

Chemical Analysis Report

SW-DIST-2023-10-20-01

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

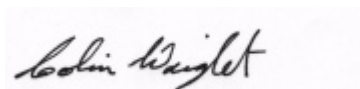
Event Description: **SCI South Creek HA on Sweetwater**
Request ID: **RQ-2023-10-16-54**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

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Certified by: Colin Wright, Program Administrator

Date Certified: 09-NOV-2023 13:08

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

Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: HOOKERS PRAIRIE EAST OF OLD 37

Collection Date/Time: 10/19/2023 12:20

Field ID: G2SW0170

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446370	DEP SOP: NU-094-1	Color (true)	64		PCU	P436827	
	EPA 180.1 Rev. 2.0	Turbidity	0.85	I	NTU	P436830	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P437219	
		Sulfate	170		mg SO4/L	P437377	
	SM 2320 B-2011	Total Alkalinity	128		mg CaCO3/L	P436883	
	SM 2540 C-2015	TDS	422		mg/L	P437261	
	SM 2540 D-2015	TSS	5	I	mg/L	P437212	
2446371	SM 4500-F- C-2011	Fluoride	1.6		mg F/L	P436885	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P436919	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P436867	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.028		mg N/L	P437072	
	EPA 365.1 Rev. 2.0	Total-P	0.44		mg P/L	P436841	
2446372	SM 5310 B-2011	Organic Carbon	16		mg C/L	P437110	
2446372	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.34		mg P/L	P436825	
2446387	EPA 8321B	2,4-D	0.0020	U	ug/L	P436890	
		Acesulfame K	0.10	U	ug/L	P436712	
		2,4,5-T	0.0040	U	ug/L	P436890	
		AMPA	0.50		ug/L	P436712	
		Acetaminophen	0.0080	U	ug/L	P436890	
		Acetamiprid	0.0020	U	ug/L	P436890	
		Endothall	0.25	U	ug/L	P436712	
		Glufosinate	0.10	U	ug/L	P436712	
		Glyphosate	2.2		ug/L	P436712	
		Afidopyropen	0.0020	U	ug/L	P436890	
		Bentazon	8.0E-04	U	ug/L	P436890	
		Sucralose	0.010	U	ug/L	P436712	
		Benzovindiflupyr	0.0020	U	ug/L	P436890	
		Carbamazepine	8.0E-04	U	ug/L	P436890	
		Clothianidin	0.0020	U	ug/L	P436890	
		Dinotefuran	0.0020	U	ug/L	P436890	
		Diuron	0.0020	U	ug/L	P436890	
		Fenuron	0.032	UJ	ug/L	P436890	MS
		Fluridone	8.0E-04	U	ug/L	P436890	
		Imazapyr	0.029		ug/L	P436890	
		Hydrocodone	0.0020	U	ug/L	P436890	
		Ibuprofen	0.080	U	ug/L	P436890	
		Imidacloprid	0.0020	U	ug/L	P436890	
		Linuron	0.0040	U	ug/L	P436890	
		Mandestrobin	0.0020	U	ug/L	P436890	
		MCPD	0.0020	U	ug/L	P436890	
		Naproxen	0.0080	U	ug/L	P436890	
		Primidone	0.0040	U	ug/L	P436890	
		Pyraclostrobin	0.0020	U	ug/L	P436890	

Field ID: G2SW0170

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446387	EPA 8321B	Silvex	0.0040	U	ug/L	P436890	
		Thiamethoxam	0.0020	U	ug/L	P436890	
		Tolfenpyrad	0.0020	U	ug/L	P436890	
		Triclopyr	0.0040	U	ug/L	P436890	
2446392	EPA 200.7 Rev. 4.4	Calcium	50.3		mg/L	P437046	
		Iron	30	U	ug/L	P437046	
		Magnesium	21.2		mg/L	P437046	
		Potassium	6.3		mg/L	P437046	
		Sodium	61.3		mg/L	P437046	
		Strontium	414		ug/L	P437046	
		Tin	3.0	U	ug/L	P437046	
		Titanium	0.75	U	ug/L	P437046	
		Vanadium	2.0	U	ug/L	P437046	
		Zinc	5.0	U	ug/L	P437046	
	EPA 200.8 Rev. 5.4	Aluminum	29		ug/L	P437046	
		Antimony	0.084	I	ug/L	P437046	
		Arsenic	0.93		ug/L	P437046	
		Barium	7.00		ug/L	P437046	
		Beryllium	0.010	U	ug/L	P437046	
		Boron	22.0		ug/L	P437046	
		Cadmium	0.020	U	ug/L	P437046	
		Chromium	0.40	U	ug/L	P437046	
		Cobalt	0.061	I	ug/L	P437046	
		Copper	0.40	U	ug/L	P437046	
		Lead	0.20	U	ug/L	P437046	
		Manganese	3.18		ug/L	P437046	
2446396	EPA 8270E	Molybdenum	0.71		ug/L	P437046	
		Nickel	0.50	U	ug/L	P437046	
		Selenium	0.20	U	ug/L	P437046	
		Silver	0.010	U	ug/L	P437046	
		Thallium	0.10	U	ug/L	P437046	
		Hardness	213		mg/L	P437046	
		Oxybenzone**	10	U	ng/L	P436957	
		Acetochlor	0.21	U	ng/L	P436957	
		Octinoxate**	160	U	ng/L	P436957	
		Alachlor	0.42	U	ng/L	P436957	
		Avobenzone**	100	U	ng/L	P436957	
		Ametryn	1.2	U	ng/L	P436957	
		Atrazine	0.21	U	ng/L	P436957	
		PBDE-47**	4.2	U	ng/L	P436957	
		Atrazine Desethyl	1.4	U	ng/L	P436957	
		PBDE-99**	5.2	U	ng/L	P436957	
		Azinphos Methyl	3.1	U	ng/L	P436957	
		Tri-o-cresyl Phosphate**	6.3	U	ng/L	P436957	
		Azoxystrobin	0.42	U	ng/L	P436957	

Field ID: G2SW0170

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446396	EPA 8270E	Bromacil	0.63	U	ng/L	P436957	
		2-Ethylhexyl	13	U	ng/L	P436957	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.47	U	ng/L	P436957	
		Dechlorane Plus**	31	U	ng/L	P436957	
		Caffeine**	7.8	U	ng/L	P436957	
		Dechlorane 602**	5.2	U	ng/L	P436957	
		Carbophenothion	0.52	U	ng/L	P436957	
		Dechlorane 603**	4.2	U	ng/L	P436957	
		Carfentrazone Ethyl	0.16	U	ng/L	P436957	
		Hexabromobenzene**	6.3	U	ng/L	P436957	
		Chlorfenapyr	0.31	U	ng/L	P436957	
		PBB-153**	6.3	U	ng/L	P436957	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P436957	
		Pentabromotoluene**	3.1	U	ng/L	P436957	
		Chlorpyrifos Methyl	0.10	U	ng/L	P436957	
		Tris(2-chloroethyl) phosphate (TCEP)**	58	U	ng/L	P436957	
		Coumaphos	1.1	U	ng/L	P436957	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P436957	
		Cyanazine	5.2	U	ng/L	P436957	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P436957	
		Cyprodinil	0.21	U	ng/L	P436957	
		Tetradecachloro-m-terphenyl**	7.8	U	ng/L	P436957	
		Demeton	3.7	U	ng/L	P436957	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	63	U	ng/L	P436957	
		Diazinon	0.13	U	ng/L	P436957	RPD
		Difenoconazole	0.63	U	ng/L	P436957	
		Dimethenamid	0.10	U	ng/L	P436957	
		Dimethomorph	0.31	U	ng/L	P436957	MS
		Disulfoton	0.63	U	ng/L	P436957	
		Dithiopyr	1.0	U	ng/L	P436957	
		EPTC	0.52	U	ng/L	P436957	
		Ethion	0.31	U	ng/L	P436957	
		Ethoprop	0.13	U	ng/L	P436957	
		Etridiazole	0.10	U	ng/L	P436957	
		Fenamiphos	0.47	U	ng/L	P436957	
		Fenbuconazole	0.52	U	ng/L	P436957	
		Fipronil	0.21	U	ng/L	P436957	
		Fipronil Desulfinyl**	0.10	U	ng/L	P436957	RPD
		Fipronil Sulfide	0.10	U	ng/L	P436957	RPD
		Fipronil Sulfone	0.10	U	ng/L	P436957	
		Fluazifop-P-butyl	0.10	U	ng/L	P436957	MS, RPD
		Fludioxonil	0.10	U	ng/L	P436957	
		Flumioxazin	3.1	U	ng/L	P436957	

