

Chemical Analysis Report

NE-DIST-2024-02-21-01

Florida DEP Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

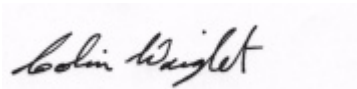
Event Description: **SCI SMP**
Request ID: **RQ-2024-02-19-56**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
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Certified by: Colin Wright, Program Administrator

Date Certified: 18-MAR-2024 08:52

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: Rose Creek at SW Walter Ave

Collection Date/Time: 02/20/2024 10:45

Field ID: G1NE0958

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2470401	DEP SOP: NU-094-1	Color (true)	260		PCU	P441755	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P441765	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P442130	
		Sulfate	0.22	I	mg SO4/L	P442134	
	SM 2320 B-2011	Total Alkalinity	13		mg CaCO3/L	P442207	
	SM 2540 C-2015	TDS	105		mg/L	P442271	
	SM 2540 D-2015	TSS	3	I	mg/L	P442080	
	SM 4500-F- C-2011	Fluoride	0.061	I	mg F/L	P442485	MS
2470402	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P441897	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P441838	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P441979	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P441786	
	SM 5310 B-2014	Organic Carbon	35		mg C/L	P441953	
2470403	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.093		mg P/L	P441748	
2470408	EPA 8321B	2,4-D	0.0020	U	ug/L	P441664	
		Acesulfame K	0.10	U	ug/L	P441729	
		2,4,5-T	0.0040	U	ug/L	P441664	
		AMPA	0.10	U	ug/L	P441729	
		Acetaminophen	0.0080	U	ug/L	P441664	
		Acetamiprid	0.0020	U	ug/L	P441664	
		Endothall	0.25	U	ug/L	P441729	
		Glufosinate	0.10	U	ug/L	P441729	
		Glyphosate	0.10	U	ug/L	P441729	
		Afidopyropen	0.0020	U	ug/L	P441664	
		Bentazon	8.0E-04	U	ug/L	P441664	
		Sucralose	0.012	I	ug/L	P441729	
		Benzovindiflupyr	0.0020	U	ug/L	P441664	
		Carbamazepine	8.0E-04	U	ug/L	P441664	
		Clothianidin	0.0020	U	ug/L	P441664	
		Dinotefuran	0.0020	U	ug/L	P441664	
		Diuron	0.0020	U	ug/L	P441664	
		Fenuron	0.032	U	ug/L	P441664	
		Fluridone	8.0E-04	U	ug/L	P441664	
		Imazapyr	0.081		ug/L	P441664	
		Hydrocodone	0.0020	U	ug/L	P441664	
		Ibuprofen	0.080	U	ug/L	P441664	
		Imidacloprid	0.0020	U	ug/L	P441664	
		Linuron	0.0040	U	ug/L	P441664	
		Mandestrobin	0.0020	U	ug/L	P441664	
		MCPP	0.0020	U	ug/L	P441664	
		Naproxen	0.0080	U	ug/L	P441664	
		Primidone	0.0040	U	ug/L	P441664	
		Pyraclostrobin	0.0020	U	ug/L	P441664	

Field ID: G1NE0958

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2470408	EPA 8321B	Silvex	0.0040	U	ug/L	P441664	
		Thiamethoxam	0.0020	U	ug/L	P441664	
		Tolfenpyrad	0.0020	U	ug/L	P441664	
		Triclopyr	0.0040	U	ug/L	P441664	
2470409	EPA 200.7 Rev. 4.4	Calcium	10.3		mg/L	P441960	
		Iron	350		ug/L	P441960	
		Magnesium	2.60		mg/L	P441960	
		Potassium	0.99	I	mg/L	P441960	
		Sodium	5.9		mg/L	P441960	
		Strontium	16.1		ug/L	P441960	
		Tin	3.0	U	ug/L	P441960	
		Titanium	6.2		ug/L	P441960	
		Vanadium	2.0	U	ug/L	P441960	
		Zinc	5.3	I	ug/L	P441960	
	EPA 200.8 Rev. 5.4	Aluminum	440		ug/L	P441960	
		Antimony	0.057	I	ug/L	P441960	
		Arsenic	0.43		ug/L	P441960	
		Barium	8.64		ug/L	P441960	
		Beryllium	0.023	I	ug/L	P441960	
		Boron	14.3		ug/L	P441960	
		Cadmium	0.020	U	ug/L	P441960	
		Chromium	1.2	I	ug/L	P441960	
		Cobalt	0.051	I	ug/L	P441960	
		Copper	0.68	I	ug/L	P441960	
		Lead	0.20	U	ug/L	P441960	
		Manganese	6.97		ug/L	P441960	
		Molybdenum	0.15	U	ug/L	P441960	
		Nickel	0.66	I	ug/L	P441960	
		Selenium	0.20	U	ug/L	P441960	
		Silver	0.010	U	ug/L	P441960	
		Thallium	0.10	U	ug/L	P441960	
	SM 2340 B-2011	Hardness	36.5		mg/L	P441960	
2470412	EPA 8270E	Oxybenzone**	10	U	ng/L	P441914	
		Acetochlor	0.20	U	ng/L	P441914	
		Octinoxate**	150	U	ng/L	P441914	
		Alachlor	0.41	U	ng/L	P441914	
		Avobenzone**	100	U	ng/L	P441914	
		Ametryn	1.1	U	ng/L	P441914	
		Atrazine	0.33	I	ng/L	P441914	
		PBDE-47**	4.1	U	ng/L	P441914	
		Atrazine Desethyl	1.3	U	ng/L	P441914	
		PBDE-99**	5.1	U	ng/L	P441914	
		Azinphos Methyl	3.1	U	ng/L	P441914	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P441914	
		Azoxystrobin	0.41	U	ng/L	P441914	

Field ID: G1NE0958

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2470412	EPA 8270E	Bromacil	0.61	U	ng/L	P441914	
		2-Ethylhexyl	12	U	ng/L	P441914	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.46	U	ng/L	P441914	
		Dechlorane Plus**	31	U	ng/L	P441914	
		Caffeine**	7.7	U	ng/L	P441914	
		Dechlorane 602**	5.1	U	ng/L	P441914	
		Carbophenothion	0.51	U	ng/L	P441914	
		Dechlorane 603**	4.1	U	ng/L	P441914	
		Carfentrazone Ethyl	0.15	U	ng/L	P441914	
		Hexabromobenzene**	6.1	U	ng/L	P441914	
		Chlorfenapyr	0.31	U	ng/L	P441914	
		PBB-153**	6.1	U	ng/L	P441914	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P441914	
		Pentabromotoluene**	3.1	UJ	ng/L	P441914	LCS
		Chlorpyrifos Methyl	0.10	U	ng/L	P441914	
		Tris(2-chloroethyl) phosphate (TCEP)**	56	U	ng/L	P441914	
		Coumaphos	1.1	U	ng/L	P441914	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	26	U	ng/L	P441914	
		Cyanazine	5.1	U	ng/L	P441914	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P441914	
		Cyprodinil	0.20	U	ng/L	P441914	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P441914	
		Demeton	3.6	U	ng/L	P441914	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	61	U	ng/L	P441914	
		Diazinon	0.13	U	ng/L	P441914	
		Difenoconazole	0.61	U	ng/L	P441914	
		Dimethenamid	0.10	U	ng/L	P441914	
		Dimethomorph	0.31	U	ng/L	P441914	
		Disulfoton	0.61	U	ng/L	P441914	
		Dithiopyr	1.0	U	ng/L	P441914	
		EPTC	0.51	U	ng/L	P441914	
		Ethion	0.31	U	ng/L	P441914	
		Ethoprop	0.13	U	ng/L	P441914	
		Etridiazole	0.10	U	ng/L	P441914	
		Fenamiphos	0.46	U	ng/L	P441914	
		Fenbuconazole	0.51	U	ng/L	P441914	
		Fipronil	0.20	U	ng/L	P441914	
		Fipronil Desulfinyl**	0.10	U	ng/L	P441914	
		Fipronil Sulfide	0.10	U	ng/L	P441914	
		Fipronil Sulfone	0.10	U	ng/L	P441914	
		Fluazifop-P-butyl	0.10	U	ng/L	P441914	
		Fludioxonil	0.10	U	ng/L	P441914	
		Flumioxazin	3.1	U	ng/L	P441914	

