Chemical Analysis Report

NE-DIST-2023-06-30-01

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

Event Description: **Lake LVI Round lake**
Request ID: **RQ-2023-06-19-18**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

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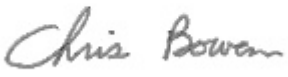
Certified by: Chris Bowen, Environmental Administrator

Date Certified: 26-JUL-2023 09:04



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: ROUND LAKE CENTER **Collection Date/Time: 06/29/2023 09:55**

Field ID: 20030920 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421080	DEP SOP: NU-094-1	Color (true)	9.3		PCU	P432007	
	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P432005	
	EPA 300.0 Rev. 2.1	Chloride	62		mg Cl/L	P432317	
		Sulfate	12		mg SO4/L	P432320	
	SM 2320 B-2011	Total Alkalinity	9.4		mg CaCO3/L	P432220	
	SM 2540 C-2015	TDS	168	A	mg/L	P432362	
	SM 2540 D-2015	TSS	2	UA	mg/L	P432127	
	SM 4500-F- C-2011	Fluoride	0.036	I	mg F/L	P432224	
2421081	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P432244	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.48	J	mg N/L	P432142	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432161	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P432188	
	SM 5310 B-2011	Organic Carbon	5.9		mg C/L	P432157	
2421082	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P432003	
2421087	EPA 8321B	2,4-D	0.039		ug/L	P431980	
		Acesulfame K	0.20	I	ug/L	P431924	
		2,4,5-T	0.0040	U	ug/L	P431980	
		AMPA	0.10	U	ug/L	P431924	
		Acetaminophen	0.0080	U	ug/L	P431980	
		Acetamiprid	0.0020	U	ug/L	P431980	
		Endothall	0.25	U	ug/L	P431924	
		Glufosinate	0.10	U	ug/L	P431924	
		Glyphosate	0.10	U	ug/L	P431924	
		Afidopyropen	0.0020	U	ug/L	P431980	
		Bentazon	8.0E-04	U	ug/L	P431980	
		Sucralose	0.42		ug/L	P431924	
		Benzovindiflupyr	0.0020	U	ug/L	P431980	
		Carbamazepine	8.0E-04	U	ug/L	P431980	
		Clothianidin	0.0020	U	ug/L	P431980	
		Dinotefuran	0.0020	U	ug/L	P431980	
		Diuron	0.10		ug/L	P431980	MS
		Fenuron	0.032	U	ug/L	P431980	
		Fluridone	0.0012	I	ug/L	P431980	
		Imazapyr	0.0040	U	ug/L	P431980	
		Hydrocodone	0.0020	U	ug/L	P431980	
		Ibuprofen	0.40		ug/L	P431980	
		Imidacloprid	0.0020	U	ug/L	P431980	
		Linuron	0.0040	U	ug/L	P431980	
		Mandestrobin	0.0020	U	ug/L	P431980	
		MCPP	0.0020	U	ug/L	P431980	
		Naproxen	0.0080	U	ug/L	P431980	
		Primidone	0.0040	U	ug/L	P431980	
		Pyraclostrobin	0.0020	U	ug/L	P431980	

Field ID: 20030920 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421087	EPA 8321B	Silvex	0.0040	U	ug/L	P431980	
		Thiamethoxam	0.0020	U	ug/L	P431980	
		Tolfenpyrad	0.0020	U	ug/L	P431980	
		Triclopyr	0.0040	U	ug/L	P431980	
2421089	EPA 200.7 Rev. 4.4	Calcium	9.65		mg/L	P432042	
		Iron	30	U	ug/L	P432042	
		Magnesium	3.52		mg/L	P432042	
		Potassium	2.2		mg/L	P432042	
		Sodium	33.0		mg/L	P432042	
		Strontium	62.7		ug/L	P432042	
		Tin	3.0	U	ug/L	P432042	
		Titanium	0.75	U	ug/L	P432042	
		Vanadium	2.0	U	ug/L	P432042	
		Zinc	5.0	U	ug/L	P432042	
	EPA 200.8 Rev. 5.4	Aluminum	11	I	ug/L	P432042	
		Antimony	0.067	I	ug/L	P432042	
		Arsenic	4.26		ug/L	P432042	
		Barium	30.1		ug/L	P432042	
		Beryllium	0.010	U	ug/L	P432042	
		Boron	45.0		ug/L	P432042	
		Cadmium	0.020	U	ug/L	P432042	
		Chromium	0.40	U	ug/L	P432042	
		Cobalt	0.043	I	ug/L	P432042	
		Copper	0.50	I	ug/L	P432042	
		Lead	0.20	U	ug/L	P432042	
		Manganese	7.59		ug/L	P432042	
		Molybdenum	0.15	U	ug/L	P432042	
		Nickel	0.50	U	ug/L	P432042	
		Selenium	0.20	U	ug/L	P432042	
		Silver	0.010	UJ	ug/L	P432042	LCS, MS
		Thallium	0.10	U	ug/L	P432042	
	SM 2340 B-2011	Hardness	38.6		mg/L	P432042	
2421091	EPA 8270E	Oxybenzone**	11	U	ng/L	P432051	
		Acetochlor	0.21	U	ng/L	P432051	
		Octinoxate**	160	U	ng/L	P432051	
		Alachlor	0.42	U	ng/L	P432051	
		Avobenzone**	110	U	ng/L	P432051	
		Ametryn	1.2	U	ng/L	P432051	
		Atrazine	2.0		ng/L	P432051	
		PBDE-47**	4.2	U	ng/L	P432051	
		Atrazine Desethyl	1.4	U	ng/L	P432051	
		PBDE-99**	5.3	U	ng/L	P432051	
		Azinphos Methyl	3.2	U	ng/L	P432051	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P432051	
		Azoxystrobin	0.42	U	ng/L	P432051	

Field ID: 20030920 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421091	EPA 8270E	Bromacil	0.63	U	ng/L	P432051	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	U	ng/L	P432051	
		Butylate	0.21	U	ng/L	P432051	
		Dechlorane Plus**	32	U	ng/L	P432051	
		Caffeine**	9.0	I J	ng/L	P432051	MS
		Dechlorane 602**	5.3	U	ng/L	P432051	
		Carbophenothion	0.53	U	ng/L	P432051	
		Dechlorane 603**	4.2	U	ng/L	P432051	
		Carfentrazone Ethyl	0.16	U	ng/L	P432051	
		Hexabromobenzene**	6.3	UJ	ng/L	P432051	RPD
		Chlorfenapyr	0.32	U	ng/L	P432051	
		PBB-153**	8.4	U	ng/L	P432051	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P432051	
		Pentabromotoluene**	3.2	U	ng/L	P432051	
		Chlorpyrifos Methyl	0.11	U	ng/L	P432051	
		Tris(2-chloroethyl) phosphate (TCEP)**	74	U	ng/L	P432051	
		Coumaphos	1.1	U	ng/L	P432051	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	27	I	ng/L	P432051	
		Cyanazine	5.3	U	ng/L	P432051	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P432051	
		Cyprodinil	0.21	U	ng/L	P432051	
		Tetradecachloro-m-terphenyl**	7.9	U	ng/L	P432051	
		Demeton	3.7	U	ng/L	P432051	
		Diazinon	0.13	UJ	ng/L	P432051	RPD
		Difenoconazole	0.63	U	ng/L	P432051	
		Dimethenamid	0.11	U	ng/L	P432051	
		Dimethomorph	0.32	UJ	ng/L	P432051	MS
		Disulfoton	0.63	U	ng/L	P432051	
		Dithiopyr	1.1	UJ	ng/L	P432051	RPD
		EPTC	0.53	U	ng/L	P432051	
		Ethion	0.32	U	ng/L	P432051	
		Ethoprop	0.13	U	ng/L	P432051	
		Etridiazole	0.11	U	ng/L	P432051	
		Fenamiphos	0.47	U	ng/L	P432051	
		Fenbuconazole	0.53	UJ	ng/L	P432051	LCS
		Fipronil	0.21	U	ng/L	P432051	
		Fipronil Desulfinyl**	0.25	I	ng/L	P432051	
		Fipronil Sulfide	0.44	I	ng/L	P432051	
		Fipronil Sulfone	0.91		ng/L	P432051	
		Fluazifop-P-butyl	0.11	UJ	ng/L	P432051	LCS, MS
		Fludioxonil	0.11	U	ng/L	P432051	
		Flumioxazin	3.2	U	ng/L	P432051	
		Flutolanil	0.11	U	ng/L	P432051	
		Fluxapyroxad	0.26	U	ng/L	P432051	

Field ID: 20030920 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421091	EPA 8270E	Fonofos	0.16	UJ	ng/L	P432051	RPD
		Hexazinone	0.53	U	ng/L	P432051	
		Imazalil	0.68	U	ng/L	P432051	
		Iprodione	0.53	U	ng/L	P432051	
		Loratadine**	0.32	U	ng/L	P432051	
		Malathion	0.37	U	ng/L	P432051	
		Metalaxyl	0.53	U	ng/L	P432051	
		Metolachlor	1.0	I	ng/L	P432051	
		Metribuzin	0.42	U	ng/L	P432051	
		Mevinphos	1.1	U	ng/L	P432051	
		Molinate	0.26	U	ng/L	P432051	
		Myclobutanil	0.37	U	ng/L	P432051	
		Naled	2.6	U	ng/L	P432051	
		Napropamide	0.74	U	ng/L	P432051	
		Norflurazon	1.1	U	ng/L	P432051	
		Oxadiazon	0.37	U	ng/L	P432051	
		Oxyfluorfen	0.21	U	ng/L	P432051	
		Parathion Ethyl	0.16	U	ng/L	P432051	
		Parathion Methyl	0.21	U	ng/L	P432051	
		Pendimethalin	0.79	U	ng/L	P432051	
		Phenytoin**	5.6	U	ng/L	P432051	
		Phorate	0.26	U	ng/L	P432051	
		Prodiamine	0.21	UJ	ng/L	P432051	MS
		Prometon	3.2	U	ng/L	P432051	
		Prometryn	0.37	U	ng/L	P432051	
		Pronamide	0.11	U	ng/L	P432051	
		Propanil	0.11	U	ng/L	P432051	
		Propargite	0.84	U	ng/L	P432051	
		Propiconazole	0.87	I	ng/L	P432051	
		Pyraflufen Ethyl	0.32	U	ng/L	P432051	
		Pyridaben	7.8		ng/L	P432051	
		Pyriproxyfen	0.26	U	ng/L	P432051	
		Simazine	0.26	U	ng/L	P432051	
		Stirophos	0.42	U	ng/L	P432051	
		Sulfentrazone	1.5	U	ng/L	P432051	
		Tebuconazole	2.3	I	ng/L	P432051	
		Terbufos	0.21	U	ng/L	P432051	
		Terbuthylazine	0.21	U	ng/L	P432051	
		Thiobencarb	0.53	U	ng/L	P432051	
		Triadimefon	0.16	U	ng/L	P432051	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 200.8 Rev. 5.4: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB **Collection Date/Time: 06/29/2023 10:15**

