

Chemical Analysis Report

NE-DIST-2023-11-29-01

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

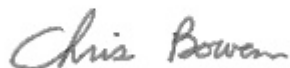
Event Description: **SCI Red Bay Branch**
Request ID: **RQ-2023-11-13-55**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 22-DEC-2023 09:21



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: TERRAPIN CREEK AT FAYE ROAD

Collection Date/Time: 11/28/2023 11:45

Field ID: 20030653

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2453326	DEP SOP: NU-094-1	Color (true)	80	A	PCU	P438281	
	EPA 180.1 Rev. 2.0	Turbidity	3.0	A	NTU	P438292	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P438417	
		Sulfate	17		mg SO4/L	P438418	
	SM 2320 B-2011	Total Alkalinity	16		mg CaCO3/L	P438459	
	SM 2540 C-2015	TDS	104		mg/L	P438789	
	SM 2540 D-2015	TSS	3	I	mg/L	P438694	
2453328	SM 4500-F- C-2011	Fluoride	0.045	I	mg F/L	P438462	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P438566	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.51		mg N/L	P438526	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P438674	
	EPA 365.1 Rev. 2.0	Total-P	0.055		mg P/L	P438408	
2453330	SM 5310 B-2011	Organic Carbon	12		mg C/L	P438441	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.031		mg P/L	P438286	
2453337	EPA 8321B	2,4-D	0.0020	U	ug/L	P438273	
		Acesulfame K	0.10	U	ug/L	P438271	
		2,4,5-T	0.0040	U	ug/L	P438273	
		AMPA	0.10	U	ug/L	P438271	
		Acetaminophen	0.0080	U	ug/L	P438273	
		Acetamiprid	0.0020	U	ug/L	P438273	
		Endothall	0.25	U	ug/L	P438271	
		Glufosinate	0.10	U	ug/L	P438271	
		Glyphosate	0.10	U	ug/L	P438271	
		Afidopyrophen	0.0020	U	ug/L	P438273	
		Bentazon	0.0020	I	ug/L	P438273	
		Sucralose	0.052		ug/L	P438271	
		Benzovindiflupyr	0.0020	U	ug/L	P438273	
		Carbamazepine	8.0E-04	U	ug/L	P438273	
		Clothianidin	0.0020	U	ug/L	P438273	
		Dinotefuran	0.0020	U	ug/L	P438273	
		Diuron	0.0020	U	ug/L	P438273	
		Fenuron	0.032	U	ug/L	P438273	
		Fluridone	0.18		ug/L	P438273	
		Imazapyr	0.087		ug/L	P438273	
		Hydrocodone	0.0020	U	ug/L	P438273	
		Ibuprofen	0.080	U	ug/L	P438273	
		Imidacloprid	0.0030	I	ug/L	P438273	
		Linuron	0.0040	U	ug/L	P438273	
		Mandestrobin	0.0020	U	ug/L	P438273	
		MCPD	0.0020	U	ug/L	P438273	
		Naproxen	0.0080	U	ug/L	P438273	
		Primidone	0.0040	U	ug/L	P438273	
		Pyraclostrobin	0.0020	U	ug/L	P438273	

Field ID: 20030653

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2453337	EPA 8321B	Silvex	0.0040	U	ug/L	P438273	
		Thiamethoxam	0.0020	U	ug/L	P438273	
		Tolfenpyrad	0.0020	U	ug/L	P438273	
		Triclopyr	0.0040	U	ug/L	P438273	
2453338	EPA 200.7 Rev. 4.4	Calcium	11.8		mg/L	P438349	
		Iron	470		ug/L	P438349	
		Magnesium	2.48		mg/L	P438349	
		Potassium	1.3		mg/L	P438349	
		Sodium	9.8		mg/L	P438349	
		Strontium	53.3		ug/L	P438349	
		Tin	3.0	U	ug/L	P438349	
		Titanium	0.75	U	ug/L	P438349	
		Vanadium	3.4	I	ug/L	P438349	
		Zinc	5.0	U	ug/L	P438349	
	EPA 200.8 Rev. 5.4	Aluminum	321		ug/L	P438349	
		Antimony	0.083	I	ug/L	P438349	
		Arsenic	0.31		ug/L	P438349	
		Barium	14.1		ug/L	P438349	
		Beryllium	0.055		ug/L	P438349	
		Boron	19.7		ug/L	P438349	
		Cadmium	0.020	U	ug/L	P438349	
		Chromium	0.65	I	ug/L	P438564	
		Cobalt	0.271		ug/L	P438349	
		Copper	0.88		ug/L	P438349	
		Lead	0.20	U	ug/L	P438349	
		Manganese	8.69		ug/L	P438349	
		Molybdenum	0.32	I	ug/L	P438349	
		Nickel	1.0	I	ug/L	P438564	
		Selenium	0.20	U	ug/L	P438349	
		Silver	0.010	U	ug/L	P438349	
		Thallium	0.10	U	ug/L	P438349	
	SM 2340 B-2011	Hardness	39.6		mg/L	P438349	
2453340	EPA 8270E	Oxybenzone**	10	U	ng/L	P438493	
		Acetochlor	0.21	U	ng/L	P438493	
		Octinoxate**	160	U	ng/L	P438493	
		Alachlor	0.42	U	ng/L	P438493	
		Avobenzone**	100	U	ng/L	P438493	
		Ametryn	1.2	U	ng/L	P438493	
		Atrazine	1.9		ng/L	P438493	
		PBDE-47**	4.2	U	ng/L	P438493	
		Atrazine Desethyl	1.4	U	ng/L	P438493	
		PBDE-99**	5.2	U	ng/L	P438493	
		Azinphos Methyl	3.1	U	ng/L	P438493	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P438493	
		Azoxystrobin	0.42	U	ng/L	P438493	

Field ID: 20030653

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2453340	EPA 8270E	Bromacil	0.63	U	ng/L	P438493	
		2-Ethylhexyl	13	U	ng/L	P438493	RPD
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.47	U	ng/L	P438493	
		Dechlorane Plus**	31	U	ng/L	P438493	
		Caffeine**	16	I	ng/L	P438493	
		Dechlorane 602**	5.2	U	ng/L	P438493	
		Carbophenothion	0.52	U	ng/L	P438493	
		Dechlorane 603**	4.2	U	ng/L	P438493	
		Carfentrazone Ethyl	0.16	U	ng/L	P438493	
		Hexabromobenzene**	6.3	U	ng/L	P438493	
		Chlorfenapyr	0.31	U	ng/L	P438493	
		PBB-153**	6.3	U	ng/L	P438493	RPD
		Chlorpyrifos Ethyl	0.31	U	ng/L	P438493	
		Pentabromotoluene**	3.1	U	ng/L	P438493	
		Chlorpyrifos Methyl	0.10	UJ	ng/L	P438493	LCS
		Tris(2-chloroethyl) phosphate (TCEP)**	58	U	ng/L	P438493	
		Coumaphos	1.1	U	ng/L	P438493	RPD
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	30	I	ng/L	P438493	
		Cyanazine	5.2	U	ng/L	P438493	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P438493	
		Cyprodinil	0.21	U	ng/L	P438493	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P438493	
		Demeton	3.7	U	ng/L	P438493	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	63	U	ng/L	P438493	
		Diazinon	0.13	U	ng/L	P438493	
		Difenoconazole	0.63	U	ng/L	P438493	
		Dimethenamid	0.10	U	ng/L	P438493	
		Dimethomorph	0.31	U	ng/L	P438493	
		Disulfoton	0.63	U	ng/L	P438493	
		Dithiopyr	1.0	U	ng/L	P438493	
		EPTC	0.52	U	ng/L	P438493	
		Ethion	0.31	U	ng/L	P438493	
		Ethoprop	0.13	U	ng/L	P438493	
		Etridiazole	0.10	U	ng/L	P438493	
		Fenamiphos	0.47	U	ng/L	P438493	
		Fenbuconazole	0.52	U	ng/L	P438493	
		Fipronil	0.21	U	ng/L	P438493	
		Fipronil Desulfinyl**	0.17	I	ng/L	P438493	
		Fipronil Sulfide	0.15	I	ng/L	P438493	
		Fipronil Sulfone	0.31	I	ng/L	P438493	
		Fluazifop-P-butyl	0.10	U	ng/L	P438493	
		Fludioxonil	0.10	U	ng/L	P438493	
		Flumioxazin	3.1	U	ng/L	P438493	

