110
Titanium	95.7	95.6	P/P	90 - 110
Titanium	96.1	95.7	P/P	90 - 110
Vanadium	95.5	95.6	P/P	90 - 110
Vanadium	96.2	95.5	P/P	90 - 110
Zinc	96.5	98.5	P/P	90 - 110
Zinc	96.9	96.5	P/P	90 - 110

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision		
						LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	92.8					4.68	
	Color (true)	93.1					5.09	
EPA 180.1 Rev. 2.0	Turbidity	99.5					3.49	
EPA 200.7 Rev. 4.4	Calcium	90.8	99.2	99.4				0.830
	Iron	103	104	115	97.6			9.94
	Magnesium	103	104	104	97.1			0.623
	Potassium	97.9	97.0	95.8	96.5			0.873
	Sodium	88.9	96.0	95.5				0.0307
	Strontium	102	101	99.9	101			1.28
	Tin	97.9	99.8	96.4	96.6			3.41
	Titanium	97.2	100	96.6	92.9			3.94
	Vanadium	97.1	101	96.2	97.4			4.36
	Zinc	100	100	95.9	94.7			4.60
EPA 200.8 Rev. 5.4	Aluminum	100	102	99.5	100			1.95
	Antimony	103	105	104	106			0.781
	Arsenic	104	105	104	104			0.878
	Barium	104	106	105	105			0.499
	Beryllium	94.6	95.1	94.7	97.9			0.337
	Boron	107	108	106	107			2.15
	Cadmium	98.4	103	100	105			2.61
	Chromium	98.9	81.2	80.0	101			1.18
	Cobalt	100	101	99.7	101			1.65
	Copper	99.2	103	103	103			0.0517
	Lead	95.4	96.7	94.6	97.3			2.05
	Manganese	99.6	101	98.4	100			1.81
	Molybdenum	98.4	95.6	93.5	101			2.04
	Nickel	99.5	86.2	86.3	101			0.0258
	Selenium	99.2	101	98.5	99.3			2.81
	Silver	101	101	99.7	103			1.34
	Thallium	100	101	100	103			0.861
EPA 300.0 Rev. 2.1	Chloride	96.2	97.7	99.1			4.62	
	Sulfate	101	100	101			5.25	
EPA 350.1 Rev. 2.0	Ammonia-N	96.2	101	99.6				1.10
	Ammonia-N	99.8	96.8	96.4				0.305
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	109	99.8				6.07
EPA 353.2 Rev. 2.0	NO2NO3-N	102	102	103				0.487
	NO2NO3-N	100	98.5	99.5				0.606
EPA 365.1 Rev. 2.0	Total-P	103	106	105				0.666
	Total-P	105	107	106				0.796
EPA 8270E	Acetochlor	91.4	90.0	84.9				5.83
	Alachlor	86.4	83.1	94.0				12.3
	Aldrin	51.2	67.9	69.8				2.89
	Alpha-BHC	82.0	89.0	87.8				1.47
	Alpha-Chlordane	61.1	58.8	48.8				18.5
	Ametryn	91.9	99.8	110				9.85
	Atrazine	99.8						11.4
	Atrazine Desethyl	67.4	67.3	62.2				8.02
	Azinphos Methyl	145	110	107				2.80
	Azoxystrobin	113	127	118				6.20
	Beta-BHC	80.6	99.4	97.7				1.71
	Beta-Cyfluthrin	60.0	134	131				2.56
	Bifenthrin	38.5	76.5	73.5				3.89
	Bromacil	89.4	88.8	86.4				2.70
	Butylate	72.4	54.1	57.2				5.58

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Caffeine	79.8					1.01
	Carbophenothion	88.7	76.3	66.4			13.8
	Carfentrazone Ethyl	95.6	81.5	75.0			8.28
	Chlorfenapyr	80.7	56.5	53.5			5.52
	Chlorothalonil	94.7	124	126			1.43
	Chlorpyrifos Ethyl	92.5	60.2	72.2			18.2
	Chlorpyrifos Methyl	78.4	84.6	92.2			8.56
	Cis-Nonachlor	50.5	61.6	69.1			11.5
	Coumaphos	108	68.3	57.2			17.7
	Cyanazine	93.1	96.7	82.8			15.6
	Cypermethrin	64.1	113	94.1			18.0
	Cyprodinil	77.9	59.5	59.3			0.341
	Dacthal	82.5	90.1	80.1			11.8
	DDD-p,p'	65.6	87.6	85.5			2.40
	DDE-p,p'	59.0	63.3	62.7			0.920
	DDT-p,p'	59.1	66.1	63.5			4.00