Field ID: FB_06292023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421083	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P432008	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P432005	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P432087	
		Sulfate	0.20	U	mg SO4/L	P432090	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P432220	
	SM 2540 C-2015	TDS	15	U	mg/L	P432362	
	SM 2540 D-2015	TSS	2	U	mg/L	P432127	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P432224	
2421084	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P432244	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P432142	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432160	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P432188	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P432157	
2421085	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P432003	
2421088	EPA 8321B	2,4-D	0.0020	U	ug/L	P431980	
		Acesulfame K	0.10	U	ug/L	P431924	
		2,4,5-T	0.0040	U	ug/L	P431980	
		AMPA	0.10	U	ug/L	P431924	
		Acetaminophen	0.0080	U	ug/L	P431980	
		Acetamiprid	0.0020	U	ug/L	P431980	
		Endothall	0.25	U	ug/L	P431924	
		Glufosinate	0.10	U	ug/L	P431924	
		Glyphosate	0.10	U	ug/L	P431924	
		Afidopyropen	0.0020	U	ug/L	P431980	
		Bentazon	8.0E-04	U	ug/L	P431980	
		Sucralose	0.010	U	ug/L	P431924	
		Benzovindiflupyr	0.0020	U	ug/L	P431980	
		Carbamazepine	8.0E-04	U	ug/L	P431980	
		Clothianidin	0.0020	U	ug/L	P431980	
		Dinotefuran	0.0020	U	ug/L	P431980	
		Diuron	0.0020	U	ug/L	P431980	MS
		Fenuron	0.032	U	ug/L	P431980	
		Fluridone	8.0E-04	U	ug/L	P431980	
		Imazapyr	0.0040	U	ug/L	P431980	
		Hydrocodone	0.0020	U	ug/L	P431980	
		Ibuprofen	0.080	U	ug/L	P431980	
		Imidacloprid	0.0020	U	ug/L	P431980	
		Linuron	0.0040	U	ug/L	P431980	
		Mandestrobin	0.0020	U	ug/L	P431980	
		MCPP	0.0020	U	ug/L	P431980	
		Naproxen	0.0080	U	ug/L	P431980	
		Primidone	0.0040	U	ug/L	P431980	
		Pyraclostrobin	0.0020	U	ug/L	P431980	

Field ID: FB_06292023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421088	EPA 8321B	Silvex	0.0040	U	ug/L	P431980	
		Thiamethoxam	0.0020	U	ug/L	P431980	
		Tolfenpyrad	0.0020	U	ug/L	P431980	
		Triclopyr	0.0040	U	ug/L	P431980	
2421090	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P432042	
		Iron	30	U	ug/L	P432042	
		Magnesium	0.040	U	mg/L	P432042	
		Potassium	0.30	U	mg/L	P432042	
		Sodium	0.50	U	mg/L	P432042	
		Strontium	2.0	U	ug/L	P432042	
		Tin	3.0	U	ug/L	P432042	
		Titanium	0.75	U	ug/L	P432042	
		Vanadium	2.0	U	ug/L	P432042	
		Zinc	5.0	U	ug/L	P432042	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P432042	
		Antimony	0.050	U	ug/L	P432042	
		Arsenic	0.050	U	ug/L	P432042	
		Barium	0.20	U	ug/L	P432042	
		Beryllium	0.010	U	ug/L	P432042	
		Boron	2.0	U	ug/L	P432042	
		Cadmium	0.020	U	ug/L	P432042	
		Chromium	0.40	U	ug/L	P432042	
		Cobalt	0.020	U	ug/L	P432042	
		Copper	0.40	U	ug/L	P432042	
		Lead	0.20	U	ug/L	P432042	
		Manganese	0.10	U	ug/L	P432042	
		Molybdenum	0.15	U	ug/L	P432042	
		Nickel	0.50	U	ug/L	P432042	
		Selenium	0.20	U	ug/L	P432042	
		Silver	0.010	UJ	ug/L	P432042	LCS, MS
		Thallium	0.10	U	ug/L	P432042	
	SM 2340 B-2011	Hardness	0.35	U	mg/L	P432042	
2421092	EPA 8270E	Oxybenzone**	10	U	ng/L	P432051	
		Acetochlor	0.21	U	ng/L	P432051	
		Octinoxate**	150	U	ng/L	P432051	
		Alachlor	0.41	U	ng/L	P432051	
		Avobenzone**	100	U	ng/L	P432051	
		Ametryn	1.1	U	ng/L	P432051	
		Atrazine	0.21	U	ng/L	P432051	
		PBDE-47**	4.1	U	ng/L	P432051	
		Atrazine Desethyl	1.3	U	ng/L	P432051	
		PBDE-99**	5.1	U	ng/L	P432051	
		Azinphos Methyl	3.1	U	ng/L	P432051	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P432051	
		Azoxystrobin	0.41	U	ng/L	P432051	

Field ID: FB_06292023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421092	EPA 8270E	Bromacil	0.62	U	ng/L	P432051	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P432051	
		Butylate	0.21	U	ng/L	P432051	
		Dechlorane Plus**	31	U	ng/L	P432051	
		Caffeine**	7.7	U	ng/L	P432051	MS
		Dechlorane 602**	5.1	U	ng/L	P432051	
		Carbophenothion	0.51	U	ng/L	P432051	
		Dechlorane 603**	4.1	U	ng/L	P432051	
		Carfentrazone Ethyl	0.15	U	ng/L	P432051	
		Hexabromobenzene**	6.2	U	ng/L	P432051	RPD
		Chlorfenapyr	0.31	U	ng/L	P432051	
		PBB-153**	8.2	U	ng/L	P432051	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P432051	
		Pentabromotoluene**	3.1	U	ng/L	P432051	
		Chlorpyrifos Methyl	0.10	U	ng/L	P432051	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P432051	
		Coumaphos	1.1	U	ng/L	P432051	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	UQ	ng/L	P432528	
		Cyanazine	5.1	U	ng/L	P432051	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P432051	
		Cyprodinil	0.21	U	ng/L	P432051	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P432051	
		Demeton	3.6	U	ng/L	P432051	
		Diazinon	0.13	U	ng/L	P432051	RPD
		Difenoconazole	0.62	U	ng/L	P432051	
		Dimethenamid	0.10	U	ng/L	P432051	
		Dimethomorph	0.31	U	ng/L	P432051	MS
		Disulfoton	0.62	U	ng/L	P432051	
		Dithiopyr	1.0	U	ng/L	P432051	RPD
		EPTC	0.51	U	ng/L	P432051	
		Ethion	0.31	U	ng/L	P432051	
		Ethoprop	0.13	U	ng/L	P432051	
		Etridiazole	0.10	U	ng/L	P432051	
		Fenamiphos	0.46	U	ng/L	P432051	
		Fenbuconazole	0.51	UJ	ng/L	P432051	LCS
		Fipronil	0.21	U	ng/L	P432051	
		Fipronil Desulfinyl**	0.10	U	ng/L	P432051	
		Fipronil Sulfide	0.10	U	ng/L	P432051	
		Fipronil Sulfone	0.10	U	ng/L	P432051	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P432051	LCS, MS
		Fludioxonil	0.10	U	ng/L	P432051	
		Flumioxazin	3.1	U	ng/L	P432051	
		Flutolanil	0.10	U	ng/L	P432051	
		Fluxapyroxad	0.26	U	ng/L	P432051	

Field ID: FB_06292023 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2421092	EPA 8270E	Fonofos	0.15	U	ng/L	P432051	RPD
		Hexazinone	0.51	U	ng/L	P432051	
		Imazalil	0.67	U	ng/L	P432051	
		Iprodione	0.51	U	ng/L	P432051	
		Loratadine**	0.31	U	ng/L	P432051	
		Malathion	0.36	U	ng/L	P432051	
		Metalaxyl	0.51	U	ng/L	P432051	
		Metolachlor	0.77	U	ng/L	P432051	
		Metribuzin	0.41	U	ng/L	P432051	
		Mevinphos	1.0	U	ng/L	P432051	
		Molinate	0.26	U	ng/L	P432051	
		Myclobutanil	0.36	U	ng/L	P432051	
		Naled	2.6	U	ng/L	P432051	
		Napropamide	0.72	U	ng/L	P432051	
		Norflurazon	1.0	U	ng/L	P432051	
		Oxadiazon	0.36	U	ng/L	P432051	
		Oxyfluorfen	0.21	U	ng/L	P432051	
		Parathion Ethyl	0.15	U	ng/L	P432051	
		Parathion Methyl	0.21	U	ng/L	P432051	
		Pendimethalin	0.77	U	ng/L	P432051	
		Phenytoin**	5.4	U	ng/L	P432051	
		Phorate	0.26	U	ng/L	P432051	
		Prodiamine	0.21	U	ng/L	P432051	MS
		Prometon	3.1	U	ng/L	P432051	
		Prometryn	0.36	U	ng/L	P432051	
		Pronamide	0.10	U	ng/L	P432051	
		Propanil	0.10	U	ng/L	P432051	
		Propargite	0.82	U	ng/L	P432051	
		Propiconazole	0.62	U	ng/L	P432051	
		Pyraflufen Ethyl	0.31	U	ng/L	P432051	
		Pyridaben	1.4	U	ng/L	P432051	
		Pyriproxyfen	0.26	U	ng/L	P432051	
		Simazine	0.26	U	ng/L	P432051	
		Stirophos	0.41	U	ng/L	P432051	
		Sulfentrazone	1.4	U	ng/L	P432051	
		Tebuconazole	1.4	U	ng/L	P432051	
		Terbufos	0.21	U	ng/L	P432051	
		Terbuthylazine	0.21	U	ng/L	P432051	
		Thiobencarb	0.51	U	ng/L	P432051	
		Triadimefon	0.15	U	ng/L	P432051	