Field ID: G1NE0958

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2470412	EPA 8270E	Flutolanil	0.10	U	ng/L	P441914	
		Fluxapyroxad	0.26	U	ng/L	P441914	
		Fonofos	0.15	UJ	ng/L	P441914	LCS
		Hexazinone	0.51	U	ng/L	P441914	
		Imazalil	0.67	U	ng/L	P441914	
		Iprodione	0.51	U	ng/L	P441914	
		Loratadine**	0.31	U	ng/L	P441914	
		Malathion	0.36	U	ng/L	P441914	
		Metalaxyl	0.51	U	ng/L	P441914	
		Metolachlor	0.77	U	ng/L	P441914	
		Metribuzin	0.41	U	ng/L	P441914	
		Mevinphos	1.0	U	ng/L	P441914	
		Molinate	0.26	U	ng/L	P441914	
		Myclobutanil	0.36	U	ng/L	P441914	
		Naled	2.6	U	ng/L	P441914	
		Napropamide	0.72	U	ng/L	P441914	
		Norflurazon	1.0	U	ng/L	P441914	
		Oxadiazon	0.36	U	ng/L	P441914	
		Oxyfluorfen	0.20	U	ng/L	P441914	
		Parathion Ethyl	0.15	UJ	ng/L	P441914	LCS
		Parathion Methyl	0.20	UJ	ng/L	P441914	MS
		Pendimethalin	1.7	U	ng/L	P441914	
		Phenytol**	5.4	U	ng/L	P441914	
		Phorate	0.26	U	ng/L	P441914	
		Prodiamine	0.20	U	ng/L	P441914	
		Prometon	3.1	U	ng/L	P441914	
		Prometryn	0.36	U	ng/L	P441914	
		Pronamide	0.10	U	ng/L	P441914	
		Propanil	0.10	U	ng/L	P441914	
		Propargite	0.82	U	ng/L	P441914	
		Propiconazole	0.61	U	ng/L	P441914	
		Pyraflufen Ethyl	0.31	U	ng/L	P441914	
		Pyridaben	1.4	U	ng/L	P441914	
		Pyriproxyfen	0.26	U	ng/L	P441914	
		Simazine	0.26	U	ng/L	P441914	
		Stirophos	0.41	U	ng/L	P441914	
		Sulfentrazone	1.4	UJ	ng/L	P441914	MS, RPD
		Tebuconazole	1.4	U	ng/L	P441914	
		Terbufos	0.20	UJ	ng/L	P441914	LCS
		Terbutylazine	0.20	U	ng/L	P441914	
		Thiobencarb	0.51	U	ng/L	P441914	
		Triadimefon	0.15	U	ng/L	P441914	

Ref. Method and Comment:
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
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: P441755

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441765

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441960

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: P441960

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: P442130

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: P442134

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441897

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441838

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441979

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441786

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P441748

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

Reference Method: EPA 8270E
Batch ID: P441914

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	140	I	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: P441914

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: P441914

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: P441664

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P441664

Component	Result	Code	Units
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P441729

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: SM 2320 B-2011
Batch ID: P442207

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

Reference Method: SM 2540 C-2015
Batch ID: P442271

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P442080

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P442485

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P441953

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: P441755

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.1		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441765

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441960

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	114		P	85 - 115
Iron	113		P	85 - 115
Magnesium	114		P	85 - 115
Potassium	103		P	85 - 115
Sodium	110		P	85 - 115
Strontium	102		P	85 - 115
Tin	99.4		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441960

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	102		P	85 - 115
Arsenic	101		P	85 - 115
Barium	102		P	85 - 115
Beryllium	98.0		P	85 - 115
Boron	106		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	102		P	85 - 115
Cobalt	99.6		P	85 - 115
Copper	98.9		P	85 - 115
Lead	96.2		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	98.8		P	85 - 115
Nickel	99.2		P	85 - 115
Selenium	102		P	85 - 115
Silver	101		P	85 - 115
Thallium	99.8		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442130

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442134

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441897

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441838

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441979

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441786

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P441748

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.1		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P441914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	54.4		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	70.1		P	37 - 154
Acetochlor	83.2		P	64 - 124
Alachlor	81.1		P	61 - 118
Ametryn	99.4		P	47 - 158
Atrazine	70.3		P	68 - 121
Atrazine Desethyl	91.3		P	30 - 119
Avobenzone	101		P	48 - 193
Azinphos Methyl	103		P	30 - 194
Azoxystrobin	92.8		P	58 - 154
Bromacil	104		P	47 - 126
Butylate	41.8		P	31 - 83.0
Caffeine	68.6		P	10 - 180
Carbophenothion	81.5		P	59 - 133
Carfentrazone Ethyl	86.7		P	59 - 147
Chlorfenapyr	80.5		P	52 - 118

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	79.4		P	59 - 119
Chlorpyrifos Methyl	76.2		P	65 - 123
Coumaphos	80.3		P	11 - 223
Cyanazine	183		P	63 - 250
Cyprodinil	73.7		P	52 - 143
Dechlorane 602	55.7		P	23 - 142
Dechlorane 603	70.4		P	51 - 171
Dechlorane Plus	70.3		P	46 - 161
Demeton	54.4		P	42 - 119
Diazinon	95.3		P	67 - 132
Difenoconazole	99.9		P	12 - 204
Dimethenamid	61.9		P	53 - 113
Dimethomorph	119		P	13 - 238
Disulfoton	91.1		P	56 - 126
Dithiopyr	93.5		P	58 - 127
EPTC	33.5		P	31 - 78.0
Ethion	56.9		P	24 - 127
Ethoprop	65.5		P	60 - 118
Etridiazole	55.1		P	32 - 91.0
Fenamiphos	67.4		P	54 - 129
Fenbuconazole	87.1		P	31 - 162
Fipronil	85.0		P	56 - 131
Fipronil Desulfinyl	97.8		P	58 - 132
Fipronil Sulfide	75.9		P	51 - 123
Fipronil Sulfone	69.5		P	50 - 125
Fluazifop-P-butyl	106		P	52 - 132
Fludioxonil	65.6		P	52 - 129
Flumioxazin	97.6		P	34 - 250
Flutolanil	86.3		P	45 - 128
Fluxapyroxad	67.2		P	31 - 150
Fonofos	58.4		F	60 - 116
Hexabromobenzene	62.9		P	52 - 165
Hexazinone	70.2		P	59 - 120
Imazalil	87.6		P	39 - 134
Iprodione	89.0		P	39 - 243
Loratadine	117		P	10 - 240
Malathion	79.5		P	53 - 145
Metalaxyl	79.8		P	59 - 120
Metolachlor	69.2		P	64 - 122
Metribuzin	84.7		P	33 - 128
Mevinphos	65.9		P	48 - 119
Molinate	42.2		P	42 - 89.0
Myclobutanil	86.3		P	54 - 129
Naled	59.1		P	10 - 138
Napropamide	69.8		P	40 - 122
Norflurazon	94.6		P	49 - 132
Octinoxate	63.4		P	29 - 176
Oxadiazon	61.8		P	50 - 115
Oxybenzone	62.0		P	45 - 145
Oxyfluorfen	97.6		P	62 - 149
Parathion Ethyl	62.5		F	68 - 119
Parathion Methyl	70.0		P	68 - 147

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P441914

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBB-153	71.6		P	42 - 179
PBDE-47	65.4		P	44 - 141
PBDE-99	71.7		P	36 - 141
Pendimethalin	86.3		P	59 - 158
Pentabromotoluene	56.3		F	58 - 148
Phenytoin	30.2		P	10 - 151
Phorate	67.6		P	44 - 124
Prodiamine	66.6		P	10 - 136
Prometon	76.6		P	45 - 131
Prometryn	88.8		P	52 - 140
Pronamide	87.8		P	70 - 129
Propanil	82.8		P	54 - 144
Propargite	49.1		P	10 - 191
Propiconazole	59.6		P	49 - 128
Pyraflufen Ethyl	73.6		P	46 - 141
Pyridaben	106		P	29 - 198
Pyriproxyfen	65.0		P	33 - 221
Simazine	68.5		P	62 - 119
Stiropfos	67.7		P	13 - 144
Sulfentrazone	69.3		P	12 - 152
Tebuconazole	47.6		P	10 - 135
Terbufos	62.3		F	67 - 136
Terbuthylazine	70.0		P	66 - 113
Tetradecachloro-m-terphenyl	62.0		P	30 - 235
Thiobencarb	101		P	51 - 125
Tri-o-cresyl Phosphate	77.2		P	50 - 150
Triadimefon	75.1		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	64.2		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	74.6		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	72.3		P	59 - 166