	Delta-BHC	90.9	117	118			0.732
	Deltamethrin	55.0	119	124			4.28
	Demeton	82.9	97.0	93.9			3.26
	Diazinon	92.6	93.8	89.3			4.95
	Dichlobenil	82.3	89.9	88.4			1.69
	Dicofol	65.9	71.3	75.6			5.88
	Dieldrin	60.0	65.4	65.8			0.627
	Difenoconazole	101	91.2	83.0			9.38
	Dimethenamid	72.5	76.5	69.6			9.38
	Dimethomorph	134	146	140			4.58
	Disulfoton	73.0	79.7	72.7			9.13
	Dithiopyr	84.3	71.1	74.8			5.08
	Endosulfan I	60.1	70.2	69.8			0.595
	Endosulfan II	61.6	45.8	37.4			20.0
	Endosulfan Sulfate	85.5	115	105			9.73
	Endrin	65.0	76.4	66.8			13.4
	Endrin Aldehyde	61.7	92.1	90.5			1.72
	Endrin Ketone	92.4	103	108			4.70
	EPTC	57.1	45.8	40.5			12.2
	Esfenvalerate	39.5	90.0	83.7			7.17
	Ethalfluralin	61.0	67.4	57.9			15.1
	Ethion	65.8	70.8	48.3			37.8
	Ethoprop	90.7	98.1	87.6			11.3
	Etridiazole	65.0	67.3	65.6			2.66
	Fenamiphos	98.2	47.9	57.4			18.1
	Fenbuconazole	100	83.1	72.0			14.3
	Fenpropathrin	53.2	89.4	87.6			2.00
	Fipronil	76.8	48.9	70.0			24.5
	Fipronil Desulfinyl	80.3	66.6	84.1			14.6
	Fipronil Sulfide	60.1	13.1	16.7			7.13
	Fipronil Sulfone	65.1					11.2
	Fluazifop-P-butyl	94.5	77.6	70.3			9.96
	Fludioxonil	88.5	78.7	77.6			1.47
	Flumioxazin	147	112	100			11.5
	Flutolanil	91.7	69.1	70.7			1.81
	Fluxapyroxad	68.2	64.5	52.8			11.9
	Fonofos	72.4	59.2	64.1			7.83
	Gamma-BHC	81.7	98.0	95.7			2.38

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Gamma-Chlordane	54.2	71.7	65.3			9.37
	Heptachlor	67.2	60.9	56.5			7.43
	Heptachlor Epoxide	70.1	86.6	87.4			0.911
	Hexachlorobenzene	68.4	67.8	67.5			0.491
	Hexazinone	101	117	105			9.98
	Imazalil	86.8	65.0	97.5			40.0
	Iprodione	92.2	78.4	67.3			15.2
	Kepone	26.1	32.4	29.2			10.1
	Lambda-Cyhalothrin	42.7	80.0	71.6			11.0
	Loratadine	143	140	142			1.44
	Malathion	103	84.6	84.4			0.206
	Metalaxyl	80.0	77.8	74.8			3.85
	Methoprene	45.5	74.9	68.2			9.37
	Methoxychlor	67.1	82.9	86.6			4.28
	Metolachlor	90.9	83.7	82.0			1.95
	Metribuzin	91.8	115	109			5.20
	Mevinphos	83.3	86.8	80.4			7.58
	MGK-264	74.0	97.3	99.1			1.87
	Mirex	42.6	55.2	55.1			0.258
	Molinate	73.1	62.2	64.2			3.09
	Myclobutanil	86.9	89.4	89.2			0.179
	Naled	72.6					4.23
	Napropamide	78.0	62.5	59.1			5.74
	Norflurazon	80.8	72.0	66.2			8.44
	Oxadiazon	73.5	57.1	57.6			0.429
	Oxychlordane	71.3	66.4	56.5			16.2
	Oxyfluorfen	117	110	115			4.28
	Parathion Ethyl	103	95.7	90.0			6.15
	Parathion Methyl	115	120	113			6.54
	PCB-1016	73.4	57.9	60.0			3.64
	PCB-1260	72.7	57.0	57.7			1.22
	Pendimethalin	88.0	76.6	65.7			15.4
	Permethrin	57.1	113	116			2.48
	Phenothrin	47.7	86.6	82.3			5.10
	Phenytoin	41.2	41.2	32.5			23.5
	Phorate	76.1	65.3	59.1			9.90
	Piperonyl Butoxide	101	124	129			4.24
	Prallethrin	82.8	94.9	77.3			20.5
	Prodiamine	50.7	49.1	43.3			12.6
	Prometon	55.8	96.3	85.3			12.2
	Prometryn	61.5	61.9	64.3			3.86
	Pronamide	106	103	104			0.463
	Propanil	118	125	124			0.656
	Propargite	68.2	71.0	52.2			30.6
	Propiconazole	81.5	76.9	70.9			8.08