Field ID: G2SW0170

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2446396	EPA 8270E	Flutolanil	0.10	U	ng/L	P436957	
		Fluxapyroxad	0.26	U	ng/L	P436957	
		Fonofos	0.16	U	ng/L	P436957	
		Hexazinone	0.52	U	ng/L	P436957	
		Imazalil	0.68	U	ng/L	P436957	
		Iprodione	0.52	U	ng/L	P436957	
		Loratadine**	0.31	U	ng/L	P436957	MS
		Malathion	0.37	U	ng/L	P436957	
		Metalaxyl	0.52	U	ng/L	P436957	
		Metolachlor	0.78	U	ng/L	P436957	
		Metribuzin	0.42	U	ng/L	P436957	
		Mevinphos	1.0	U	ng/L	P436957	
		Molinate	0.26	UJ	ng/L	P436957	LCS
		Myclobutanil	0.37	U	ng/L	P436957	
		Naled	2.6	U	ng/L	P436957	
		Napropamide	0.73	U	ng/L	P436957	
		Norflurazon	1.0	U	ng/L	P436957	
		Oxadiazon	0.37	U	ng/L	P436957	
		Oxyfluorfen	0.21	U	ng/L	P436957	RPD
		Parathion Ethyl	0.16	U	ng/L	P436957	
		Parathion Methyl	0.21	U	ng/L	P436957	RPD
		Pendimethalin	1.8	U	ng/L	P436957	RPD
		Phenytol**	5.5	U	ng/L	P436957	
		Phorate	0.26	U	ng/L	P436957	
		Prodiamine	0.21	U	ng/L	P436957	
		Prometon	3.1	U	ng/L	P436957	
		Prometryn	0.37	U	ng/L	P436957	
		Pronamide	0.10	U	ng/L	P436957	
		Propanil	0.10	U	ng/L	P436957	
		Propargite	0.84	U	ng/L	P436957	
		Propiconazole	0.63	U	ng/L	P436957	
		Pyraflufen Ethyl	0.31	U	ng/L	P436957	
		Pyridaben	1.5	U	ng/L	P436957	
		Pyriproxyfen	0.26	U	ng/L	P436957	
		Simazine	0.26	U	ng/L	P436957	
		Stirophos	0.42	U	ng/L	P436957	
		Sulfentrazone	1.5	U	ng/L	P436957	
		Tebuconazole	1.5	U	ng/L	P436957	
		Terbufos	0.21	U	ng/L	P436957	
		Terbutylazine	1.9		ng/L	P436957	
		Thiobencarb	0.52	U	ng/L	P436957	
		Triadimefon	0.16	U	ng/L	P436957	

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: 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.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P436827

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436830

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P437046

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: P437046

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437219

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437377

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436919

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436867

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437072

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436841

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436825

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

Reference Method: EPA 8270E
Batch ID: P436957

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436957

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436957

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

Reference Method: EPA 8321B

Batch ID: P436712

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: P436890

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P436890

Component	Result	Code	Units
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: P436883

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

Reference Method: SM 2540 C-2015

Batch ID: P437261

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P437212

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P436885

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P437110

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: P436827

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: P436830

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P437046

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	111		P	85 - 115
Magnesium	112		P	85 - 115
Potassium	102		P	85 - 115
Sodium	102		P	85 - 115
Strontium	99.0		P	85 - 115
Tin	97.9		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	99.1		P	85 - 115
Zinc	96.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P437046

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	95.3		P	85 - 115
Antimony	96.3		P	85 - 115
Arsenic	95.4		P	85 - 115
Barium	98.9		P	85 - 115
Beryllium	95.5		P	85 - 115
Boron	106		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	99.6		P	85 - 115
Cobalt	92.6		P	85 - 115
Copper	91.3		P	85 - 115
Lead	91.2		P	85 - 115
Manganese	99.9		P	85 - 115
Molybdenum	95.8		P	85 - 115
Nickel	91.0		P	85 - 115
Selenium	95.4		P	85 - 115
Silver	105		P	85 - 115
Thallium	97.2		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437219

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437377

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436919

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436867

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437072

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436841

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436825

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.6		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P436957

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	80.3		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	113		P	37 - 154
Acetochlor	84.4		P	64 - 124
Alachlor	75.6		P	61 - 118
Ametryn	133		P	47 - 158
Atrazine	72.2		P	68 - 121
Atrazine Desethyl	84.8		P	30 - 119
Avobenzone	140		P	48 - 193
Azinphos Methyl	68.4		P	30 - 194
Azoxystrobin	76.3		P	58 - 154
Bromacil	96.1		P	47 - 126
Butylate	37.4		P	31 - 83.0
Caffeine	89.1		P	10 - 180
Carbophenothion	91.0		P	59 - 133
Carfentrazone Ethyl	98.8		P	59 - 147
Chlorfenapyr	79.6		P	52 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P436957

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	101		P	59 - 119
Chlorpyrifos Methyl	107		P	65 - 123
Coumaphos	91.7		P	11 - 223
Cyanazine	165		P	63 - 250
Cyprodinil	136		P	52 - 143
Dechlorane 602	91.2		P	23 - 142
Dechlorane 603	138		P	51 - 171
Dechlorane Plus	152		P	46 - 161
Demeton	64.5		P	42 - 119
Diazinon	101		P	67 - 132
Difenoconazole	77.0		P	12 - 204
Dimethenamid	76.1		P	53 - 113
Dimethomorph	135		P	13 - 238
Disulfoton	82.7		P	56 - 126
Dithiopyr	95.3		P	58 - 127
EPTC	32.3		P	31 - 78.0
Ethion	73.4		P	24 - 127
Ethoprop	76.8		P	60 - 118
Etridiazole	54.8		P	32 - 91.0
Fenamiphos	83.5		P	54 - 129
Fenbuconazole	47.8		P	31 - 162
Fipronil	114		P	56 - 131
Fipronil Desulfinyl	93.6		P	58 - 132
Fipronil Sulfide	92.0		P	51 - 123
Fipronil Sulfone	76.8		P	50 - 125
Fluazifop-P-butyl	93.5		P	52 - 132
Fludioxonil	69.6		P	52 - 129
Flumioxazin	86.7		P	34 - 250
Flutolanil	48.7		P	45 - 128
Fluxapyroxad	71.7		P	31 - 150
Fonofos	76.0		P	60 - 116
Hexabromobenzene	104		P	52 - 165
Hexazinone	82.0		P	59 - 120
Imazalil	59.6		P	39 - 134
Iprodione	152		P	39 - 243
Loratadine	103		P	10 - 240
Malathion	96.5		P	53 - 145
Metalaxyl	81.1		P	59 - 120
Metolachlor	85.2		P	64 - 122
Metribuzin	81.6		P	33 - 128
Mevinphos	69.7		P	48 - 119
Molinate	40.1		F	42 - 89.0
Myclobutanil	79.1		P	54 - 129
Naled	30.3		P	10 - 138
Napropamide	96.5		P	40 - 122
Norflurazon	71.8		P	49 - 132
Octinoxate	141		P	29 - 176
Oxadiazon	65.7		P	50 - 115
Oxybenzone	130		P	45 - 145
Oxyfluorfen	101		P	62 - 149
Parathion Ethyl	80.3		P	68 - 119
Parathion Methyl	110		P	68 - 147

