Chemical Analysis Report

NE-DIST-2024-02-27-01

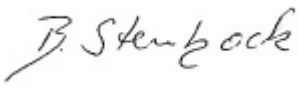
Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **SCI SMP**
Request ID: **RQ-2024-02-26-26**
Customer: **NE-DIST**
Project ID: **SMP**

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

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Marek Topolski, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 25-MAR-2024 11:47



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: West Br at Dunn Ave **Collection Date/Time: 02/26/2024 10:35**

Field ID: 20030747 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471858	DEP SOP: NU-094-1	Color (true)	180		PCU	P442013	
	EPA 180.1 Rev. 2.0	Turbidity	3.3		NTU	P442017	
	EPA 300.0 Rev. 2.1	Chloride	28	A	mg Cl/L	P442397	
		Sulfate	5.7	A	mg SO4/L	P442400	
	SM 2320 B-2011	Total Alkalinity	38		mg CaCO3/L	P442361	
	SM 2540 C-2015	TDS	170		mg/L	P442433	
	SM 2540 D-2015	TSS	3	I	mg/L	P442559	
	SM 4500-F- C-2011	Fluoride	0.090	I	mg F/L	P442364	
2471859	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P442076	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.89		mg N/L	P442063	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.032		mg N/L	P442234	
	EPA 365.1 Rev. 2.0	Total-P	0.042		mg P/L	P442358	
	SM 5310 B-2014	Organic Carbon	22		mg C/L	P442252	
2471860	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.017		mg P/L	P442005	
2471876	EPA 8321B	2,4-D	0.0065	I	ug/L	P442042	
		Acesulfame K	0.10	U	ug/L	P441916	
		2,4,5-T	0.0040	U	ug/L	P442042	
		AMPA	0.10	U	ug/L	P441916	
		Acetaminophen	0.0080	U	ug/L	P442042	
		Endothall	0.25	U	ug/L	P441916	
		Acetamiprid	0.0020	U	ug/L	P442042	MS
		Glufosinate	0.10	U	ug/L	P441916	
		Glyphosate	0.10	U	ug/L	P441916	
		Afidopyropen	0.0020	U	ug/L	P442042	
		Bentazon	0.035		ug/L	P442042	
		Sucralose	0.19		ug/L	P441916	
		Benzovindiflupyr	0.0020	U	ug/L	P442042	
		Carbamazepine	8.0E-04	U	ug/L	P442042	
		Clothianidin	0.0020	U	ug/L	P442042	
		Dinotefuran	0.0020	U	ug/L	P442042	
		Diuron	0.095		ug/L	P442042	
		Fenuron	0.032	U	ug/L	P442042	
		Fluridone	0.012		ug/L	P442042	
		Imazapyr	0.031		ug/L	P442042	
		Hydrocodone	0.0020	U	ug/L	P442042	
		Ibuprofen	0.080	U	ug/L	P442042	
		Imidacloprid	0.0020	U	ug/L	P442042	
		Linuron	0.0040	U	ug/L	P442042	
		Mandestrobin	0.0020	U	ug/L	P442042	
		MCPP	0.0020	U	ug/L	P442042	
		Naproxen	0.0080	U	ug/L	P442042	
		Primidone	0.0040	U	ug/L	P442042	
		Pyraclostrobin	0.0020	U	ug/L	P442042	

Field ID: 20030747 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471876	EPA 8321B	Silvex	0.0040	U	ug/L	P442042	
		Thiamethoxam	0.0020	U	ug/L	P442042	
		Tolfenpyrad	0.0020	U	ug/L	P442042	
		Triclopyr	0.0040	U	ug/L	P442042	
2471877	EPA 200.7 Rev. 4.4	Calcium	17.0		mg/L	P442079	
		Iron	1.27E+03		ug/L	P442079	
		Magnesium	3.56		mg/L	P442079	
		Potassium	1.7		mg/L	P442079	
		Sodium	16.4		mg/L	P442079	
		Strontium	75.0		ug/L	P442079	
		Tin	3.0	U	ug/L	P442079	
		Titanium	0.75	U	ug/L	P442079	
		Vanadium	2.0	U	ug/L	P442079	
		Zinc	11	I	ug/L	P442079	
	EPA 200.8 Rev. 5.4	Aluminum	189		ug/L	P442079	
		Antimony	0.068	I	ug/L	P442079	
		Arsenic	0.56		ug/L	P442079	
		Barium	29.3		ug/L	P442079	
		Beryllium	0.049		ug/L	P442079	
		Boron	22.5		ug/L	P442079	
		Cadmium	0.020	U	ug/L	P442079	
		Chromium	8.8		ug/L	P442079	
		Cobalt	0.209		ug/L	P442079	
		Copper	1.80		ug/L	P442079	
		Lead	0.33	I	ug/L	P442079	
		Manganese	11.8		ug/L	P442079	
		Molybdenum	0.18	I	ug/L	P442079	
		Nickel	0.88	I	ug/L	P442079	
		Selenium	0.20	U	ug/L	P442079	
		Silver	0.010	U	ug/L	P442079	
		Thallium	0.10	U	ug/L	P442079	
	SM 2340 B-2011	Hardness	57.1		mg/L	P442079	
2471878	EPA 8270E	Oxybenzone**	10	U	ng/L	P442327	
		Acetochlor	0.21	UJ	ng/L	P442327	LCS
		Octinoxate**	150	U	ng/L	P442327	
		Alachlor	0.41	U	ng/L	P442327	
		Avobenzone**	100	U	ng/L	P442327	
		Ametryn	1.1	U	ng/L	P442327	
		Atrazine	81		ng/L	P442327	
		PBDE-47**	4.0	U	ng/L	P442327	
		Atrazine Desethyl	7.2		ng/L	P442327	
		PBDE-99**	5.0	U	ng/L	P442327	
		Azinphos Methyl	3.1	U	ng/L	P442327	
		Tri-o-cresyl Phosphate**	6.0	U	ng/L	P442327	
		Azoxystrobin	1.5	I	ng/L	P442327	

Field ID: 20030747 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471878	EPA 8270E	Bromacil	0.62	U	ng/L	P442327	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P442327	
		Butylate	0.46	U	ng/L	P442327	
		Dechlorane Plus**	30	U	ng/L	P442327	
		Caffeine**	9.4	I	ng/L	P442327	
		Dechlorane 602**	5.0	U	ng/L	P442327	
		Carbophenothion	0.51	U	ng/L	P442327	
		Dechlorane 603**	4.0	U	ng/L	P442327	
		Carfentrazone Ethyl	0.15	U	ng/L	P442327	
		Hexabromobenzene**	6.0	U	ng/L	P442327	
		Chlorfenapyr	0.31	U	ng/L	P442327	
		PBB-153**	6.0	U	ng/L	P442327	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P442327	
		Pentabromotoluene**	3.0	U	ng/L	P442327	RPD
		Chlorpyrifos Methyl	0.10	U	ng/L	P442327	
		Tris(2-chloroethyl) phosphate (TCEP)**	55	U	ng/L	P442327	RPD
		Coumaphos	1.1	U	ng/L	P442327	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	25	U	ng/L	P442327	
		Cyanazine	5.1	U	ng/L	P442327	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	4.0	I	ng/L	P442327	RPD
		Cyprodinil	0.21	U	ng/L	P442327	
		Tetradecachloro-m-terphenyl**	7.5	U	ng/L	P442327	
		Demeton	3.6	U	ng/L	P442327	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	60	U	ng/L	P442327	
		Diazinon	0.13	U	ng/L	P442327	
		Difenoconazole	0.62	U	ng/L	P442327	
		Dimethenamid	0.10	U	ng/L	P442327	
		Dimethomorph	0.31	U	ng/L	P442327	
		Disulfoton	0.62	U	ng/L	P442327	
		Dithiopyr	1.0	U	ng/L	P442327	
		EPTC	0.51	U	ng/L	P442327	
		Ethion	0.31	U	ng/L	P442327	
		Ethoprop	0.13	U	ng/L	P442327	
		Etridiazole	0.10	U	ng/L	P442327	
		Fenamiphos	0.46	U	ng/L	P442327	
		Fenbuconazole	0.51	U	ng/L	P442327	
		Fipronil	0.23	I	ng/L	P442327	
		Fipronil Desulfinyl**	0.57		ng/L	P442327	
		Fipronil Sulfide	0.89		ng/L	P442327	
		Fipronil Sulfone	2.5		ng/L	P442327	
		Fluazifop-P-butyl	0.10	U	ng/L	P442327	
		Fludioxonil	0.10	U	ng/L	P442327	RPD
		Flumioxazin	100		ng/L	P442327	