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 some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 200.8 Rev. 5.4: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Sample expired for preparation for TCPP due to need for re-extraction.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P432007

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P432008

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432005

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P432042

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: P432042

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: P432087

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432090

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432317

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432320

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432244

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432142

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432160

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432161

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432188

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432003

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8270E
Batch ID: P432051

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432051

Component	Result	Code	Units
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432051

Component	Result	Code	Units
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P432051

Component	Result	Code	Units
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E
Batch ID: P432528

Component	Result	Code	Units
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P431924

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: P431980

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

Reference Method: SM 2320 B-2011
Batch ID: P432220

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

Reference Method: SM 2540 C-2015
Batch ID: P432362

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P432127

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P432224

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P432157

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: P432007

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.5		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P432008

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432005

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P432042

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	97.6		P	85 - 115
Iron	103		P	85 - 115
Magnesium	102		P	85 - 115
Potassium	99.4		P	85 - 115
Sodium	98.2		P	85 - 115
Strontium	97.5		P	85 - 115
Tin	95.6		P	85 - 115
Titanium	97.0		P	85 - 115
Vanadium	96.7		P	85 - 115
Zinc	99.1		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432042

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.1		P	80 - 120
Antimony	99.3		P	80 - 120
Arsenic	96.3		P	80 - 120
Barium	99.2		P	80 - 120
Beryllium	92.8		P	80 - 120
Boron	103		P	80 - 120
Cadmium	97.9		P	80 - 120
Chromium	96.1		P	80 - 120
Cobalt	98.5		P	85 - 115
Copper	95.6		P	80 - 120
Lead	91.8		P	80 - 120
Manganese	96.3		P	80 - 120
Molybdenum	96.9		P	80 - 120
Nickel	96.3		P	80 - 120
Selenium	96.0		P	80 - 120
Silver	71.6		F	80 - 120
Thallium	97.8		P	80 - 120

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432087

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432090

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432317

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432320

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432244

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432142

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432160

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: P432161

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432188

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432003

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

Reference Method: EPA 8270E
Batch ID: P432051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	75.2		P	42 - 162
Acetochlor	88.0		P	69 - 123
Alachlor	67.3		P	65 - 118
Ametryn	140		P	58 - 141
Atrazine	89.2		P	73 - 118
Atrazine Desethyl	79.6		P	32 - 125
Avobenzone	92.9		P	40 - 203
Azinphos Methyl	85.4		P	36 - 197
Azoxystrobin	67.5		P	58 - 226
Bromacil	88.2		P	48 - 120
Butylate	49.4		P	27 - 85.0
Caffeine	103		P	40 - 137
Carbophenothion	96.9		P	54 - 132
Carfentrazone Ethyl	108		P	60 - 142
Chlorfenapyr	68.2		P	53 - 117
Chlorpyrifos Ethyl	82.3		P	59 - 116
Chlorpyrifos Methyl	83.8		P	66 - 119
Coumaphos	71.3		P	11 - 234
Cyanazine	120		P	61 - 248
Cyprodinil	65.6		P	50 - 147
Dechlorane 602	78.0		P	50 - 150
Dechlorane 603	94.1		P	50 - 150
Dechlorane Plus	91.9		P	47 - 182
Demeton	61.0		P	30 - 138
Diazinon	98.1		P	67 - 126
Difenoconazole	56.2		P	38 - 205
Dimethenamid	77.8		P	57 - 111
Dimethomorph	105		P	16 - 212
Disulfoton	95.0		P	46 - 126
Dithiopyr	92.4		P	62 - 115
EPTC	46.9		P	28 - 80.0
Ethion	88.4		P	24 - 122
Ethoprop	81.7		P	62 - 113
Etridiazole	62.7		P	28 - 92.0
Fenamiphos	78.4		P	57 - 128
Fenbuconazole	35.6		F	52 - 155
Fipronil	109		P	63 - 130
Fipronil Desulfinyl	91.7		P	61 - 130
Fipronil Sulfide	91.5		P	56 - 117
Fipronil Sulfone	98.2		P	52 - 118
Fluazifop-P-butyl	51.9		F	61 - 128
Fludioxonil	67.7		P	59 - 129
Flumioxazin	110		P	30 - 250
Flutolanil	67.0		P	53 - 127
Fluxapyroxad	91.7		P	42 - 132
Fonofos	75.3		P	61 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P432051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Hexabromobenzene	92.0		P	50 - 150
Hexazinone	89.2		P	46 - 139
Imazalil	69.8		P	40 - 139
Iprodione	108		P	40 - 146
Loratadine	105		P	10 - 224
Malathion	125		P	61 - 135
Metalaxyl	97.7		P	58 - 121
Metolachlor	108		P	64 - 118
Metribuzin	82.2		P	45 - 245
Mevinphos	78.7		P	49 - 118
Molinate	56.0		P	42 - 92.0
Myclobutanil	85.7		P	55 - 127
Naled	27.6		P	10 - 114
Napropamide	88.8		P	39 - 121
Norflurazon	81.4		P	55 - 129
Octinoxate	93.3		P	26 - 166
Oxadiazon	82.0		P	54 - 115
Oxybenzone	95.8		P	49 - 135
Oxyfluorfen	101		P	64 - 139
Parathion Ethyl	86.5		P	70 - 111
Parathion Methyl	99.7		P	76 - 136
PBB-153	94.6		P	50 - 150
PBDE-47	94.2		P	41 - 148
PBDE-99	81.2		P	38 - 147
Pendimethalin	104		P	52 - 118
Pentabromotoluene	80.6		P	50 - 150
Phenytoin	63.1		P	10 - 162
Phorate	65.7		P	40 - 122
Prodiamine	37.3		P	26 - 141
Prometon	74.3		P	54 - 122
Prometryn	71.5		P	61 - 128
Pronamide	100		P	72 - 121
Propanil	112		P	45 - 144
Propargite	97.3		P	10 - 199
Propiconazole	72.4		P	56 - 127
Pyraflufen Ethyl	98.0		P	56 - 140
Pyridaben	67.1		P	26 - 211
Pyriproxyfen	73.2		P	33 - 194
Simazine	71.9		P	67 - 121
Stirophos	121		P	20 - 142
Sulfentrazone	75.6		P	21 - 144
Tebuconazole	79.7		P	10 - 122
Terbufos	95.2		P	60 - 129
Terbuthylazine	81.6		P	69 - 113
Tetradecachloro-m-terphenyl	113		P	70 - 200
Thiobencarb	89.4		P	51 - 120
Tri-o-cresyl Phosphate	95.4		P	49 - 150
Triadimefon	93.7		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	102		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	89.3		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	98.7		P	70 - 180

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P432528

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Tris(1-chloro-2-propyl) phosphate (TCPP)	125		P	50 - 150

Reference Method: EPA 8321B
Batch ID: P431924

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	144		P	40 - 150
AMPA	127		P	40 - 150
Endothall	70.2		P	40 - 150
Glufosinate	93.7		P	40 - 150
Glyphosate	110		P	40 - 150
Sucralose	79.1		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431980

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	103		P	40 - 150
2,4,5-T	96.9		P	40 - 150
Acetaminophen	59.8		P	30 - 150
Acetamiprid	65.8		P	40 - 150
Afidopyropen	46.5		P	30 - 150
Bentazon	107		P	30 - 150
Benzovindiflupyr	74.0		P	40 - 150
Carbamazepine	69.7		P	40 - 150
Clothianidin	84.7		P	40 - 150
Dinotefuran	89.4		P	40 - 150
Diuron	45.2		P	40 - 150
Fenuron	83.0		P	40 - 150
Fluridone	90.3		P	40 - 150
Hydrocodone	85.9		P	40 - 150
Ibuprofen	75.9		P	40 - 150
Imazapyr	79.7		P	40 - 150
Imidacloprid	88.7		P	40 - 150
Linuron	60.3		P	40 - 150
Mandestrobin	85.7		P	40 - 150
MCPP	110		P	40 - 150
Naproxen	77.3		P	40 - 150
Primidone	77.9		P	40 - 150
Pyraclostrobin	67.2		P	40 - 150
Silvex	122		P	40 - 150
Thiamethoxam	84.5		P	40 - 150
Tolfenpyrad	59.0		P	30 - 150
Triclopyr	98.2		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P432220

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.4		P	92 - 105

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P432362

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

Reference Method: SM 2540 D-2015
Batch ID: P432127

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.4		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P432224

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.2		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432157

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P432042

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421089	Calcium	100		P	80 - 120
2421089	Iron	102	104	P/P	80 - 120
2421089	Magnesium	98.8	101	P/P	80 - 120
2421089	Potassium	97.0	97.9	P/P	80 - 120
2421089	Sodium	98.7		P	80 - 120
2421089	Strontium	96.4	97.1	P/P	80 - 120
2421089	Tin	95.4	98.5	P/P	80 - 120
2421089	Titanium	95.7	96.7	P/P	80 - 120
2421089	Vanadium	95.9	97.1	P/P	80 - 120
2421089	Zinc	98.7	99.8	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432042