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436957

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBB-153	142		P	42 - 179
PBDE-47	123		P	44 - 141
PBDE-99	115		P	36 - 141
Pendimethalin	111		P	59 - 158
Pentabromotoluene	122		P	58 - 148
Phenytoin	54.3		P	10 - 151
Phorate	77.8		P	44 - 124
Prodiamine	59.4		P	10 - 136
Prometon	94.9		P	45 - 131
Prometryn	112		P	52 - 140
Pronamide	101		P	70 - 129
Propanil	105		P	54 - 144
Propargite	80.9		P	10 - 191
Propiconazole	78.1		P	49 - 128
Pyraflufen Ethyl	104		P	46 - 141
Pyridaben	78.0		P	29 - 198
Pyriproxyfen	67.9		P	33 - 221
Simazine	67.5		P	62 - 119
Stirophos	61.9		P	13 - 144
Sulfentrazone	62.0		P	12 - 152
Tebuconazole	69.1		P	10 - 135
Terbufos	83.2		P	67 - 136
Terbuthylazine	79.4		P	66 - 113
Tetradecachloro-m-terphenyl	223		P	30 - 235
Thiobencarb	80.1		P	51 - 125
Tri-o-cresyl Phosphate	129		P	50 - 150
Triadimefon	92.8		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	137		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	128		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	126		P	59 - 166

Reference Method: EPA 8321B

Batch ID: P436712

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	84.6		P	40 - 150
AMPA	88.4		P	40 - 160
Endothall	93.9		P	40 - 160
Glufosinate	96.5		P	40 - 160
Glyphosate	99.0		P	40 - 160
Sucralose	90.8		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436890

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	77.0		P	40 - 150
2,4,5-T	76.0		P	40 - 150
Acetaminophen	94.0		P	30 - 150
Acetamiprid	85.3		P	40 - 150
Afidopyropen	79.7		P	30 - 150
Bentazon	92.2		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P436890

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	82.5		P	40 - 150
Carbamazepine	80.1		P	40 - 150
Clothianidin	90.7		P	40 - 150
Dinotefuran	100		P	40 - 150
Diuron	79.8		P	40 - 150
Fenuron	90.6		P	40 - 150
Fluridone	90.0		P	40 - 150
Hydrocodone	90.1		P	40 - 150
Ibuprofen	63.7		P	40 - 150
Imazapyr	81.9		P	40 - 150
Imidacloprid	84.3		P	40 - 150
Linuron	79.7		P	40 - 150
Mandestrobin	90.0		P	40 - 150
MCPP	88.5		P	40 - 150
Naproxen	79.0		P	40 - 150
Primidone	85.2		P	40 - 150
Pyraclostrobin	83.3		P	40 - 150
Silvex	76.5		P	40 - 150
Thiamethoxam	86.0		P	40 - 150
Tolfenpyrad	54.9		P	30 - 150
Triclopyr	83.5		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P436883

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

Reference Method: SM 2540 C-2015

Batch ID: P437261

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	107		P	85 - 115

Reference Method: SM 2540 D-2015

Batch ID: P437212

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.0		P	85 - 115

Reference Method: SM 4500-F- C-2011

Batch ID: P436885

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

Reference Method: SM 5310 B-2011

Batch ID: P437110

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P437046

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446388	Calcium	103		P	80 - 120
2446388	Iron	111	110	P/P	80 - 120
2446388	Magnesium	111	109	P/P	80 - 120
2446388	Potassium	102	101	P/P	80 - 120
2446388	Sodium	101		P	80 - 120
2446388	Strontium	97.5	97.5	P/P	80 - 120
2446388	Tin	94.6	94.5	P/P	80 - 120
2446388	Titanium	101	101	P/P	80 - 120
2446388	Vanadium	99.0	98.7	P/P	80 - 120
2446388	Zinc	96.3	96.1	P/P	80 - 120
2446565	Calcium	99.7		P	80 - 120
2446565	Iron	108		P	80 - 120
2446565	Magnesium	102		P	80 - 120
2446565	Potassium	101		P	80 - 120
2446565	Sodium	104		P	80 - 120
2446565	Strontium	96.3		P	80 - 120
2446565	Tin	95.3		P	80 - 120
2446565	Titanium	99.2		P	80 - 120
2446565	Vanadium	97.9		P	80 - 120
2446565	Zinc	93.4		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P437046

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446388	Aluminum	96.4	93.9	P/P	80 - 120
2446388	Antimony	96.6	95.8	P/P	80 - 120
2446388	Arsenic	96.2	96.0	P/P	80 - 120
2446388	Barium	99.9	98.9	P/P	80 - 120
2446388	Beryllium	91.0	93.6	P/P	80 - 120
2446388	Boron	107	108	P/P	80 - 120
2446388	Cadmium	102	99.2	P/P	80 - 120
2446388	Chromium	101	99.9	P/P	80 - 120
2446388	Cobalt	92.9	92.5	P/P	80 - 120
2446388	Copper	91.9	92.1	P/P	80 - 120
2446388	Lead	92.6	92.2	P/P	80 - 120
2446388	Manganese	99.8	99.5	P/P	80 - 120
2446388	Molybdenum	97.8	97.1	P/P	80 - 120
2446388	Nickel	90.8	90.6	P/P	80 - 120
2446388	Selenium	93.4	95.9	P/P	80 - 120
2446388	Silver	105	105	P/P	80 - 120
2446388	Thallium	102	102	P/P	80 - 120
2446565	Aluminum	95.3		P	80 - 120
2446565	Antimony	98.7		P	80 - 120
2446565	Arsenic	97.7		P	80 - 120
2446565	Barium	99.8		P	80 - 120
2446565	Beryllium	94.6		P	80 - 120
2446565	Boron	110		P	80 - 120
2446565	Cadmium	103		P	80 - 120
2446565	Chromium	103		P	80 - 120
2446565	Cobalt	92.1		P	80 - 120
2446565	Copper	88.8		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P437046

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446565	Lead	92.3		P	80 - 120
2446565	Manganese	101		P	80 - 120
2446565	Molybdenum	101		P	80 - 120
2446565	Nickel	89.1		P	80 - 120
2446565	Selenium	94.5		P	80 - 120
2446565	Silver	107		P	80 - 120
2446565	Thallium	100		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P437219

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446361	Chloride	103		P	90 - 110
2446439	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P437377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446031	Sulfate	105		P	90 - 110
2446235	Sulfate	106		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P436919

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446371	Ammonia-N	100	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P436867

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446369	Kjeldahl Nitrogen	94.5	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P437072

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446237	NO2NO3-N	96.4	95.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P436841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446414	Total-P	105	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P436825

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446323	O-Phosphate-P	97.2	98.6	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436957

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446393	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	88.6	89.2	P/P	50 - 150
2446393	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	105	114	P/P	29 - 155
2446393	Acetochlor	71.5	82.6	P/P	60 - 124
2446393	Alachlor	57.4	65.9	P/P	54 - 122
2446393	Ametryn	97.5	107	P/P	51 - 208
2446393	Atrazine	72.4	76.0	P/P	57 - 131
2446393	Atrazine Desethyl	62.4	67.4	P/P	13 - 124
2446393	Avobenzone	139	155	P/P	35 - 187
2446393	Azinphos Methyl	83.3	81.8	P/P	43 - 276
2446393	Azoxystrobin	104	100	P/P	52 - 300
2446393	Bromacil	82.0	100	P/P	44 - 134
2446393	Butylate	44.1	30.0	P/P	23 - 82.0
2446393	Caffeine	105	110	P/P	10 - 277
2446393	Carbophenothion	91.7	116	P/P	47 - 135
2446393	Carfentrazone Ethyl	97.1	104	P/P	46 - 147
2446393	Chlorfenapyr	70.4	83.4	P/P	43 - 114
2446393	Chlorpyrifos Ethyl	74.8	77.2	P/P	47 - 124
2446393	Chlorpyrifos Methyl	104	118	P/P	60 - 135
2446393	Coumaphos	139	195	P/P	10 - 222
2446393	Cyanazine	144	188	P/P	10 - 257
2446393	Cyprodinil	100	113	P/P	42 - 148
2446393	Dechlorane 602	59.2	59.5	P/P	14 - 133
2446393	Dechlorane 603	94.6	103	P/P	18 - 191
2446393	Dechlorane Plus	89.3	91.7	P/P	23 - 154
2446393	Demeton	66.7	67.9	P/P	41 - 137
2446393	Diazinon	74.4	118	P/P	64 - 139
2446393	Difenoconazole	160	135	P/P	46 - 254
2446393	Dimethenamid	79.6	73.9	P/P	47 - 117
2446393	Dimethomorph	271	343	F/F	14 - 255
2446393	Disulfoton	73.0	83.3	P/P	52 - 130
2446393	Dithiopyr	73.7	72.6	P/P	40 - 121
2446393	EPTC	41.8	25.2	P/P	19 - 78.0
2446393	Ethion	42.6	51.5	P/P	12 - 124
2446393	Ethoprop	87.8	83.9	P/P	68 - 144
2446393	Etridiazole	56.3	43.8	P/P	26 - 96.0
2446393	Fenamiphos	66.8	65.1	P/P	41 - 129
2446393	Fenbuconazole	84.0	99.6	P/P	26 - 169
2446393	Fipronil	91.2	125	P/P	46 - 145
2446393	Fipronil Desulfinyl	56.0	111	P/P	47 - 136
2446393	Fipronil Sulfide	73.8	118	P/P	41 - 127
2446393	Fipronil Sulfone	71.1	105	P/P	35 - 133
2446393	Fluazifop-P-butyl	74.2	141	P/F	46 - 131
2446393	Fludioxonil	71.4	91.8	P/P	51 - 124
2446393	Flumioxazin	177	189	P/P	10 - 289
2446393	Flutolanil	81.6	89.7	P/P	34 - 130
2446393	Fluxapyroxad	63.8	78.6	P/P	10 - 197
2446393	Fonofos	77.2	89.0	P/P	42 - 131
2446393	Hexabromobenzene	96.8	103	P/P	47 - 178
2446393	Hexazinone	82.4	78.4	P/P	64 - 125
2446393	Imazalil	75.1	89.1	P/P	37 - 252
2446393	Iprodione	94.6	154	P/P	34 - 265
2446393	Loratadine	247	291	F/F	20 - 231