Field ID: 20030747 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2471878	EPA 8270E	Flutolanil	0.10	U	ng/L	P442327	
		Fluxapyroxad	0.26	U	ng/L	P442327	
		Fonofos	0.15	U	ng/L	P442327	
		Hexazinone	0.51	U	ng/L	P442327	
		Imazalil	0.67	U	ng/L	P442327	
		Iprodione	0.51	U	ng/L	P442327	
		Loratadine**	0.31	U	ng/L	P442327	
		Malathion	0.36	U	ng/L	P442327	
		Metalaxyl	0.51	U	ng/L	P442327	
		Metolachlor	0.77	U	ng/L	P442327	
		Metribuzin	0.41	U	ng/L	P442327	
		Mevinphos	1.0	U	ng/L	P442327	
		Molinate	0.26	UJ	ng/L	P442327	LCS
		Myclobutanil	1.8		ng/L	P442327	
		Naled	2.6	U	ng/L	P442327	MS, RPD
		Napropamide	0.72	U	ng/L	P442327	
		Norflurazon	1.0	U	ng/L	P442327	
		Oxadiazon	0.36	U	ng/L	P442327	
		Oxyfluorfen	0.21	U	ng/L	P442327	
		Parathion Ethyl	0.15	UJ	ng/L	P442327	LCS
		Parathion Methyl	0.21	U	ng/L	P442327	
		Pendimethalin	1.7	U	ng/L	P442327	
		Phenytoin**	5.5	U	ng/L	P442327	
		Phorate	0.26	U	ng/L	P442327	
		Prodiamine	0.21	U	ng/L	P442327	RPD
		Prometon	3.1	U	ng/L	P442327	
		Prometryn	0.36	U	ng/L	P442327	
		Pronamide	0.10	U	ng/L	P442327	
		Propanil	0.10	U	ng/L	P442327	
		Propargite	0.82	U	ng/L	P442327	
		Propiconazole	3.5		ng/L	P442327	
		Pyraflufen Ethyl	0.31	U	ng/L	P442327	
		Pyridaben	1.4	U	ng/L	P442327	
		Pyriproxyfen	0.26	U	ng/L	P442327	
		Simazine	15		ng/L	P442327	
		Stirophos	0.41	U	ng/L	P442327	
		Sulfentrazone	7.6		ng/L	P442327	
		Tebuconazole	1.4	U	ng/L	P442327	
		Terbufos	0.21	U	ng/L	P442327	
		Terbuthylazine	0.21	U	ng/L	P442327	
		Thiobencarb	0.51	U	ng/L	P442327	
		Triadimefon	0.15	U	ng/L	P442327	

Field ID: 20030747 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes

Ref. Method and Comment:
DEP SOP: NU-094-1: Batch relative percent difference is unavailable because of analytical difficulties.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: MS accuracy for atrazine, ametryn, metolachor, norflurazon, oxadiazon, and azoxystrobin not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P442013

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P442017

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P442079

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: P442079

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: P442397

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: P442400

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442076

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442063

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442234

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442358

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442005

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

Reference Method: EPA 8270E
Batch ID: P442327

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: P442327

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: P442327

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
Terbuthylazine	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: P441916

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: P442042

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: P442042

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: P442361

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

Reference Method: SM 2540 C-2015
Batch ID: P442433

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P442559

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P442364

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P442252

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: P442013

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P442017

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P442079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	80 - 120
Iron	106		P	80 - 120
Magnesium	102		P	80 - 120
Potassium	102		P	80 - 120
Sodium	104		P	80 - 120
Strontium	95.9		P	80 - 120
Tin	97.8		P	80 - 120
Titanium	99.3		P	80 - 120
Vanadium	97.7		P	80 - 120
Zinc	97.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P442079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	99.4		P	85 - 115
Arsenic	101		P	85 - 115
Barium	101		P	85 - 115
Beryllium	101		P	85 - 115
Boron	106		P	85 - 115
Cadmium	98.7		P	85 - 115
Chromium	103		P	85 - 115
Cobalt	98.7		P	85 - 115
Copper	98.7		P	85 - 115
Lead	98.4		P	85 - 115
Manganese	99.3		P	85 - 115
Molybdenum	97.3		P	85 - 115
Nickel	101		P	85 - 115
Selenium	99.4		P	85 - 115
Silver	102		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442397

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.4		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442400

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442076

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442063

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442234

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442358

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442005

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

Reference Method: EPA 8270E
Batch ID: P442327

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	75.2		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	79.9		P	37 - 154
Acetochlor	62.1		F	64 - 124
Alachlor	69.4		P	61 - 118
Ametryn	73.5		P	47 - 158
Atrazine	76.2		P	68 - 121
Atrazine Desethyl	50.9		P	30 - 119
Avobenzone	91.9		P	48 - 193
Azinphos Methyl	90.9		P	30 - 194
Azoxystrobin	76.5		P	58 - 154
Bromacil	62.6		P	47 - 126
Butylate	33.5		P	31 - 83.0
Caffeine	61.7		P	10 - 180
Carbophenothion	103		P	59 - 133
Carfentrazone Ethyl	102		P	59 - 147
Chlorfenapyr	83.1		P	52 - 118

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P442327

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	66.5		P	59 - 119
Chlorpyrifos Methyl	73.3		P	65 - 123
Coumaphos	98.3		P	11 - 223
Cyanazine	85.6		P	63 - 250
Cyprodinil	76.4		P	52 - 143
Dechlorane 602	72.2		P	23 - 142
Dechlorane 603	78.8		P	51 - 171
Dechlorane Plus	81.0		P	46 - 161
Demeton	66.7		P	42 - 119
Diazinon	82.2		P	67 - 132
Difenoconazole	124		P	12 - 204
Dimethenamid	80.6		P	53 - 113
Dimethomorph	125		P	13 - 238
Disulfoton	70.0		P	56 - 126
Dithiopyr	78.9		P	58 - 127
EPTC	35.9		P	31 - 78.0
Ethion	72.8		P	24 - 127
Ethoprop	66.6		P	60 - 118
Etridiazole	35.7		P	32 - 91.0
Fenamiphos	71.8		P	54 - 129
Fenbuconazole	89.1		P	31 - 162
Fipronil	68.2		P	56 - 131
Fipronil Desulfinyl	59.7		P	58 - 132
Fipronil Sulfide	77.8		P	51 - 123
Fipronil Sulfone	86.0		P	50 - 125
Fluazifop-P-butyl	70.9		P	52 - 132
Fludioxonil	89.6		P	52 - 129
Flumioxazin	133		P	34 - 250
Flutolanil	91.3		P	45 - 128
Fluxapyroxad	92.7		P	31 - 150
Fonofos	68.2		P	60 - 116
Hexabromobenzene	68.1		P	52 - 165
Hexazinone	75.9		P	59 - 120
Imazalil	81.2		P	39 - 134
Iprodione	77.6		P	39 - 243
Loratadine	79.4		P	10 - 240
Malathion	77.8		P	53 - 145
Metalaxyl	69.1		P	59 - 120
Metolachlor	82.2		P	64 - 122
Metribuzin	74.2		P	33 - 128
Mevinphos	57.7		P	48 - 119
Molinate	39.5		F	42 - 89.0
Myclobutanil	73.2		P	54 - 129
Naled	18.1		P	10 - 138
Napropamide	76.9		P	40 - 122
Norflurazon	77.7		P	49 - 132
Octinoxate	78.9		P	29 - 176
Oxadiazon	79.1		P	50 - 115
Oxybenzone	75.8		P	45 - 145
Oxyfluorfen	88.3		P	62 - 149
Parathion Ethyl	66.7		F	68 - 119
Parathion Methyl	97.4		P	68 - 147