Field ID: 20030653

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2453340	EPA 8270E	Flutolanil	0.10	U	ng/L	P438493	
		Fluxapyroxad	0.26	U	ng/L	P438493	
		Fonofos	0.16	U	ng/L	P438493	
		Hexazinone	0.52	U	ng/L	P438493	
		Imazalil	0.68	U	ng/L	P438493	
		Iprodione	0.52	U	ng/L	P438493	
		Loratadine**	0.31	U	ng/L	P438493	RPD
		Malathion	0.37	U	ng/L	P438493	
		Metalaxyl	0.52	U	ng/L	P438493	
		Metolachlor	0.78	U	ng/L	P438493	
		Metribuzin	0.42	U	ng/L	P438493	
		Mevinphos	1.0	U	ng/L	P438493	
		Molinate	0.26	U	ng/L	P438493	
		Myclobutanil	0.37	U	ng/L	P438493	
		Naled	2.6	U	ng/L	P438493	
		Napropamide	0.73	U	ng/L	P438493	
		Norflurazon	1.0	U	ng/L	P438493	
		Oxadiazon	0.37	U	ng/L	P438493	
		Oxyfluorfen	0.21	U	ng/L	P438493	
		Parathion Ethyl	0.16	U	ng/L	P438493	
		Parathion Methyl	0.21	UJ	ng/L	P438493	CCV
		Pendimethalin	1.8	UJ	ng/L	P438493	LCS, MS
		Phenytol**	5.5	U	ng/L	P438493	
		Phorate	0.26	U	ng/L	P438493	
		Prodiamine	0.21	U	ng/L	P438493	
		Prometon	3.1	U	ng/L	P438493	
		Prometryn	0.37	U	ng/L	P438493	
		Pronamide	0.10	U	ng/L	P438493	
		Propanil	0.10	U	ng/L	P438493	
		Propargite	0.84	U	ng/L	P438493	
		Propiconazole	0.63	U	ng/L	P438493	
		Pyraflufen Ethyl	0.31	U	ng/L	P438493	
		Pyridaben	1.5	UJ	ng/L	P438493	CCV
		Pyriproxyfen	0.26	U	ng/L	P438493	
		Simazine	0.26	U	ng/L	P438493	
		Stirophos	0.42	U	ng/L	P438493	
		Sulfentrazone	1.5	U	ng/L	P438493	
		Tebuconazole	1.5	U	ng/L	P438493	
		Terbufos	0.21	U	ng/L	P438493	
		Terbutylazine	0.21	U	ng/L	P438493	
		Thiobencarb	0.52	U	ng/L	P438493	
		Triadimefon	0.16	U	ng/L	P438493	

Ref. Method and Comment:

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

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P438281

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438292

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438349

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	35	I	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: P438349

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Cobalt	0.026	I	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.17	I	ug/L
Molybdenum	0.15	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438564

Component	Result	Code	Units
Chromium	0.40	U	ug/L
Nickel	0.50	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438417

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438418

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438566

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438526

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438674

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438408

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P438286

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

Reference Method: EPA 8270E
Batch ID: P438493

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	63	I	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P438493

Component	Result	Code	Units
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P438493

Component	Result	Code	Units
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	6.0	U	ng/L
PBDE-47	9.8	I	ng/L
PBDE-99	11	I	ng/L
Pendimethalin	1.7	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoln	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stiophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8321B

Batch ID: P438271

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: P438273

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P438273

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: P438459

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

Reference Method: SM 2540 C-2015

Batch ID: P438789

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P438694

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P438462

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P438441

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: P438281

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438292

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438349

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	96.5		P	85 - 115
Iron	89.0		P	85 - 115
Magnesium	91.0		P	85 - 115
Potassium	87.7		P	85 - 115
Sodium	88.8		P	85 - 115
Strontium	100		P	85 - 115
Tin	99.5		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	99.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438349

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.3		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	100		P	85 - 115
Barium	102		P	85 - 115
Beryllium	95.1		P	85 - 115
Boron	98.5		P	85 - 115
Cadmium	100		P	85 - 115
Cobalt	97.3		P	85 - 115
Copper	98.0		P	85 - 115
Lead	96.3		P	85 - 115
Manganese	98.0		P	85 - 115
Molybdenum	99.0		P	85 - 115
Selenium	99.7		P	85 - 115
Silver	101		P	85 - 115
Thallium	99.3		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438564

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chromium	101		P	85 - 115
Nickel	98.3		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438417

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438418

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438566

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438526

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438674

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438408

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P438286

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

Reference Method: EPA 8270E
Batch ID: P438493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	88.8		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	73.0		P	37 - 154
Acetochlor	108		P	64 - 124
Alachlor	114		P	61 - 118
Ametryn	118		P	47 - 158
Atrazine	103		P	68 - 121
Atrazine Desethyl	117		P	30 - 119
Avobenzone	130		P	48 - 193
Azinphos Methyl	165		P	30 - 194
Azoxystrobin	93.1		P	58 - 154

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P438493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bromacil	114		P	47 - 126
Butylate	80.4		P	31 - 83.0
Caffeine	98.3		P	10 - 180
Carbophenothion	132		P	59 - 133
Carfentrazone Ethyl	127		P	59 - 147
Chlorfenapyr	91.7		P	52 - 118
Chlorpyrifos Ethyl	108		P	59 - 119
Chlorpyrifos Methyl	124		F	65 - 123
Coumaphos	86.2		P	11 - 223
Cyanazine	155		P	63 - 250
Cyprodinil	130		P	52 - 143
Dechlorane 602	90.0		P	23 - 142
Dechlorane 603	90.9		P	51 - 171
Dechlorane Plus	99.7		P	46 - 161
Demeton	83.6		P	42 - 119
Diazinon	96.8		P	67 - 132
Difenoconazole	80.7		P	12 - 204
Dimethenamid	99.5		P	53 - 113
Dimethomorph	214		P	13 - 238
Disulfoton	116		P	56 - 126
Dithiopyr	97.3		P	58 - 127
EPTC	68.6		P	31 - 78.0
Ethion	59.8		P	24 - 127
Ethoprop	112		P	60 - 118
Etridiazole	82.8		P	32 - 91.0
Fenamiphos	105		P	54 - 129
Fenbuconazole	57.4		P	31 - 162
Fipronil	118		P	56 - 131
Fipronil Desulfinyl	113		P	58 - 132
Fipronil Sulfide	123		P	51 - 123
Fipronil Sulfone	88.2		P	50 - 125
Fluazifop-P-butyl	121		P	52 - 132
Fludioxonil	100		P	52 - 129
Flumioxazin	147		P	34 - 250
Flutolanil	117		P	45 - 128
Fluxapyroxad	81.2		P	31 - 150
Fonofos	109		P	60 - 116
Hexabromobenzene	93.2		P	52 - 165
Hexazinone	99.8		P	59 - 120
Imazalil	88.6		P	39 - 134
Iprodione	106		P	39 - 243
Loratadine	174		P	10 - 240
Malathion	126		P	53 - 145
Metalaxyl	101		P	59 - 120
Metolachlor	112		P	64 - 122
Metribuzin	107		P	33 - 128
Mevinphos	106		P	48 - 119
Molinate	67.9		P	42 - 89.0
Myclobutanil	98.7		P	54 - 129
Naled	30.4		P	10 - 138
Napropamide	75.6		P	40 - 122
Norflurazon	82.6		P	49 - 132