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P436957

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446393	Malathion	104	96.9	P/P	34 - 164
2446393	Metalaxyl	64.8	76.3	P/P	49 - 125
2446393	Metolachlor	88.9	95.7	P/P	54 - 125
2446393	Metribuzin	83.1	91.3	P/P	51 - 139
2446393	Mevinphos	81.4	84.2	P/P	46 - 130
2446393	Molinate	50.2	41.0	P/P	39 - 93.0
2446393	Myclobutanil	69.4	83.1	P/P	50 - 130
2446393	Naled	37.2	40.9	P/P	10 - 150
2446393	Napropamide	75.0	85.0	P/P	10 - 109
2446393	Norflurazon	71.6	84.2	P/P	36 - 134
2446393	Octinoxate	95.6	97.5	P/P	18 - 170
2446393	Oxadiazon	62.8	74.3	P/P	43 - 112
2446393	Oxybenzone	92.3	111	P/P	33 - 154
2446393	Oxyfluorfen	78.7	107	P/P	62 - 154
2446393	Parathion Ethyl	95.4	75.9	P/P	65 - 120
2446393	Parathion Methyl	80.6	122	P/P	77 - 185
2446393	PBB-153	113	127	P/P	23 - 193
2446393	PBDE-47	80.9	84.6	P/P	31 - 139
2446393	PBDE-99	86.9	89.7	P/P	24 - 138
2446393	Pendimethalin	68.9	99.5	P/P	50 - 146
2446393	Pentabromotoluene	83.5	86.2	P/P	54 - 152
2446393	Phenytoin	29.6	33.5	P/P	10 - 157
2446393	Phorate	85.5	86.5	P/P	54 - 161
2446393	Prodiamine	67.0	71.9	P/P	29 - 160
2446393	Prometon	117	107	P/P	38 - 145
2446393	Prometryn	111	115	P/P	32 - 151
2446393	Pronamide	87.7	99.6	P/P	61 - 140
2446393	Propanil	101	122	P/P	50 - 147
2446393	Propargite	51.7	54.4	P/P	10 - 190
2446393	Propiconazole	74.7	71.4	P/P	30 - 146
2446393	Pyraflufen Ethyl	90.7	102	P/P	30 - 147
2446393	Pyridaben	165	182	P/P	15 - 195
2446393	Pyriproxyfen	71.0	63.5	P/P	31 - 218
2446393	Simazine	71.1	72.3	P/P	45 - 139
2446393	Stirophos	34.1	39.0	P/P	10 - 134
2446393	Sulfentrazone	76.3	81.2	P/P	53 - 186
2446393	Tebuconazole	36.8	50.5	P/P	10 - 133
2446393	Terbufos	88.6	86.3	P/P	65 - 151
2446393	Terbutylazine	68.8	81.9	P/P	62 - 117
2446393	Tetradecachloro-m-terphenyl	126	144	P/P	10 - 260
2446393	Thiobencarb	69.2	77.8	P/P	48 - 122
2446393	Tri-o-cresyl Phosphate	98.3	105	P/P	32 - 151
2446393	Triadimefon	64.7	81.2	P/P	46 - 124
2446393	Tris(1-chloro-2-propyl) phosphate (TCPP)	95.3	101	P/P	51 - 154
2446393	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	86.6	91.6	P/P	59 - 147
2446393	Tris(2-chloroethyl) phosphate (TCEP)	83.2	84.1	P/P	65 - 156

Reference Method: EPA 8321B
Batch ID: P436712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445805	Acesulfame K	103	110	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P436712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445805	AMPA	52.7	49.7	P/P	40 - 160
2445805	Endothall	96.6	98.0	P/P	40 - 160
2445805	Glufosinate	83.4	81.9	P/P	40 - 160
2445805	Glyphosate	102	101	P/P	40 - 160
2445805	Sucralose	99.5	100	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P436890

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446387	2,4-D	90.1	85.9	P/P	40 - 150
2446387	2,4,5-T	102	105	P/P	40 - 150
2446387	Acetaminophen	61.9	65.6	P/P	30 - 150
2446387	Acetamiprid	48.1	46.8	P/P	40 - 150
2446387	Afidopyropen	72.6	69.7	P/P	30 - 150
2446387	Bentazon	42.0	40.9	P/P	30 - 150
2446387	Benzovindiflupyr	76.9	77.6	P/P	40 - 150
2446387	Carbamazepine	48.4	48.7	P/P	40 - 150
2446387	Clothianidin	51.6	52.4	P/P	40 - 150
2446387	Dinotefuran	46.2	48.4	P/P	40 - 150
2446387	Diuron	46.1	46.0	P/P	40 - 150
2446387	Fenuron	31.7	32.2	F/F	40 - 150
2446387	Fluridone	54.0	52.1	P/P	40 - 150
2446387	Hydrocodone	48.6	49.2	P/P	40 - 150
2446387	Ibuprofen	61.7	65.7	P/P	40 - 150
2446387	Imazapyr	69.0	64.1	P/P	40 - 150
2446387	Imidacloprid	77.0	79.0	P/P	40 - 150
2446387	Linuron	59.2	58.5	P/P	40 - 150
2446387	Mandestrobin	83.5	79.9	P/P	40 - 150
2446387	MCPP	109	105	P/P	40 - 150
2446387	Naproxen	63.2	72.0	P/P	40 - 150
2446387	Primidone	49.3	48.6	P/P	40 - 150
2446387	Pyraclostrobin	79.3	79.4	P/P	40 - 150
2446387	Silvex	102	99.4	P/P	40 - 150
2446387	Thiamethoxam	54.7	55.1	P/P	40 - 150
2446387	Tolfenpyrad	52.8	52.2	P/P	30 - 150
2446387	Triclopyr	106	107	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P436885

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446318	Fluoride	101	100	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P437110

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2446365	Organic Carbon	96.7	95.1	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436827

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446413	Color (true)	0.804	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436830

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446286	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P437046

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446388	Calcium	1.30	Spike	P	0 - 20
2446388	Iron	1.46	Spike	P	0 - 20
2446388	Magnesium	0.965	Spike	P	0 - 20
2446388	Potassium	1.47	Spike	P	0 - 20
2446388	Sodium	1.50	Spike	P	0 - 20
2446388	Strontium	0.0394	Spike	P	0 - 20
2446388	Tin	0.0995	Spike	P	0 - 20
2446388	Titanium	0.573	Spike	P	0 - 20
2446388	Vanadium	0.225	Spike	P	0 - 20
2446388	Zinc	0.282	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P437046