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P442327

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBB-153	73.5		P	42 - 179
PBDE-47	89.8		P	44 - 141
PBDE-99	78.8		P	36 - 141
Pendimethalin	97.0		P	59 - 158
Pentabromotoluene	67.7		P	58 - 148
Phenytoin	32.7		P	10 - 151
Phorate	77.1		P	44 - 124
Prodiamine	104		P	10 - 136
Prometon	74.4		P	45 - 131
Prometryn	85.9		P	52 - 140
Pronamide	79.1		P	70 - 129
Propanil	71.7		P	54 - 144
Propargite	81.5		P	10 - 191
Propiconazole	76.8		P	49 - 128
Pyraflufen Ethyl	91.3		P	46 - 141
Pyridaben	94.9		P	29 - 198
Pyriproxyfen	86.2		P	33 - 221
Simazine	65.2		P	62 - 119
Stirophos	72.8		P	13 - 144
Sulfentrazone	39.4		P	12 - 152
Tebuconazole	80.0		P	10 - 135
Terbufos	74.7		P	67 - 136
Terbuthylazine	69.3		P	66 - 113
Tetradecachloro-m-terphenyl	65.4		P	30 - 235
Thiobencarb	78.2		P	51 - 125
Tri-o-cresyl Phosphate	88.0		P	50 - 150
Triadimefon	67.6		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	75.2		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	84.9		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	86.9		P	59 - 166

Reference Method: EPA 8321B
Batch ID: P441916

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	102		P	40 - 160
AMPA	92.5		P	40 - 160
Endothall	83.1		P	40 - 160
Glufosinate	86.4		P	40 - 160
Glyphosate	88.3		P	40 - 160
Sucralose	118		P	40 - 160

Reference Method: EPA 8321B
Batch ID: P442042

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	72.8		P	40 - 150
2,4,5-T	65.1		P	40 - 150
Acetaminophen	60.6		P	30 - 150
Acetamiprid	57.3		P	40 - 150
Afidopyropen	58.1		P	30 - 150
Bentazon	69.4		P	30 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P442042

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	77.9		P	40 - 150
Carbamazepine	68.2		P	40 - 150
Clothianidin	62.2		P	40 - 150
Dinotefuran	80.5		P	40 - 150
Diuron	66.5		P	40 - 150
Fenuron	66.8		P	40 - 150
Fluridone	68.4		P	40 - 150
Hydrocodone	71.8		P	40 - 150
Ibuprofen	68.5		P	40 - 150
Imazapyr	73.7		P	40 - 150
Imidacloprid	57.5		P	40 - 150
Linuron	68.5		P	40 - 150
Mandestrobin	63.5		P	40 - 150
MCPP	72.0		P	40 - 150
Naproxen	58.6		P	40 - 150
Primidone	69.9		P	40 - 150
Pyraclostrobin	75.5		P	40 - 150
Silvex	68.0		P	40 - 150
Thiamethoxam	61.1		P	40 - 150
Tolfenpyrad	43.1		P	30 - 150
Triclopyr	64.3		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P442361

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P442433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	99.2		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P442559

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.8		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P442364

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

Reference Method: SM 5310 B-2014
Batch ID: P442252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.7		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P442079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471200	Calcium	98.8		P	80 - 120
2471200	Iron	106	106	P/P	80 - 120
2471200	Magnesium	99.5		P	80 - 120
2471200	Potassium	97.6	97.7	P/P	80 - 120
2471200	Sodium	102	100	P/P	80 - 120
2471200	Strontium	95.6	94.9	P/P	80 - 120
2471200	Tin	97.2	96.8	P/P	80 - 120
2471200	Titanium	99.5	99.7	P/P	80 - 120
2471200	Vanadium	97.1	96.8	P/P	80 - 120
2471200	Zinc	95.4	95.2	P/P	80 - 120
2471428	Calcium	99.3		P	80 - 120
2471428	Iron	104		P	80 - 120
2471428	Magnesium	100		P	80 - 120
2471428	Potassium	98.9		P	80 - 120
2471428	Sodium	102		P	80 - 120
2471428	Strontium	94.0		P	80 - 120
2471428	Tin	95.9		P	80 - 120
2471428	Titanium	99.8		P	80 - 120
2471428	Vanadium	97.6		P	80 - 120
2471428	Zinc	95.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P442079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471200	Aluminum	99.5	101	P/P	80 - 120
2471200	Antimony	99.9	100	P/P	80 - 120
2471200	Arsenic	99.8	99.7	P/P	80 - 120
2471200	Barium	101	100	P/P	80 - 120
2471200	Beryllium	101	99.7	P/P	80 - 120
2471200	Boron	106	108	P/P	80 - 120
2471200	Cadmium	98.1	98.1	P/P	80 - 120
2471200	Chromium	99.4	102	P/P	80 - 120
2471200	Cobalt	94.7	94.4	P/P	80 - 120
2471200	Copper	95.5	96.0	P/P	80 - 120
2471200	Lead	96.2	97.5	P/P	80 - 120
2471200	Manganese	101	101	P/P	80 - 120
2471200	Molybdenum	97.7	98.6	P/P	80 - 120
2471200	Nickel	96.1	94.9	P/P	80 - 120
2471200	Selenium	98.6	96.2	P/P	80 - 120
2471200	Silver	99.9	103	P/P	80 - 120
2471200	Thallium	102	103	P/P	80 - 120
2471428	Aluminum	102		P	80 - 120
2471428	Antimony	101		P	80 - 120
2471428	Arsenic	99.7		P	80 - 120
2471428	Barium	102		P	80 - 120
2471428	Beryllium	106		P	80 - 120
2471428	Boron	112		P	80 - 120
2471428	Cadmium	104		P	80 - 120
2471428	Chromium	103		P	80 - 120
2471428	Cobalt	97.4		P	80 - 120
2471428	Copper	97.5		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P442079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471428	Lead	98.4		P	80 - 120
2471428	Manganese	101		P	80 - 120
2471428	Molybdenum	101		P	80 - 120
2471428	Nickel	97.2		P	80 - 120
2471428	Selenium	98.0		P	80 - 120
2471428	Silver	104		P	80 - 120
2471428	Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442397

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471858	Chloride	94.5		P	90 - 110
2471922	Chloride	95.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442400

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471858	Sulfate	95.5		P	90 - 110
2471922	Sulfate	96.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442076

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471841	Ammonia-N	99.6	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442063

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471859	Kjeldahl Nitrogen	104	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442234

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468914	NO2NO3-N	97.0	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442005

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471832	O-Phosphate-P	99.9	101	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P442327

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471856	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	93.9	81.7	P/P	50 - 150
2471856	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	66.4	92.6	P/P	29 - 155