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P438493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Octinoxate	122		P	29 - 176
Oxadiazon	99.2		P	50 - 115
Oxybenzone	128		P	45 - 145
Oxyfluorfen	141		P	62 - 149
Parathion Ethyl	107		P	68 - 119
Parathion Methyl	138		P	68 - 147
PBB-153	82.1		P	42 - 179
PBDE-47	117		P	44 - 141
PBDE-99	88.8		P	36 - 141
Pendimethalin	177		F	59 - 158
Pentabromotoluene	104		P	58 - 148
Phenytol	55.2		P	10 - 151
Phorate	109		P	44 - 124
Prodiamine	71.4		P	10 - 136
Prometon	103		P	45 - 131
Prometryn	131		P	52 - 140
Pronamide	118		P	70 - 129
Propanil	125		P	54 - 144
Propargite	69.7		P	10 - 191
Propiconazole	81.5		P	49 - 128
Pyraflufen Ethyl	113		P	46 - 141
Pyridaben	62.5		P	29 - 198
Pyriproxyfen	90.3		P	33 - 221
Simazine	100		P	62 - 119
Stiophos	98.5		P	13 - 144
Sulfentrazone	74.5		P	12 - 152
Tebuconazole	51.9		P	10 - 135
Terbufos	114		P	67 - 136
Terbutylazine	99.0		P	66 - 113
Tetradecachloro-m-terphenyl	117		P	30 - 235
Thiobencarb	114		P	51 - 125
Tri-o-cresyl Phosphate	131		P	50 - 150
Triadimefon	117		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	118		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	110		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	101		P	59 - 166

Reference Method: EPA 8321B

Batch ID: P438271

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	132		P	40 - 150
AMPA	93.4		P	40 - 160
Endothall	111		P	40 - 160
Glufosinate	90.4		P	40 - 160
Glyphosate	96.3		P	40 - 160
Sucralose	114		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P438273

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P438273

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	108		P	40 - 150
2,4,5-T	101		P	40 - 150
Acetaminophen	95.9		P	30 - 150
Acetamiprid	90.9		P	40 - 150
Afidopyropen	81.0		P	30 - 150
Bentazon	79.4		P	30 - 150
Benzovindiflupyr	83.8		P	40 - 150
Carbamazepine	88.6		P	40 - 150
Clothianidin	94.1		P	40 - 150
Dinotefuran	105		P	40 - 150
Diuron	81.4		P	40 - 150
Fenuron	103		P	40 - 150
Fluridone	95.2		P	40 - 150
Hydrocodone	105		P	40 - 150
Ibuprofen	67.7		P	40 - 150
Imazapyr	90.0		P	40 - 150
Imidacloprid	89.2		P	40 - 150
Linuron	84.8		P	40 - 150
Mandestrobin	93.0		P	40 - 150
MCPP	91.1		P	40 - 150
Naproxen	73.3		P	40 - 150
Primidone	87.5		P	40 - 150
Pyraclostrobin	76.5		P	40 - 150
Silvex	85.5		P	40 - 150
Thiamethoxam	95.8		P	40 - 150
Tolfenpyrad	50.8		P	30 - 150
Triclopyr	115		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P438459

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.2		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P438789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	99.6		P	85 - 115

Reference Method: SM 2540 D-2015

Batch ID: P438694

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.0		P	85 - 115

Reference Method: SM 4500-F- C-2011

Batch ID: P438462

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P438441

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P438349

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453066	Calcium	100		P	80 - 120
2453066	Iron	98.1	99.2	P/P	80 - 120
2453066	Magnesium	96.5	99.9	P/P	80 - 120
2453066	Potassium	105	107	P/P	80 - 120
2453066	Sodium	98.2	97.4	P/P	80 - 120
2453066	Strontium	93.6	92.9	P/P	80 - 120
2453066	Tin	94.8	95.8	P/P	80 - 120
2453066	Titanium	95.0	95.0	P/P	80 - 120
2453066	Vanadium	96.3	97.1	P/P	80 - 120
2453066	Zinc	93.1	93.5	P/P	80 - 120
2453526	Calcium	97.5		P	80 - 120
2453526	Iron	99.5		P	80 - 120
2453526	Magnesium	100		P	80 - 120
2453526	Potassium	98.9		P	80 - 120
2453526	Sodium	94.2		P	80 - 120
2453526	Strontium	93.6		P	80 - 120
2453526	Tin	92.4		P	80 - 120
2453526	Titanium	94.7		P	80 - 120
2453526	Vanadium	93.1		P	80 - 120
2453526	Zinc	92.6		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P438349

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453066	Aluminum	96.9	97.2	P/P	80 - 120
2453066	Antimony	103	103	P/P	80 - 120
2453066	Arsenic	101	101	P/P	80 - 120
2453066	Barium	103	102	P/P	80 - 120
2453066	Beryllium	95.1	94.0	P/P	80 - 120
2453066	Boron	97.1	100	P/P	80 - 120
2453066	Cadmium	101	102	P/P	80 - 120
2453066	Cobalt	96.4	96.5	P/P	80 - 120
2453066	Copper	94.1	95.4	P/P	80 - 120
2453066	Lead	96.6	96.0	P/P	80 - 120
2453066	Manganese	99.6	100	P/P	80 - 120
2453066	Molybdenum	102	102	P/P	80 - 120
2453066	Selenium	99.6	98.7	P/P	80 - 120
2453066	Silver	102	101	P/P	80 - 120
2453066	Thallium	101	101	P/P	80 - 120
2453526	Aluminum	97.5		P	80 - 120
2453526	Antimony	98.1		P	80 - 120
2453526	Arsenic	97.0		P	80 - 120
2453526	Barium	99.1		P	80 - 120
2453526	Beryllium	91.1		P	80 - 120
2453526	Boron	104		P	80 - 120
2453526	Cadmium	98.8		P	80 - 120
2453526	Cobalt	96.3		P	80 - 120
2453526	Copper	98.2		P	80 - 120
2453526	Lead	95.3		P	80 - 120
2453526	Manganese	100		P	80 - 120
2453526	Molybdenum	96.9		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438349

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453526	Selenium	97.4		P	80 - 120
2453526	Silver	98.6		P	80 - 120
2453526	Thallium	100		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438564

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454126	Chromium	103	102	P/P	80 - 120
2454126	Nickel	93.7	93.2	P/P	80 - 120
2454174	Chromium	103		P	80 - 120
2454174	Nickel	93.1		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438417

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453048	Chloride	103		P	90 - 110
2453122	Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438418

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453048	Sulfate	102		P	90 - 110
2453122	Sulfate	99.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438566

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453128	Ammonia-N	98.2	99.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438526

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2454259	Kjeldahl Nitrogen	97.8	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438674

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453119	NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453188	Total-P	105	108	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P438286

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453166	O-Phosphate-P	98.3	97.9	P/P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P438493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453175	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	114	97.7	P/P	50 - 150
2453175	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	60.6	120	P/P	29 - 155
2453175	Acetochlor	99.1	109	P/P	60 - 124
2453175	Alachlor	89.3	99.9	P/P	54 - 122
2453175	Ametryn	153	118	P/P	51 - 208
2453175	Atrazine	102	103	P/P	57 - 131
2453175	Atrazine Desethyl	114	121	P/P	13 - 124
2453175	Avobenzone	126	150	P/P	35 - 187
2453175	Azinphos Methyl	168	114	P/P	43 - 276
2453175	Azoxystrobin	107	114	P/P	52 - 300
2453175	Bromacil	108	110	P/P	44 - 134
2453175	Butylate	76.2	56.6	P/P	23 - 82.0
2453175	Caffeine	108	105	P/P	10 - 277
2453175	Carbophenothion	107	129	P/P	47 - 135
2453175	Carfentrazone Ethyl	105	133	P/P	46 - 147
2453175	Chlorfenapyr	88.8	79.5	P/P	43 - 114
2453175	Chlorpyrifos Ethyl	98.9	88.9	P/P	47 - 124
2453175	Chlorpyrifos Methyl	110	111	P/P	60 - 135
2453175	Coumaphos	37.8	93.5	P/P	10 - 222
2453175	Cyanazine	144	150	P/P	10 - 257
2453175	Cyprodinil	127	124	P/P	42 - 148
2453175	Dechlorane 602	91.1	99.2	P/P	14 - 133
2453175	Dechlorane 603	84.1	95.4	P/P	18 - 191
2453175	Dechlorane Plus	83.6	93.3	P/P	23 - 154
2453175	Demeton	75.6	77.1	P/P	41 - 137
2453175	Diazinon	111	107	P/P	64 - 139
2453175	Difenoconazole	87.6	112	P/P	46 - 254
2453175	Dimethenamid	90.8	81.8	P/P	47 - 117
2453175	Dimethomorph	144	241	P/P	14 - 255
2453175	Disulfoton	106	103	P/P	52 - 130
2453175	Dithiopyr	103	105	P/P	40 - 121
2453175	EPTC	58.8	52.0	P/P	19 - 78.0
2453175	Ethion	74.8	53.2	P/P	12 - 124
2453175	Ethoprop	106	97.6	P/P	68 - 144
2453175	Etridiazole	81.6	67.9	P/P	26 - 96.0
2453175	Fenamiphos	97.6	83.7	P/P	41 - 129
2453175	Fenbuconazole	50.3	66.6	P/P	26 - 169
2453175	Fipronil	116	104	P/P	46 - 145
2453175	Fipronil Desulfinyl	104	106	P/P	47 - 136
2453175	Fipronil Sulfide	99.5	95.4	P/P	41 - 127
2453175	Fipronil Sulfone	100	80.6	P/P	35 - 133
2453175	Fluazifop-P-butyl	119	107	P/P	46 - 131
2453175	Fludioxonil	95.9	87.4	P/P	51 - 124
2453175	Flumioxazin	81.6	114	P/P	10 - 289
2453175	Flutolanil	100	112	P/P	34 - 130
2453175	Fluxapyroxad	85.4	63.4	P/P	10 - 197