	Pyraflufen Ethyl	76.2	63.9	59.5			7.13
	Pyridaben	106	76.5	77.7			1.52
	Pyriproxyfen	104	91.3	79.6			13.8
	Simazine	81.5	99.6	88.3			7.59
	Stirophos	65.7	61.2	49.3			21.5
	Sulfentrazone	76.2					1.42
	Tau-Fluvalinate	32.1	86.0	85.3			0.717
	Tebuconazole	48.2	55.7	36.4			41.9
	Terbufos	95.8	85.6	83.2			2.85

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Terbuthylazine	82.8	94.2	82.8			12.9
	Tetramethrin	70.0	105	103			1.89
	Thiobencarb	93.4	83.3	83.2			0.150
	Trans-Nonachlor	41.9	54.0	46.4			15.3
	Triadimefon	80.9	80.5	80.3			0.308
	Triclosan Methyl	75.6	85.7	83.4			2.73
	Trifluralin	65.3	67.6	61.7			9.03
EPA 8276	Chlordane	76.2	65.7	67.3			2.45
	Toxaphene	67.7	60.2	62.3			3.41
EPA 8321B	2,4-D	83.3	81.2	101			21.4
	2,4,5-T	69.0	58.7	62.9			6.85
	3-Hydroxycarbofuran	100	91.5	113			21.2
	Acesulfame K	95.9	98.5	79.2			21.7
	Acetaminophen	92.5	102	100			1.30
	Acetamiprid	76.4	66.9	82.8			21.3
	Afidopyropen	60.9	48.4	61.6			24.0
	Aldicarb	106	56.4	77.2			31.1
	Aldicarb Sulfone	109	107	120			11.3
	Aldicarb Sulfoxide	99.0	49.5	65.8			28.2
	AMPA	103	55.5	61.8			7.39
	Bentazon	80.5					9.50
	Benzovindiflupyr	76.1	79.0	83.1			5.04
	Carbamazepine	84.6	80.6	85.0			5.42
	Carbaryl	75.1	67.8	70.9			4.45
	Carbofuran	80.5	72.4	78.3			7.86
	Clothianidin	95.9	118	109			8.06
	Dinotefuran	97.9	111	113			1.44
	Diuron	76.7	65.7	68.3			3.03
	Endothall	95.0	171	172			0.471
	Fenuron	106	103	102			1.36
	Fluridone	86.6	85.2	85.7			0.493
	Glufosinate	92.1	70.4	70.0			0.658
	Glyphosate	94.6					2.68
	Hydrocodone	95.6	107	104			2.66
	Ibuprofen	79.8	79.3	79.7			0.480
	Imazapyr	108	117	113			2.66
	Imidacloprid	92.3	131	132			0.477
	Linuron	65.3	61.8	60.7			1.76
	Mandestrobin	80.5	74.6	78.7			5.40
	MCPP	83.2	73.7	82.9			11.7
	Methiocarb	74.6	67.4	75.6			11.4
	Methomyl	97.0	85.1	104			20.0
	Naproxen	84.0	70.5	63.5			10.5
	Oxamyl	99.8	91.6	115			22.6
	Primidone	100	108	109			1.33
	Propoxur	71.9	64.8	65.0			0.297
	Pyraclostrobin	75.3	79.9	80.7			0.999
	Silvex	66.8	61.9	68.1			9.48
	Sucralose	92.5	80.1	84.6			0.696
	Thiamethoxam	89.8	119	114			4.85
	Tolfenpyrad	47.5	50.1	54.5			8.37
	Triclopyr	66.9	58.0	67.4			15.0
SM 2320 B-2011	Total Alkalinity	96.9				2.82	
SM 2540 C-2015	TDS	97.4				7.28	

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 2540 D-2015	TSS	94.0					
SM 4500-F- C-2011	Fluoride	97.1	98.1	97.3			0.490
SM 5310 B-2011	Organic Carbon	97.4	99.6				0.645
	Organic Carbon	97.4	96.8	95.1			1.06

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2364430, 2364433, 2364434, 2364435
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2364430, 2364433, 2364434, 2364435
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2364470, 2364471, 2364472, 2364473, 2364474, 2364475
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2364470, 2364471, 2364472, 2364473, 2364474, 2364475
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2364430, 2364433, 2364434, 2364435