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P442327

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471856	Acetochlor	75.6	90.9	P/P	60 - 124
2471856	Alachlor	72.9	65.5	P/P	54 - 122
2471856	Atrazine Desethyl	83.9	77.6	P/P	13 - 124
2471856	Avobenzone	106	104	P/P	35 - 187
2471856	Azinphos Methyl	74.7	105	P/P	43 - 276
2471856	Bromacil	86.6	70.0	P/P	44 - 134
2471856	Butylate	49.0	40.6	P/P	23 - 82.0
2471856	Caffeine	81.0	90.7	P/P	10 - 277
2471856	Carbophenothion	115	104	P/P	47 - 135
2471856	Carfentrazone Ethyl	108	102	P/P	46 - 147
2471856	Chlorfenapyr	80.7	96.1	P/P	43 - 114
2471856	Chlorpyrifos Ethyl	82.7	86.1	P/P	47 - 124
2471856	Chlorpyrifos Methyl	79.0	85.7	P/P	60 - 135
2471856	Coumaphos	53.9	99.1	P/P	10 - 222
2471856	Cyanazine	140	128	P/P	10 - 257
2471856	Cyprodinil	77.6	86.7	P/P	42 - 148
2471856	Dechlorane 602	79.3	72.8	P/P	14 - 133
2471856	Dechlorane 603	101	85.6	P/P	18 - 191
2471856	Dechlorane Plus	101	79.2	P/P	23 - 154
2471856	Demeton	80.9	84.5	P/P	41 - 137
2471856	Diazinon	107	84.0	P/P	64 - 139
2471856	Difenoconazole	68.6	84.1	P/P	46 - 254
2471856	Dimethenamid	73.5	99.0	P/P	47 - 117
2471856	Dimethomorph	84.1	125	P/P	14 - 255
2471856	Disulfoton	92.5	81.9	P/P	52 - 130
2471856	Dithiopyr	94.2	99.8	P/P	40 - 121
2471856	EPTC	46.9	35.8	P/P	19 - 78.0
2471856	Ethion	78.5	66.4	P/P	12 - 124
2471856	Ethoprop	85.1	79.3	P/P	68 - 144
2471856	Etridiazole	52.3	38.7	P/P	26 - 96.0
2471856	Fenamiphos	84.6	101	P/P	41 - 129
2471856	Fenbuconazole	39.9	52.3	P/P	26 - 169
2471856	Fipronil	80.1	64.4	P/P	46 - 145
2471856	Fipronil Desulfinyl	84.5	66.2	P/P	47 - 136
2471856	Fipronil Sulfide	71.2	58.0	P/P	41 - 127
2471856	Fipronil Sulfone	78.0	99.4	P/P	35 - 133
2471856	Fluazifop-P-butyl	79.4	91.7	P/P	46 - 131
2471856	Fludioxonil	73.2	106	P/P	51 - 124
2471856	Flumioxazin	82.8	63.4	P/P	10 - 289
2471856	Flutolanil	83.2	98.9	P/P	34 - 130
2471856	Fluxapyroxad	33.6	77.7	P/P	10 - 197
2471856	Fonofos	81.7	68.7	P/P	42 - 131
2471856	Hexabromobenzene	87.5	95.4	P/P	47 - 178
2471856	Hexazinone	82.2	77.3	P/P	64 - 125
2471856	Imazalil	90.9	105	P/P	37 - 252
2471856	Iprodione	68.0	76.1	P/P	34 - 265
2471856	Loratadine	158	120	P/P	20 - 231
2471856	Malathion	84.3	91.2	P/P	34 - 164
2471856	Metalaxyl	74.7	77.2	P/P	49 - 125
2471856	Metribuzin	91.6	101	P/P	51 - 139
2471856	Mevinphos	67.9	58.0	P/P	46 - 130
2471856	Molinate	54.7	46.8	P/P	39 - 93.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P442327

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471856	Myclobutanil	79.2	82.6	P/P	50 - 130
2471856	Naled	4.95	0.682	F/F	10 - 150
2471856	Napropamide	83.8	103	P/P	10 - 109
2471856	Octinoxate	127	100	P/P	18 - 170
2471856	Oxybenzone	108	89.4	P/P	33 - 154
2471856	Oxyfluorfen	118	149	P/P	62 - 154
2471856	Parathion Ethyl	85.6	85.2	P/P	65 - 120
2471856	Parathion Methyl	136	117	P/P	77 - 185
2471856	PBB-153	76.7	93.9	P/P	23 - 193
2471856	PBDE-47	91.3	120	P/P	31 - 139
2471856	PBDE-99	88.7	90.6	P/P	24 - 138
2471856	Pendimethalin	132	127	P/P	50 - 146
2471856	Pentabromotoluene	105	85.6	P/P	54 - 152
2471856	Phenytoin	49.5	43.0	P/P	10 - 157
2471856	Phorate	87.3	91.4	P/P	54 - 161
2471856	Prodiamine	35.4	100	P/P	29 - 160
2471856	Prometon	96.4	93.3	P/P	38 - 145
2471856	Prometryn	136	150	P/P	32 - 151
2471856	Pronamide	101	88.5	P/P	61 - 140
2471856	Propanil	76.2	69.3	P/P	50 - 147
2471856	Propargite	58.8	61.7	P/P	10 - 190
2471856	Propiconazole	94.8	110	P/P	30 - 146
2471856	Pyraflufen Ethyl	85.8	96.5	P/P	30 - 147
2471856	Pyridaben	81.3	87.3	P/P	15 - 195
2471856	Pyriproxyfen	60.8	75.8	P/P	31 - 218
2471856	Simazine	60.7	71.6	P/P	45 - 139
2471856	Stirophos	76.9	62.6	P/P	10 - 134
2471856	Sulfentrazone	68.3	81.5	P/P	53 - 186
2471856	Tebuconazole	60.6	68.8	P/P	10 - 133
2471856	Terbufos	92.4	80.4	P/P	65 - 151
2471856	Terbuthylazine	80.7	66.3	P/P	62 - 117
2471856	Tetradecachloro-m-terphenyl	149	104	P/P	10 - 260
2471856	Thiobencarb	82.8	89.7	P/P	48 - 122
2471856	Tri-o-cresyl Phosphate	121	102	P/P	32 - 151
2471856	Triadimefon	78.3	69.6	P/P	46 - 124
2471856	Tris(1-chloro-2-propyl) phosphate (TCPP)	116	92.3	P/P	51 - 154
2471856	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	124	99.4	P/P	59 - 147
2471856	Tris(2-chloroethyl) phosphate (TCEP)	135	98.1	P/P	65 - 156

Reference Method: EPA 8321B
Batch ID: P441916

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471088	Acesulfame K	99.4	99.4	P/P	40 - 160
2471088	AMPA	88.2	86.5	P/P	40 - 160
2471088	Endothall	94.0	89.4	P/P	40 - 160
2471088	Glufosinate	78.3	85.9	P/P	40 - 160
2471088	Glyphosate	83.2	85.1	P/P	40 - 160
2471088	Sucralose	112	116	P/P	40 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P442042

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471852	2,4-D	75.7	62.9	P/P	40 - 150
2471852	2,4,5-T	57.4	65.3	P/P	40 - 150
2471852	Acetaminophen	56.6	60.7	P/P	30 - 150
2471852	Acetamiprid	39.5	46.0	F/P	40 - 150
2471852	Afidopyropen	47.9	61.7	P/P	30 - 150
2471852	Benzovindiflupyr	81.5	82.7	P/P	40 - 150
2471852	Carbamazepine	57.5	58.9	P/P	40 - 150
2471852	Clothianidin	52.1	52.7	P/P	40 - 150
2471852	Dinotefuran	57.4	57.7	P/P	40 - 150
2471852	Diuron	55.8	63.9	P/P	40 - 150
2471852	Fenuron	45.8	49.2	P/P	40 - 150
2471852	Fluridone	58.9	65.9	P/P	40 - 150
2471852	Hydrocodone	44.6	47.7	P/P	40 - 150
2471852	Ibuprofen	82.1	73.5	P/P	40 - 150
2471852	Imidacloprid	54.1	56.8	P/P	40 - 150
2471852	Linuron	78.4	78.8	P/P	40 - 150
2471852	Mandestrobin	60.2	64.8	P/P	40 - 150
2471852	MCPP	65.9	69.6	P/P	40 - 150
2471852	Naproxen	64.4	71.3	P/P	40 - 150
2471852	Primidone	69.7	69.0	P/P	40 - 150
2471852	Pyraclostrobin	79.2	81.7	P/P	40 - 150
2471852	Silvex	65.2	65.6	P/P	40 - 150
2471852	Thiamethoxam	45.8	47.3	P/P	40 - 150
2471852	Tolfenpyrad	53.7	55.1	P/P	30 - 150
2471852	Triclopyr	59.9	68.0	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P442364

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471840	Fluoride	101	102	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P442252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2471812	Organic Carbon	94.8	97.8	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P442017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471811	Turbidity	6.38	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P442079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471200	Calcium	2.47	Spike	P	0 - 20
2471200	Iron	0.0419	Spike	P	0 - 20
2471200	Magnesium	1.43	Spike	P	0 - 20
2471200	Potassium	0.0526	Spike	P	0 - 20
2471200	Sodium	1.47	Spike	P	0 - 20
2471200	Strontium	0.654	Spike	P	0 - 20
2471200	Tin	0.388	Spike	P	0 - 20
2471200	Titanium	0.273	Spike	P	0 - 20
2471200	Vanadium	0.227	Spike	P	0 - 20
2471200	Zinc	0.241	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P442079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471200	Aluminum	1.15	Spike	P	0 - 20
2471200	Antimony	0.211	Spike	P	0 - 20
2471200	Arsenic	0.0612	Spike	P	0 - 20
2471200	Barium	0.394	Spike	P	0 - 20
2471200	Beryllium	0.981	Spike	P	0 - 20
2471200	Boron	2.40	Spike	P	0 - 20
2471200	Cadmium	0.0187	Spike	P	0 - 20
2471200	Chromium	2.07	Spike	P	0 - 20
2471200	Cobalt	0.329	Spike	P	0 - 20
2471200	Copper	0.498	Spike	P	0 - 20
2471200	Lead	1.35	Spike	P	0 - 20
2471200	Manganese	0.000587	Spike	P	0 - 20
2471200	Molybdenum	0.752	Spike	P	0 - 20
2471200	Nickel	1.22	Spike	P	0 - 20
2471200	Selenium	2.50	Spike	P	0 - 20
2471200	Silver	2.73	Spike	P	0 - 20
2471200	Thallium	1.76	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442397