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P438493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453175	Fonofos	117	108	P/P	42 - 131
2453175	Hexabromobenzene	88.4	107	P/P	47 - 178
2453175	Imazalil	89.0	103	P/P	37 - 252
2453175	Iprodione	84.8	119	P/P	34 - 265
2453175	Loratadine	71.8	217	P/P	20 - 231
2453175	Malathion	106	109	P/P	34 - 164
2453175	Metalaxyl	81.8	91.4	P/P	49 - 125
2453175	Metolachlor	109	112	P/P	54 - 125
2453175	Metribuzin	108	106	P/P	51 - 139
2453175	Mevinphos	103	99.2	P/P	46 - 130
2453175	Molinate	68.0	61.1	P/P	39 - 93.0
2453175	Myclobutanil	94.9	91.4	P/P	50 - 130
2453175	Naled	34.4	33.2	P/P	10 - 150
2453175	Napropamide	85.6	69.1	P/P	10 - 109
2453175	Norflurazon	94.6	116	P/P	36 - 134
2453175	Octinoxate	118	114	P/P	18 - 170
2453175	Oxadiazon	89.8	99.0	P/P	43 - 112
2453175	Oxybenzone	117	119	P/P	33 - 154
2453175	Oxyfluorfen	152	150	P/P	62 - 154
2453175	Parathion Ethyl	92.8	93.9	P/P	65 - 120
2453175	Parathion Methyl	119	115	P/P	77 - 185
2453175	PBB-153	56.9	98.7	P/P	23 - 193
2453175	PBDE-47	108	118	P/P	31 - 139
2453175	PBDE-99	77.6	104	P/P	24 - 138
2453175	Pendimethalin	157	137	F/P	50 - 146
2453175	Pentabromotoluene	98.4	103	P/P	54 - 152
2453175	Phenytoin	50.6	48.9	P/P	10 - 157
2453175	Phorate	107	112	P/P	54 - 161
2453175	Prodiamine	76.6	84.4	P/P	29 - 160
2453175	Prometon	91.5	107	P/P	38 - 145
2453175	Prometryn	101	108	P/P	32 - 151
2453175	Pronamide	115	112	P/P	61 - 140
2453175	Propanil	138	129	P/P	50 - 147
2453175	Propargite	79.2	66.4	P/P	10 - 190
2453175	Propiconazole	70.7	71.6	P/P	30 - 146
2453175	Pyraflufen Ethyl	100	123	P/P	30 - 147
2453175	Pyridaben	132	185	P/P	15 - 195
2453175	Pyriproxyfen	92.5	102	P/P	31 - 218
2453175	Simazine	92.1	102	P/P	45 - 139
2453175	Stirophos	85.1	82.5	P/P	10 - 134
2453175	Sulfentrazone	85.8	101	P/P	53 - 186
2453175	Tebuconazole	58.0	52.6	P/P	10 - 133
2453175	Terbufos	108	103	P/P	65 - 151
2453175	Terbutylazine	100	99.2	P/P	62 - 117
2453175	Tetradecachloro-m-terphenyl	91.7	98.6	P/P	10 - 260
2453175	Thiobencarb	102	109	P/P	48 - 122
2453175	Tri-o-cresyl Phosphate	122	119	P/P	32 - 151
2453175	Triadimefon	115	111	P/P	46 - 124
2453175	Tris(1-chloro-2-propyl) phosphate (TCPP)	99.3	113	P/P	51 - 154
2453175	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	102	98.7	P/P	59 - 147
2453175	Tris(2-chloroethyl) phosphate (TCEP)	90.0	98.7	P/P	65 - 156

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P438271

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452969	Acesulfame K	87.0	94.3	P/P	40 - 150
2452969	AMPA	76.0	82.1	P/P	40 - 160
2452969	Endothall	108	102	P/P	40 - 160
2452969	Glufosinate	87.9	83.1	P/P	40 - 160
2452969	Glyphosate	87.1	90.1	P/P	40 - 160
2452969	Sucralose	68.4	66.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P438273

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452969	2,4-D	84.0	100	P/P	40 - 150
2452969	2,4,5-T	78.7	88.6	P/P	40 - 150
2452969	Acetaminophen	80.7	89.5	P/P	30 - 150
2452969	Acetamiprid	73.3	82.9	P/P	40 - 150
2452969	Afidopyropen	74.8	79.3	P/P	30 - 150
2452969	Bentazon	30.6	36.1	P/P	30 - 150
2452969	Benzovindiflupyr	73.9	81.7	P/P	40 - 150
2452969	Carbamazepine	62.6	68.5	P/P	40 - 150
2452969	Clothianidin	94.0	106	P/P	40 - 150
2452969	Dinotefuran	93.6	104	P/P	40 - 150
2452969	Diuron	56.5	60.3	P/P	40 - 150
2452969	Fenuron	75.2	77.0	P/P	40 - 150
2452969	Fluridone	67.1	73.3	P/P	40 - 150
2452969	Hydrocodone	85.6	93.3	P/P	40 - 150
2452969	Ibuprofen	57.3	64.1	P/P	40 - 150
2452969	Imazapyr	94.3	103	P/P	40 - 150
2452969	Imidacloprid	113	124	P/P	40 - 150
2452969	Linuron	65.4	70.1	P/P	40 - 150
2452969	Mandestrobin	80.1	87.4	P/P	40 - 150
2452969	MCPP	75.5	90.1	P/P	40 - 150
2452969	Naproxen	85.2	72.9	P/P	40 - 150
2452969	Primidone	87.1	96.2	P/P	40 - 150
2452969	Pyraclostrobin	74.5	84.2	P/P	40 - 150
2452969	Silvex	83.7	83.0	P/P	40 - 150
2452969	Thiamethoxam	90.2	99.8	P/P	40 - 150
2452969	Tolfenpyrad	46.5	54.4	P/P	30 - 150
2452969	Triclopyr	89.1	84.0	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P438462

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453619	Fluoride	102	102	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P438441

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2453621	Organic Carbon	96.7	96.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P438281

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453326	Color (true)	3.68	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P438292

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453326	Turbidity	18.9	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P438349

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453066	Calcium	0.0760	Spike	P	0 - 20
2453066	Iron	1.20	Spike	P	0 - 20
2453066	Magnesium	2.02	Spike	P	0 - 20
2453066	Potassium	1.79	Spike	P	0 - 20
2453066	Sodium	0.527	Spike	P	0 - 20
2453066	Strontium	0.743	Spike	P	0 - 20
2453066	Tin	1.13	Spike	P	0 - 20
2453066	Titanium	0.0662	Spike	P	0 - 20
2453066	Vanadium	0.827	Spike	P	0 - 20
2453066	Zinc	0.419	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438349