Reference Method: EPA 8321B
Batch ID: P441664

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	111		P	40 - 150
2,4,5-T	98.6		P	40 - 150
Acetaminophen	81.5		P	30 - 150
Acetamiprid	73.9		P	40 - 150
Afidopyropen	58.5		P	30 - 150
Bentazon	103		P	30 - 150
Benzovindiflupyr	82.2		P	40 - 150
Carbamazepine	84.4		P	40 - 150
Clothianidin	88.0		P	40 - 150
Dinotefuran	97.3		P	40 - 150
Diuron	88.5		P	40 - 150
Fenuron	91.1		P	40 - 150
Fluridone	92.9		P	40 - 150
Hydrocodone	88.2		P	40 - 150
Ibuprofen	63.5		P	40 - 150
Imazapyr	101		P	40 - 150
Imidacloprid	87.7		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P441664

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Linuron	84.9		P	40 - 150
Mandestrobin	75.9		P	40 - 150
MCPP	90.2		P	40 - 150
Naproxen	101		P	40 - 150
Primidone	82.9		P	40 - 150
Pyraclostrobin	82.4		P	40 - 150
Silvex	100		P	40 - 150
Thiamethoxam	86.7		P	40 - 150
Tolfenpyrad	51.2		P	30 - 150
Triclopyr	103		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441729

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	96.5		P	40 - 160
AMPA	106		P	40 - 160
Endothall	93.6		P	40 - 160
Glufosinate	90.6		P	40 - 160
Glyphosate	102		P	40 - 160
Sucralose	99.2		P	40 - 160

Reference Method: SM 2320 B-2011
Batch ID: P442207

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.1		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P442271

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	93.2		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P442080

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	104		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P442485

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	105		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P441953

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441960

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470557	Calcium	112	113	P/P	80 - 120
2470557	Iron	112	112	P/P	80 - 120
2470557	Magnesium	112	113	P/P	80 - 120
2470557	Potassium	105	106	P/P	80 - 120
2470557	Sodium	104	105	P/P	80 - 120
2470557	Strontium	101	101	P/P	80 - 120
2470557	Tin	96.7	97.4	P/P	80 - 120
2470557	Titanium	95.6	98.2	P/P	80 - 120
2470557	Vanadium	100	101	P/P	80 - 120
2470557	Zinc	101	101	P/P	80 - 120
2470912	Calcium	112		P	80 - 120
2470912	Iron	112		P	80 - 120
2470912	Magnesium	112		P	80 - 120
2470912	Potassium	101		P	80 - 120
2470912	Sodium	105		P	80 - 120
2470912	Strontium	102		P	80 - 120
2470912	Tin	98.6		P	80 - 120
2470912	Titanium	101		P	80 - 120
2470912	Vanadium	101		P	80 - 120
2470912	Zinc	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441960

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470557	Aluminum	101	104	P/P	80 - 120
2470557	Antimony	100	102	P/P	80 - 120
2470557	Arsenic	101	102	P/P	80 - 120
2470557	Barium	101	103	P/P	80 - 120
2470557	Beryllium	96.1	96.0	P/P	80 - 120
2470557	Boron	109	109	P/P	80 - 120
2470557	Cadmium	100	101	P/P	80 - 120
2470557	Chromium	100	102	P/P	80 - 120
2470557	Cobalt	98.1	99.5	P/P	80 - 120
2470557	Copper	99.6	101	P/P	80 - 120
2470557	Lead	95.7	97.3	P/P	80 - 120
2470557	Molybdenum	98.5	102	P/P	80 - 120
2470557	Nickel	98.4	99.9	P/P	80 - 120
2470557	Selenium	100	102	P/P	80 - 120
2470557	Silver	99.6	100	P/P	80 - 120
2470557	Thallium	101	103	P/P	80 - 120
2470912	Aluminum	101		P	80 - 120
2470912	Antimony	104		P	80 - 120
2470912	Arsenic	102		P	80 - 120
2470912	Barium	104		P	80 - 120
2470912	Beryllium	103		P	80 - 120
2470912	Boron	109		P	80 - 120
2470912	Cadmium	103		P	80 - 120
2470912	Chromium	105		P	80 - 120
2470912	Cobalt	100		P	80 - 120
2470912	Copper	100		P	80 - 120
2470912	Lead	99.1		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441960

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470912	Manganese	103		P	80 - 120
2470912	Molybdenum	102		P	80 - 120
2470912	Nickel	99.6		P	80 - 120
2470912	Selenium	100		P	80 - 120
2470912	Silver	102		P	80 - 120
2470912	Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442130

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470376	Chloride	105		P	90 - 110
2470549	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442134

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470376	Sulfate	103		P	90 - 110
2470549	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441897

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470371	Ammonia-N	96.8	97.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441838

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470572	Kjeldahl Nitrogen	97.1	96.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470402	NO2NO3-N	94.0	93.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441786

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470382	Total-P	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P441748

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470566	O-Phosphate-P	98.9	99.4	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P441914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470412	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	63.7	54.6	P/P	50 - 150
2470412	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	60.7	67.2	P/P	29 - 155
2470412	Acetochlor	78.5	84.7	P/P	60 - 124
2470412	Alachlor	74.5	76.1	P/P	54 - 122
2470412	Ametryn	88.8	97.1	P/P	51 - 208
2470412	Atrazine	74.7	75.9	P/P	57 - 131
2470412	Atrazine Desethyl	112	97.4	P/P	13 - 124
2470412	Avobenzone	93.8	77.4	P/P	35 - 187
2470412	Azinphos Methyl	87.7	112	P/P	43 - 276
2470412	Azoxystrobin	95.0	90.8	P/P	52 - 300
2470412	Bromacil	89.9	97.4	P/P	44 - 134
2470412	Butylate	54.0	41.2	P/P	23 - 82.0
2470412	Caffeine	101	93.7	P/P	10 - 277
2470412	Carbophenothion	74.7	100	P/P	47 - 135
2470412	Carfentrazone Ethyl	81.0	108	P/P	46 - 147
2470412	Chlorfenapyr	80.9	85.8	P/P	43 - 114
2470412	Chlorpyrifos Ethyl	73.7	75.8	P/P	47 - 124
2470412	Chlorpyrifos Methyl	74.4	78.5	P/P	60 - 135
2470412	Coumaphos	71.4	67.7	P/P	10 - 222
2470412	Cyanazine	199	181	P/P	10 - 257
2470412	Cyprodinil	75.1	69.1	P/P	42 - 148
2470412	Dechlorane 602	61.4	57.9	P/P	14 - 133
2470412	Dechlorane 603	77.5	64.0	P/P	18 - 191
2470412	Dechlorane Plus	65.0	62.5	P/P	23 - 154
2470412	Demeton	61.2	56.3	P/P	41 - 137
2470412	Diazinon	87.9	91.2	P/P	64 - 139
2470412	Difenoconazole	79.3	114	P/P	46 - 254
2470412	Dimethenamid	66.9	68.3	P/P	47 - 117
2470412	Dimethomorph	120	141	P/P	14 - 255
2470412	Disulfoton	89.0	91.4	P/P	52 - 130
2470412	Dithiopyr	98.5	82.9	P/P	40 - 121
2470412	EPTC	44.8	30.1	P/P	19 - 78.0
2470412	Ethion	58.5	71.5	P/P	12 - 124
2470412	Ethoprop	77.7	74.6	P/P	68 - 144
2470412	Etridiazole	56.7	49.8	P/P	26 - 96.0
2470412	Fenamiphos	98.3	101	P/P	41 - 129
2470412	Fenbuconazole	65.6	84.6	P/P	26 - 169
2470412	Fipronil	82.6	83.7	P/P	46 - 145
2470412	Fipronil Desulfinyl	82.8	95.3	P/P	47 - 136
2470412	Fipronil Sulfide	77.0	71.3	P/P	41 - 127
2470412	Fipronil Sulfone	66.6	61.2	P/P	35 - 133
2470412	Fluazifop-P-butyl	85.9	60.9	P/P	46 - 131
2470412	Fludioxonil	70.8	70.8	P/P	51 - 124
2470412	Flumioxazin	76.8	88.1	P/P	10 - 289
2470412	Flutolanil	103	93.8	P/P	34 - 130
2470412	Fluxapyroxad	55.4	63.9	P/P	10 - 197
2470412	Fonofos	70.7	67.6	P/P	42 - 131
2470412	Hexabromobenzene	66.2	64.9	P/P	47 - 178
2470412	Hexazinone	77.2	75.9	P/P	64 - 125
2470412	Imazalil	97.1	92.3	P/P	37 - 252
2470412	Iprodione	62.4	77.0	P/P	34 - 265
2470412	Loratadine	88.0	123	P/P	20 - 231