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471858	Chloride	0.398	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P442400

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471858	Sulfate	1.45	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P442076

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471841	Ammonia-N	1.61	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P442063

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471859	Kjeldahl Nitrogen	0.447	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P442234

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468914	NO2NO3-N	1.47	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P442358

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471918	Total-P	2.25	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P442005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471832	O-Phosphate-P	1.19	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P442327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471856	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	13.8	Spike	P	0 - 30
2471856	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	32.9	Spike	P	0 - 35
2471856	Acetochlor	18.3	Spike	P	0 - 28
2471856	Alachlor	10.8	Spike	P	0 - 30
2471856	Ametryn	10.6	Spike	P	0 - 32
2471856	Atrazine	14.2	Spike	P	0 - 33
2471856	Atrazine Desethyl	2.77	Spike	P	0 - 36
2471856	Avobenzone	1.85	Spike	P	0 - 35
2471856	Azinphos Methyl	33.9	Spike	P	0 - 62

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P442327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471856	Azoxystrobin	1.38	Spike	P	0 - 39
2471856	Bromacil	21.2	Spike	P	0 - 33
2471856	Butylate	18.6	Spike	P	0 - 51
2471856	Caffeine	11.3	Spike	P	0 - 100
2471856	Carbophenothion	10.2	Spike	P	0 - 34
2471856	Carfentrazone Ethyl	5.71	Spike	P	0 - 33
2471856	Chlorfenapyr	17.4	Spike	P	0 - 28
2471856	Chlorpyrifos Ethyl	4.06	Spike	P	0 - 31
2471856	Chlorpyrifos Methyl	8.14	Spike	P	0 - 27
2471856	Coumaphos	59.2	Spike	P	0 - 62
2471856	Cyanazine	8.94	Spike	P	0 - 48
2471856	Cyprodinil	11.1	Spike	P	0 - 29
2471856	Dechlorane 602	8.60	Spike	P	0 - 60
2471856	Dechlorane 603	16.9	Spike	P	0 - 40
2471856	Dechlorane Plus	23.9	Spike	P	0 - 38
2471856	Demeton	4.33	Spike	P	0 - 33
2471856	Diazinon	23.6	Spike	P	0 - 32
2471856	Difenoconazole	20.3	Spike	P	0 - 71
2471856	Dimethenamid	29.5	Spike	P	0 - 60
2471856	Dimethomorph	39.4	Spike	P	0 - 61
2471856	Disulfoton	12.2	Spike	P	0 - 30
2471856	Dithiopyr	5.78	Spike	P	0 - 28
2471856	EPTC	27.0	Spike	P	0 - 56
2471856	Ethion	16.6	Spike	P	0 - 79
2471856	Ethoprop	7.06	Spike	P	0 - 31
2471856	Etridiazole	30.0	Spike	P	0 - 43
2471856	Fenamiphos	17.6	Spike	P	0 - 43
2471856	Fenbuconazole	26.8	Spike	P	0 - 79
2471856	Fipronil	21.7	Spike	P	0 - 46
2471856	Fipronil Desulfinyl	24.3	Spike	P	0 - 36
2471856	Fipronil Sulfide	20.6	Spike	P	0 - 34
2471856	Fipronil Sulfone	24.1	Spike	P	0 - 47
2471856	Fluazifop-P-butyl	13.9	Spike	P	0 - 38
2471856	Fludioxonil	36.9	Spike	F	0 - 29
2471856	Flumioxazin	26.5	Spike	P	0 - 63
2471856	Flutolanil	17.2	Spike	P	0 - 36
2471856	Fluxapyroxad	26.1	Spike	P	0 - 65
2471856	Fonofos	17.2	Spike	P	0 - 35
2471856	Hexabromobenzene	8.57	Spike	P	0 - 41
2471856	Hexazinone	2.90	Spike	P	0 - 31
2471856	Imazalil	14.4	Spike	P	0 - 52
2471856	Iprodione	11.2	Spike	P	0 - 49
2471856	Loratadine	27.1	Spike	P	0 - 59
2471856	Malathion	7.89	Spike	P	0 - 77
2471856	Metalaxyl	2.88	Spike	P	0 - 76
2471856	Metolachlor	4.44	Spike	P	0 - 29
2471856	Metribuzin	7.12	Spike	P	0 - 51
2471856	Mevinphos	15.8	Spike	P	0 - 31
2471856	Molinate	15.4	Spike	P	0 - 39
2471856	Myclobutanil	3.79	Spike	P	0 - 34
2471856	Naled	152	Spike	F	0 - 37

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P442327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471856	Napropamide	21.0	Spike	P	0 - 100
2471856	Norflurazon	8.38	Spike	P	0 - 54
2471856	Octinoxate	23.4	Spike	P	0 - 35
2471856	Oxadiazon	24.6	Spike	P	0 - 34
2471856	Oxybenzone	19.0	Spike	P	0 - 35
2471856	Oxyfluorfen	23.2	Spike	P	0 - 28
2471856	Parathion Ethyl	0.507	Spike	P	0 - 31
2471856	Parathion Methyl	15.1	Spike	P	0 - 29
2471856	PBB-153	20.1	Spike	P	0 - 49
2471856	PBDE-47	27.4	Spike	P	0 - 36
2471856	PBDE-99	2.20	Spike	P	0 - 46
2471856	Pendimethalin	3.97	Spike	P	0 - 31
2471856	Pentabromotoluene	20.6	Spike	F	0 - 16
2471856	Phenytoin	14.0	Spike	P	0 - 100
2471856	Phorate	4.57	Spike	P	0 - 36
2471856	Prodiamine	70.6	Spike	F	0 - 68
2471856	Prometon	3.30	Spike	P	0 - 35
2471856	Prometryn	9.92	Spike	P	0 - 33
2471856	Pronamide	13.6	Spike	P	0 - 24
2471856	Propanil	9.52	Spike	P	0 - 28
2471856	Propargite	4.91	Spike	P	0 - 53
2471856	Propiconazole	14.5	Spike	P	0 - 44
2471856	Pyraflufen Ethyl	11.8	Spike	P	0 - 61
2471856	Pyridaben	7.17	Spike	P	0 - 43
2471856	Pyriproxyfen	21.9	Spike	P	0 - 82
2471856	Simazine	4.25	Spike	P	0 - 29
2471856	Stirophos	20.5	Spike	P	0 - 100
2471856	Sulfentrazone	17.6	Spike	P	0 - 64
2471856	Tebuconazole	12.7	Spike	P	0 - 76
2471856	Terbufos	13.8	Spike	P	0 - 29
2471856	Terbuthylazine	19.5	Spike	P	0 - 28
2471856	Tetradecachloro-m-terphenyl	35.7	Spike	P	0 - 42
2471856	Thiobencarb	7.99	Spike	P	0 - 26
2471856	Tri-o-cresyl Phosphate	16.8	Spike	P	0 - 24
2471856	Triadimefon	11.7	Spike	P	0 - 40
2471856	Tris(1-chloro-2-propyl) phosphate (TCPP)	22.4	Spike	P	0 - 30
2471856	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	22.0	Spike	F	0 - 22
2471856	Tris(2-chloroethyl) phosphate (TCEP)	31.9	Spike	F	0 - 15

Reference Method: EPA 8321B
Batch ID: P441916

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471088	Acesulfame K	0.0326	Spike	P	0 - 30
2471088	AMPA	2.00	Spike	P	0 - 30
2471088	Endothall	4.92	Spike	P	0 - 30
2471088	Glufosinate	9.28	Spike	P	0 - 30
2471088	Glyphosate	2.13	Spike	P	0 - 30
2471088	Sucralose	2.94	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P442042