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2364430, 2364433, 2364434, 2364435
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2364431, 2364436, 2364437, 2364438
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2364431, 2364436, 2364437, 2364438
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2364431, 2364436, 2364437, 2364438
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2364431, 2364436, 2364437, 2364438
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2364466, 2364468
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2364467, 2364469
EPA 8270E	PCBs in water matrices by GC/MS/MS	2364466
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2364466, 2364468
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2364462, 2364464
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2364458, 2364459, 2364460, 2364461, 2364463, 2364465
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2364430, 2364433, 2364434, 2364435
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2364470, 2364471, 2364472, 2364473, 2364474, 2364475
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2364430, 2364433, 2364434, 2364435
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2364430, 2364433, 2364434, 2364435
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2364430, 2364433, 2364434, 2364435
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2364431, 2364436, 2364437, 2364438

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	10/24/2022			10/25/2022 14:40	Chandler E Cox	2364430
	10/24/2022			10/25/2022 14:41	Chandler E Cox	2364433
	10/24/2022			10/25/2022 14:42	Chandler E Cox	2364435
	10/24/2022			10/25/2022 17:43	Chandler E Cox	2364434
EPA 180.1 Rev. 2.0	10/24/2022			10/25/2022 13:54	Anna M. Plaviak	2364430
	10/24/2022			10/25/2022 13:56	Anna M. Plaviak	2364433
	10/24/2022			10/25/2022 13:57	Anna M. Plaviak	2364434
	10/24/2022			10/25/2022 13:59	Anna M. Plaviak	2364435
EPA 200.7 Rev. 4.4	10/24/2022	10/26/2022 11:30	George D Taylor	11/08/2022 22:45	McKinley C Carter	2364470
	10/24/2022	10/26/2022 11:30	George D Taylor	11/08/2022 22:53	McKinley C Carter	2364471
	10/24/2022	10/26/2022 11:30	George D Taylor	11/08/2022 23:01	McKinley C Carter	2364472
	10/24/2022	10/26/2022 11:30	George D Taylor	11/08/2022 23:09	McKinley C Carter	2364473
	10/24/2022	10/26/2022 11:30	George D Taylor	11/08/2022 23:17	McKinley C Carter	2364474
	10/24/2022	10/26/2022 11:30	George D Taylor	11/08/2022 23:25	McKinley C Carter	2364475
	10/24/2022	10/26/2022 11:30	George D Taylor	11/14/2022 13:18	Betina Topolski	2364470
	10/24/2022	10/26/2022 11:30	George D Taylor	11/14/2022 13:23	Betina Topolski	2364471
	10/24/2022	10/26/2022 11:30	George D Taylor	11/14/2022 13:28	Betina Topolski	2364472
	10/24/2022	10/26/2022 11:30	George D Taylor	11/14/2022 13:33	Betina Topolski	2364473
	10/24/2022	10/26/2022 11:30	George D Taylor	11/14/2022 13:59	Betina Topolski	2364474