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421089	Aluminum	96.3	96.6	P/P	80 - 120
2421089	Antimony	100	101	P/P	80 - 120
2421089	Arsenic	99.6	99.6	P/P	80 - 120
2421089	Barium	99.9	100	P/P	80 - 120
2421089	Beryllium	95.8	97.5	P/P	80 - 120
2421089	Boron	98.7	97.4	P/P	80 - 120
2421089	Cadmium	98.0	100	P/P	80 - 120
2421089	Chromium	97.4	97.6	P/P	80 - 120
2421089	Cobalt	97.6	98.1	P/P	80 - 120
2421089	Copper	98.0	98.5	P/P	80 - 120
2421089	Lead	94.2	93.9	P/P	80 - 120
2421089	Manganese	97.2	97.7	P/P	80 - 120
2421089	Molybdenum	99.9	99.8	P/P	80 - 120
2421089	Nickel	96.9	97.6	P/P	80 - 120
2421089	Selenium	97.4	97.4	P/P	80 - 120
2421089	Silver	71.0	69.9	F/F	80 - 120
2421089	Thallium	103	103	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432087

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420983	Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432090

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420983	Sulfate	97.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432317

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421280	Chloride	102		P	90 - 110
2421515	Chloride	102		P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432320

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421280	Sulfate	98.9		P	90 - 110
2421515	Sulfate	96.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432244

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421081	Ammonia-N	94.6	97.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432142

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421081	Kjeldahl Nitrogen	106	111	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432160

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420985	NO2NO3-N	95.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432161

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421081	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432188

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421282	Total-P	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432003

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421082	O-Phosphate-P	99.2	100	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P432051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421091	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	61.4	85.1	P/P	26 - 165
2421091	Acetochlor	72.2	93.2	P/P	67 - 124
2421091	Alachlor	67.0	75.2	P/P	60 - 120
2421091	Ametryn	98.1	110	P/P	54 - 216
2421091	Atrazine	83.4	100	P/P	66 - 128
2421091	Atrazine Desethyl	84.8	88.1	P/P	15 - 122
2421091	Avobenzone	131	126	P/P	37 - 178
2421091	Azinphos Methyl	109	102	P/P	40 - 292
2421091	Azoxystrobin	114	105	P/P	35 - 220

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P432051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421091	Bromacil	93.1	113	P/P	45 - 127
2421091	Butylate	45.9	53.1	P/P	20 - 83.0
2421091	Caffeine	246	152	F/P	10 - 194
2421091	Carbophenothion	90.2	102	P/P	57 - 127
2421091	Carfentrazone Ethyl	101	114	P/P	51 - 141
2421091	Chlorfenapyr	54.7	67.7	P/P	46 - 111
2421091	Chlorpyrifos Ethyl	62.7	62.3	P/P	52 - 120
2421091	Chlorpyrifos Methyl	69.4	82.8	P/P	63 - 119
2421091	Coumaphos	104	115	P/P	10 - 228
2421091	Cyanazine	111	119	P/P	59 - 241
2421091	Cyprodinil	56.9	67.1	P/P	47 - 146
2421091	Dechlorane 602	60.4	58.4	P/P	50 - 150
2421091	Dechlorane 603	98.5	105	P/P	50 - 150
2421091	Dechlorane Plus	73.7	69.8	P/P	50 - 150
2421091	Demeton	76.2	77.6	P/P	40 - 136
2421091	Diazinon	70.2	109	P/P	69 - 132
2421091	Difenoconazole	97.1	100	P/P	57 - 258
2421091	Dimethenamid	55.2	64.1	P/P	54 - 110
2421091	Dimethomorph	211	197	F/P	28 - 210
2421091	Disulfoton	77.2	95.3	P/P	43 - 133
2421091	Dithiopyr	70.2	92.8	P/P	39 - 116
2421091	EPTC	41.3	47.4	P/P	20 - 78.0
2421091	Ethion	40.1	30.9	P/P	17 - 119
2421091	Ethoprop	94.1	93.0	P/P	66 - 120
2421091	Etridiazole	62.7	65.4	P/P	28 - 96.0
2421091	Fenamiphos	116	113	P/P	41 - 126
2421091	Fenbuconazole	69.0	68.1	P/P	42 - 169
2421091	Fipronil	81.3	109	P/P	61 - 132
2421091	Fipronil Desulfinyl	77.7	101	P/P	56 - 132
2421091	Fipronil Sulfide	68.9	89.5	P/P	48 - 119
2421091	Fipronil Sulfone	83.5	114	P/P	42 - 131
2421091	Fluazifop-P-butyl	44.7	57.2	F/P	53 - 131
2421091	Fludioxonil	61.2	68.0	P/P	56 - 127
2421091	Flumioxazin	163	125	P/P	19 - 300
2421091	Flutolanil	52.4	52.5	P/P	41 - 127
2421091	Fluxapyroxad	77.1	64.5	P/P	42 - 172
2421091	Fonofos	60.6	81.9	P/P	59 - 113
2421091	Hexabromobenzene	51.3	111	P/P	50 - 150
2421091	Hexazinone	77.0	78.4	P/P	66 - 122
2421091	Imazalil	78.7	72.8	P/P	21 - 283
2421091	Iprodione	90.2	93.6	P/P	43 - 150
2421091	Loratadine	200	201	P/P	23 - 201
2421091	Malathion	106	125	P/P	58 - 136
2421091	Metalaxyl	88.5	97.5	P/P	55 - 120
2421091	Metolachlor	107	94.6	P/P	57 - 121
2421091	Metribuzin	79.3	93.0	P/P	58 - 294
2421091	Mevinphos	102	111	P/P	50 - 126
2421091	Molinate	58.6	66.4	P/P	42 - 93.0
2421091	Myclobutanil	81.6	88.1	P/P	55 - 125
2421091	Naled	24.3	30.9	P/P	18 - 200
2421091	Napropamide	51.5	40.9	P/P	39 - 110
2421091	Norflurazon	81.8	92.3	P/P	48 - 128

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P432051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421091	Octinoxate	98.2	107	P/P	21 - 159
2421091	Oxadiazon	73.8	79.9	P/P	43 - 112
2421091	Oxybenzone	91.1	104	P/P	41 - 142
2421091	Oxyfluorfen	101	106	P/P	64 - 153
2421091	Parathion Ethyl	83.2	84.6	P/P	69 - 114
2421091	Parathion Methyl	109	128	P/P	79 - 139
2421091	PBB-153	78.1	102	P/P	50 - 150
2421091	PBDE-47	79.0	89.6	P/P	27 - 144
2421091	PBDE-99	61.1	76.8	P/P	18 - 150
2421091	Pendimethalin	95.3	102	P/P	50 - 139
2421091	Pentabromotoluene	76.3	96.1	P/P	50 - 150
2421091	Phenytoin	22.3	18.3	P/P	10 - 146
2421091	Phorate	83.9	85.8	P/P	54 - 161
2421091	Prodiamine	28.0	32.2	F/P	30 - 161
2421091	Prometon	72.6	74.4	P/P	45 - 134
2421091	Prometryn	61.0	74.6	P/P	45 - 137
2421091	Pronamide	94.0	108	P/P	65 - 133
2421091	Propanil	93.2	120	P/P	49 - 142
2421091	Propargite	44.5	37.3	P/P	10 - 203
2421091	Propiconazole	68.9	76.8	P/P	38 - 146
2421091	Pyraflufen Ethyl	92.1	95.9	P/P	34 - 153
2421091	Pyridaben	73.6	66.0	P/P	12 - 192
2421091	Pyriproxyfen	67.9	53.1	P/P	33 - 180
2421091	Simazine	64.7	73.8	P/P	51 - 157
2421091	Stirophos	22.5	42.1	P/P	10 - 128
2421091	Sulfentrazone	91.7	93.6	P/P	53 - 186
2421091	Tebuconazole	41.1	34.1	P/P	10 - 133
2421091	Terbufos	93.9	108	P/P	65 - 139
2421091	Terbuthylazine	68.2	90.9	P/P	66 - 117
2421091	Tetradecachloro-m-terphenyl	108	128	P/P	70 - 200
2421091	Thiobencarb	64.7	78.5	P/P	51 - 119
2421091	Tri-o-cresyl Phosphate	94.6	102	P/P	31 - 144
2421091	Triadimefon	81.1	80.8	P/P	48 - 119
2421091	Tris(1-chloro-2-propyl) phosphate (TCPP)	81.0	80.7	P/P	50 - 150
2421091	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	90.8	96.8	P/P	50 - 150
2421091	Tris(2-chloroethyl) phosphate (TCEP)	84.5	98.7	P/P	70 - 180

Reference Method: EPA 8270E
Batch ID: P432528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2424015	Tris(1-chloro-2-propyl) phosphate (TCPP)	112	118	P/P	50 - 150

Reference Method: EPA 8321B
Batch ID: P431924

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420643	Acesulfame K	114	115	P/P	40 - 150
2420643	AMPA	57.2	53.7	P/P	40 - 150
2420643	Endothall	78.9	85.5	P/P	40 - 150
2420643	Glufosinate	69.6	78.5	P/P	40 - 150
2420643	Glyphosate	64.8	56.3	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P431924

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420643	Sucralose	64.5	89.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P431980