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P441914

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470412	Malathion	74.2	79.0	P/P	34 - 164
2470412	Metalaxyl	71.2	77.7	P/P	49 - 125
2470412	Metolachlor	81.5	70.7	P/P	54 - 125
2470412	Metribuzin	86.2	80.9	P/P	51 - 139
2470412	Mevinphos	75.0	71.3	P/P	46 - 130
2470412	Molinate	52.5	42.0	P/P	39 - 93.0
2470412	Myclobutanil	75.7	81.9	P/P	50 - 130
2470412	Naled	43.6	51.3	P/P	10 - 150
2470412	Napropamide	67.9	84.1	P/P	10 - 109
2470412	Norflurazon	71.4	95.9	P/P	36 - 134
2470412	Octinoxate	73.2	62.8	P/P	18 - 170
2470412	Oxadiazon	60.6	61.7	P/P	43 - 112
2470412	Oxybenzone	80.1	66.1	P/P	33 - 154
2470412	Oxyfluorfen	109	113	P/P	62 - 154
2470412	Parathion Ethyl	71.4	73.7	P/P	65 - 120
2470412	Parathion Methyl	65.5	77.8	F/P	77 - 185
2470412	PBB-153	62.0	67.6	P/P	23 - 193
2470412	PBDE-47	75.5	67.6	P/P	31 - 139
2470412	PBDE-99	73.3	68.3	P/P	24 - 138
2470412	Pendimethalin	101	95.2	P/P	50 - 146
2470412	Pentabromotoluene	62.0	58.1	P/P	54 - 152
2470412	Phenytoin	29.7	43.8	P/P	10 - 157
2470412	Phorate	115	112	P/P	54 - 161
2470412	Prodiamine	68.3	64.9	P/P	29 - 160
2470412	Prometon	84.6	85.6	P/P	38 - 145
2470412	Prometryn	111	96.6	P/P	32 - 151
2470412	Pronamide	87.5	94.1	P/P	61 - 140
2470412	Propanil	133	142	P/P	50 - 147
2470412	Propargite	39.5	50.8	P/P	10 - 190
2470412	Propiconazole	56.0	56.8	P/P	30 - 146
2470412	Pyraflufen Ethyl	51.5	66.2	P/P	30 - 147
2470412	Pyridaben	92.1	95.5	P/P	15 - 195
2470412	Pyriproxyfen	58.5	73.9	P/P	31 - 218
2470412	Simazine	76.6	72.0	P/P	45 - 139
2470412	Stirophos	66.8	61.1	P/P	10 - 134
2470412	Sulfentrazone	29.7	72.7	F/P	53 - 186
2470412	Tebuconazole	44.1	46.8	P/P	10 - 133
2470412	Terbufos	75.6	66.3	P/P	65 - 151
2470412	Terbutylazine	71.6	73.0	P/P	62 - 117
2470412	Tetradecachloro-m-terphenyl	73.6	63.8	P/P	10 - 260
2470412	Thiobencarb	86.5	89.3	P/P	48 - 122
2470412	Tri-o-cresyl Phosphate	91.3	75.2	P/P	32 - 151
2470412	Triadimefon	75.6	87.6	P/P	46 - 124
2470412	Tris(1-chloro-2-propyl) phosphate (TCPP)	73.6	64.3	P/P	51 - 154
2470412	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	85.7	75.3	P/P	59 - 147
2470412	Tris(2-chloroethyl) phosphate (TCEP)	79.2	76.8	P/P	65 - 156

Reference Method: EPA 8321B
Batch ID: P441664

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469574	2,4-D	71.9	73.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P441664

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469574	2,4,5-T	75.2	74.6	P/P	40 - 150
2469574	Acetaminophen	62.4	73.0	P/P	30 - 150
2469574	Acetamiprid	43.8	50.3	P/P	40 - 150
2469574	Afidopyropen	56.1	57.8	P/P	30 - 150
2469574	Bentazon	51.7	51.6	P/P	30 - 150
2469574	Benzovindiflupyr	85.4	79.7	P/P	40 - 150
2469574	Carbamazepine	67.9	64.4	P/P	40 - 150
2469574	Clothianidin	61.2	61.3	P/P	40 - 150
2469574	Dinotefuran	53.4	61.5	P/P	40 - 150
2469574	Diuron	65.2	65.5	P/P	40 - 150
2469574	Fenuron	53.4	54.4	P/P	40 - 150
2469574	Fluridone	76.4	71.1	P/P	40 - 150
2469574	Hydrocodone	52.1	54.8	P/P	40 - 150
2469574	Ibuprofen	65.8	59.0	P/P	40 - 150
2469574	Imazapyr	95.5	87.2	P/P	40 - 150
2469574	Imidacloprid	67.1	68.1	P/P	40 - 150
2469574	Linuron	71.2	67.3	P/P	40 - 150
2469574	Mandestrobin	78.8	75.0	P/P	40 - 150
2469574	MCCP	75.0	70.0	P/P	40 - 150
2469574	Naproxen	89.5	76.3	P/P	40 - 150
2469574	Primidone	72.5	75.2	P/P	40 - 150
2469574	Pyraclostrobin	82.5	78.4	P/P	40 - 150
2469574	Silvex	79.0	77.2	P/P	40 - 150
2469574	Thiamethoxam	53.3	55.4	P/P	40 - 150
2469574	Tolfenpyrad	46.4	51.1	P/P	30 - 150
2469574	Triclopyr	75.0	74.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P441729

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470408	Acesulfame K	97.3	99.1	P/P	40 - 160
2470408	AMPA	101	102	P/P	40 - 160
2470408	Endothall	117	117	P/P	40 - 160
2470408	Glufosinate	97.3	97.1	P/P	40 - 160
2470408	Glyphosate	104	103	P/P	40 - 160
2470408	Sucralose	99.0	97.4	P/P	40 - 160

Reference Method: SM 4500-F- C-2011
Batch ID: P442485

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470419	Fluoride	105	107	P/F	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P441953

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2470054	Organic Carbon	97.1	95.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P441755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470376	Color (true)	4.82	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441765

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470379	Turbidity	3.69	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P441960

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470557	Calcium	0.599	Spike	P	0 - 20
2470557	Iron	0.300	Spike	P	0 - 20
2470557	Magnesium	0.917	Spike	P	0 - 20
2470557	Potassium	0.818	Spike	P	0 - 20
2470557	Sodium	0.460	Spike	P	0 - 20
2470557	Strontium	0.139	Spike	P	0 - 20
2470557	Tin	0.787	Spike	P	0 - 20
2470557	Titanium	2.44	Spike	P	0 - 20
2470557	Vanadium	0.364	Spike	P	0 - 20
2470557	Zinc	0.248	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P441960