	10/24/2022	10/26/2022 11:30	George D Taylor	11/14/2022 14:05	Betina Topolski	2364475
EPA 200.8 Rev. 5.4	10/24/2022	10/26/2022 11:30	George D Taylor	10/27/2022 23:58	Megan Whitefoot	2364470
	10/24/2022	10/26/2022 11:30	George D Taylor	10/28/2022 00:07	Megan Whitefoot	2364471
	10/24/2022	10/26/2022 11:30	George D Taylor	10/28/2022 00:16	Megan Whitefoot	2364472
	10/24/2022	10/26/2022 11:30	George D Taylor	10/28/2022 00:25	Megan Whitefoot	2364473
	10/24/2022	10/26/2022 11:30	George D Taylor	10/28/2022 00:34	Megan Whitefoot	2364475
	10/24/2022	10/26/2022 11:30	George D Taylor	10/28/2022 01:19	Megan Whitefoot	2364474
	10/24/2022	11/01/2022 14:55	Emily M Philpot	10/28/2022 00:25	Megan Whitefoot	2364473
EPA 300.0 Rev. 2.1	10/24/2022			11/08/2022 17:09	Anna M. Plaviak	2364434
	10/24/2022			11/08/2022 18:54	Anna M. Plaviak	2364430
	10/24/2022			11/08/2022 19:09	Anna M. Plaviak	2364433
	10/24/2022			11/08/2022 19:24	Anna M. Plaviak	2364435
EPA 350.1 Rev. 2.0	10/24/2022			11/02/2022 13:02	Ping Hua	2364438
	10/24/2022			11/03/2022 14:45	Ping Hua	2364431
	10/24/2022			11/03/2022 14:49	Ping Hua	2364436
	10/24/2022			11/03/2022 14:51	Ping Hua	2364437
EPA 351.2 Rev. 2.0	10/24/2022	10/28/2022 11:30	Simonne.V. Calhoun	11/01/2022 10:20	Samantha L Bates	2364431
	10/24/2022	10/28/2022 11:30	Simonne.V. Calhoun	11/01/2022 10:21	Samantha L Bates	2364436
	10/24/2022	10/28/2022 11:30	Simonne.V. Calhoun	11/01/2022 10:26	Samantha L Bates	2364437
	10/24/2022	10/28/2022 11:30	Simonne.V. Calhoun	11/01/2022 10:31	Samantha L Bates	2364438
EPA 353.2 Rev. 2.0	10/24/2022			10/28/2022 09:52	Beverly Y. Sanders	2364431

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 353.2 Rev. 2.0	10/24/2022			10/28/2022 11:20	Beverly Y. Sanders	2364436
	10/24/2022			10/28/2022 11:30	Beverly Y. Sanders	2364438
	10/24/2022			10/28/2022 11:41	Beverly Y. Sanders	2364437
EPA 365.1 Rev. 2.0	10/24/2022	10/26/2022 15:16	Adam P Silver	10/27/2022 10:24	James L Waggerby	2364436
	10/24/2022	10/26/2022 15:16	Adam P Silver	10/27/2022 10:25	James L Waggerby	2364437
	10/24/2022	10/26/2022 15:16	Adam P Silver	10/27/2022 10:26	James L Waggerby	2364438
	10/24/2022	11/08/2022 13:18	Adam P Silver	11/09/2022 10:13	James L Waggerby	2364431
EPA 8270E	10/24/2022	10/25/2022 08:30	Rasheda Ghaffari	10/26/2022 21:58	Michael Poppell	2364467
	10/24/2022	10/25/2022 08:30	Rasheda Ghaffari	10/26/2022 22:24	Michael Poppell	2364469
	10/24/2022	10/28/2022 08:20	Rasheda Ghaffari	11/01/2022 18:49	Vandana T. Nagar	2364466
	10/24/2022	10/28/2022 08:20	Rasheda Ghaffari	11/01/2022 20:10	Julie Wi	2364468
	10/24/2022	10/28/2022 08:20	Rasheda Ghaffari	11/01/2022 20:40	Julie Wi	2364466
EPA 8276	10/24/2022	10/28/2022 08:20	Rasheda Ghaffari	11/03/2022 00:07	Lipi Saha	2364466
	10/24/2022	10/28/2022 08:20	Rasheda Ghaffari	11/03/2022 01:05	Lipi Saha	2364468
EPA 8321B	10/24/2022	10/25/2022 10:00	Umesh Chiluwal	10/25/2022 11:48	Umesh Chiluwal	2364458