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2420603	2,4-D	86.7	104	P/P	40 - 150
2420603	2,4,5-T	111	108	P/P	40 - 150
2420603	Acetaminophen	54.3	55.6	P/P	30 - 150
2420603	Acetamiprid	70.8	71.2	P/P	40 - 150
2420603	Afidopyropen	60.5	50.2	P/P	30 - 150
2420603	Benzovindiflupyr	67.6	70.6	P/P	40 - 150
2420603	Carbamazepine	60.0	59.6	P/P	40 - 150
2420603	Clothianidin	80.9	84.8	P/P	40 - 150
2420603	Dinotefuran	75.3	69.7	P/P	40 - 150
2420603	Diuron	26.4	27.7	F/F	40 - 150
2420603	Fenuron	59.6	57.7	P/P	40 - 150
2420603	Fluridone	68.6	65.4	P/P	40 - 150
2420603	Hydrocodone	70.9	67.2	P/P	40 - 150
2420603	Ibuprofen	72.5	67.4	P/P	40 - 150
2420603	Imidacloprid	105	103	P/P	40 - 150
2420603	Linuron	60.2	53.5	P/P	40 - 150
2420603	Mandestrobin	66.8	72.1	P/P	40 - 150
2420603	MCPP	119	124	P/P	40 - 150
2420603	Naproxen	74.9	84.3	P/P	40 - 150
2420603	Primidone	65.4	75.6	P/P	40 - 150
2420603	Pyraclostrobin	62.1	63.2	P/P	40 - 150
2420603	Silvex	96.1	89.2	P/P	40 - 150
2420603	Thiamethoxam	74.1	72.9	P/P	40 - 150
2420603	Tolfenpyrad	47.9	45.6	P/P	30 - 150
2420603	Triclopyr	95.3	107	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P432224

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421625	Fluoride	100	100	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432157

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2421081	Organic Carbon	93.8	95.3	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P432007

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420973	Color (true)	1.96	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P432008

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421107	Color (true)	0.499	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421076	Turbidity	0.969	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P432042

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421089	Calcium	0.472	Spike	P	0 - 20
2421089	Iron	1.50	Spike	P	0 - 20
2421089	Magnesium	1.06	Spike	P	0 - 20
2421089	Potassium	0.621	Spike	P	0 - 20
2421089	Sodium	0.178	Spike	P	0 - 20
2421089	Strontium	0.615	Spike	P	0 - 20
2421089	Tin	3.19	Spike	P	0 - 20
2421089	Titanium	1.04	Spike	P	0 - 20
2421089	Vanadium	1.19	Spike	P	0 - 20
2421089	Zinc	1.08	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432042

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421089	Aluminum	0.379	Spike	P	0 - 20
2421089	Antimony	0.714	Spike	P	0 - 20
2421089	Arsenic	0.0167	Spike	P	0 - 20
2421089	Barium	0.264	Spike	P	0 - 20
2421089	Beryllium	1.85	Spike	P	0 - 20
2421089	Boron	0.934	Spike	P	0 - 20
2421089	Cadmium	2.38	Spike	P	0 - 20
2421089	Chromium	0.224	Spike	P	0 - 20
2421089	Cobalt	0.531	Spike	P	0 - 20
2421089	Copper	0.477	Spike	P	0 - 20
2421089	Lead	0.357	Spike	P	0 - 20
2421089	Manganese	0.482	Spike	P	0 - 20
2421089	Molybdenum	0.0490	Spike	P	0 - 20
2421089	Nickel	0.713	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P432042

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421089	Selenium	0.0750	Spike	P	0 - 20
2421089	Silver	1.61	Spike	P	0 - 20
2421089	Thallium	0.301	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432087

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420983	Chloride	0.349	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432090

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420983	Sulfate	0.530	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421280	Chloride	0.944	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432244

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421081	Ammonia-N	2.30	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432142

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421081	Kjeldahl Nitrogen	3.88	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432160

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420985	NO2NO3-N	0.211	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432161

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: P432161

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421081	NO2NO3-N	0.980	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432188

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421282	Total-P	0.830	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P432003

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421082	O-Phosphate-P	0.903	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P432051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421091	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	32.4	Spike	P	0 - 37
2421091	Acetochlor	25.4	Spike	P	0 - 28
2421091	Alachlor	11.5	Spike	P	0 - 30
2421091	Ametryn	11.8	Spike	P	0 - 32
2421091	Atrazine	14.0	Spike	P	0 - 41
2421091	Atrazine Desethyl	3.83	Spike	P	0 - 36
2421091	Avobenzone	3.87	Spike	P	0 - 36
2421091	Azinphos Methyl	6.34	Spike	P	0 - 75
2421091	Azoxystrobin	8.21	Spike	P	0 - 39
2421091	Bromacil	19.2	Spike	P	0 - 33
2421091	Butylate	14.7	Spike	P	0 - 44
2421091	Caffeine	44.4	Spike	P	0 - 74
2421091	Carbophenothion	11.8	Spike	P	0 - 25
2421091	Carfentrazone Ethyl	12.2	Spike	P	0 - 27
2421091	Chlorfenapyr	21.3	Spike	P	0 - 24
2421091	Chlorpyrifos Ethyl	0.535	Spike	P	0 - 26
2421091	Chlorpyrifos Methyl	17.6	Spike	P	0 - 26
2421091	Coumaphos	9.88	Spike	P	0 - 28
2421091	Cyanazine	7.09	Spike	P	0 - 48
2421091	Cyprodinil	16.4	Spike	P	0 - 29
2421091	Dechlorane 602	3.24	Spike	P	0 - 30
2421091	Dechlorane 603	6.55	Spike	P	0 - 30
2421091	Dechlorane Plus	5.33	Spike	P	0 - 30
2421091	Demeton	1.80	Spike	P	0 - 33
2421091	Diazinon	43.3	Spike	F	0 - 29
2421091	Difenoconazole	2.87	Spike	P	0 - 34
2421091	Dimethenamid	14.8	Spike	P	0 - 39
2421091	Dimethomorph	6.91	Spike	P	0 - 51
2421091	Disulfoton	21.0	Spike	P	0 - 30
2421091	Dithiopyr	27.7	Spike	F	0 - 26

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P432051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421091	EPTC	13.8	Spike	P	0 - 43
2421091	Ethion	25.8	Spike	P	0 - 79
2421091	Ethoprop	1.13	Spike	P	0 - 29
2421091	Etridiazole	4.24	Spike	P	0 - 33
2421091	Fenamiphos	2.50	Spike	P	0 - 40
2421091	Fenbuconazole	1.26	Spike	P	0 - 74
2421091	Fipronil	28.8	Spike	P	0 - 29
2421091	Fipronil Desulfinyl	24.4	Spike	P	0 - 32
2421091	Fipronil Sulfide	22.3	Spike	P	0 - 30
2421091	Fipronil Sulfone	24.5	Spike	P	0 - 33
2421091	Fluazifop-P-butyl	24.5	Spike	P	0 - 38
2421091	Fludioxonil	10.5	Spike	P	0 - 29
2421091	Flumioxazin	26.1	Spike	P	0 - 51
2421091	Flutolanil	0.274	Spike	P	0 - 25
2421091	Fluxapyroxad	17.7	Spike	P	0 - 45
2421091	Fonofos	30.0	Spike	F	0 - 27
2421091	Hexabromobenzene	73.5	Spike	F	0 - 30
2421091	Hexazinone	1.77	Spike	P	0 - 30
2421091	Imazalil	7.86	Spike	P	0 - 100
2421091	Iprodione	3.78	Spike	P	0 - 33
2421091	Loratadine	0.109	Spike	P	0 - 56
2421091	Malathion	17.0	Spike	P	0 - 37
2421091	Metalaxyl	9.72	Spike	P	0 - 40
2421091	Metolachlor	11.9	Spike	P	0 - 29
2421091	Metribuzin	16.0	Spike	P	0 - 45
2421091	Mevinphos	8.83	Spike	P	0 - 29
2421091	Molinate	12.6	Spike	P	0 - 33
2421091	Myclobutanil	7.75	Spike	P	0 - 26
2421091	Naled	23.9	Spike	P	0 - 37
2421091	Napropamide	23.1	Spike	P	0 - 44
2421091	Norflurazon	12.0	Spike	P	0 - 30
2421091	Octinoxate	8.58	Spike	P	0 - 45
2421091	Oxadiazon	7.97	Spike	P	0 - 28
2421091	Oxybenzone	13.2	Spike	P	0 - 46
2421091	Oxyfluorfen	4.89	Spike	P	0 - 28
2421091	Parathion Ethyl	1.67	Spike	P	0 - 31
2421091	Parathion Methyl	15.8	Spike	P	0 - 29
2421091	PBB-153	26.9	Spike	P	0 - 30
2421091	PBDE-47	12.5	Spike	P	0 - 36
2421091	PBDE-99	22.7	Spike	P	0 - 40
2421091	Pendimethalin	6.39	Spike	P	0 - 33
2421091	Pentabromotoluene	23.1	Spike	P	0 - 30
2421091	Phenytoin	19.9	Spike	P	0 - 100
2421091	Phorate	2.24	Spike	P	0 - 36
2421091	Prodiamine	14.2	Spike	P	0 - 71
2421091	Prometon	2.52	Spike	P	0 - 36
2421091	Prometryn	20.0	Spike	P	0 - 28
2421091	Pronamide	14.0	Spike	P	0 - 24
2421091	Propanil	24.7	Spike	P	0 - 28
2421091	Propargite	17.4	Spike	P	0 - 43
2421091	Propiconazole	9.26	Spike	P	0 - 33

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P432051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421091	Pyraflufen Ethyl	4.03	Spike	P	0 - 29
2421091	Pyridaben	5.96	Spike	P	0 - 30
2421091	Pyriproxyfen	24.5	Spike	P	0 - 79
2421091	Simazine	13.1	Spike	P	0 - 29
2421091	Stirophos	60.7	Spike	P	0 - 61
2421091	Sulfentrazone	2.11	Spike	P	0 - 33
2421091	Tebuconazole	12.9	Spike	P	0 - 69
2421091	Terbufos	13.5	Spike	P	0 - 29
2421091	Terbuthylazine	28.5	Spike	P	0 - 32
2421091	Tetradecachloro-m-terphenyl	16.5	Spike	P	0 - 30
2421091	Thiobencarb	19.4	Spike	P	0 - 26
2421091	Tri-o-cresyl Phosphate	7.69	Spike	P	0 - 33
2421091	Triadimefon	0.380	Spike	P	0 - 28
2421091	Tris(1-chloro-2-propyl) phosphate (TCPP)	0.399	Spike	P	0 - 30
2421091	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	6.41	Spike	P	0 - 30
2421091	Tris(2-chloroethyl) phosphate (TCEP)	15.5	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P432528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2424015	Tris(1-chloro-2-propyl) phosphate (TCPP)	2.01	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P431924