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446388	Aluminum	2.52	Spike	P	0 - 20
2446388	Antimony	0.841	Spike	P	0 - 20
2446388	Arsenic	0.270	Spike	P	0 - 20
2446388	Barium	0.890	Spike	P	0 - 20
2446388	Beryllium	2.74	Spike	P	0 - 20
2446388	Boron	0.771	Spike	P	0 - 20
2446388	Cadmium	3.27	Spike	P	0 - 20
2446388	Chromium	0.929	Spike	P	0 - 20
2446388	Cobalt	0.458	Spike	P	0 - 20
2446388	Copper	0.199	Spike	P	0 - 20
2446388	Lead	0.511	Spike	P	0 - 20
2446388	Manganese	0.199	Spike	P	0 - 20
2446388	Molybdenum	0.665	Spike	P	0 - 20
2446388	Nickel	0.206	Spike	P	0 - 20
2446388	Selenium	2.66	Spike	P	0 - 20
2446388	Silver	0.101	Spike	P	0 - 20
2446388	Thallium	0.462	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437219

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446361	Chloride	0.484	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446031	Sulfate	1.02	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436919

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446371	Ammonia-N	0.131	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436867

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446369	Kjeldahl Nitrogen	5.93	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P437072

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446237	NO2NO3-N	0.449	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446414	Total-P	0.266	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436825

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446323	O-Phosphate-P	1.20	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P436957

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446393	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	0.705	Spike	P	0 - 30
2446393	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	7.43	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P436957

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446393	Acetochlor	14.5	Spike	P	0 - 28
2446393	Alachlor	13.7	Spike	P	0 - 30
2446393	Ametryn	9.69	Spike	P	0 - 32
2446393	Atrazine	4.05	Spike	P	0 - 33
2446393	Atrazine Desethyl	7.66	Spike	P	0 - 36
2446393	Avobenzene	11.3	Spike	P	0 - 35
2446393	Azinphos Methyl	1.75	Spike	P	0 - 62
2446393	Azoxystrobin	3.42	Spike	P	0 - 39
2446393	Bromacil	20.2	Spike	P	0 - 33
2446393	Butylate	38.0	Spike	P	0 - 51
2446393	Caffeine	4.65	Spike	P	0 - 100
2446393	Carbophenothion	23.5	Spike	P	0 - 34
2446393	Carfentrazone Ethyl	7.31	Spike	P	0 - 33
2446393	Chlorfenapyr	16.9	Spike	P	0 - 28
2446393	Chlorpyrifos Ethyl	3.17	Spike	P	0 - 31
2446393	Chlorpyrifos Methyl	12.5	Spike	P	0 - 27
2446393	Coumaphos	33.9	Spike	P	0 - 62
2446393	Cyanazine	26.6	Spike	P	0 - 48
2446393	Cyprodinil	12.3	Spike	P	0 - 29
2446393	Dechlorane 602	0.499	Spike	P	0 - 60
2446393	Dechlorane 603	8.94	Spike	P	0 - 40
2446393	Dechlorane Plus	2.63	Spike	P	0 - 38
2446393	Demeton	1.78	Spike	P	0 - 33
2446393	Diazinon	45.4	Spike	F	0 - 32
2446393	Difenoconazole	16.6	Spike	P	0 - 71
2446393	Dimethenamid	7.38	Spike	P	0 - 60
2446393	Dimethomorph	23.5	Spike	P	0 - 61
2446393	Disulfoton	13.2	Spike	P	0 - 30
2446393	Dithiopyr	1.53	Spike	P	0 - 28
2446393	EPTC	49.5	Spike	P	0 - 56
2446393	Ethion	17.2	Spike	P	0 - 79
2446393	Ethoprop	4.52	Spike	P	0 - 31
2446393	Etridiazole	25.0	Spike	P	0 - 43
2446393	Fenamiphos	2.47	Spike	P	0 - 43
2446393	Fenbuconazole	17.0	Spike	P	0 - 79
2446393	Fipronil	31.0	Spike	P	0 - 46
2446393	Fipronil Desulfinyl	65.9	Spike	F	0 - 36
2446393	Fipronil Sulfide	45.8	Spike	F	0 - 34
2446393	Fipronil Sulfone	38.8	Spike	P	0 - 47
2446393	Fluazifop-P-butyl	61.8	Spike	F	0 - 38
2446393	Fludioxonil	24.9	Spike	P	0 - 29
2446393	Flumioxazin	6.20	Spike	P	0 - 63
2446393	Flutolanil	9.40	Spike	P	0 - 36
2446393	Fluxapyroxad	20.8	Spike	P	0 - 65
2446393	Fonofos	14.3	Spike	P	0 - 35
2446393	Hexabromobenzene	6.50	Spike	P	0 - 41
2446393	Hexazinone	5.00	Spike	P	0 - 31
2446393	Imazalil	17.1	Spike	P	0 - 52
2446393	Iprodione	47.7	Spike	P	0 - 49
2446393	Loratadine	16.3	Spike	P	0 - 59
2446393	Malathion	7.07	Spike	P	0 - 77

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P436957

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446393	Metalaxyl	16.3	Spike	P	0 - 76
2446393	Metolachlor	7.35	Spike	P	0 - 29
2446393	Metribuzin	9.39	Spike	P	0 - 51
2446393	Mevinphos	3.33	Spike	P	0 - 31
2446393	Molinate	20.2	Spike	P	0 - 39
2446393	Myclobutanil	17.8	Spike	P	0 - 34
2446393	Naled	9.54	Spike	P	0 - 37
2446393	Napropamide	12.5	Spike	P	0 - 100
2446393	Norflurazon	16.2	Spike	P	0 - 54
2446393	Octinoxate	1.93	Spike	P	0 - 35
2446393	Oxadiazon	16.9	Spike	P	0 - 34
2446393	Oxybenzone	18.2	Spike	P	0 - 35
2446393	Oxyfluorfen	30.3	Spike	F	0 - 28
2446393	Parathion Ethyl	22.8	Spike	P	0 - 31
2446393	Parathion Methyl	40.8	Spike	F	0 - 29
2446393	PBB-153	11.8	Spike	P	0 - 49
2446393	PBDE-47	4.43	Spike	P	0 - 36
2446393	PBDE-99	3.18	Spike	P	0 - 46
2446393	Pendimethalin	36.4	Spike	F	0 - 31
2446393	Pentabromotoluene	3.18	Spike	P	0 - 16
2446393	Phenytoin	12.3	Spike	P	0 - 100
2446393	Phorate	1.16	Spike	P	0 - 36
2446393	Prodiamine	7.05	Spike	P	0 - 68
2446393	Prometon	9.20	Spike	P	0 - 35
2446393	Prometryn	2.91	Spike	P	0 - 33
2446393	Pronamide	12.7	Spike	P	0 - 24
2446393	Propanil	18.4	Spike	P	0 - 28
2446393	Propargite	5.26	Spike	P	0 - 53
2446393	Propiconazole	4.40	Spike	P	0 - 44
2446393	Pyraflufen Ethyl	11.5	Spike	P	0 - 61
2446393	Pyridaben	9.90	Spike	P	0 - 43
2446393	Pyriproxyfen	11.2	Spike	P	0 - 82
2446393	Simazine	1.66	Spike	P	0 - 29
2446393	Stirophos	13.4	Spike	P	0 - 100
2446393	Sulfentrazone	6.16	Spike	P	0 - 64
2446393	Tebuconazole	31.4	Spike	P	0 - 76
2446393	Terbufos	2.58	Spike	P	0 - 29
2446393	Terbuthylazine	17.4	Spike	P	0 - 28
2446393	Tetradecachloro-m-terphenyl	13.1	Spike	P	0 - 42
2446393	Thiobencarb	11.8	Spike	P	0 - 26
2446393	Tri-o-cresyl Phosphate	6.11	Spike	P	0 - 24
2446393	Triadimefon	22.6	Spike	P	0 - 40
2446393	Tris(1-chloro-2-propyl) phosphate (TCPP)	6.11	Spike	P	0 - 30
2446393	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	5.60	Spike	P	0 - 22
2446393	Tris(2-chloroethyl) phosphate (TCEP)	1.05	Spike	P	0 - 15