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453066	Aluminum	0.297	Spike	P	0 - 20
2453066	Antimony	0.183	Spike	P	0 - 20
2453066	Arsenic	0.110	Spike	P	0 - 20
2453066	Barium	0.979	Spike	P	0 - 20
2453066	Beryllium	1.18	Spike	P	0 - 20
2453066	Boron	2.68	Spike	P	0 - 20
2453066	Cadmium	0.668	Spike	P	0 - 20
2453066	Cobalt	0.0768	Spike	P	0 - 20
2453066	Copper	1.34	Spike	P	0 - 20
2453066	Lead	0.613	Spike	P	0 - 20
2453066	Manganese	0.766	Spike	P	0 - 20
2453066	Molybdenum	0.153	Spike	P	0 - 20
2453066	Selenium	0.931	Spike	P	0 - 20
2453066	Silver	0.663	Spike	P	0 - 20
2453066	Thallium	0.119	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P438564

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

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P438564

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454126	Chromium	0.935	Spike	P	0 - 20
2454126	Nickel	0.505	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P438417

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453048	Chloride	0.630	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P438418

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453048	Sulfate	0.515	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P438566

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453128	Ammonia-N	1.34	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P438526

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2454259	Kjeldahl Nitrogen	4.17	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P438674

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453119	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P438408

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453188	Total-P	2.32	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P438286

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453166	O-Phosphate-P	0.389	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P438493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453175	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	15.5	Spike	P	0 - 30
2453175	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	65.7	Spike	F	0 - 35
2453175	Acetochlor	9.79	Spike	P	0 - 28
2453175	Alachlor	11.2	Spike	P	0 - 30
2453175	Ametryn	25.5	Spike	P	0 - 32
2453175	Atrazine	0.472	Spike	P	0 - 33
2453175	Atrazine Desethyl	5.34	Spike	P	0 - 36
2453175	Avobenzone	17.7	Spike	P	0 - 35
2453175	Azinphos Methyl	38.2	Spike	P	0 - 62
2453175	Azoxystrobin	6.51	Spike	P	0 - 39
2453175	Bromacil	1.44	Spike	P	0 - 33
2453175	Butylate	29.4	Spike	P	0 - 51
2453175	Caffeine	2.16	Spike	P	0 - 100
2453175	Carbophenothion	18.6	Spike	P	0 - 34
2453175	Carfentrazone Ethyl	23.5	Spike	P	0 - 33
2453175	Chlorfenapyr	11.1	Spike	P	0 - 28
2453175	Chlorpyrifos Ethyl	10.7	Spike	P	0 - 31
2453175	Chlorpyrifos Methyl	0.907	Spike	P	0 - 27
2453175	Coumaphos	84.8	Spike	F	0 - 62
2453175	Cyanazine	3.94	Spike	P	0 - 48
2453175	Cyprodinil	2.35	Spike	P	0 - 29
2453175	Dechlorane 602	8.42	Spike	P	0 - 60
2453175	Dechlorane 603	12.6	Spike	P	0 - 40
2453175	Dechlorane Plus	11.0	Spike	P	0 - 38
2453175	Demeton	2.06	Spike	P	0 - 33
2453175	Diazinon	3.81	Spike	P	0 - 32
2453175	Difenoconazole	24.2	Spike	P	0 - 71
2453175	Dimethenamid	10.5	Spike	P	0 - 60
2453175	Dimethomorph	50.2	Spike	P	0 - 61
2453175	Disulfoton	3.64	Spike	P	0 - 30
2453175	Dithiopyr	1.84	Spike	P	0 - 28
2453175	EPTC	12.2	Spike	P	0 - 56
2453175	Ethion	33.7	Spike	P	0 - 79
2453175	Ethoprop	7.95	Spike	P	0 - 31
2453175	Etridiazole	18.4	Spike	P	0 - 43
2453175	Fenamiphos	15.2	Spike	P	0 - 43
2453175	Fenbuconazole	28.0	Spike	P	0 - 79
2453175	Fipronil	11.6	Spike	P	0 - 46
2453175	Fipronil Desulfinyl	2.05	Spike	P	0 - 36
2453175	Fipronil Sulfide	4.08	Spike	P	0 - 34
2453175	Fipronil Sulfone	20.9	Spike	P	0 - 47
2453175	Fluazifop-P-butyl	10.4	Spike	P	0 - 38
2453175	Fludioxonil	9.35	Spike	P	0 - 29
2453175	Flumioxazin	32.9	Spike	P	0 - 63
2453175	Flutolanil	11.3	Spike	P	0 - 36
2453175	Fluxapyroxad	29.6	Spike	P	0 - 65
2453175	Fonofos	7.62	Spike	P	0 - 35
2453175	Hexabromobenzene	19.2	Spike	P	0 - 41
2453175	Hexazinone	6.40	Spike	P	0 - 31
2453175	Imazalil	14.9	Spike	P	0 - 52
2453175	Iprodione	33.4	Spike	P	0 - 49

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P438493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453175	Loratadine	101	Spike	F	0 - 59
2453175	Malathion	2.71	Spike	P	0 - 77
2453175	Metalaxyl	11.1	Spike	P	0 - 76
2453175	Metolachlor	3.10	Spike	P	0 - 29
2453175	Metribuzin	2.13	Spike	P	0 - 51
2453175	Mevinphos	3.29	Spike	P	0 - 31
2453175	Molinate	10.7	Spike	P	0 - 39
2453175	Myclobutanil	3.80	Spike	P	0 - 34
2453175	Naled	3.73	Spike	P	0 - 37
2453175	Napropamide	21.3	Spike	P	0 - 100
2453175	Norflurazon	13.8	Spike	P	0 - 54
2453175	Octinoxate	3.39	Spike	P	0 - 35
2453175	Oxadiazon	9.72	Spike	P	0 - 34
2453175	Oxybenzone	1.80	Spike	P	0 - 35
2453175	Oxyfluorfen	0.868	Spike	P	0 - 28
2453175	Parathion Ethyl	1.08	Spike	P	0 - 31
2453175	Parathion Methyl	3.76	Spike	P	0 - 29
2453175	PBB-153	53.7	Spike	F	0 - 49
2453175	PBDE-47	9.04	Spike	P	0 - 36
2453175	PBDE-99	29.5	Spike	P	0 - 46
2453175	Pendimethalin	14.0	Spike	P	0 - 31
2453175	Pentabromotoluene	4.74	Spike	P	0 - 16
2453175	Phenytoin	3.36	Spike	P	0 - 100
2453175	Phorate	5.19	Spike	P	0 - 36
2453175	Prodiamine	9.65	Spike	P	0 - 68
2453175	Prometon	15.7	Spike	P	0 - 35
2453175	Prometryn	7.02	Spike	P	0 - 33
2453175	Pronamide	2.15	Spike	P	0 - 24
2453175	Propanil	6.82	Spike	P	0 - 28
2453175	Propargite	17.5	Spike	P	0 - 53
2453175	Propiconazole	1.22	Spike	P	0 - 44
2453175	Pyraflufen Ethyl	20.6	Spike	P	0 - 61
2453175	Pyridaben	33.4	Spike	P	0 - 43
2453175	Pyriproxyfen	9.48	Spike	P	0 - 82
2453175	Simazine	10.0	Spike	P	0 - 29
2453175	Stirophos	3.15	Spike	P	0 - 100
2453175	Sulfentrazone	16.0	Spike	P	0 - 64
2453175	Tebuconazole	9.74	Spike	P	0 - 76
2453175	Terbufos	5.37	Spike	P	0 - 29
2453175	Terbuthylazine	1.23	Spike	P	0 - 28
2453175	Tetradecachloro-m-terphenyl	7.21	Spike	P	0 - 42
2453175	Thiobencarb	6.79	Spike	P	0 - 26
2453175	Tri-o-cresyl Phosphate	2.45	Spike	P	0 - 24
2453175	Triadimefon	3.57	Spike	P	0 - 40
2453175	Tris(1-chloro-2-propyl) phosphate (TCPP)	11.8	Spike	P	0 - 30
2453175	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	3.33	Spike	P	0 - 22
2453175	Tris(2-chloroethyl) phosphate (TCEP)	9.22	Spike	P	0 - 15