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420643	Acesulfame K	0.596	Spike	P	0 - 30
2420643	AMPA	4.19	Spike	P	0 - 30
2420643	Endothall	8.01	Spike	P	0 - 30
2420643	Glufosinate	12.1	Spike	P	0 - 30
2420643	Glyphosate	5.95	Spike	P	0 - 30
2420643	Sucralose	26.1	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P431980

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420603	2,4-D	17.8	Spike	P	0 - 30
2420603	2,4,5-T	2.45	Spike	P	0 - 30
2420603	Acetaminophen	2.29	Spike	P	0 - 30
2420603	Acetamiprid	0.512	Spike	P	0 - 30
2420603	Afidopyropen	18.6	Spike	P	0 - 30
2420603	Bentazon	2.73	Spike	P	0 - 30
2420603	Benzovindiflupyr	4.37	Spike	P	0 - 30
2420603	Carbamazepine	0.610	Spike	P	0 - 30
2420603	Clothianidin	4.70	Spike	P	0 - 30
2420603	Dinotefuran	7.68	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P431980

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2420603	Diuron	3.52	Spike	P	0 - 30
2420603	Fenuron	3.18	Spike	P	0 - 30
2420603	Fluridone	3.81	Spike	P	0 - 30
2420603	Hydrocodone	5.37	Spike	P	0 - 30
2420603	Ibuprofen	7.28	Spike	P	0 - 30
2420603	Imazapyr	6.80	Spike	P	0 - 30
2420603	Imidacloprid	1.98	Spike	P	0 - 30
2420603	Linuron	11.7	Spike	P	0 - 30
2420603	Mandestrobin	7.63	Spike	P	0 - 30
2420603	MCPP	4.55	Spike	P	0 - 30
2420603	Naproxen	11.8	Spike	P	0 - 30
2420603	Primidone	14.5	Spike	P	0 - 30
2420603	Pyraclostrobin	1.78	Spike	P	0 - 30
2420603	Silvex	7.08	Spike	P	0 - 30
2420603	Thiamethoxam	1.61	Spike	P	0 - 30
2420603	Tolfenpyrad	4.75	Spike	P	0 - 30
2420603	Triclopyr	11.8	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P432220

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421625	Total Alkalinity	1.33	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P432362

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421080	TDS	2.38	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P432224

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421625	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P432157

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2421081	Organic Carbon	1.25	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2421087
Field Sample ID: 20030920

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	50.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	48.6	P	30 - 160
EPA 8321B	Diuron-d6	41.0	P	30 - 160
EPA 8321B	Endothall-d6	83.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	89.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.6	P	30 - 160
EPA 8321B	Primidone-d5	77.6	P	30 - 160
EPA 8321B	Sucralose-d6	79.0	P	30 - 160

Lab Sample ID: 2421088
Field Sample ID: FB_06292023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	87.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	57.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.0	P	30 - 160
EPA 8321B	Diuron-d6	45.9	P	30 - 160
EPA 8321B	Endothall-d6	87.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	106	P	30 - 160
EPA 8321B	Ibuprofen-d3	73.3	P	30 - 160
EPA 8321B	Primidone-d5	79.6	P	30 - 160
EPA 8321B	Sucralose-d6	76.8	P	30 - 160

Lab Sample ID: 2421091
Field Sample ID: 20030920

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	56.4	P	20 - 200
EPA 8270E	Simazine-d10	72.5	P	62 - 142
EPA 8270E	Terbufos-d10	68.2	P	58 - 132
EPA 8270E	Terphenyl-d14	104	P	52 - 137
EPA 8270E	Terphenyl-d14	72.2	P	52 - 137

Lab Sample ID: 2421092
Field Sample ID: FB_06292023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	61.4	P	20 - 200
EPA 8270E	Simazine-d10	80.8	P	62 - 142
EPA 8270E	Terbufos-d10	80.2	P	58 - 132
EPA 8270E	Terphenyl-d14	98.5	P	52 - 137
EPA 8270E	Terphenyl-d14	94.4	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A120129
Included Lab Sample IDs: 2421082, 2421085

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A120130
Included Lab Sample IDs: 2421080, 2421083

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

Reference Method: DEP SOP: NU-094-1
Run ID: A120131
Included Lab Sample IDs: 2421080, 2421083

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	102	P/P	90 - 110
Color (true)	102	103	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A120150
Included Lab Sample IDs: 2421087, 2421088

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	139	148	P/P	60 - 160
Acesulfame K	148	148	P/P	60 - 160
Sucralose	80.7	77.4	P/P	60 - 160
Sucralose	89.2	80.7	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A120153
Included Lab Sample IDs: 2421087, 2421088

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	133	153	P/P	60 - 160
AMPA	153	144	P/P	60 - 160
Endothall	72.1	83.7	P/P	60 - 160
Endothall	83.7	90.9	P/P	60 - 160
Glufosinate	92.5	99.2	P/P	60 - 160
Glufosinate	95.4	92.5	P/P	60 - 160
Glyphosate	109	112	P/P	60 - 160
Glyphosate	112	104	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A120174
Included Lab Sample IDs: 2421089, 2421090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.8	99.0	P/P	90 - 110
Antimony	99.5	98.2	P/P	90 - 110
Arsenic	98.7	99.0	P/P	90 - 110
Barium	99.6	98.5	P/P	90 - 110
Beryllium	96.9	97.0	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A120174
Included Lab Sample IDs: 2421089, 2421090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	97.6	100	P/P	90 - 110
Cadmium	99.9	99.4	P/P	90 - 110
Chromium	98.6	97.0	P/P	90 - 110
Copper	97.6	96.9	P/P	90 - 110
Lead	92.4	92.3	P/P	90 - 110
Manganese	98.2	98.3	P/P	90 - 110
Molybdenum	99.3	98.1	P/P	90 - 110
Nickel	97.3	97.2	P/P	90 - 110
Selenium	98.3	99.4	P/P	90 - 110
Silver	102	102	P/P	90 - 110
Thallium	99.8	100	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A120184
Included Lab Sample IDs: 2421083

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	108	108	P/P	90 - 110
Sulfate	105	106	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A120215
Included Lab Sample IDs: 2421081, 2421084

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	97.7	P/P	90 - 110
Organic Carbon	97.6	97.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A120222
Included Lab Sample IDs: 2421081, 2421084

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A120245
Included Lab Sample IDs: 2421089, 2421090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cobalt	98.8	98.3	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A120247
Included Lab Sample IDs: 2421080, 2421083

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.2	93.3	P/P	90 - 110

Quality Assurance Report
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Reference Method: SM 4500-F- C-2011
Run ID: A120247
Included Lab Sample IDs: 2421080, 2421083

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A120253
Included Lab Sample IDs: 2421089, 2421090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	96.4	98.2	P/P	90 - 110
Calcium	97.4	96.4	P/P	90 - 110
Iron	101	99.4	P/P	90 - 110
Iron	99.4	101	P/P	90 - 110
Magnesium	98.1	98.9	P/P	90 - 110
Magnesium	98.9	98.3	P/P	90 - 110
Potassium	95.3	97.2	P/P	90 - 110
Potassium	97.2	95.4	P/P	90 - 110
Sodium	95.0	97.4	P/P	90 - 110
Sodium	97.4	96.2	P/P	90 - 110
Strontium	100	100	P/P	90 - 110
Strontium	98.4	100	P/P	90 - 110
Tin	97.6	98.6	P/P	90 - 110
Tin	97.9	97.6	P/P	90 - 110
Titanium	97.6	97.7	P/P	90 - 110
Titanium	98.0	97.6	P/P	90 - 110
Vanadium	97.3	97.7	P/P	90 - 110
Vanadium	97.6	97.3	P/P	90 - 110
Zinc	98.6	99.9	P/P	90 - 110
Zinc	99.3	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A120254
Included Lab Sample IDs: 2421081, 2421084

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

Reference Method: EPA 8321B
Run ID: A120262
Included Lab Sample IDs: 2421087, 2421088

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	95.2	96.2	P/P	50 - 150
2,4,5-T	103	97.8	P/P	50 - 150
Acetaminophen	81.3	81.2	P/P	60 - 160
Acetamiprid	101	98.6	P/P	50 - 150
Afidopyropen	115	96.3	P/P	50 - 150
Bentazon	126	135	P/P	50 - 160
Benzovindiflupyr	95.5	95.6	P/P	50 - 150
Carbamazepine	105	98.9	P/P	60 - 150
Clothianidin	117	109	P/P	60 - 150
Dinotefuran	113	116	P/P	50 - 150
Diuron	103	108	P/P	60 - 160

Quality Assurance Report
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Reference Method: EPA 8321B
Run ID: A120262
Included Lab Sample IDs: 2421087, 2421088

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fenuron	101	106	P/P	60 - 150
Fluridone	106	104	P/P	60 - 160
Hydrocodone	110	111	P/P	60 - 150
Ibuprofen	112	125	P/P	50 - 160
Imazapyr	91.8	96.8	P/P	50 - 150
Imidacloprid	110	104	P/P	60 - 150
Linuron	96.5	85.6	P/P	60 - 150
Mandestrobin	106	96.1	P/P	50 - 150
MCPP	103	99.4	P/P	50 - 150
Naproxen	101	116	P/P	50 - 160
Primidone	103	99.5	P/P	60 - 150
Pyraclostrobin	90.7	91.1	P/P	60 - 150
Silvex	98.0	93.6	P/P	50 - 150
Thiamethoxam	101	104	P/P	50 - 150
Tolfenpyrad	92.8	95.5	P/P	60 - 150
Triclopyr	103	91.9	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A120263
Included Lab Sample IDs: 2421081, 2421084