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471852	2,4-D	14.1	Spike	P	0 - 30
2471852	2,4,5-T	12.7	Spike	P	0 - 30
2471852	Acetaminophen	6.98	Spike	P	0 - 30
2471852	Acetamiprid	15.3	Spike	P	0 - 30
2471852	Afidopyropen	25.2	Spike	P	0 - 30
2471852	Bentazon	7.53	Spike	P	0 - 30
2471852	Benzovindiflupyr	1.40	Spike	P	0 - 30
2471852	Carbamazepine	2.43	Spike	P	0 - 30
2471852	Clothianidin	1.14	Spike	P	0 - 30
2471852	Dinotefuran	0.438	Spike	P	0 - 30
2471852	Diuron	13.7	Spike	P	0 - 30
2471852	Fenuron	7.15	Spike	P	0 - 30
2471852	Fluridone	9.88	Spike	P	0 - 30
2471852	Hydrocodone	6.76	Spike	P	0 - 30
2471852	Ibuprofen	11.1	Spike	P	0 - 30
2471852	Imazapyr	2.45	Spike	P	0 - 30
2471852	Imidacloprid	4.84	Spike	P	0 - 30
2471852	Linuron	0.468	Spike	P	0 - 30
2471852	Mandestrobin	7.37	Spike	P	0 - 30
2471852	MCPP	5.60	Spike	P	0 - 30
2471852	Naproxen	10.1	Spike	P	0 - 30
2471852	Primidone	1.02	Spike	P	0 - 30
2471852	Pyraclostrobin	3.04	Spike	P	0 - 30
2471852	Silvex	0.535	Spike	P	0 - 30
2471852	Thiamethoxam	3.33	Spike	P	0 - 30
2471852	Tolfenpyrad	2.55	Spike	P	0 - 30
2471852	Triclopyr	12.7	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P442361

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471840	Total Alkalinity	1.14	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P442433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471837	TDS	7.49	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P442364

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471840	Fluoride	0.520	Spike	P	0 - 1.9

Quality Assurance Report
Precision

Reference Method: SM 5310 B-2014
Batch ID: P442252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2471812	Organic Carbon	2.84	Spike	P	0 - 15

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2471876
Field Sample ID: 20030747

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	57.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	60.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	53.0	P	30 - 160
EPA 8321B	Diuron-d6	51.6	P	30 - 160
EPA 8321B	Endothall-d6	86.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.9	P	30 - 160
EPA 8321B	Primidone-d5	60.3	P	30 - 160
EPA 8321B	Sucralose-d6	122	P	30 - 160

Lab Sample ID: 2471878
Field Sample ID: 20030747

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	52.3	P	20 - 200
EPA 8270E	Simazine-d10	79.5	P	58 - 137
EPA 8270E	Terbufos-d10	76.6	P	50 - 134
EPA 8270E	Terphenyl-d14	94.5	P	44 - 134

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A124412
Included Lab Sample IDs: 2471860

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

Reference Method: DEP SOP: NU-094-1
Run ID: A124419
Included Lab Sample IDs: 2471858

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.1	99.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A124420
Included Lab Sample IDs: 2471858

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

Reference Method: EPA 8321B
Run ID: A124424
Included Lab Sample IDs: 2471876

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	93.3	89.6	P/P	60 - 160
Endothall	78.0	73.0	P/P	60 - 160
Glufosinate	83.6	76.7	P/P	60 - 160
Glyphosate	90.5	86.2	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A124426
Included Lab Sample IDs: 2471876

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	99.7	P/P	60 - 160
Sucralose	119	120	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A124442
Included Lab Sample IDs: 2471859

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.1	97.6	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A124488
Included Lab Sample IDs: 2471876

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	70.7	77.3	P/P	50 - 150
2,4,5-T	75.6	69.7	P/P	50 - 150
Acetaminophen	74.2	70.8	P/P	60 - 160
Acetamiprid	72.7	71.2	P/P	50 - 150
Afidopyropen	73.1	60.7	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A124488
Included Lab Sample IDs: 2471876

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	74.9	70.9	P/P	50 - 160
Benzovindiflupyr	89.0	93.9	P/P	50 - 150
Carbamazepine	81.8	87.8	P/P	60 - 150
Clothianidin	76.5	72.5	P/P	60 - 150
Dinotefuran	89.8	86.8	P/P	50 - 150
Diuron	82.4	91.3	P/P	60 - 160
Fenuron	79.3	76.9	P/P	60 - 150
Fluridone	81.5	75.3	P/P	60 - 160
Hydrocodone	79.2	77.9	P/P	60 - 150
Ibuprofen	120	127	P/P	50 - 160
Imazapyr	71.0	71.2	P/P	50 - 150
Imidacloprid	71.6	64.0	P/P	60 - 150
Linuron	93.2	90.8	P/P	60 - 150
Mandestrobin	77.1	72.3	P/P	50 - 150
MCPP	75.5	78.9	P/P	50 - 150
Naproxen	78.9	68.3	P/P	50 - 160
Primidone	81.9	82.2	P/P	60 - 150
Pyraclostrobin	98.2	97.8	P/P	60 - 150
Silvex	78.7	75.9	P/P	50 - 150
Thiamethoxam	77.8	75.3	P/P	50 - 150
Tolfenpyrad	91.2	94.9	P/P	60 - 150
Triclopyr	70.7	71.0	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A124501
Included Lab Sample IDs: 2471859

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A124511
Included Lab Sample IDs: 2471859

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

Reference Method: SM 5310 B-2014
Run ID: A124514
Included Lab Sample IDs: 2471859

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	106	98.4	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A124539
Included Lab Sample IDs: 2471877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.2	99.5	P/P	90 - 110
Antimony	96.7	96.4	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A124539
Included Lab Sample IDs: 2471877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	98.5	98.2	P/P	90 - 110
Barium	97.3	97.6	P/P	90 - 110
Beryllium	99.9	102	P/P	90 - 110
Boron	102	105	P/P	90 - 110
Cadmium	97.7	98.1	P/P	90 - 110
Chromium	98.4	99.2	P/P	90 - 110
Cobalt	96.5	97.1	P/P	90 - 110
Copper	99.3	99.4	P/P	90 - 110
Lead	96.7	97.4	P/P	90 - 110
Manganese	95.9	95.0	P/P	90 - 110
Molybdenum	97.5	98.0	P/P	90 - 110
Nickel	98.6	99.5	P/P	90 - 110
Selenium	98.2	98.5	P/P	90 - 110
Silver	96.7	97.6	P/P	90 - 110
Thallium	104	106	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A124561
Included Lab Sample IDs: 2471858

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	95.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A124561
Included Lab Sample IDs: 2471858

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A124581
Included Lab Sample IDs: 2471858

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.4	98.3	P/P	90 - 110
Sulfate	99.1	97.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A124608
Included Lab Sample IDs: 2471859

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	99.5	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A124619
Included Lab Sample IDs: 2471877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	97.2	98.0	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A124619
Included Lab Sample IDs: 2471877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	96.6	97.4	P/P	90 - 110
Magnesium	96.8	97.5	P/P	90 - 110
Potassium	98.0	98.5	P/P	90 - 110
Sodium	95.9	96.6	P/P	90 - 110
Strontium	95.2	95.1	P/P	90 - 110
Tin	99.4	99.4	P/P	90 - 110
Titanium	99.3	99.0	P/P	90 - 110
Vanadium	98.8	98.4	P/P	90 - 110
Zinc	99.1	98.5	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A124677
Included Lab Sample IDs: 2471878

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	97.0		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.5		P	80 - 120
Avobenzone	103		P	80 - 120
Dechlorane 602	102		P	80 - 120
Dechlorane 603	100		P	80 - 120
Dechlorane Plus	99.4		P	80 - 120
Hexabromobenzene	95.9		P	80 - 120
Octinoxate	96.5		P	80 - 120
Oxybenzone	97.4		P	80 - 120
PBB-153	96.7		P	80 - 120
PBDE-47	103		P	80 - 120
PBDE-99	99.6		P	80 - 120
Pentabromotoluene	96.5		P	80 - 120
Tetradecachloro-m-terphenyl	94.6		P	80 - 120
Tri-o-cresyl Phosphate	101		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	95.8		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	99.5		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	92.9		P	80 - 120