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470557	Aluminum	1.75	Spike	P	0 - 20
2470557	Antimony	1.32	Spike	P	0 - 20
2470557	Arsenic	1.74	Spike	P	0 - 20
2470557	Barium	1.25	Spike	P	0 - 20
2470557	Beryllium	0.102	Spike	P	0 - 20
2470557	Boron	0.113	Spike	P	0 - 20
2470557	Cadmium	1.05	Spike	P	0 - 20
2470557	Chromium	1.33	Spike	P	0 - 20
2470557	Cobalt	1.43	Spike	P	0 - 20
2470557	Copper	1.25	Spike	P	0 - 20
2470557	Lead	1.62	Spike	P	0 - 20
2470557	Manganese	0.132	Spike	P	0 - 20
2470557	Molybdenum	3.11	Spike	P	0 - 20
2470557	Nickel	1.54	Spike	P	0 - 20
2470557	Selenium	1.43	Spike	P	0 - 20
2470557	Silver	0.855	Spike	P	0 - 20
2470557	Thallium	2.33	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442130

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470376	Chloride	0.929	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442134

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470376	Sulfate	0.684	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470371	Ammonia-N	0.206	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441838

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470572	Kjeldahl Nitrogen	0.302	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470402	NO2NO3-N	0.533	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441786

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470382	Total-P	0.348	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P441748

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470566	O-Phosphate-P	0.484	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P441914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470412	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	15.3	Spike	P	0 - 30
2470412	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	10.1	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P441914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470412	Acetochlor	7.66	Spike	P	0 - 28
2470412	Alachlor	2.12	Spike	P	0 - 30
2470412	Ametryn	8.97	Spike	P	0 - 32
2470412	Atrazine	1.50	Spike	P	0 - 33
2470412	Atrazine Desethyl	13.7	Spike	P	0 - 36
2470412	Avobenzene	19.1	Spike	P	0 - 35
2470412	Azinphos Methyl	24.6	Spike	P	0 - 62
2470412	Azoxystrobin	4.48	Spike	P	0 - 39
2470412	Bromacil	7.98	Spike	P	0 - 33
2470412	Butylate	26.8	Spike	P	0 - 51
2470412	Caffeine	7.33	Spike	P	0 - 100
2470412	Carbophenothion	29.4	Spike	P	0 - 34
2470412	Carfentrazone Ethyl	28.9	Spike	P	0 - 33
2470412	Chlorfenapyr	5.86	Spike	P	0 - 28
2470412	Chlorpyrifos Ethyl	2.82	Spike	P	0 - 31
2470412	Chlorpyrifos Methyl	5.38	Spike	P	0 - 27
2470412	Coumaphos	5.25	Spike	P	0 - 62
2470412	Cyanazine	9.73	Spike	P	0 - 48
2470412	Cyprodinil	8.28	Spike	P	0 - 29
2470412	Dechlorane 602	5.96	Spike	P	0 - 60
2470412	Dechlorane 603	19.2	Spike	P	0 - 40
2470412	Dechlorane Plus	3.82	Spike	P	0 - 38
2470412	Demeton	8.26	Spike	P	0 - 33
2470412	Diazinon	3.73	Spike	P	0 - 32
2470412	Difenoconazole	35.8	Spike	P	0 - 71
2470412	Dimethenamid	2.09	Spike	P	0 - 60
2470412	Dimethomorph	16.2	Spike	P	0 - 61
2470412	Disulfoton	2.63	Spike	P	0 - 30
2470412	Dithiopyr	17.2	Spike	P	0 - 28
2470412	EPTC	39.2	Spike	P	0 - 56
2470412	Ethion	20.1	Spike	P	0 - 79
2470412	Ethoprop	4.06	Spike	P	0 - 31
2470412	Etridiazole	13.0	Spike	P	0 - 43
2470412	Fenamiphos	2.35	Spike	P	0 - 43
2470412	Fenbuconazole	25.4	Spike	P	0 - 79
2470412	Fipronil	1.22	Spike	P	0 - 46
2470412	Fipronil Desulfinyl	14.0	Spike	P	0 - 36
2470412	Fipronil Sulfide	7.60	Spike	P	0 - 34
2470412	Fipronil Sulfone	8.43	Spike	P	0 - 47
2470412	Fluazifop-P-butyl	34.0	Spike	P	0 - 38
2470412	Fludioxonil	0.0353	Spike	P	0 - 29
2470412	Flumioxazin	13.7	Spike	P	0 - 63
2470412	Flutolanil	8.97	Spike	P	0 - 36
2470412	Fluxapyroxad	14.3	Spike	P	0 - 65
2470412	Fonofos	4.52	Spike	P	0 - 35
2470412	Hexabromobenzene	2.09	Spike	P	0 - 41
2470412	Hexazinone	1.59	Spike	P	0 - 31
2470412	Imazalil	4.99	Spike	P	0 - 52
2470412	Iprodione	20.8	Spike	P	0 - 49
2470412	Loratadine	33.4	Spike	P	0 - 59
2470412	Malathion	6.34	Spike	P	0 - 77

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P441914

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470412	Metalaxyl	8.77	Spike	P	0 - 76
2470412	Metolachlor	14.1	Spike	P	0 - 29
2470412	Metribuzin	6.38	Spike	P	0 - 51
2470412	Mevinphos	5.06	Spike	P	0 - 31
2470412	Molinate	22.2	Spike	P	0 - 39
2470412	Myclobutanil	7.88	Spike	P	0 - 34
2470412	Naled	16.4	Spike	P	0 - 37
2470412	Napropamide	21.3	Spike	P	0 - 100
2470412	Norflurazon	29.4	Spike	P	0 - 54
2470412	Octinoxate	15.3	Spike	P	0 - 35
2470412	Oxadiazon	1.81	Spike	P	0 - 34
2470412	Oxybenzone	19.2	Spike	P	0 - 35
2470412	Oxyfluorfen	3.49	Spike	P	0 - 28
2470412	Parathion Ethyl	3.18	Spike	P	0 - 31
2470412	Parathion Methyl	17.2	Spike	P	0 - 29
2470412	PBB-153	8.75	Spike	P	0 - 49
2470412	PBDE-47	11.1	Spike	P	0 - 36
2470412	PBDE-99	7.10	Spike	P	0 - 46
2470412	Pendimethalin	5.86	Spike	P	0 - 31
2470412	Pentabromotoluene	6.55	Spike	P	0 - 16
2470412	Phenytoin	38.4	Spike	P	0 - 100
2470412	Phorate	2.45	Spike	P	0 - 36
2470412	Prodiamine	5.05	Spike	P	0 - 68
2470412	Prometon	1.19	Spike	P	0 - 35
2470412	Prometryn	13.7	Spike	P	0 - 33
2470412	Pronamide	7.25	Spike	P	0 - 24
2470412	Propanil	6.62	Spike	P	0 - 28
2470412	Propargite	24.8	Spike	P	0 - 53
2470412	Propiconazole	1.47	Spike	P	0 - 44
2470412	Pyraflufen Ethyl	24.9	Spike	P	0 - 61
2470412	Pyridaben	3.62	Spike	P	0 - 43
2470412	Pyriproxyfen	23.2	Spike	P	0 - 82
2470412	Simazine	6.23	Spike	P	0 - 29
2470412	Stirophos	8.95	Spike	P	0 - 100
2470412	Sulfentrazone	84.0	Spike	F	0 - 64
2470412	Tebuconazole	5.92	Spike	P	0 - 76
2470412	Terbufos	13.1	Spike	P	0 - 29
2470412	Terbuthylazine	2.02	Spike	P	0 - 28
2470412	Tetradecachloro-m-terphenyl	14.3	Spike	P	0 - 42
2470412	Thiobencarb	3.18	Spike	P	0 - 26
2470412	Tri-o-cresyl Phosphate	19.3	Spike	P	0 - 24
2470412	Triadimefon	14.7	Spike	P	0 - 40
2470412	Tris(1-chloro-2-propyl) phosphate (TCPP)	13.4	Spike	P	0 - 30
2470412	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13.0	Spike	P	0 - 22
2470412	Tris(2-chloroethyl) phosphate (TCEP)	3.10	Spike	P	0 - 15