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P438271

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452969	Acesulfame K	8.09	Spike	P	0 - 30
2452969	AMPA	7.70	Spike	P	0 - 30
2452969	Endothall	6.06	Spike	P	0 - 30
2452969	Glufosinate	5.55	Spike	P	0 - 30
2452969	Glyphosate	3.41	Spike	P	0 - 30
2452969	Sucralose	2.26	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P438273

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452969	2,4-D	17.7	Spike	P	0 - 30
2452969	2,4,5-T	11.9	Spike	P	0 - 30
2452969	Acetaminophen	10.4	Spike	P	0 - 30
2452969	Acetamiprid	12.3	Spike	P	0 - 30
2452969	Afidopyropen	5.84	Spike	P	0 - 30
2452969	Bentazon	16.5	Spike	P	0 - 30
2452969	Benzovindiflupyr	10.0	Spike	P	0 - 30
2452969	Carbamazepine	8.97	Spike	P	0 - 30
2452969	Clothianidin	11.6	Spike	P	0 - 30
2452969	Dinotefuran	10.8	Spike	P	0 - 30
2452969	Diuron	6.60	Spike	P	0 - 30
2452969	Fenuron	2.41	Spike	P	0 - 30
2452969	Fluridone	8.89	Spike	P	0 - 30
2452969	Hydrocodone	8.53	Spike	P	0 - 30
2452969	Ibuprofen	11.2	Spike	P	0 - 30
2452969	Imazapyr	8.94	Spike	P	0 - 30
2452969	Imidacloprid	9.25	Spike	P	0 - 30
2452969	Linuron	6.94	Spike	P	0 - 30
2452969	Mandestrobin	8.75	Spike	P	0 - 30
2452969	MCPP	17.6	Spike	P	0 - 30
2452969	Naproxen	15.6	Spike	P	0 - 30
2452969	Primidone	9.90	Spike	P	0 - 30
2452969	Pyraclostrobin	12.2	Spike	P	0 - 30
2452969	Silvex	0.806	Spike	P	0 - 30
2452969	Thiamethoxam	10.2	Spike	P	0 - 30
2452969	Tolfenpyrad	15.6	Spike	P	0 - 30
2452969	Triclopyr	5.90	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P438459

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453619	Total Alkalinity	0.587	Sample	P	0 - 3.9

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P438789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453076	TDS	7.79	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P438462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453619	Fluoride	0.495	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P438441

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2453621	Organic Carbon	0.348	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2453337
Field Sample ID: 20030653

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	75.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	87.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.7	P	30 - 160
EPA 8321B	Diuron-d6	60.4	P	30 - 160
EPA 8321B	Endothall-d6	103	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.2	P	30 - 160
EPA 8321B	Primidone-d5	88.2	P	30 - 160
EPA 8321B	Sucralose-d6	122	P	30 - 160

Lab Sample ID: 2453340
Field Sample ID: 20030653

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	80.3	P	20 - 200
EPA 8270E	Simazine-d10	115	P	58 - 137
EPA 8270E	Terbufos-d10	102	P	50 - 134
EPA 8270E	Terphenyl-d14	111	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A122937

Included Lab Sample IDs: 2453326

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A122938

Included Lab Sample IDs: 2453330

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	99.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122940

Included Lab Sample IDs: 2453326

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A122949

Included Lab Sample IDs: 2453326

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Sulfate	101	99.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122972

Included Lab Sample IDs: 2453337

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	100	94.3	P/P	50 - 150
2,4,5-T	103	107	P/P	50 - 150
Acetaminophen	110	107	P/P	60 - 160
Acetamiprid	105	107	P/P	50 - 150
Afidopyropen	98.0	100	P/P	50 - 150
Bentazon	92.0	90.9	P/P	50 - 160
Benzovindiflupyr	104	100	P/P	50 - 150
Carbamazepine	108	108	P/P	60 - 150
Clothianidin	100	105	P/P	60 - 150
Dinotefuran	111	110	P/P	50 - 150
Diuron	104	99.4	P/P	60 - 160
Fenuron	103	102	P/P	60 - 150
Fluridone	112	107	P/P	60 - 160
Hydrocodone	119	117	P/P	60 - 150
Ibuprofen	81.7	61.4	P/P	50 - 160
Imazapyr	85.9	89.4	P/P	50 - 150
Imidacloprid	94.0	96.7	P/P	60 - 150
Linuron	99.9	96.4	P/P	60 - 150
Mandestrobin	110	105	P/P	50 - 150
MCPP	96.3	94.2	P/P	50 - 150
Naproxen	125	98.4	P/P	50 - 160
Primidone	103	97.4	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122972
Included Lab Sample IDs: 2453337

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	105	103	P/P	60 - 150
Silvex	106	103	P/P	50 - 150
Thiamethoxam	108	107	P/P	50 - 150
Tolfenpyrad	100	99.7	P/P	60 - 150
Triclopyr	93.1	92.7	P/P	50 - 150

Reference Method: EPA 8321B
Run ID: A122977
Included Lab Sample IDs: 2453337

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	87.6	84.7	P/P	60 - 160
Endothall	99.6	109	P/P	60 - 160
Glufosinate	89.6	87.1	P/P	60 - 160
Glyphosate	91.0	92.9	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A122994
Included Lab Sample IDs: 2453337

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	107	119	P/P	60 - 160
Sucralose	121	119	P/P	60 - 160

Reference Method: SM 5310 B-2011
Run ID: A122996
Included Lab Sample IDs: 2453328

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	96.8	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A122999
Included Lab Sample IDs: 2453338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.5	98.6	P/P	90 - 110
Antimony	100	98.7	P/P	90 - 110
Arsenic	99.3	98.0	P/P	90 - 110
Barium	99.7	98.9	P/P	90 - 110
Beryllium	97.7	96.0	P/P	90 - 110
Boron	99.8	101	P/P	90 - 110
Cadmium	99.7	100	P/P	90 - 110
Cobalt	98.3	96.3	P/P	90 - 110
Copper	97.4	95.8	P/P	90 - 110
Lead	96.4	96.0	P/P	90 - 110
Manganese	104	100	P/P	90 - 110
Molybdenum	99.2	98.8	P/P	90 - 110
Selenium	99.7	96.8	P/P	90 - 110
Silver	98.4	98.7	P/P	90 - 110
Thallium	97.7	96.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011
Run ID: A123013
Included Lab Sample IDs: 2453326

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.4	94.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A123013
Included Lab Sample IDs: 2453326

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A123038
Included Lab Sample IDs: 2453328

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A123057
Included Lab Sample IDs: 2453328

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.5	96.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A123088
Included Lab Sample IDs: 2453328

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

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A123091
Included Lab Sample IDs: 2453338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	104	106	P/P	90 - 110
Nickel	96.6	96.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A123101
Included Lab Sample IDs: 2453328

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.5	98.3	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A123155
Included Lab Sample IDs: 2453338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.5	98.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A123155

Included Lab Sample IDs: 2453338

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	100	99.3	P/P	90 - 110
Magnesium	101	99.5	P/P	90 - 110
Potassium	98.1	98.4	P/P	90 - 110
Sodium	96.9	96.8	P/P	90 - 110
Strontium	99.2	99.6	P/P	90 - 110
Tin	99.7	99.1	P/P	90 - 110
Titanium	98.8	99.3	P/P	90 - 110
Vanadium	98.2	98.2	P/P	90 - 110
Zinc	97.9	97.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A123182