Reference Method: EPA 8270E
Run ID: A124823
Included Lab Sample IDs: 2471878

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	88.5		P	80 - 120
Alachlor	90.8		P	80 - 120
Ametryn	107		P	80 - 120
Atrazine	96.6		P	80 - 120
Atrazine Desethyl	93.3		P	80 - 120
Azinphos Methyl	92.6		P	80 - 120
Azoxystrobin	95.4		P	80 - 120
Bromacil	97.0		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	94.3		P	80 - 120
Carbophenothion	111		P	80 - 120
Carfentrazone Ethyl	100		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A124823
Included Lab Sample IDs: 2471878

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorfenapyr	82.0		P	80 - 120
Chlorpyrifos Ethyl	89.8		P	80 - 120
Chlorpyrifos Methyl	96.4		P	80 - 120
Coumaphos	90.0		P	80 - 120
Cyanazine	84.9		P	80 - 120
Cyprodinil	97.7		P	80 - 120
Demeton	95.6		P	80 - 120
Diazinon	106		P	80 - 120
Difenoconazole	96.5		P	80 - 120
Dimethenamid	99.1		P	80 - 120
Dimethomorph	82.3		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	115		P	80 - 120
EPTC	101		P	80 - 120
Ethion	83.8		P	80 - 120
Ethoprop	99.4		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	82.1		P	80 - 120
Fenbuconazole	93.5		P	80 - 120
Fipronil	91.8		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	96.3		P	80 - 120
Fipronil Sulfone	97.4		P	80 - 120
Fluazifop-P-butyl	99.8		P	80 - 120
Fludioxonil	101		P	80 - 120
Flumioxazin	94.2		P	80 - 120
Flutolanil	109		P	80 - 120
Fluxapyroxad	90.2		P	80 - 120
Fonofos	94.1		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	102		P	80 - 120
Iprodione	83.8		P	80 - 120
Loratadine	85.1		P	80 - 120
Malathion	89.1		P	80 - 120
Metalaxyl	92.8		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	96.0		P	80 - 120
Molinate	84.7		P	80 - 120
Myclobutanil	88.7		P	80 - 120
Naled	104		P	80 - 120
Napropamide	105		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	95.4		P	80 - 120
Oxyfluorfen	109		P	80 - 120
Parathion Ethyl	98.9		P	80 - 120
Parathion Methyl	114		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytoin	94.4		P	80 - 120
Phorate	93.1		P	80 - 120
Prodiamine	112		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A124823
Included Lab Sample IDs: 2471878

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometon	101		P	80 - 120
Prometryn	104		P	80 - 120
Pronamide	104		P	80 - 120
Propanil	98.0		P	80 - 120
Propargite	97.7		P	80 - 120
Propiconazole	80.4		P	80 - 120
Pyraflufen Ethyl	101		P	80 - 120
Pyridaben	100		P	80 - 120
Pyriproxyfen	95.9		P	80 - 120
Simazine	90.7		P	80 - 120
Stirophos	94.7		P	80 - 120
Sulfentrazone	103		P	80 - 120
Tebuconazole	94.9		P	80 - 120
Terbufos	94.7		P	80 - 120
Terbuthylazine	89.4		P	80 - 120
Thiobencarb	103		P	80 - 120
Triadimefon	102		P	80 - 120

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision		
						LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	102						
EPA 180.1 Rev. 2.0	Turbidity	104					6.38	
EPA 200.7 Rev. 4.4	Calcium	102	98.8	99.3				2.47
	Iron	106	106	106	104			0.0419
	Magnesium	102	99.5	100				1.43
	Potassium	102	97.6	97.7	98.9			0.0526
	Sodium	104	102	100	102			1.47
	Strontium	95.9	95.6	94.9	94.0			0.654
	Tin	97.8	97.2	96.8	95.9			0.388
	Titanium	99.3	99.5	99.7	99.8			0.273
	Vanadium	97.7	97.1	96.8	97.6			0.227
	Zinc	97.3	95.4	95.2	95.3			0.241
EPA 200.8 Rev. 5.4	Aluminum	101	99.5	101	102			1.15
	Antimony	99.4	99.9	100	101			0.211
	Arsenic	101	99.8	99.7	99.7			0.0612
	Barium	101	101	100	102			0.394
	Beryllium	101	101	99.7	106			0.981
	Boron	106	106	108	112			2.40
	Cadmium	98.7	98.1	98.1	104			0.0187
	Chromium	103	99.4	102	103			2.07
	Cobalt	98.7	94.7	94.4	97.4			0.329
	Copper	98.7	95.5	96.0	97.5			0.498
	Lead	98.4	96.2	97.5	98.4			1.35
	Manganese	99.3	101	101	101			0.0005
	Molybdenum	97.3	97.7	98.6	101			0.752
	Nickel	101	96.1	94.9	97.2			1.22
	Selenium	99.4	98.6	96.2	98.0			2.50
	Silver	102	99.9	103	104			2.73
	Thallium	101	102	103	104			1.76
EPA 300.0 Rev. 2.1	Chloride	99.4	94.5	95.6			0.398	
	Sulfate	98.9	95.5	96.8			1.45	
EPA 350.1 Rev. 2.0	Ammonia-N	95.0	99.6	102				1.61
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	104	105				0.447
EPA 353.2 Rev. 2.0	NO2NO3-N	101	97.0	98.5				1.47
EPA 365.1 Rev. 2.0	Total-P	100						2.25
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.7	99.9	101				1.19
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	75.2	93.9	81.7				13.8
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	79.9	66.4	92.6				32.9
	Acetochlor	62.1	75.6	90.9				18.3
	Alachlor	69.4	72.9	65.5				10.8
	Ametryn	73.5						10.6
	Atrazine	76.2						14.2
	Atrazine Desethyl	50.9	83.9	77.6				2.77
	Avobenzone	91.9	106	104				1.85
	Azinphos Methyl	90.9	74.7	105				33.9
	Azoxystrobin	76.5						1.38
	Bromacil	62.6	86.6	70.0				21.2
	Butylate	33.5	49.0	40.6				18.6
	Caffeine	61.7	90.7	81.0				11.3
	Carbophenothion	103	104	115				10.2
	Carfentrazone Ethyl	102	102	108				5.71

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Chlorfenapyr	83.1	96.1	80.7			17.4
	Chlorpyrifos Ethyl	66.5	86.1	82.7			4.06
	Chlorpyrifos Methyl	73.3	85.7	79.0			8.14
	Coumaphos	98.3	99.1	53.9			59.2
	Cyanazine	85.6	128	140			8.94
	Cyprodinil	76.4	86.7	77.6			11.1
	Dechlorane 602	72.2	79.3	72.8			8.60
	Dechlorane 603	78.8	101	85.6			16.9
	Dechlorane Plus	81.0	101	79.2			23.9
	Demeton	66.7	84.5	80.9			4.33
	Diazinon	82.2	84.0	107			23.6
	Difenoconazole	124	84.1	68.6			20.3
	Dimethenamid	80.6	99.0	73.5			29.5
	Dimethomorph	125	125	84.1			39.4
	Disulfoton	70.0	81.9	92.5			12.2
	Dithiopyr	78.9	99.8	94.2			5.78
	EPTC	35.9	35.8	46.9			27.0
	Ethion	72.8	66.4	78.5			16.6
	Ethoprop	66.6	79.3	85.1			7.06
	Etridiazole	35.7	38.7	52.3			30.0
	Fenamiphos	71.8	101	84.6			17.6
	Fenbuconazole	89.1	52.3	39.9			26.8
	Fipronil	68.2	64.4	80.1			21.7
	Fipronil Desulfinyl	59.7	66.2	84.5			24.3
	Fipronil Sulfide	77.8	58.0	71.2			20.6
	Fipronil Sulfone	86.0	99.4	78.0			24.1
	Fluazifop-P-butyl	70.9	91.7	79.4			13.9
	Fludioxonil	89.6	106	73.2			36.9
	Flumioxazin	133	63.4	82.8			26.5
	Flutolanil	91.3	98.9	83.2			17.2
	Fluxapyroxad	92.7	77.7	33.6			26.1
	Fonofos	68.2	68.7	81.7			17.2
	Hexabromobenzene	68.1	87.5	95.4			8.57
	Hexazinone	75.9	77.3	82.2			2.90
	Imazalil	81.2	105	90.9			14.4
	Iprodione	77.6	76.1	68.0			11.2
	Loratadine	79.4	120	158			27.1
	Malathion	77.8	91.2	84.3			7.89
	Metalaxyl	69.1	77.2	74.7			2.88
	Metolachlor	82.2					4.44
	Metribuzin	74.2	101	91.6			7.12
	Mevinphos	57.7	58.0	67.9			15.8
	Molinate	39.5	46.8	54.7			15.4
	Myclobutanil	73.2	82.6	79.2			3.79
	Naled	18.1	0.682	4.95			152
	Napropamide	76.9	103	83.8			21.0
	Norflurazon	77.7					8.38
	Octinoxate	78.9	127	100			23.4
	Oxadiazon	79.1					24.6
	Oxybenzone	75.8	108	89.4			19.0
	Oxyfluorfen	88.3	149	118			23.2
	Parathion Ethyl	66.7	85.2	85.6			0.507
	Parathion Methyl	97.4	117	136			15.1
	PBB-153	73.5	76.7	93.9			20.1