Reference Method: EPA 8321B
Batch ID: P441664

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: P441664

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469574	2,4-D	2.74	Spike	P	0 - 30
2469574	2,4,5-T	0.775	Spike	P	0 - 30
2469574	Acetaminophen	15.7	Spike	P	0 - 30
2469574	Acetamiprid	13.9	Spike	P	0 - 30
2469574	Afidopyropen	3.01	Spike	P	0 - 30
2469574	Bentazon	0.184	Spike	P	0 - 30
2469574	Benzovindiflupyr	6.87	Spike	P	0 - 30
2469574	Carbamazepine	5.28	Spike	P	0 - 30
2469574	Clothianidin	0.270	Spike	P	0 - 30
2469574	Dinotefuran	14.2	Spike	P	0 - 30
2469574	Diuron	0.519	Spike	P	0 - 30
2469574	Fenuron	1.83	Spike	P	0 - 30
2469574	Fluridone	7.22	Spike	P	0 - 30
2469574	Hydrocodone	4.96	Spike	P	0 - 30
2469574	Ibuprofen	11.0	Spike	P	0 - 30
2469574	Imazapyr	7.22	Spike	P	0 - 30
2469574	Imidacloprid	1.49	Spike	P	0 - 30
2469574	Linuron	5.58	Spike	P	0 - 30
2469574	Mandestrobin	4.87	Spike	P	0 - 30
2469574	MCP	6.92	Spike	P	0 - 30
2469574	Naproxen	16.0	Spike	P	0 - 30
2469574	Primidone	3.64	Spike	P	0 - 30
2469574	Pyraclostrobin	5.06	Spike	P	0 - 30
2469574	Silvex	2.39	Spike	P	0 - 30
2469574	Thiamethoxam	3.72	Spike	P	0 - 30
2469574	Tolfenpyrad	9.71	Spike	P	0 - 30
2469574	Triclopyr	1.11	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P441729

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470408	Acesulfame K	1.79	Spike	P	0 - 30
2470408	AMPA	1.29	Spike	P	0 - 30
2470408	Endothall	0.160	Spike	P	0 - 30
2470408	Glufosinate	0.259	Spike	P	0 - 30
2470408	Glyphosate	0.491	Spike	P	0 - 30
2470408	Sucralose	1.64	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P442207

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469965	Total Alkalinity	1.91	Sample	P	0 - 3.9

Quality Assurance Report
Precision

Reference Method: SM 2540 C-2015
Batch ID: P442271

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469849	TDS	4.89	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P442080

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469849	TSS	3.77	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P442485

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470419	Fluoride	1.46	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P441953

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2470054	Organic Carbon	1.19	Spike	P	0 - 15

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

Quality Assurance Report Surrogates

Lab Sample ID: 2470408
Field Sample ID: G1NE0958

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	71.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	67.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.3	P	30 - 160
EPA 8321B	Diuron-d6	60.3	P	30 - 160
EPA 8321B	Endothall-d6	117	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	105	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.0	P	30 - 160
EPA 8321B	Primidone-d5	76.6	P	30 - 160
EPA 8321B	Sucralose-d6	95.0	P	30 - 160

Lab Sample ID: 2470412
Field Sample ID: G1NE0958

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	81.0	P	20 - 200
EPA 8270E	Simazine-d10	95.4	P	58 - 137
EPA 8270E	Terbufos-d10	88.3	P	50 - 134
EPA 8270E	Terphenyl-d14	76.0	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A124279
Included Lab Sample IDs: 2470408

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	104	98.9	P/P	60 - 160
Endothall	93.8	83.7	P/P	60 - 160
Glufosinate	88.3	82.4	P/P	60 - 160
Glyphosate	103	94.0	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A124295
Included Lab Sample IDs: 2470403

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.3	99.6	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1
Run ID: A124306
Included Lab Sample IDs: 2470401

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A124328
Included Lab Sample IDs: 2470402

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.4	96.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A124364
Included Lab Sample IDs: 2470402

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.6	99.8	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A124374
Included Lab Sample IDs: 2470408

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	95.9	95.7	P/P	60 - 160
Sucralose	96.9	95.8	P/P	60 - 160

Reference Method: SM 5310 B-2014
Run ID: A124385
Included Lab Sample IDs: 2470402

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	116	97.4	P/P	70 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124391

Included Lab Sample IDs: 2470402

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.6	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A124399

Included Lab Sample IDs: 2470402

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A124428

Included Lab Sample IDs: 2470409

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	102	P/P	90 - 110
Antimony	98.8	98.7	P/P	90 - 110
Arsenic	99.7	99.1	P/P	90 - 110
Barium	99.8	98.8	P/P	90 - 110
Beryllium	98.6	96.3	P/P	90 - 110
Boron	101	104	P/P	90 - 110
Cadmium	99.3	99.5	P/P	90 - 110
Chromium	98.3	98.3	P/P	90 - 110
Cobalt	97.8	96.2	P/P	90 - 110
Copper	99.6	97.3	P/P	90 - 110
Lead	94.9	95.5	P/P	90 - 110
Manganese	98.6	98.1	P/P	90 - 110
Molybdenum	99.1	99.5	P/P	90 - 110
Nickel	98.5	97.0	P/P	90 - 110
Selenium	101	99.3	P/P	90 - 110
Silver	97.6	97.7	P/P	90 - 110
Thallium	102	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A124439

Included Lab Sample IDs: 2470401

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A124465

Included Lab Sample IDs: 2470401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.5	P/P	95 - 105

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124466
Included Lab Sample IDs: 2470412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	104		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.6		P	80 - 120
Avobenzone	92.9		P	80 - 120
Dechlorane 602	105		P	80 - 120
Dechlorane 603	95.8		P	80 - 120
Dechlorane Plus	94.2		P	80 - 120
Hexabromobenzene	99.5		P	80 - 120
Octinoxate	102		P	80 - 120
Oxybenzone	99.7		P	80 - 120
PBB-153	93.1		P	80 - 120
PBDE-47	96.6		P	80 - 120
PBDE-99	98.2		P	80 - 120
Pentabromotoluene	98.3		P	80 - 120
Tetradecachloro-m-terphenyl	90.3		P	80 - 120
Tri-o-cresyl Phosphate	107		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	103		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	107		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	99.6		P	80 - 120

Reference Method: EPA 8321B
Run ID: A124488
Included Lab Sample IDs: 2470408

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	110	110	P/P	50 - 150
2,4,5-T	114	104	P/P	50 - 150
Acetaminophen	106	103	P/P	60 - 160
Acetamiprid	113	115	P/P	50 - 150
Afidopyropen	106	95.1	P/P	50 - 150
Bentazon	112	104	P/P	50 - 160
Benzovindiflupyr	105	107	P/P	50 - 150
Carbamazepine	120	127	P/P	60 - 150
Clothianidin	104	106	P/P	60 - 150
Dinotefuran	110	108	P/P	50 - 150
Diuron	126	123	P/P	60 - 160
Fenuron	108	107	P/P	60 - 150
Fluridone	116	133	P/P	60 - 160
Hydrocodone	106	106	P/P	60 - 150
Ibuprofen	148	112	P/P	50 - 160
Imazapyr	99.3	89.3	P/P	50 - 150
Imidacloprid	105	107	P/P	60 - 150
Linuron	101	95.2	P/P	60 - 150
Mandestrobin	103	106	P/P	50 - 150
MCPP	90.8	90.4	P/P	50 - 150
Naproxen	91.3	86.9	P/P	50 - 160
Primidone	103	103	P/P	60 - 150
Pyraclostrobin	111	113	P/P	60 - 150
Silvex	105	101	P/P	50 - 150
Thiamethoxam	111	113	P/P	50 - 150
Tolfenpyrad	109	104	P/P	60 - 150
Triclopyr	90.9	97.2	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011
Run ID: A124499
Included Lab Sample IDs: 2470401

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	96.7	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A124583
Included Lab Sample IDs: 2470409

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	103	P/P	90 - 110
Iron	102	103	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Potassium	101	101	P/P	90 - 110
Sodium	101	102	P/P	90 - 110
Strontium	99.9	101	P/P	90 - 110
Tin	101	99.5	P/P	90 - 110
Titanium	100	99.1	P/P	90 - 110
Vanadium	101	100	P/P	90 - 110
Zinc	102	102	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A124624
Included Lab Sample IDs: 2470401