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.4	98.3	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A120275
Included Lab Sample IDs: 2421091, 2421092

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.9		P	80 - 120
Alachlor	86.9		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	95.2		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	98.4		P	80 - 120
Azoxystrobin	98.1		P	80 - 120
Bromacil	98.1		P	80 - 120
Butylate	99.3		P	80 - 120
Caffeine	97.9		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	90.4		P	80 - 120
Chlorpyrifos Ethyl	85.4		P	80 - 120
Chlorpyrifos Methyl	97.1		P	80 - 120
Coumaphos	100		P	80 - 120
Cyanazine	107		P	80 - 120
Cyprodinil	92.0		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	102		P	80 - 120
Difenoconazole	95.4		P	80 - 120
Dimethenamid	96.6		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120275
Included Lab Sample IDs: 2421091, 2421092

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dimethomorph	87.4		P	80 - 120
Disulfoton	110		P	80 - 120
Dithiopyr	97.9		P	80 - 120
EPTC	103		P	80 - 120
Ethion	96.9		P	80 - 120
Ethoprop	105		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	86.4		P	80 - 120
Fenbuconazole	84.7		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	82.2		P	80 - 120
Fludioxonil	88.4		P	80 - 120
Flumioxazin	105		P	80 - 120
Flutolanil	99.4		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	99.8		P	80 - 120
Hexazinone	98.6		P	80 - 120
Imazalil	95.2		P	80 - 120
Iprodione	96.4		P	80 - 120
Loratadine	101		P	80 - 120
Malathion	93.7		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	98.8		P	80 - 120
Mevinphos	113		P	80 - 120
Molinate	91.3		P	80 - 120
Myclobutanil	88.5		P	80 - 120
Naled	86.7		P	80 - 120
Napropamide	101		P	80 - 120
Norflurazon	101		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	106		P	80 - 120
Parathion Ethyl	99.0		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	112		P	80 - 120
Phenytoin	107		P	80 - 120
Phorate	106		P	80 - 120
Prodiamine	118		P	80 - 120
Prometon	98.8		P	80 - 120
Prometryn	90.2		P	80 - 120
Pronamide	95.8		P	80 - 120
Propanil	101		P	80 - 120
Propargite	102		P	80 - 120
Propiconazole	87.7		P	80 - 120
Pyraflufen Ethyl	103		P	80 - 120
Pyridaben	107		P	80 - 120
Pyriproxyfen	99.4		P	80 - 120
Simazine	81.9		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120275
Included Lab Sample IDs: 2421091, 2421092

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Stirophos	99.3		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	101		P	80 - 120
Terbuthylazine	84.3		P	80 - 120
Thiobencarb	98.1		P	80 - 120
Triadimefon	102		P	80 - 120

Reference Method: EPA 8270E
Run ID: A120277
Included Lab Sample IDs: 2421091, 2421092

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.9		P	80 - 120
Avobenzone	99.8		P	80 - 120
Dechlorane 602	101		P	80 - 120
Dechlorane 603	97.9		P	80 - 120
Dechlorane Plus	100		P	80 - 120
Hexabromobenzene	100		P	80 - 120
Octinoxate	93.0		P	80 - 120
Oxybenzone	95.1		P	80 - 120
PBB-153	95.9		P	80 - 120
PBDE-47	99.6		P	80 - 120
PBDE-99	100		P	80 - 120
Pentabromotoluene	98.3		P	80 - 120
Tetradecachloro-m-terphenyl	98.2		P	80 - 120
Tri-o-cresyl Phosphate	98.9		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	97.6		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	99.2		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	95.9		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A120290
Included Lab Sample IDs: 2421081, 2421084

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	95.8	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A120300
Included Lab Sample IDs: 2421080

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110
Sulfate	99.2	101	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A120570
Included Lab Sample IDs: 2421092

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A120570
Included Lab Sample IDs: 2421092

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tris(1-chloro-2-propyl) phosphate (TCPP)	91.2		P	80 - 120

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	98.5				1.96	
	Color (true)	101				0.499	
EPA 180.1 Rev. 2.0	Turbidity	100				0.969	
EPA 200.7 Rev. 4.4	Calcium	97.6	100				0.472
	Iron	103	102	104			1.50
	Magnesium	102	98.8	101			1.06
	Potassium	99.4	97.0	97.9			0.621
	Sodium	98.2	98.7				0.178
	Strontium	97.5	96.4	97.1			0.615
	Tin	95.6	95.4	98.5			3.19
	Titanium	97.0	95.7	96.7			1.04
	Vanadium	96.7	95.9	97.1			1.19
	Zinc	99.1	98.7	99.8			1.08
EPA 200.8 Rev. 5.4	Aluminum	98.1	96.3	96.6			0.379
	Antimony	99.3	100	101			0.714
	Arsenic	96.3	99.6	99.6			0.0167
	Barium	99.2	99.9	100			0.264
	Beryllium	92.8	95.8	97.5			1.85
	Boron	103	98.7	97.4			0.934
	Cadmium	97.9	98.0	100			2.38
	Chromium	96.1	97.4	97.6			0.224
	Cobalt	98.5	97.6	98.1			0.531
	Copper	95.6	98.0	98.5			0.477
	Lead	91.8	94.2	93.9			0.357
	Manganese	96.3	97.2	97.7			0.482
	Molybdenum	96.9	99.9	99.8			0.0490
	Nickel	96.3	96.9	97.6			0.713
	Selenium	96.0	97.4	97.4			0.0750
	Silver	71.6	71.0	69.9			1.61
	Thallium	97.8	103	103			0.301
EPA 300.0 Rev. 2.1	Chloride	101	99.7			0.349	
	Chloride	101	102	102		0.944	
	Sulfate	97.5	97.5			0.530	
	Sulfate	97.3	98.9	96.4			
EPA 350.1 Rev. 2.0	Ammonia-N	96.6	94.6	97.0			2.30
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	106	111			3.88
EPA 353.2 Rev. 2.0	NO2NO3-N	102	95.0				0.211
	NO2NO3-N	101	102	102			0.980
EPA 365.1 Rev. 2.0	Total-P	101	102	101			0.830
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.9	99.2	100			0.903
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	75.2	61.4	85.1			32.4
	Acetochlor	88.0	72.2	93.2			25.4
	Alachlor	67.3	67.0	75.2			11.5
	Ametryn	140	98.1	110			11.8
	Atrazine	89.2	83.4	100			14.0
	Atrazine Desethyl	79.6	84.8	88.1			3.83
	Avobenzone	92.9	131	126			3.87
	Azinphos Methyl	85.4	109	102			6.34
	Azoxystrobin	67.5	114	105			8.21
	Bromacil	88.2	93.1	113			19.2
	Butylate	49.4	45.9	53.1			14.7
	Caffeine	103	246	152			44.4

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Carbophenothion	96.9	90.2	102			11.8
	Carfentrazone Ethyl	108	101	114			12.2
	Chlorfenapyr	68.2	54.7	67.7			21.3
	Chlorpyrifos Ethyl	82.3	62.7	62.3			0.535
	Chlorpyrifos Methyl	83.8	69.4	82.8			17.6
	Coumaphos	71.3	104	115			9.88
	Cyanazine	120	111	119			7.09
	Cyprodinil	65.6	56.9	67.1			16.4
	Dechlorane 602	78.0	60.4	58.4			3.24
	Dechlorane 603	94.1	98.5	105			6.55
	Dechlorane Plus	91.9	73.7	69.8			5.33
	Demeton	61.0	76.2	77.6			1.80
	Diazinon	98.1	70.2	109			43.3
	Difenoconazole	56.2	97.1	100			2.87
	Dimethenamid	77.8	55.2	64.1			14.8
	Dimethomorph	105	211	197			6.91
	Disulfoton	95.0	77.2	95.3			21.0
	Dithiopyr	92.4	70.2	92.8			27.7
	EPTC	46.9	41.3	47.4			13.8
	Ethion	88.4	40.1	30.9			25.8
	Ethoprop	81.7	94.1	93.0			1.13
	Etridiazole	62.7	62.7	65.4			4.24
	Fenamiphos	78.4	116	113			2.50
	Fenbuconazole	35.6	69.0	68.1			1.26
	Fipronil	109	81.3	109			28.8
	Fipronil Desulfinyl	91.7	77.7	101			24.4
	Fipronil Sulfide	91.5	68.9	89.5			22.3
	Fipronil Sulfone	98.2	83.5	114			24.5
	Fluazifop-P-butyl	51.9	57.2	44.7			24.5
	Fludioxonil	67.7	61.2	68.0			10.5
	Flumioxazin	110	163	125			26.1
	Flutolanil	67.0	52.4	52.5			0.274
	Fluxapyroxad	91.7	77.1	64.5			17.7
	Fonofos	75.3	60.6	81.9			30.0
	Hexabromobenzene	92.0	51.3	111			73.5
	Hexazinone	89.2	77.0	78.4			1.77
	Imazalil	69.8	78.7	72.8			7.86
	Iprodione	108	90.2	93.6			3.78
	Loratadine	105	200	201			0.109
	Malathion	125	106	125			17.0
	Metalaxyl	97.7	88.5	97.5			9.72
	Metolachlor	108	107	94.6			11.9
	Metribuzin	82.2	79.3	93.0			16.0
	Mevinphos	78.7	102	111			8.83
	Molinate	56.0	58.6	66.4			12.6
	Myclobutanil	85.7	81.6	88.1			7.75
	Naled	27.6	24.3	30.9			23.9
	Napropamide	88.8	51.5	40.9			23.1
	Norflurazon	81.4	81.8	92.3			12.0
	Octinoxate	93.3	98.2	107			8.58
	Oxadiazon	82.0	73.8	79.9			7.97
	Oxybenzone	95.8	91.1	104			13.2
	Oxyfluorfen	101	101	106			4.89
	Parathion Ethyl	86.5	83.2	84.6			1.67