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	PBDE-47	89.8	91.3	120			27.4
	PBDE-99	78.8	88.7	90.6			2.20
	Pendimethalin	97.0	127	132			3.97
	Pentabromotoluene	67.7	105	85.6			20.6
	Phenytoin	32.7	43.0	49.5			14.0
	Phorate	77.1	91.4	87.3			4.57
	Prodiamine	104	100	35.4			70.6
	Prometon	74.4	93.3	96.4			3.30
	Prometryn	85.9	150	136			9.92
	Pronamide	79.1	88.5	101			13.6
	Propanil	71.7	69.3	76.2			9.52
	Propargite	81.5	61.7	58.8			4.91
	Propiconazole	76.8	110	94.8			14.5
	Pyraflufen Ethyl	91.3	96.5	85.8			11.8
	Pyridaben	94.9	87.3	81.3			7.17
	Pyriproxyfen	86.2	75.8	60.8			21.9
	Simazine	65.2	71.6	60.7			4.25
	Stirophos	72.8	62.6	76.9			20.5
	Sulfentrazone	39.4	81.5	68.3			17.6
	Tebuconazole	80.0	68.8	60.6			12.7
	Terbufos	74.7	80.4	92.4			13.8
	Terbuthylazine	69.3	66.3	80.7			19.5
	Tetradecachloro-m-terphenyl	65.4	149	104			35.7
	Thiobencarb	78.2	89.7	82.8			7.99
	Tri-o-cresyl Phosphate	88.0	121	102			16.8
	Triadimefon	67.6	69.6	78.3			11.7
	Tris(1-chloro-2-propyl) phosphate (TCPP)	75.2	116	92.3			22.4
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	84.9	124	99.4			22.0
	Tris(2-chloroethyl) phosphate (TCEP)	86.9	135	98.1			31.9
EPA 8321B	2,4-D	72.8	75.7	62.9			14.1
	2,4,5-T	65.1	57.4	65.3			12.7
	Acesulfame K	102	99.4	99.4			0.0326
	Acetaminophen	60.6	56.6	60.7			6.98
	Acetamiprid	57.3	39.5	46.0			15.3
	Afidopyropen	58.1	47.9	61.7			25.2
	AMPA	92.5	88.2	86.5			2.00
	Bentazon	69.4					7.53
	Benzovindiflupyr	77.9	81.5	82.7			1.40
	Carbamazepine	68.2	57.5	58.9			2.43
	Clothianidin	62.2	52.1	52.7			1.14
	Dinotefuran	80.5	57.4	57.7			0.438
	Diuron	66.5	55.8	63.9			13.7
	Endothall	83.1	94.0	89.4			4.92
	Fenuron	66.8	45.8	49.2			7.15
	Fluridone	68.4	58.9	65.9			9.88
	Glufosinate	86.4	78.3	85.9			9.28
	Glyphosate	88.3	83.2	85.1			2.13
	Hydrocodone	71.8	44.6	47.7			6.76
	Ibuprofen	68.5	82.1	73.5			11.1
	Imazapyr	73.7					2.45
	Imidacloprid	57.5	54.1	56.8			4.84

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Linuron	68.5	78.4	78.8			0.468
	Mandestrobin	63.5	60.2	64.8			7.37
	MCPP	72.0	65.9	69.6			5.60
	Naproxen	58.6	64.4	71.3			10.1
	Primidone	69.9	69.7	69.0			1.02
	Pyraclostrobin	75.5	79.2	81.7			3.04
	Silvex	68.0	65.2	65.6			0.535
	Sucralose	118	112	116			2.94
	Thiamethoxam	61.1	45.8	47.3			3.33
	Tolfenpyrad	43.1	53.7	55.1			2.55
	Triclopyr	64.3	59.9	68.0			12.7
SM 2320 B-2011	Total Alkalinity	100				1.14	
SM 2540 C-2015	TDS	99.2				7.49	
SM 2540 D-2015	TSS	96.8					
SM 4500-F- C-2011	Fluoride	101	101	102			0.520
SM 5310 B-2014	Organic Carbon	97.7	94.8	97.8			2.84

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2471858
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2471858
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2471877
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2471877
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2471858
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2471858
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2471859
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2471859
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2471859
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2471859
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2471860
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2471878
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2471878
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2471876
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2471858
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2471877
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2471858
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2471858
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2471858
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2471859

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	02/27/2024			02/27/2024 15:56	Jessica K Wilks	2471858
EPA 180.1 Rev. 2.0	02/27/2024			02/27/2024 14:35	Dipa Joshi	2471858
EPA 200.7 Rev. 4.4	02/27/2024	02/28/2024 13:20	George D Taylor	03/08/2024 00:44	Conrad Hartmann	2471877
EPA 200.8 Rev. 5.4	02/27/2024	02/28/2024 13:20	George D Taylor	03/04/2024 22:35	McKinley C Carter	2471877
EPA 300.0 Rev. 2.1	02/27/2024			03/04/2024 18:04	James L Waggerby	2471858
EPA 350.1 Rev. 2.0	02/27/2024			02/28/2024 13:25	Khloe J Berg	2471859
EPA 351.2 Rev. 2.0	02/27/2024	02/29/2024 12:10	Ping Hua	03/01/2024 11:08	Robyn Blevins	2471859
EPA 353.2 Rev. 2.0	02/27/2024			03/01/2024 14:15	Fadila Guebre	2471859
EPA 365.1 Rev. 2.0	02/27/2024	03/06/2024 14:05	Josephine W Gitau	03/07/2024 15:00	Elise M. Gillis	2471859
EPA 365.1 Rev. 2.0 dissolved	02/27/2024			02/27/2024 13:38	Victoria Ocasio-Reed	2471860
EPA 8270E	02/27/2024	03/01/2024 09:37	Lipi Saha	03/07/2024 18:48	Julie Wi	2471878
	02/27/2024	03/01/2024 09:37	Lipi Saha	03/07/2024 19:15	Julie Wi	2471878
EPA 8321B	02/27/2024	02/27/2024 12:30	Tae K Lee	02/27/2024 13:56	Tae K Lee	2471876
	02/27/2024	02/27/2024 12:30	Tae K Lee	02/28/2024 01:15	Tae K Lee	2471876
	02/27/2024	02/29/2024 13:00	Hoor Shaik	03/01/2024 19:41	Juyoung Kim	2471876
SM 2320 B-2011	02/27/2024			03/06/2024 02:07	Adam P Silver	2471858
SM 2340 B-2011	02/27/2024			03/08/2024 00:44	Conrad Hartmann	2471877
SM 2540 C-2015	02/27/2024			03/01/2024 16:04	Yijie Li	2471858
SM 2540 D-2015	02/27/2024			03/01/2024 16:04	Yijie Li	2471858
SM 4500-F- C-2011	02/27/2024			03/06/2024 02:07	Adam P Silver	2471858
SM 5310 B-2014	02/27/2024			02/29/2024 23:00	Khloe J Berg	2471859