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

Reference Method: EPA 8270E
Run ID: A124708
Included Lab Sample IDs: 2470412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	93.5		P	80 - 120
Alachlor	85.6		P	80 - 120
Ametryn	110		P	80 - 120
Atrazine	92.9		P	80 - 120
Atrazine Desethyl	96.3		P	80 - 120
Azinphos Methyl	99.7		P	80 - 120
Azoxystrobin	100		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	103		P	80 - 120
Caffeine	102		P	80 - 120
Carbophenothion	110		P	80 - 120
Carfentrazone Ethyl	104		P	80 - 120
Chlorfenapyr	93.8		P	80 - 120
Chlorpyrifos Ethyl	91.4		P	80 - 120
Chlorpyrifos Methyl	96.4		P	80 - 120
Coumaphos	95.9		P	80 - 120
Cyanazine	85.5		P	80 - 120
Cyprodinil	93.7		P	80 - 120
Demeton	98.7		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124708
Included Lab Sample IDs: 2470412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dimethenamid	93.5		P	80 - 120
Dimethomorph	87.9		P	80 - 120
Disulfoton	104		P	80 - 120
Dithiopyr	118		P	80 - 120
EPTC	98.0		P	80 - 120
Ethion	93.7		P	80 - 120
Ethoprop	99.4		P	80 - 120
Etridiazole	95.8		P	80 - 120
Fenamiphos	90.6		P	80 - 120
Fenbuconazole	94.3		P	80 - 120
Fipronil	89.0		P	80 - 120
Fipronil Desulfinyl	105		P	80 - 120
Fipronil Sulfide	98.1		P	80 - 120
Fipronil Sulfone	87.4		P	80 - 120
Fluazifop-P-butyl	97.0		P	80 - 120
Fludioxonil	102		P	80 - 120
Flumioxazin	90.6		P	80 - 120
Flutolanil	89.1		P	80 - 120
Fluxapyroxad	94.9		P	80 - 120
Fonofos	90.9		P	80 - 120
Hexazinone	99.6		P	80 - 120
Imazalil	112		P	80 - 120
Iprodione	95.8		P	80 - 120
Loratadine	89.2		P	80 - 120
Malathion	90.5		P	80 - 120
Metalaxyl	84.9		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	102		P	80 - 120
Mevinphos	99.5		P	80 - 120
Molinate	86.5		P	80 - 120
Myclobutanil	84.7		P	80 - 120
Naled	111		P	80 - 120
Napropamide	103		P	80 - 120
Norflurazon	98.1		P	80 - 120
Oxadiazon	99.0		P	80 - 120
Oxyfluorfen	104		P	80 - 120
Parathion Ethyl	92.9		P	80 - 120
Parathion Methyl	84.5		P	80 - 120
Pendimethalin	99.6		P	80 - 120
Phenytol	98.6		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	109		P	80 - 120
Prometon	99.1		P	80 - 120
Prometryn	96.1		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	119		P	80 - 120
Propargite	105		P	80 - 120
Propiconazole	90.2		P	80 - 120
Pyraflufen Ethyl	91.5		P	80 - 120
Pyridaben	107		P	80 - 120
Pyriproxyfen	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A124708
Included Lab Sample IDs: 2470412

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Simazine	83.2		P	80 - 120
Stirophos	94.9		P	80 - 120
Sulfentrazone	96.5		P	80 - 120
Tebuconazole	99.2		P	80 - 120
Terbufos	96.9		P	80 - 120
Terbutylazine	93.9		P	80 - 120
Thiobencarb	110		P	80 - 120
Triadimefon	96.6		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	99.1				4.82	
EPA 180.1 Rev. 2.0	Turbidity	104				3.69	
EPA 200.7 Rev. 4.4	Calcium	114	112	113	112		0.599
	Iron	113	112	112	112		0.300
	Magnesium	114	112	113	112		0.917
	Potassium	103	105	106	101		0.818
	Sodium	110	104	105	105		0.460
	Strontium	102	101	101	102		0.139
	Tin	99.4	96.7	97.4	98.6		0.787
	Titanium	102	95.6	98.2	101		2.44
	Vanadium	101	100	101	101		0.364
	Zinc	101	101	101	101		0.248
EPA 200.8 Rev. 5.4	Aluminum	101	101	104	101		1.75
	Antimony	102	100	102	104		1.32
	Arsenic	101	101	102	102		1.74
	Barium	102	101	103	104		1.25
	Beryllium	98.0	96.1	96.0	103		0.102
	Boron	106	109	109	109		0.113
	Cadmium	102	100	101	103		1.05
	Chromium	102	100	102	105		1.33
	Cobalt	99.6	98.1	99.5	100		1.43
	Copper	98.9	99.6	101	100		1.25
	Lead	96.2	95.7	97.3	99.1		1.62
	Manganese	101	103				0.132
	Molybdenum	98.8	98.5	102	102		3.11
	Nickel	99.2	98.4	99.9	99.6		1.54
	Selenium	102	100	102	100		1.43
	Silver	101	99.6	100	102		0.855
	Thallium	99.8	101	103	104		2.33
EPA 300.0 Rev. 2.1	Chloride	106	105	104		0.929	
	Sulfate	105	103	104		0.684	
EPA 350.1 Rev. 2.0	Ammonia-N	99.0	96.8	97.0			0.206
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.8	97.1	96.6			0.302
EPA 353.2 Rev. 2.0	NO2NO3-N	100	94.0	93.5			0.533
EPA 365.1 Rev. 2.0	Total-P	97.9	102	102			0.348
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1	98.9	99.4			0.484
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	54.4	63.7	54.6			15.3
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	70.1	60.7	67.2			10.1
	Acetochlor	83.2	78.5	84.7			7.66
	Alachlor	81.1	74.5	76.1			2.12
	Ametryn	99.4	88.8	97.1			8.97
	Atrazine	70.3	74.7	75.9			1.50
	Atrazine Desethyl	91.3	112	97.4			13.7
	Avobenzone	101	93.8	77.4			19.1
	Azinphos Methyl	103	87.7	112			24.6
	Azoxystrobin	92.8	95.0	90.8			4.48
	Bromacil	104	89.9	97.4			7.98
	Butylate	41.8	54.0	41.2			26.8
	Caffeine	68.6	101	93.7			7.33
	Carbophenothion	81.5	74.7	100			29.4
	Carfentrazone Ethyl	86.7	81.0	108			28.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorfenapyr	80.5	80.9	85.8			5.86
	Chlorpyrifos Ethyl	79.4	73.7	75.8			2.82
	Chlorpyrifos Methyl	76.2	74.4	78.5			5.38
	Coumaphos	80.3	71.4	67.7			5.25
	Cyanazine	183	199	181			9.73
	Cyprodinil	73.7	75.1	69.1			8.28
	Dechlorane 602	55.7	61.4	57.9			5.96
	Dechlorane 603	70.4	77.5	64.0			19.2
	Dechlorane Plus	70.3	65.0	62.5			3.82
	Demeton	54.4	61.2	56.3			8.26
	Diazinon	95.3	87.9	91.2			3.73
	Difenoconazole	99.9	79.3	114			35.8
	Dimethenamid	61.9	66.9	68.3			2.09
	Dimethomorph	119	120	141			16.2
	Disulfoton	91.1	89.0	91.4			2.63
	Dithiopyr	93.5	98.5	82.9			17.2
	EPTC	33.5	44.8	30.1			39.2
	Ethion	56.9	58.5	71.5			20.1
	Ethoprop	65.5	77.7	74.6			4.06
	Etridiazole	55.1	56.7	49.8			13.0
	Fenamiphos	67.4	98.3	101			2.35
	Fenbuconazole	87.1	65.6	84.6			25.4
	Fipronil	85.0	82.6	83.7			1.22
	Fipronil Desulfinyl	97.8	82.8	95.3			14.0
	Fipronil Sulfide	75.9	77.0	71.3			7.60
	Fipronil Sulfone	69.5	66.6	61.2			8.43
	Fluazifop-P-butyl	106	85.9	60.9			34.0
	Fludioxonil	65.6	70.8	70.8			0.0353
	Flumioxazin	97.6	76.8	88.1			13.7
	Flutolanil	86.3	103	93.8			8.97
	Fluxapyroxad	67.2	55.4	63.9			14.3
	Fonofos	58.4	70.7	67.6			4.52
	Hexabromobenzene	62.9	66.2	64.9			2.09
	Hexazinone	70.2	77.2	75.9			1.59
	Imazalil	87.6	97.1	92.3			4.99
	Iprodione	89.0	62.4	77.0			20.8
	Loratadine	117	88.0	123			33.4
	Malathion	79.5	74.2	79.0			6.34
	Metalaxyl	79.8	71.2	77.7			8.77
	Metolachlor	69.2	81.5	70.7			14.1
	Metribuzin	84.7	86.2	80.9			6.38
	Mevinphos	65.9	75.0	71.3			5.06
	Molinate	42.2	52.5	42.0			22.2
	Myclobutanil	86.3	75.7	81.9			7.88
	Naled	59.1	43.6	51.3			16.4
	Napropamide	69.8	67.9	84.1			21.3
	Norflurazon	94.6	71.4	95.9			29.4
	Octinoxate	63.4	73.2	62.8			15.3
	Oxadiazon	61.8	60.6	61.7			1.81
	Oxybenzone	62.0	80.1	66.1			19.2
	Oxyfluorfen	97.6	109	113			3.49
	Parathion Ethyl	62.5	71.4	73.7			3.18
	Parathion Methyl	70.0	65.5	77.8			17.2
	PBB-153	71.6	62.0	67.6			8.75