Reference Method: EPA 8321B

Batch ID: P436712

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

Reference Method: EPA 8321B
Batch ID: P436712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445805	Acesulfame K	6.67	Spike	P	0 - 30
2445805	AMPA	3.71	Spike	P	0 - 30
2445805	Endothall	1.39	Spike	P	0 - 30
2445805	Glufosinate	1.78	Spike	P	0 - 30
2445805	Glyphosate	0.240	Spike	P	0 - 30
2445805	Sucralose	0.810	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446387	2,4-D	4.71	Spike	P	0 - 30
2446387	2,4,5-T	2.34	Spike	P	0 - 30
2446387	Acetaminophen	5.93	Spike	P	0 - 30
2446387	Acetamiprid	2.82	Spike	P	0 - 30
2446387	Afidopyropen	4.14	Spike	P	0 - 30
2446387	Bentazon	2.48	Spike	P	0 - 30
2446387	Benzovindiflupyr	0.860	Spike	P	0 - 30
2446387	Carbamazepine	0.671	Spike	P	0 - 30
2446387	Clothianidin	1.57	Spike	P	0 - 30
2446387	Dinotefuran	4.62	Spike	P	0 - 30
2446387	Diuron	0.118	Spike	P	0 - 30
2446387	Fenuron	1.42	Spike	P	0 - 30
2446387	Fluridone	3.59	Spike	P	0 - 30
2446387	Hydrocodone	1.26	Spike	P	0 - 30
2446387	Ibuprofen	6.28	Spike	P	0 - 30
2446387	Imazapyr	4.82	Spike	P	0 - 30
2446387	Imidacloprid	2.54	Spike	P	0 - 30
2446387	Linuron	1.12	Spike	P	0 - 30
2446387	Mandestrobin	4.43	Spike	P	0 - 30
2446387	MCPP	3.61	Spike	P	0 - 30
2446387	Naproxen	13.1	Spike	P	0 - 30
2446387	Primidone	1.39	Spike	P	0 - 30
2446387	Pyraclostrobin	0.192	Spike	P	0 - 30
2446387	Silvex	2.78	Spike	P	0 - 30
2446387	Thiamethoxam	0.839	Spike	P	0 - 30
2446387	Tolfenpyrad	1.27	Spike	P	0 - 30
2446387	Triclopyr	0.428	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P436883

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446318	Total Alkalinity	0.623	Sample	P	0 - 3.9

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P437261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446029	TDS	7.64	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436885

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446318	Fluoride	0.483	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P437110

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2446365	Organic Carbon	1.08	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2446387

Field Sample ID: G2SW0170

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	97.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	68.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.7	P	30 - 160
EPA 8321B	Diuron-d6	52.2	P	30 - 160
EPA 8321B	Endothall-d6	84.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	70.3	P	30 - 160
EPA 8321B	Primidone-d5	52.4	P	30 - 160
EPA 8321B	Sucralose-d6	103	P	30 - 160

Lab Sample ID: 2446396

Field Sample ID: G2SW0170

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	87.9	P	20 - 200
EPA 8270E	Simazine-d10	81.3	P	58 - 137
EPA 8270E	Terbufos-d10	80.4	P	50 - 134
EPA 8270E	Terphenyl-d14	107	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A122266

Included Lab Sample IDs: 2446372

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.7	99.9	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A122268

Included Lab Sample IDs: 2446370

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122269

Included Lab Sample IDs: 2446370

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105

Reference Method: SM 2320 B-2011

Run ID: A122296

Included Lab Sample IDs: 2446370

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.9	94.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A122296

Included Lab Sample IDs: 2446370

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

Reference Method: EPA 8321B

Run ID: A122307

Included Lab Sample IDs: 2446387

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	97.3	93.9	P/P	60 - 160
Sucralose	95.8	104	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122310

Included Lab Sample IDs: 2446371

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122312

Included Lab Sample IDs: 2446371

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.4	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122336
Included Lab Sample IDs: 2446387

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	91.0	94.4	P/P	60 - 160
Endothall	85.6	89.6	P/P	60 - 160
Glufosinate	86.0	89.8	P/P	60 - 160
Glyphosate	92.7	94.4	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A122367
Included Lab Sample IDs: 2446387

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	83.6	78.2	P/P	50 - 150
2,4,5-T	93.0	76.1	P/P	50 - 150
Acetaminophen	110	107	P/P	60 - 160
Acetamiprid	106	106	P/P	50 - 150
Afidopyropen	94.7	89.6	P/P	50 - 150
Bentazon	105	99.2	P/P	50 - 160
Benzovindiflupyr	105	104	P/P	50 - 150
Carbamazepine	101	104	P/P	60 - 150
Clothianidin	107	103	P/P	60 - 150
Dinotefuran	107	113	P/P	50 - 150
Diuron	109	112	P/P	60 - 160
Fenuron	107	107	P/P	60 - 150
Fluridone	113	115	P/P	60 - 160
Hydrocodone	108	112	P/P	60 - 150
Ibuprofen	97.5	99.3	P/P	50 - 160
Imazapyr	87.6	90.9	P/P	50 - 150
Imidacloprid	97.9	98.3	P/P	60 - 150
Linuron	105	106	P/P	60 - 150
Mandestrobin	104	106	P/P	50 - 150
MCPP	93.9	78.9	P/P	50 - 150
Naproxen	107	60.0	P/P	50 - 160
Primidone	95.5	99.4	P/P	60 - 150
Pyraclostrobin	112	108	P/P	60 - 150
Silvex	98.5	82.8	P/P	50 - 150
Thiamethoxam	108	109	P/P	50 - 150
Tolfenpyrad	101	104	P/P	60 - 150
Triclopyr	92.6	84.6	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A122370
Included Lab Sample IDs: 2446371

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A122402
Included Lab Sample IDs: 2446371

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A122424

Included Lab Sample IDs: 2446371

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	97.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122425

Included Lab Sample IDs: 2446392

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	96.9	94.9	P/P	90 - 110
Arsenic	95.8	94.7	P/P	90 - 110
Barium	98.6	97.1	P/P	90 - 110
Beryllium	95.9	96.3	P/P	90 - 110
Cadmium	102	101	P/P	90 - 110
Chromium	103	104	P/P	90 - 110
Cobalt	93.7	92.3	P/P	90 - 110
Copper	92.4	90.5	P/P	90 - 110
Lead	91.9	91.7	P/P	90 - 110
Manganese	102	103	P/P	90 - 110
Molybdenum	98.1	97.0	P/P	90 - 110
Nickel	93.0	91.4	P/P	90 - 110
Selenium	98.7	99.3	P/P	90 - 110
Silver	99.1	99.6	P/P	90 - 110
Thallium	98.5	99.0	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A122428

Included Lab Sample IDs: 2446392

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	102	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Potassium	99.9	100	P/P	90 - 110
Sodium	99.4	99.3	P/P	90 - 110
Strontium	98.0	97.2	P/P	90 - 110
Tin	100	100	P/P	90 - 110
Titanium	100	100	P/P	90 - 110
Vanadium	99.3	99.4	P/P	90 - 110
Zinc	99.5	99.9	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122445

Included Lab Sample IDs: 2446392

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	96.0	97.0	P/P	90 - 110
Boron	104	106	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122478
Included Lab Sample IDs: 2446396

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	97.7		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.9		P	80 - 120
Avobenzone	101		P	80 - 120
Dechlorane 602	98.1		P	80 - 120
Dechlorane 603	99.6		P	80 - 120
Dechlorane Plus	103		P	80 - 120
Hexabromobenzene	92.0		P	80 - 120
Octinoxate	90.7		P	80 - 120
Oxybenzone	91.3		P	80 - 120
PBB-153	93.9		P	80 - 120
PBDE-47	90.1		P	80 - 120
PBDE-99	93.5		P	80 - 120
Pentabromotoluene	93.2		P	80 - 120
Tetradecachloro-m-terphenyl	106		P	80 - 120
Tri-o-cresyl Phosphate	95.3		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	95.6		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	101		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	107		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A122479
Included Lab Sample IDs: 2446370

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Sulfate	100	103	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A122538
Included Lab Sample IDs: 2446396