Included Lab Sample IDs: 2453340

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	101		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.4		P	80 - 120
Avobenzone	94.3		P	80 - 120
Dechlorane 602	96.9		P	80 - 120
Dechlorane 603	104		P	80 - 120
Dechlorane Plus	109		P	80 - 120
Hexabromobenzene	91.1		P	80 - 120
Octinoxate	97.8		P	80 - 120
Oxybenzone	98.1		P	80 - 120
PBB-153	87.4		P	80 - 120
PBDE-47	91.7		P	80 - 120
PBDE-99	90.5		P	80 - 120
Pentabromotoluene	101		P	80 - 120
Tetradecachloro-m-terphenyl	92.5		P	80 - 120
Tri-o-cresyl Phosphate	95.4		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	96.6		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.5		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	88.2		P	80 - 120

Reference Method: EPA 8270E

Run ID: A123363

Included Lab Sample IDs: 2453340

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	90.9		P	80 - 120
Alachlor	93.7		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	88.4		P	80 - 120
Atrazine Desethyl	103		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Azoxystrobin	98.5		P	80 - 120
Bromacil	108		P	80 - 120
Butylate	101		P	80 - 120
Caffeine	98.5		P	80 - 120
Carbophenothion	109		P	80 - 120
Carfentrazone Ethyl	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123363
Included Lab Sample IDs: 2453340

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorfenapyr	90.5		P	80 - 120
Chlorpyrifos Ethyl	87.8		P	80 - 120
Chlorpyrifos Methyl	94.3		P	80 - 120
Coumaphos	107		P	80 - 120
Cyanazine	101		P	80 - 120
Cyprodinil	107		P	80 - 120
Demeton	99.9		P	80 - 120
Diazinon	94.9		P	80 - 120
Difenoconazole	96.6		P	80 - 120
Dimethenamid	95.0		P	80 - 120
Dimethomorph	89.1		P	80 - 120
Disulfoton	102		P	80 - 120
Dithiopyr	97.7		P	80 - 120
EPTC	97.7		P	80 - 120
Ethion	91.6		P	80 - 120
Ethoprop	97.3		P	80 - 120
Etridiazole	95.8		P	80 - 120
Fenamiphos	95.0		P	80 - 120
Fenbuconazole	82.7		P	80 - 120
Fipronil	91.9		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	98.3		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fluazifop-P-butyl	93.8		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	101		P	80 - 120
Flutolanil	91.4		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	95.6		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	113		P	80 - 120
Iprodione	93.6		P	80 - 120
Loratadine	94.1		P	80 - 120
Malathion	91.5		P	80 - 120
Metalaxyl	87.3		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	95.5		P	80 - 120
Mevinphos	97.5		P	80 - 120
Molinate	86.3		P	80 - 120
Myclobutanil	91.9		P	80 - 120
Naled	105		P	80 - 120
Napropamide	101		P	80 - 120
Norflurazon	102		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	101		P	80 - 120
Parathion Ethyl	104		P	80 - 120
Parathion Methyl	78.2*		F	80 - 120
Pendimethalin	89.9		P	80 - 120
Phenytoin	99.9		P	80 - 120
Phorate	106		P	80 - 120
Prodiamine	95.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123363
Included Lab Sample IDs: 2453340

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometon	96.0		P	80 - 120
Prometryn	95.6		P	80 - 120
Pronamide	105		P	80 - 120
Propanil	95.7		P	80 - 120
Propargite	106		P	80 - 120
Propiconazole	89.4		P	80 - 120
Pyraflufen Ethyl	107		P	80 - 120
Pyridaben	194*		F	80 - 120
Pyriproxyfen	99.8		P	80 - 120
Simazine	92.6		P	80 - 120
Stirophos	87.3		P	80 - 120
Sulfentrazone	107		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	97.4		P	80 - 120
Terbutylazine	92.3		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	101		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	102					3.68	
EPA 180.1 Rev. 2.0	Turbidity	104					18.9	
EPA 200.7 Rev. 4.4	Calcium	96.5	100	97.5				0.0760
	Iron	89.0	98.1	99.2	99.5			1.20
	Magnesium	91.0	96.5	99.9	100			2.02
	Potassium	87.7	105	107	98.9			1.79
	Sodium	88.8	98.2	97.4	94.2			0.527
	Strontium	100	93.6	92.9	93.6			0.743
	Tin	99.5	94.8	95.8	92.4			1.13
	Titanium	102	95.0	95.0	94.7			0.0662
	Vanadium	102	96.3	97.1	93.1			0.827
	Zinc	99.9	93.1	93.5	92.6			0.419
EPA 200.8 Rev. 5.4	Aluminum	98.3	96.9	97.2	97.5			0.297
	Antimony	101	103	103	98.1			0.183
	Arsenic	100	101	101	97.0			0.110
	Barium	102	103	102	99.1			0.979
	Beryllium	95.1	95.1	94.0	91.1			1.18
	Boron	98.5	97.1	100	104			2.68
	Cadmium	100	101	102	98.8			0.668
	Chromium	101	103	102	103			0.935
	Cobalt	97.3	96.4	96.5	96.3			0.0768
	Copper	98.0	94.1	95.4	98.2			1.34
	Lead	96.3	96.6	96.0	95.3			0.613
	Manganese	98.0	99.6	100	100			0.766
	Molybdenum	99.0	102	102	96.9			0.153
	Nickel	98.3	93.7	93.2	93.1			0.505
	Selenium	99.7	99.6	98.7	97.4			0.931
	Silver	101	102	101	98.6			0.663
	Thallium	99.3	101	101	100			0.119
EPA 300.0 Rev. 2.1	Chloride	101	103	99.3			0.630	
	Sulfate	102	102	99.8			0.515	
EPA 350.1 Rev. 2.0	Ammonia-N	98.2	98.2	99.6				1.34
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.8	97.8	105				4.17
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	101	101				0.0
EPA 365.1 Rev. 2.0	Total-P	102	105	108				2.32
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	98.3	97.9				0.389
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	88.8	114	97.7				15.5
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	73.0	60.6	120				65.7
	Acetochlor	108	109	99.1				9.79
	Alachlor	114	99.9	89.3				11.2
	Ametryn	118	118	153				25.5
	Atrazine	103	103	102				0.472
	Atrazine Desethyl	117	121	114				5.34
	Avobenzone	130	126	150				17.7
	Azinphos Methyl	165	114	168				38.2
	Azoxystrobin	93.1	114	107				6.51
	Bromacil	114	110	108				1.44
	Butylate	80.4	56.6	76.2				29.4
	Caffeine	98.3	105	108				2.16
	Carbophenothion	132	129	107				18.6
	Carfentrazone Ethyl	127	133	105				23.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorfenapyr	91.7	79.5	88.8			11.1
	Chlorpyrifos Ethyl	108	88.9	98.9			10.7
	Chlorpyrifos Methyl	124	111	110			0.907
	Coumaphos	86.2	93.5	37.8			84.8
	Cyanazine	155	150	144			3.94
	Cyprodinil	130	124	127			2.35
	Dechlorane 602	90.0	91.1	99.2			8.42
	Dechlorane 603	90.9	84.1	95.4			12.6
	Dechlorane Plus	99.7	83.6	93.3			11.0
	Demeton	83.6	77.1	75.6			2.06
	Diazinon	96.8	107	111			3.81
	Difenoconazole	80.7	112	87.6			24.2
	Dimethenamid	99.5	81.8	90.8			10.5
	Dimethomorph	214	241	144			50.2
	Disulfoton	116	103	106			3.64
	Dithiopyr	97.3	105	103			1.84
	EPTC	68.6	52.0	58.8			12.2
	Ethion	59.8	53.2	74.8			33.7
	Ethoprop	112	97.6	106			7.95
	Etridiazole	82.8	67.9	81.6			18.4
	Fenamiphos	105	83.7	97.6			15.2
	Fenbuconazole	57.4	66.6	50.3			28.0
	Fipronil	118	104	116			11.6
	Fipronil Desulfinyl	113	106	104			2.05
	Fipronil Sulfide	123	95.4	99.5			4.08
	Fipronil Sulfone	88.2	80.6	100			20.9
	Fluazifop-P-butyl	121	107	119			10.4
	Fludioxonil	100	87.4	95.9			9.35
	Flumioxazin	147	114	81.6			32.9
	Flutolanil	117	112	100			11.3
	Fluxapyroxad	81.2	63.4	85.4			29.6
	Fonofos	109	108	117			7.62
	Hexabromobenzene	93.2	88.4	107			19.2
	Hexazinone	99.8					6.40
	Imazalil	88.6	103	89.0			14.9
	Iprodione	106	119	84.8			33.4
	Loratadine	174	217	71.8			101
	Malathion	126	109	106			2.71
	Metalaxyl	101	91.4	81.8			11.1
	Metolachlor	112	112	109			3.10
	Metribuzin	107	106	108			2.13
	Mevinphos	106	99.2	103			3.29
	Molinate	67.9	61.1	68.0			10.7
	Myclobutanil	98.7	91.4	94.9			3.80
	Naled	30.4	33.2	34.4			3.73
	Napropamide	75.6	69.1	85.6			21.3
	Norflurazon	82.6	116	94.6			13.8
	Octinoxate	122	118	114			3.39
	Oxadiazon	99.2	99.0	89.8			9.72
	Oxybenzone	128	117	119			1.80
	Oxyfluorfen	141	150	152			0.868
	Parathion Ethyl	107	93.9	92.8			1.08
	Parathion Methyl	138	115	119			3.76
	PBB-153	82.1	56.9	98.7			53.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	PBDE-47	117	108	118			9.04
	PBDE-99	88.8	77.6	104			29.5
	Pendimethalin	177	137	157			14.0
	Pentabromotoluene	104	98.4	103			4.74
	Phenytoin	55.2	48.9	50.6			3.36
	Phorate	109	112	107			5.19
	Prodiamine	71.4	84.4	76.6			9.65
	Prometon	103	107	91.5			15.7
	Prometryn	131	108	101			7.02
	Pronamide	118	112	115			2.15
	Propanil	125	129	138			6.82
	Propargite	69.7	66.4	79.2			17.5
	Propiconazole	81.5	71.6	70.7			1.22
	Pyraflufen Ethyl	113	123	100			20.6
	Pyridaben	62.5	185	132			33.4
	Pyriproxyfen	90.3	102	92.5			9.48
	Simazine	100	102	92.1			10.0
	Stirophos	98.5	82.5	85.1			3.15
	Sulfentrazone	74.5	85.8	101			16.0
	Tebuconazole	51.9	58.0	52.6			9.74
	Terbufos	114	108	103			5.37
	Terbuthylazine	99.0	100	99.2			1.23
	Tetradecachloro-m-terphenyl	117	91.7	98.6			7.21
	Thiobencarb	114	102	109			6.79
	Tri-o-cresyl Phosphate	131	122	119			2.45
	Triadimefon	117	115	111			3.57
	Tris(1-chloro-2-propyl) phosphate (TCPP)	118	99.3	113			11.8
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	110	102	98.7			3.33
	Tris(2-chloroethyl) phosphate (TCEP)	101	90.0	98.7			9.22
EPA 8321B	2,4-D	108	84.0	100			17.7
	2,4,5-T	101	78.7	88.6			11.9
	Acesulfame K	132	87.0	94.3			8.09
	Acetaminophen	95.9	80.7	89.5			10.4
	Acetamiprid	90.9	73.3	82.9			12.3
	Afidopyropen	81.0	74.8	79.3			5.84
	AMPA	93.4	76.0	82.1			7.70
	Bentazon	79.4	30.6	36.1			16.5
	Benzovindiflupyr	83.8	73.9	81.7			10.0
	Carbamazepine	88.6	62.6	68.5			8.97
	Clothianidin	94.1	94.0	106			11.6
	Dinotefuran	105	93.6	104			10.8
	Diuron	81.4	56.5	60.3			6.60
	Endothall	111	108	102			6.06
	Fenuron	103	75.2	77.0			2.41
	Fluridone	95.2	67.1	73.3			8.89
	Glufosinate	90.4	87.9	83.1			5.55
	Glyphosate	96.3	87.1	90.1			3.41
	Hydrocodone	105	85.6	93.3			8.53
	Ibuprofen	67.7	57.3	64.1			11.2
	Imazapyr	90.0	94.3	103			8.94
	Imidacloprid	89.2	113	124			9.25