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	PBDE-47	65.4	75.5	67.6			11.1
	PBDE-99	71.7	73.3	68.3			7.10
	Pendimethalin	86.3	101	95.2			5.86
	Pentabromotoluene	56.3	62.0	58.1			6.55
	Phenytoin	30.2	29.7	43.8			38.4
	Phorate	67.6	115	112			2.45
	Prodiamine	66.6	68.3	64.9			5.05
	Prometon	76.6	84.6	85.6			1.19
	Prometryn	88.8	111	96.6			13.7
	Pronamide	87.8	87.5	94.1			7.25
	Propanil	82.8	133	142			6.62
	Propargite	49.1	39.5	50.8			24.8
	Propiconazole	59.6	56.0	56.8			1.47
	Pyraflufen Ethyl	73.6	51.5	66.2			24.9
	Pyridaben	106	92.1	95.5			3.62
	Pyriproxyfen	65.0	58.5	73.9			23.2
	Simazine	68.5	76.6	72.0			6.23
	Stirophos	67.7	66.8	61.1			8.95
	Sulfentrazone	69.3	29.7	72.7			84.0
	Tebuconazole	47.6	44.1	46.8			5.92
	Terbufos	62.3	75.6	66.3			13.1
	Terbutylazine	70.0	71.6	73.0			2.02
	Tetradecachloro-m-terphenyl	62.0	73.6	63.8			14.3
	Thiobencarb	101	86.5	89.3			3.18
	Tri-o-cresyl Phosphate	77.2	91.3	75.2			19.3
	Triadimefon	75.1	75.6	87.6			14.7
	Tris(1-chloro-2-propyl) phosphate (TCPP)	64.2	73.6	64.3			13.4
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	74.6	85.7	75.3			13.0
	Tris(2-chloroethyl) phosphate (TCEP)	72.3	79.2	76.8			3.10
EPA 8321B	2,4-D	111	71.9	73.9			2.74
	2,4,5-T	98.6	75.2	74.6			0.775
	Acesulfame K	96.5	97.3	99.1			1.79
	Acetaminophen	81.5	62.4	73.0			15.7
	Acetamiprid	73.9	43.8	50.3			13.9
	Afidopyropen	58.5	56.1	57.8			3.01
	AMPA	106	101	102			1.29
	Bentazon	103	51.7	51.6			0.184
	Benzovindiflupyr	82.2	85.4	79.7			6.87
	Carbamazepine	84.4	67.9	64.4			5.28
	Clothianidin	88.0	61.2	61.3			0.270
	Dinotefuran	97.3	53.4	61.5			14.2
	Diuron	88.5	65.2	65.5			0.519
	Endothall	93.6	117	117			0.160
	Fenuron	91.1	53.4	54.4			1.83
	Fluridone	92.9	76.4	71.1			7.22
	Glufosinate	90.6	97.3	97.1			0.259
	Glyphosate	102	104	103			0.491
	Hydrocodone	88.2	52.1	54.8			4.96
	Ibuprofen	63.5	65.8	59.0			11.0
	Imazapyr	101	95.5	87.2			7.22
	Imidacloprid	87.7	67.1	68.1			1.49

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Linuron	84.9	71.2	67.3		5.58
	Mandestrobin	75.9	78.8	75.0		4.87
	MCCP	90.2	75.0	70.0		6.92
	Naproxen	101	89.5	76.3		16.0
	Primidone	82.9	72.5	75.2		3.64
	Pyraclostrobin	82.4	82.5	78.4		5.06
	Silvex	100	79.0	77.2		2.39
	Sucralose	99.2	99.0	97.4		1.64
	Thiamethoxam	86.7	53.3	55.4		3.72
	Tolfenpyrad	51.2	46.4	51.1		9.71
	Triclopyr	103	75.0	74.2		1.11
SM 2320 B-2011	Total Alkalinity	99.1			1.91	
SM 2540 C-2015	TDS	93.2			4.89	
SM 2540 D-2015	TSS	104			3.77	
SM 4500-F- C-2011	Fluoride	105	105	107		1.46
SM 5310 B-2014	Organic Carbon	95.8	97.1	95.8		1.19

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2470401
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2470401
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2470409
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2470409
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2470401
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2470401
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2470402
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2470402
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2470402
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2470402
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2470403
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2470412
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2470412
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2470408
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2470401
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2470409
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2470401
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2470401
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2470401
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2470402

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	02/21/2024			02/21/2024 15:18	Jessica K Wilks	2470401
EPA 180.1 Rev. 2.0	02/21/2024			02/21/2024 14:03	Dipa Joshi	2470401
EPA 200.7 Rev. 4.4	02/21/2024	02/26/2024 13:30	George D Taylor	03/06/2024 16:15	Conrad Hartmann	2470409
EPA 200.8 Rev. 5.4	02/21/2024	02/26/2024 13:30	George D Taylor	02/27/2024 15:48	Emily M Philpot	2470409
EPA 300.0 Rev. 2.1	02/21/2024			02/28/2024 21:41	James L Waggeberby	2470401
EPA 350.1 Rev. 2.0	02/21/2024			02/23/2024 12:54	Kenneth H Lee	2470402
EPA 351.2 Rev. 2.0	02/21/2024	02/23/2024 10:59	Samantha L Bates	02/26/2024 15:01	Samantha L Bates	2470402
EPA 353.2 Rev. 2.0	02/21/2024			02/23/2024 11:56	Fadila Guebre	2470402
EPA 365.1 Rev. 2.0	02/21/2024	02/22/2024 10:03	Adam P Silver	02/22/2024 15:37	Chandler E Cox	2470402
EPA 365.1 Rev. 2.0 dissolved	02/21/2024			02/21/2024 13:17	Victoria Ocasio-Reed	2470403
EPA 8270E	02/21/2024	02/26/2024 07:50	Rasheda Ghaffari	02/28/2024 17:55	Vandana T. Nagar	2470412
	02/21/2024	02/26/2024 07:50	Rasheda Ghaffari	02/28/2024 18:59	Arthur Maknenko	2470412
EPA 8321B	02/21/2024	02/22/2024 09:00	Hoor Shaik	02/29/2024 23:11	Juyoung Kim	2470408
	02/21/2024	02/22/2024 11:00	Hana Lee	02/22/2024 13:56	Hana Lee	2470408
	02/21/2024	02/22/2024 11:00	Hana Lee	02/23/2024 12:17	Hana Lee	2470408
SM 2320 B-2011	02/21/2024			02/29/2024 10:06	Adam P Silver	2470401
SM 2340 B-2011	02/21/2024			03/06/2024 16:15	Conrad Hartmann	2470409
SM 2540 C-2015	02/21/2024			02/22/2024 16:28	Yijie Li	2470401
SM 2540 D-2015	02/21/2024			02/22/2024 16:28	Yijie Li	2470401
SM 4500-F- C-2011	02/21/2024			03/07/2024 09:05	Dale L. Simmons	2470401
SM 5310 B-2014	02/21/2024			02/23/2024 10:54	Kenneth H Lee	2470402