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Parathion Methyl	99.7	109	128			15.8
	PBB-153	94.6	78.1	102			26.9
	PBDE-47	94.2	79.0	89.6			12.5
	PBDE-99	81.2	61.1	76.8			22.7
	Pendimethalin	104	95.3	102			6.39
	Pentabromotoluene	80.6	76.3	96.1			23.1
	Phenytoin	63.1	22.3	18.3			19.9
	Phorate	65.7	83.9	85.8			2.24
	Prodiamine	37.3	28.0	32.2			14.2
	Prometon	74.3	72.6	74.4			2.52
	Prometryn	71.5	61.0	74.6			20.0
	Pronamide	100	94.0	108			14.0
	Propanil	112	93.2	120			24.7
	Propargite	97.3	44.5	37.3			17.4
	Propiconazole	72.4	68.9	76.8			9.26
	Pyraflufen Ethyl	98.0	92.1	95.9			4.03
	Pyridaben	67.1	73.6	66.0			5.96
	Pyriproxyfen	73.2	67.9	53.1			24.5
	Simazine	71.9	64.7	73.8			13.1
	Stirophos	121	22.5	42.1			60.7
	Sulfentrazone	75.6	91.7	93.6			2.11
	Tebuconazole	79.7	41.1	34.1			12.9
	Terbufos	95.2	93.9	108			13.5
	Terbuthylazine	81.6	68.2	90.9			28.5
	Tetradecachloro-m-terphenyl	113	128	108			16.5
	Thiobencarb	89.4	64.7	78.5			19.4
	Tri-o-cresyl Phosphate	95.4	94.6	102			7.69
	Triadimefon	93.7	81.1	80.8			0.380
	Tris(1-chloro-2-propyl) phosphate (TCPP)	102	80.7	81.0			0.399
	Tris(1-chloro-2-propyl) phosphate (TCPP)	125	112	118			2.01
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	89.3	96.8	90.8			6.41
	Tris(2-chloroethyl) phosphate (TCEP)	98.7	98.7	84.5			15.5
EPA 8321B	2,4-D	103	86.7	104			17.8
	2,4,5-T	96.9	108	111			2.45
	Acesulfame K	144	114	115			0.596
	Acetaminophen	59.8	54.3	55.6			2.29
	Acetamiprid	65.8	70.8	71.2			0.512
	Afidopyropen	46.5	60.5	50.2			18.6
	AMPA	127	57.2	53.7			4.19
	Bentazon	107					2.73
	Benzovindiflupyr	74.0	67.6	70.6			4.37
	Carbamazepine	69.7	60.0	59.6			0.610
	Clothianidin	84.7	80.9	84.8			4.70
	Dinotefuran	89.4	75.3	69.7			7.68
	Diuron	45.2	26.4	27.7			3.52
	Endothall	70.2	78.9	85.5			8.01
	Fenuron	83.0	59.6	57.7			3.18
	Fluridone	90.3	68.6	65.4			3.81
	Glufosinate	93.7	69.6	78.5			12.1
	Glyphosate	110	64.8	56.3			5.95
	Hydrocodone	85.9	70.9	67.2			5.37

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Ibuprofen	75.9	67.4	72.5			7.28
	Imazapyr	79.7					6.80
	Imidacloprid	88.7	105	103			1.98
	Linuron	60.3	60.2	53.5			11.7
	Mandestrobin	85.7	66.8	72.1			7.63
	MCPP	110	119	124			4.55
	Naproxen	77.3	84.3	74.9			11.8
	Primidone	77.9	65.4	75.6			14.5
	Pyraclostrobin	67.2	62.1	63.2			1.78
	Silvex	122	89.2	96.1			7.08
	Sucralose	79.1	64.5	89.2			26.1
	Thiamethoxam	84.5	74.1	72.9			1.61
	Tolfenpyrad	59.0	47.9	45.6			4.75
	Triclopyr	98.2	95.3	107			11.8
SM 2320 B-2011	Total Alkalinity	96.4				1.33	
SM 2540 C-2015	TDS	106				2.38	
SM 2540 D-2015	TSS	96.4					
SM 4500-F- C-2011	Fluoride	99.2	100	100			0.0
SM 5310 B-2011	Organic Carbon	96.5	93.8	95.3			1.25

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2421080, 2421083
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2421080, 2421083
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2421089, 2421090
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2421089, 2421090
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2421080, 2421083
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2421080, 2421083
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2421081, 2421084
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2421081, 2421084
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2421081, 2421084
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2421081, 2421084
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2421082, 2421085
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2421091, 2421092
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2421091, 2421092
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2421087, 2421088
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2421080, 2421083
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2421089, 2421090
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2421080, 2421083
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2421080, 2421083
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2421080, 2421083
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2421081, 2421084

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	06/30/2023			06/30/2023 13:52	Samantha L Bates	2421080
	06/30/2023			06/30/2023 13:56	Samantha L Bates	2421083
EPA 180.1 Rev. 2.0	06/30/2023			06/30/2023 12:05	Chandler E Cox	2421080, 2421083
EPA 200.7 Rev. 4.4	06/30/2023	07/05/2023 11:30	George D Taylor	07/07/2023 18:09	McKinley C Carter	2421090
	06/30/2023	07/05/2023 11:30	George D Taylor	07/07/2023 19:55	McKinley C Carter	2421089
EPA 200.8 Rev. 5.4	06/30/2023	07/05/2023 11:30	George D Taylor	07/05/2023 18:42	Conrad Hartmann	2421090
	06/30/2023	07/05/2023 11:30	George D Taylor	07/05/2023 19:30	Conrad Hartmann	2421089
	06/30/2023	07/05/2023 11:30	George D Taylor	07/07/2023 13:06	Conrad Hartmann	2421090
	06/30/2023	07/05/2023 11:30	George D Taylor	07/07/2023 13:51	Conrad Hartmann	2421089
EPA 300.0 Rev. 2.1	06/30/2023			07/06/2023 10:28	James L Waggerby	2421083
	06/30/2023			07/10/2023 19:33	James L Waggerby	2421080
EPA 350.1 Rev. 2.0	06/30/2023			07/10/2023 11:41	Khloe J Berg	2421081
	06/30/2023			07/10/2023 11:45	Khloe J Berg	2421084
EPA 351.2 Rev. 2.0	06/30/2023	07/07/2023 11:48	Simonne.V. Calhoun	07/10/2023 09:18	Samantha L Bates	2421081
	06/30/2023	07/07/2023 11:48	Simonne.V. Calhoun	07/10/2023 09:22	Samantha L Bates	2421084
EPA 353.2 Rev. 2.0	06/30/2023			07/07/2023 09:58	Beverly Y. Sanders	2421084
	06/30/2023			07/07/2023 10:05	Beverly Y. Sanders	2421081
EPA 365.1 Rev. 2.0	06/30/2023	07/07/2023 16:02	Adam P Silver	07/11/2023 13:08	Simonne.V. Calhoun	2421084
	06/30/2023	07/07/2023 16:02	Adam P Silver	07/11/2023 13:11	Simonne.V. Calhoun	2421081
EPA 365.1 Rev. 2.0 dissolved	06/30/2023			06/30/2023 14:00	Elise M. Gillis	2421082
	06/30/2023			06/30/2023 14:03	Elise M. Gillis	2421085
EPA 8270E	06/30/2023	07/06/2023 08:00	Rasheda Ghaffari	07/08/2023 17:35	Michael Poppell	2421091
	06/30/2023	07/06/2023 08:00	Rasheda Ghaffari	07/08/2023 18:29	Michael Poppell	2421092
	06/30/2023	07/06/2023 08:00	Rasheda Ghaffari	07/10/2023 19:36	Arthur Maknenko	2421091
	06/30/2023	07/06/2023 08:00	Rasheda Ghaffari	07/10/2023 20:28	Arthur Maknenko	2421092
	06/30/2023	07/18/2023 08:45	Rasheda Ghaffari	07/21/2023 19:54	Arthur Maknenko	2421092
EPA 8321B	06/30/2023	06/30/2023 16:00	Hana Lee	07/01/2023 07:22	Tae K Lee	2421087
	06/30/2023	06/30/2023 16:00	Hana Lee	07/01/2023 07:50	Tae K Lee	2421088
	06/30/2023	06/30/2023 16:00	Hana Lee	07/02/2023 03:59	Tae K Lee	2421087
	06/30/2023	06/30/2023 16:00	Hana Lee	07/02/2023 04:25	Tae K Lee	2421088
	06/30/2023	07/01/2023 09:00	Hoor Shaik	07/07/2023 15:31	Juyoung Kim	2421087
	06/30/2023	07/01/2023 09:00	Hoor Shaik	07/07/2023 15:49	Juyoung Kim	2421088
SM 2320 B-2011	06/30/2023			07/08/2023 05:55	Dale L. Simmons	2421080
	06/30/2023			07/08/2023 06:04	Dale L. Simmons	2421083
SM 2340 B-2011	06/30/2023			07/07/2023 18:09	McKinley C Carter	2421090
	06/30/2023			07/07/2023 19:55	McKinley C Carter	2421089
SM 2540 C-2015	06/30/2023			07/05/2023 13:06	Yijie Li	2421080, 2421083
SM 2540 D-2015	06/30/2023			07/05/2023 13:06	Yijie Li	2421080, 2421083
SM 4500-F- C-2011	06/30/2023			07/08/2023 05:55	Dale L. Simmons	2421080
	06/30/2023			07/08/2023 06:04	Dale L. Simmons	2421083

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-2011	06/30/2023			07/07/2023 01:31	Elise M. Gillis	2421081
	06/30/2023			07/07/2023 07:13	Elise M. Gillis	2421084