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	85.0		P	80 - 120
Alachlor	90.8		P	80 - 120
Ametryn	99.3		P	80 - 120
Atrazine	84.8		P	80 - 120
Atrazine Desethyl	115		P	80 - 120
Azinphos Methyl	94.9		P	80 - 120
Azoxystrobin	97.8		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	93.9		P	80 - 120
Caffeine	99.9		P	80 - 120
Carbophenothion	97.8		P	80 - 120
Carfentrazone Ethyl	98.9		P	80 - 120
Chlorfenapyr	98.7		P	80 - 120
Chlorpyrifos Ethyl	89.1		P	80 - 120
Chlorpyrifos Methyl	109		P	80 - 120
Coumaphos	106		P	80 - 120
Cyanazine	105		P	80 - 120
Cyprodinil	104		P	80 - 120
Demeton	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A122538
 Included Lab Sample IDs: 2446396

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diazinon	112		P	80 - 120
Difenoconazole	106		P	80 - 120
Dimethenamid	100		P	80 - 120
Dimethomorph	101		P	80 - 120
Disulfoton	96.2		P	80 - 120
Dithiopyr	96.5		P	80 - 120
EPTC	101		P	80 - 120
Ethion	89.1		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	98.7		P	80 - 120
Fenamiphos	85.8		P	80 - 120
Fenbuconazole	84.6		P	80 - 120
Fipronil	98.9		P	80 - 120
Fipronil Desulfinyl	106		P	80 - 120
Fipronil Sulfide	96.5		P	80 - 120
Fipronil Sulfone	95.2		P	80 - 120
Fluazifop-P-butyl	95.4		P	80 - 120
Fludioxonil	91.1		P	80 - 120
Flumioxazin	107		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	107		P	80 - 120
Fonofos	106		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	88.5		P	80 - 120
Iprodione	120		P	80 - 120
Loratadine	95.3		P	80 - 120
Malathion	96.2		P	80 - 120
Metaxyl	95.3		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	98.9		P	80 - 120
Molinate	90.6		P	80 - 120
Myclobutanil	84.2		P	80 - 120
Naled	103		P	80 - 120
Napropamide	92.0		P	80 - 120
Norflurazon	104		P	80 - 120
Oxadiazon	94.3		P	80 - 120
Oxyfluorfen	102		P	80 - 120
Parathion Ethyl	91.3		P	80 - 120
Parathion Methyl	98.8		P	80 - 120
Pendimethalin	92.2		P	80 - 120
Phenytoin	98.2		P	80 - 120
Phorate	109		P	80 - 120
Prodiamine	103		P	80 - 120
Prometon	90.6		P	80 - 120
Prometryn	100		P	80 - 120
Pronamide	100		P	80 - 120
Propanil	106		P	80 - 120
Propargite	102		P	80 - 120
Propiconazole	89.5		P	80 - 120
Pyraflufen Ethyl	113		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122538
Included Lab Sample IDs: 2446396

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyridaben	99.7		P	80 - 120
Pyriproxyfen	99.0		P	80 - 120
Simazine	95.7		P	80 - 120
Stirophos	92.3		P	80 - 120
Sulfentrazone	97.8		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	100		P	80 - 120
Terbutylazine	90.1		P	80 - 120
Thiobencarb	97.0		P	80 - 120
Triadimefon	99.9		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)	101					0.804	
EPA 180.1 Rev. 2.0	Turbidity	104					0.0	
EPA 200.7 Rev. 4.4	Calcium	105	103	99.7				1.30
	Iron	111	111	110	108			1.46
	Magnesium	112	111	109	102			0.965
	Potassium	102	102	101	101			1.47
	Sodium	102	101	104				1.50
	Strontium	99.0	97.5	97.5	96.3			0.0394
	Tin	97.9	94.6	94.5	95.3			0.0995
	Titanium	101	101	101	99.2			0.573
	Vanadium	99.1	99.0	98.7	97.9			0.225
	Zinc	96.9	96.3	96.1	93.4			0.282
EPA 200.8 Rev. 5.4	Aluminum	95.3	96.4	93.9	95.3			2.52
	Antimony	96.3	96.6	95.8	98.7			0.841
	Arsenic	95.4	96.2	96.0	97.7			0.270
	Barium	98.9	99.9	98.9	99.8			0.890
	Beryllium	95.5	91.0	93.6	94.6			2.74
	Boron	106	107	108	110			0.771
	Cadmium	100	102	99.2	103			3.27
	Chromium	99.6	101	99.9	103			0.929
	Cobalt	92.6	92.9	92.5	92.1			0.458
	Copper	91.3	91.9	92.1	88.8			0.199
	Lead	91.2	92.6	92.2	92.3			0.511
	Manganese	99.9	99.8	99.5	101			0.199
	Molybdenum	95.8	97.8	97.1	101			0.665
	Nickel	91.0	90.8	90.6	89.1			0.206
	Selenium	95.4	93.4	95.9	94.5			2.66
	Silver	105	105	105	107			0.101
	Thallium	97.2	102	102	100			0.462
EPA 300.0 Rev. 2.1	Chloride	101	103	102			0.484	
	Sulfate	106	105	106			1.02	
EPA 350.1 Rev. 2.0	Ammonia-N	99.2	100	100				0.131
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106	94.5	104				5.93
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	96.4	95.8				0.449
EPA 365.1 Rev. 2.0	Total-P	103	105	105				0.266
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.6	97.2	98.6				1.20
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	80.3	88.6	89.2				0.705
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	113	105	114				7.43
	Acetochlor	84.4	82.6	71.5				14.5
	Alachlor	75.6	65.9	57.4				13.7
	Ametryn	133	107	97.5				9.69
	Atrazine	72.2	76.0	72.4				4.05
	Atrazine Desethyl	84.8	67.4	62.4				7.66
	Avobenzone	140	139	155				11.3
	Azinphos Methyl	68.4	81.8	83.3				1.75
	Azoxystrobin	76.3	100	104				3.42
	Bromacil	96.1	100	82.0				20.2
	Butylate	37.4	30.0	44.1				38.0
	Caffeine	89.1	110	105				4.65
	Carbophenothion	91.0	116	91.7				23.5
	Carfentrazone Ethyl	98.8	104	97.1				7.31