	10/24/2022	10/25/2022 10:00	Umesh Chiluwal	10/25/2022 12:01	Umesh Chiluwal	2364459
	10/24/2022	10/25/2022 10:00	Umesh Chiluwal	10/25/2022 12:14	Umesh Chiluwal	2364460
	10/24/2022	10/25/2022 10:00	Umesh Chiluwal	10/25/2022 12:27	Umesh Chiluwal	2364461
	10/24/2022	10/25/2022 10:00	Umesh Chiluwal	10/25/2022 12:53	Umesh Chiluwal	2364463
	10/24/2022	10/25/2022 10:00	Umesh Chiluwal	10/25/2022 13:06	Umesh Chiluwal	2364465
	10/24/2022	10/25/2022 10:00	Umesh Chiluwal	10/26/2022 11:35	Umesh Chiluwal	2364458
	10/24/2022	10/25/2022 10:00	Umesh Chiluwal	10/26/2022 11:50	Umesh Chiluwal	2364459
	10/24/2022	10/25/2022 10:00	Umesh Chiluwal	10/26/2022 12:05	Umesh Chiluwal	2364460
	10/24/2022	10/25/2022 10:00	Umesh Chiluwal	10/26/2022 12:20	Umesh Chiluwal	2364461
	10/24/2022	10/25/2022 10:00	Umesh Chiluwal	10/26/2022 12:35	Umesh Chiluwal	2364463
	10/24/2022	10/25/2022 10:00	Umesh Chiluwal	10/26/2022 13:05	Umesh Chiluwal	2364465
	10/24/2022	10/25/2022 10:30	June Rhew	10/25/2022 22:33	Juyoung Kim	2364461
	10/24/2022	10/25/2022 10:30	June Rhew	10/25/2022 23:56	Juyoung Kim	2364458
	10/24/2022	10/25/2022 10:30	June Rhew	10/26/2022 00:16	Juyoung Kim	2364459
	10/24/2022	10/25/2022 10:30	June Rhew	10/26/2022 00:37	Juyoung Kim	2364460
	10/24/2022	10/25/2022 10:30	June Rhew	10/26/2022 00:58	Juyoung Kim	2364463
	10/24/2022	10/25/2022 10:30	June Rhew	10/26/2022 01:19	Juyoung Kim	2364465
	10/24/2022	10/25/2022 10:30	June Rhew	10/26/2022 10:47	Juyoung Kim	2364459
	10/24/2022	10/31/2022 09:30	June Rhew	10/31/2022 15:02	Juyoung Kim	2364462
	10/24/2022	10/31/2022 09:30	June Rhew	10/31/2022 15:22	Juyoung Kim	2364464
SM 2320 B-2011	10/24/2022			10/26/2022 20:18	Dale L. Simmons	2364430
	10/24/2022			10/26/2022 20:30	Dale L. Simmons	2364433
	10/24/2022			10/26/2022 20:41	Dale L. Simmons	2364434
	10/24/2022			10/26/2022 20:52	Dale L. Simmons	2364435
SM 2340 B-2011	10/24/2022			11/08/2022 22:45	McKinley C Carter	2364470

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2340 B-2011	10/24/2022			11/08/2022 22:53	McKinley C Carter	2364471
	10/24/2022			11/08/2022 23:01	McKinley C Carter	2364472
	10/24/2022			11/08/2022 23:09	McKinley C Carter	2364473
	10/24/2022			11/08/2022 23:17	McKinley C Carter	2364474
	10/24/2022			11/08/2022 23:25	McKinley C Carter	2364475
SM 2540 C-2015	10/24/2022			10/26/2022 15:26	Yijie Li	2364430, 2364433, 2364434, 2364435
SM 2540 D-2015	10/24/2022			10/26/2022 15:26	Yijie Li	2364430, 2364433, 2364434, 2364435
SM 4500-F- C-2011	10/24/2022			10/26/2022 20:18	Dale L. Simmons	2364430
	10/24/2022			10/26/2022 20:30	Dale L. Simmons	2364433
	10/24/2022			10/26/2022 20:41	Dale L. Simmons	2364434
	10/24/2022			10/26/2022 20:52	Dale L. Simmons	2364435
SM 5310 B-2011	10/24/2022			10/27/2022 05:31	Khloe J Berg	2364431
	10/24/2022			10/27/2022 05:44	Khloe J Berg	2364436
	10/24/2022			10/27/2022 06:00	Khloe J Berg	2364437
	10/24/2022			10/27/2022 17:18	Khloe J Berg	2364438