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Linuron	84.8	65.4	70.1		6.94
	Mandestrobin	93.0	80.1	87.4		8.75
	MCCP	91.1	75.5	90.1		17.6
	Naproxen	73.3	85.2	72.9		15.6
	Primidone	87.5	87.1	96.2		9.90
	Pyraclostrobin	76.5	74.5	84.2		12.2
	Silvex	85.5	83.7	83.0		0.806
	Sucralose	114	68.4	66.9		2.26
	Thiamethoxam	95.8	90.2	99.8		10.2
	Tolfenpyrad	50.8	46.5	54.4		15.6
	Triclopyr	115	89.1	84.0		5.90
SM 2320 B-2011	Total Alkalinity	96.2			0.587	
SM 2540 C-2015	TDS	99.6			7.79	
SM 2540 D-2015	TSS	96.0				
SM 4500-F- C-2011	Fluoride	101	102	102		0.495
SM 5310 B-2011	Organic Carbon	97.2	96.7	96.3		0.348

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2453326
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2453326
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2453338
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2453338
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2453326
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2453326
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2453328
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2453328
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2453328
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2453328
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2453330
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2453340
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2453340
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2453337
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2453326
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2453338
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2453326
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2453326
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2453326
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2453328

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	11/29/2023			11/29/2023 14:10	Chandler E Cox	2453326
EPA 180.1 Rev. 2.0	11/29/2023			11/29/2023 13:50	Anna M. Plaviak	2453326
EPA 200.7 Rev. 4.4	11/29/2023	11/30/2023 12:55	George D Taylor	12/12/2023 01:48	McKinley C Carter	2453338
EPA 200.8 Rev. 5.4	11/29/2023	11/30/2023 12:55	George D Taylor	12/01/2023 18:55	Emily M Philpot	2453338
	11/29/2023	12/06/2023 15:10	George D Taylor	12/07/2023 16:04	Emily M Philpot	2453338
EPA 300.0 Rev. 2.1	11/29/2023			11/30/2023 20:48	James L Waggeberby	2453326
EPA 350.1 Rev. 2.0	11/29/2023			12/06/2023 10:56	Ping Hua	2453328
EPA 351.2 Rev. 2.0	11/29/2023	12/06/2023 11:57	Simonne.V. Calhoun	12/07/2023 15:34	Ping Hua	2453328
EPA 353.2 Rev. 2.0	11/29/2023			12/07/2023 13:11	Fadila Guebre	2453328
EPA 365.1 Rev. 2.0	11/29/2023	12/04/2023 08:33	Adam P Silver	12/05/2023 16:30	James L Waggeberby	2453328
EPA 365.1 Rev. 2.0 dissolved	11/29/2023			11/29/2023 14:24	Elise M. Gillis	2453330
EPA 8270E	11/29/2023	12/05/2023 08:00	Fe-Val Siddell	12/07/2023 17:41	Vandana T. Nagar	2453340
	11/29/2023	12/05/2023 08:00	Fe-Val Siddell	12/07/2023 22:04	Arthur Maknenko	2453340
EPA 8321B	11/29/2023	11/30/2023 10:00	Hana Lee	11/30/2023 13:31	Tae K Lee	2453337
	11/29/2023	11/30/2023 10:00	Hana Lee	12/01/2023 22:12	Tae K Lee	2453337
	11/29/2023	11/30/2023 13:00	Hoor Shaik	11/30/2023 20:56	Juyoung Kim	2453337
SM 2320 B-2011	11/29/2023			12/02/2023 03:07	Dale L. Simmons	2453326
SM 2340 B-2011	11/29/2023			12/12/2023 01:48	McKinley C Carter	2453338
SM 2540 C-2015	11/29/2023			12/01/2023 15:02	Yijie Li	2453326
SM 2540 D-2015	11/29/2023			12/01/2023 15:02	Yijie Li	2453326
SM 4500-F- C-2011	11/29/2023			12/02/2023 03:07	Dale L. Simmons	2453326
SM 5310 B-2011	11/29/2023			12/01/2023 20:00	Kenneth H Lee	2453328