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorfenapyr	79.6	83.4	70.4		16.9
	Chlorpyrifos Ethyl	101	77.2	74.8		3.17
	Chlorpyrifos Methyl	107	118	104		12.5
	Coumaphos	91.7	195	139		33.9
	Cyanazine	165	188	144		26.6
	Cyprodinil	136	113	100		12.3
	Dechlorane 602	91.2	59.2	59.5		0.499
	Dechlorane 603	138	94.6	103		8.94
	Dechlorane Plus	152	89.3	91.7		2.63
	Demeton	64.5	67.9	66.7		1.78
	Diazinon	101	118	74.4		45.4
	Difenoconazole	77.0	135	160		16.6
	Dimethenamid	76.1	73.9	79.6		7.38
	Dimethomorph	135	343	271		23.5
	Disulfoton	82.7	83.3	73.0		13.2
	Dithiopyr	95.3	72.6	73.7		1.53
	EPTC	32.3	25.2	41.8		49.5
	Ethion	73.4	51.5	42.6		17.2
	Ethoprop	76.8	83.9	87.8		4.52
	Etridiazole	54.8	43.8	56.3		25.0
	Fenamiphos	83.5	65.1	66.8		2.47
	Fenbuconazole	47.8	99.6	84.0		17.0
	Fipronil	114	125	91.2		31.0
	Fipronil Desulfinyl	93.6	111	56.0		65.9
	Fipronil Sulfide	92.0	118	73.8		45.8
	Fipronil Sulfone	76.8	105	71.1		38.8
	Fluazifop-P-butyl	93.5	141	74.2		61.8
	Fludioxonil	69.6	91.8	71.4		24.9
	Flumioxazin	86.7	189	177		6.20
	Flutolanil	48.7	81.6	89.7		9.40
	Fluxapyroxad	71.7	78.6	63.8		20.8
	Fonofos	76.0	89.0	77.2		14.3
	Hexabromobenzene	104	96.8	103		6.50
	Hexazinone	82.0	78.4	82.4		5.00
	Imazalil	59.6	89.1	75.1		17.1
	Iprodione	152	154	94.6		47.7
	Loratadine	103	291	247		16.3
	Malathion	96.5	96.9	104		7.07
	Metalaxyl	81.1	76.3	64.8		16.3
	Metolachlor	85.2	95.7	88.9		7.35
	Metribuzin	81.6	91.3	83.1		9.39
	Mevinphos	69.7	84.2	81.4		3.33
	Molinate	40.1	41.0	50.2		20.2
	Myclobutanil	79.1	83.1	69.4		17.8
	Naled	30.3	40.9	37.2		9.54
	Napropamide	96.5	85.0	75.0		12.5
	Norflurazon	71.8	84.2	71.6		16.2
	Octinoxate	141	95.6	97.5		1.93
	Oxadiazon	65.7	74.3	62.8		16.9
	Oxybenzone	130	92.3	111		18.2
	Oxyfluorfen	101	107	78.7		30.3
	Parathion Ethyl	80.3	75.9	95.4		22.8
	Parathion Methyl	110	122	80.6		40.8
	PBB-153	142	113	127		11.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	PBDE-47	123	80.9	84.6			4.43
	PBDE-99	115	86.9	89.7			3.18
	Pendimethalin	111	99.5	68.9			36.4
	Pentabromotoluene	122	83.5	86.2			3.18
	Phenytoln	54.3	33.5	29.6			12.3
	Phorate	77.8	86.5	85.5			1.16
	Prodiamine	59.4	71.9	67.0			7.05
	Prometon	94.9	107	117			9.20
	Prometryn	112	115	111			2.91
	Pronamide	101	99.6	87.7			12.7
	Propanil	105	122	101			18.4
	Propargite	80.9	54.4	51.7			5.26
	Propiconazole	78.1	71.4	74.7			4.40
	Pyraflufen Ethyl	104	102	90.7			11.5
	Pyridaben	78.0	182	165			9.90
	Pyriproxyfen	67.9	63.5	71.0			11.2
	Simazine	67.5	72.3	71.1			1.66
	Stirophos	61.9	39.0	34.1			13.4
	Sulfentrazone	62.0	81.2	76.3			6.16
	Tebuconazole	69.1	50.5	36.8			31.4
	Terbufos	83.2	86.3	88.6			2.58
	Terbuthylazine	79.4	81.9	68.8			17.4
	Tetradecachloro-m-terphenyl	223	126	144			13.1
	Thiobencarb	80.1	77.8	69.2			11.8
	Tri-o-cresyl Phosphate	129	98.3	105			6.11
	Triadimefon	92.8	81.2	64.7			22.6
	Tris(1-chloro-2-propyl) phosphate (TCPP)	137	95.3	101			6.11
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	128	86.6	91.6			5.60
	Tris(2-chloroethyl) phosphate (TCEP)	126	83.2	84.1			1.05
EPA 8321B	2,4-D	77.0	90.1	85.9			4.71
	2,4,5-T	76.0	102	105			2.34
	Acesulfame K	84.6	103	110			6.67
	Acetaminophen	94.0	61.9	65.6			5.93
	Acetamiprid	85.3	48.1	46.8			2.82
	Afidopyropen	79.7	72.6	69.7			4.14
	AMPA	88.4	52.7	49.7			3.71
	Bentazon	92.2	42.0	40.9			2.48
	Benzovindiflupyr	82.5	76.9	77.6			0.860
	Carbamazepine	80.1	48.4	48.7			0.671
	Clothianidin	90.7	51.6	52.4			1.57
	Dinotefuran	100	46.2	48.4			4.62
	Diuron	79.8	46.1	46.0			0.118
	Endothall	93.9	96.6	98.0			1.39
	Fenuron	90.6	31.7	32.2			1.42
	Fluridone	90.0	54.0	52.1			3.59
	Glufosinate	96.5	83.4	81.9			1.78
	Glyphosate	99.0	102	101			0.240
	Hydrocodone	90.1	48.6	49.2			1.26
	Ibuprofen	63.7	61.7	65.7			6.28
	Imazapyr	81.9	69.0	64.1			4.82
	Imidacloprid	84.3	77.0	79.0			2.54

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Linuron	79.7	59.2	58.5			1.12
	Mandestrobin	90.0	83.5	79.9			4.43
	MCP	88.5	109	105			3.61
	Naproxen	79.0	63.2	72.0			13.1
	Primidone	85.2	49.3	48.6			1.39
	Pyraclostrobin	83.3	79.3	79.4			0.192
	Silvex	76.5	102	99.4			2.78
	Sucralose	90.8	99.5	100			0.810
	Thiamethoxam	86.0	54.7	55.1			0.839
	Tolfenpyrad	54.9	52.8	52.2			1.27
	Triclopyr	83.5	106	107			0.428
SM 2320 B-2011	Total Alkalinity	97.7				0.623	
SM 2540 C-2015	TDS	107				7.64	
SM 2540 D-2015	TSS	92.0					
SM 4500-F- C-2011	Fluoride	101	101	100			0.483
SM 5310 B-2011	Organic Carbon	97.0	96.7	95.1			1.08

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2446370
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2446370
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2446392
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2446392
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2446370
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2446370
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2446371
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2446371
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2446371
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2446371
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2446372
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2446396
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2446396
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2446387
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2446370
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2446392
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2446370
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2446370
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2446370
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2446371

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	10/20/2023			10/20/2023 14:22	Anna M. Plaviak	2446370
EPA 180.1 Rev. 2.0	10/20/2023			10/20/2023 13:25	Khloe J Berg	2446370
EPA 200.7 Rev. 4.4	10/20/2023	10/26/2023 14:35	George D Taylor	10/27/2023 19:03	Chase Roberts	2446392
EPA 200.8 Rev. 5.4	10/20/2023	10/26/2023 14:35	George D Taylor	10/28/2023 00:33	Conrad Hartmann	2446392
	10/20/2023	10/26/2023 14:35	George D Taylor	10/30/2023 19:12	Conrad Hartmann	2446392
EPA 300.0 Rev. 2.1	10/20/2023			10/31/2023 02:56	James L Waggeberby	2446370
	10/20/2023			11/02/2023 12:49	James L Waggeberby	2446370
EPA 350.1 Rev. 2.0	10/20/2023			10/24/2023 12:23	Khloe J Berg	2446371
EPA 351.2 Rev. 2.0	10/20/2023	10/24/2023 11:15	Ping Hua	10/26/2023 10:52	Samantha L Bates	2446371
EPA 353.2 Rev. 2.0	10/20/2023			10/26/2023 14:26	Fadila Guebre	2446371
EPA 365.1 Rev. 2.0	10/20/2023	10/23/2023 13:55	Simonne.V. Calhoun	10/24/2023 12:48	Simonne.V. Calhoun	2446371
EPA 365.1 Rev. 2.0 dissolved	10/20/2023			10/20/2023 14:36	Chandler E Cox	2446372
EPA 8270E	10/20/2023	10/25/2023 08:30	Rasheda Ghaffari	10/31/2023 19:00	Arthur Maknenko	2446396
	10/20/2023	10/25/2023 08:30	Rasheda Ghaffari	10/31/2023 20:01	Vandana T. Nagar	2446396
EPA 8321B	10/20/2023	10/20/2023 12:00	Hana Lee	10/23/2023 15:08	Tae K Lee	2446387
	10/20/2023	10/20/2023 12:00	Hana Lee	10/24/2023 05:07	Tae K Lee	2446387
	10/20/2023	10/25/2023 09:00	Hoor Shaik	10/25/2023 17:52	Juyoung Kim	2446387
SM 2320 B-2011	10/20/2023			10/23/2023 20:52	Adam P Silver	2446370
SM 2340 B-2011	10/20/2023			10/27/2023 19:03	Chase Roberts	2446392
SM 2540 C-2015	10/20/2023			10/24/2023 15:22	Yijie Li	2446370
SM 2540 D-2015	10/20/2023			10/24/2023 15:22	Yijie Li	2446370
SM 4500-F- C-2011	10/20/2023			10/23/2023 20:52	Adam P Silver	2446370
SM 5310 B-2011	10/20/2023			10/27/2023 01:35	Elise M. Gillis	2446371