

Chemical Analysis Report

NW-DIST-2022-09-16-01

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

Event Description: **LVI Only**
Request ID: **RQ-2022-08-08-31**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
Pensacola, FL 32502-5794
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Certified by: Colin Wright, Program Administrator

Date Certified: 07-OCT-2022 08:47

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray 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: UNNAMED LAKE

Collection Date/Time: 09/15/2022 13:15

Field ID: G3NW0223

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357284	DEP SOP: NU-094-1	Color (true)	20		PCU	P419734	
	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P419746	
	EPA 300.0 Rev. 2.1	Chloride	5.7		mg Cl/L	P420089	
		Sulfate	3.9		mg SO4/L	P420094	
	SM 2320 B-2011	Total Alkalinity	4.2		mg CaCO3/L	P420276	
	SM 2540 C-2011	TDS	31		mg/L	P420189	
	SM 2540 D-2011	TSS	6	I	mg/L	P420146	
2357285	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P420215	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.027		mg N/L	P420112	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26		mg N/L	P419937	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.28		mg N/L	P420164	
	EPA 365.1 Rev. 2.0	Total-P	0.004	I	mg P/L	P419947	
2357286	SM 5310 B-2011	Organic Carbon	3.6		mg C/L	P419944	
2357288	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P419736	
2357288	EPA 8321B	2,4-D	0.0020	U	ug/L	P419841	
		Acesulfame K	0.10	U	ug/L	P419612	
		2,4,5-T	0.0040	U	ug/L	P419841	
		AMPA	0.10	U	ug/L	P419612	
		Acetaminophen	0.0080	U	ug/L	P419841	
		Acetamiprid	0.0020	U	ug/L	P419841	
		Endothall	0.25	U	ug/L	P419612	
		Glufosinate	0.10	U	ug/L	P419612	
		Glyphosate	0.10	U	ug/L	P419612	
		Afidopyproden	0.0020	U	ug/L	P419841	
		Bentazon	8.0E-04	U	ug/L	P419841	
		Sucralose	0.36		ug/L	P419612	
		Benzovindiflupyr	0.0020	U	ug/L	P419841	
		Carbamazepine	8.0E-04	U	ug/L	P419841	
		Clothianidin	0.0022	I	ug/L	P419841	
		Dinotefuran	0.0020	U	ug/L	P419841	
		Diuron	0.0020	U	ug/L	P419841	
		Fenuron	0.016	U	ug/L	P419841	
		Fluridone	8.0E-04	U	ug/L	P419841	
		Imazapyr	0.0040	U	ug/L	P419841	
		Hydrocodone	0.0020	U	ug/L	P419841	
		Ibuprofen	0.020	U	ug/L	P419841	
		Imidacloprid	0.044		ug/L	P419841	
		Linuron	0.0040	U	ug/L	P419841	
		Mandestrobin	0.0020	U	ug/L	P419841	
		MCPD	0.0020	U	ug/L	P419841	
		Naproxen	0.0080	U	ug/L	P419841	
		Primidone	0.0040	U	ug/L	P419841	
		Pyraclostrobin	0.0020	U	ug/L	P419841	

Field ID: G3NW0223

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357288	EPA 8321B	Silvex	0.0040	U	ug/L	P419841	
		Thiamethoxam	0.0020	U	ug/L	P419841	
		Tolfenpyrad	0.0020	U	ug/L	P419841	
		Triclopyr	0.0040	U	ug/L	P419841	
2357289	EPA 200.7 Rev. 4.4	Calcium	2.28		mg/L	P419802	
		Iron	97	I	ug/L	P419802	
		Magnesium	1.06		mg/L	P419802	
		Potassium	0.81	I	mg/L	P419802	
		Sodium	3.7		mg/L	P419802	
		Strontium	10.9		ug/L	P419802	
		Tin	3.0	U	ug/L	P419802	
		Titanium	0.75	U	ug/L	P419802	
		Vanadium	2.0	U	ug/L	P419802	
		Zinc	5.0	U	ug/L	P419802	
	EPA 200.8 Rev. 5.4	Aluminum	34		ug/L	P419802	
		Antimony	0.050	U	ug/L	P419802	
		Arsenic	0.11	I	ug/L	P419802	
		Barium	10.4		ug/L	P419802	
		Beryllium	0.021	I	ug/L	P419802	
		Boron	18.7		ug/L	P419802	
		Cadmium	0.020	U	ug/L	P419802	
		Chromium	0.40	U	ug/L	P419802	
		Cobalt	0.190		ug/L	P419802	
		Copper	0.40	U	ug/L	P419802	
		Lead	0.20	U	ug/L	P419802	
		Manganese	17.6		ug/L	P419802	
		Molybdenum	0.15	U	ug/L	P419802	
		Nickel	0.50	U	ug/L	P419802	
		Selenium	0.21	I	ug/L	P419802	
		Silver	0.010	U	ug/L	P419802	
		Thallium	0.10	U	ug/L	P419802	
		Hardness	10.1		mg/L	P419802	
2357290	SM 2340 B-2011	Oxybenzone**	9.6	U	ng/L	P419712	
	EPA 8270E	Acetochlor	0.24	U	ng/L	P419712	
		Octinoxate**	19	U	ng/L	P419712	RPD
		Alachlor	0.24	U	ng/L	P419712	
		Avobenzone**	96	U	ng/L	P419712	
		Ametryn	0.58	U	ng/L	P419712	
		Atrazine	0.90	I	ng/L	P419712	
		PBDE-47**	3.8	U	ng/L	P419712	
		Atrazine Desethyl	1.4	U	ng/L	P419712	
		PBDE-99**	4.8	U	ng/L	P419712	MS
		Azinphos Methyl	1.9	U	ng/L	P419712	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P419712	RPD
		Azoxystrobin	0.48	U	ng/L	P419712	

Field ID: G3NW0223

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357290	EPA 8270E	Bromacil	0.48	U	ng/L	P419712	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P419712	MS
		Butylate	0.38	U	ng/L	P419712	
		Dechlorane Plus**	29	U	ng/L	P419712	
		Caffeine**	7.2	U	ng/L	P419712	
		Carbophenothion	0.19	U	ng/L	P419712	
		Carfentrazone Ethyl	0.096	U	ng/L	P419712	
		Chlorfenapyr	0.17	U	ng/L	P419712	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P419712	
		Chlorpyrifos Methyl	0.048	U	ng/L	P419712	
		Coumaphos	0.48	U	ng/L	P419712	MS
		Cyanazine	3.1	U	ng/L	P419712	
		Cyprodinil	0.096	U	ng/L	P419712	
		Demeton	1.4	U	ng/L	P419712	
		Diazinon	0.12	U	ng/L	P419712	
		Difenoconazole	0.58	U	ng/L	P419712	
		Dimethenamid	0.096	U	ng/L	P419712	
		Dimethomorph	0.17	U	ng/L	P419712	MS, RPD
		Disulfoton	0.48	U	ng/L	P419712	
		Dithiopyr	0.17	IV	ng/L	P419712	
		EPTC	1.2	U	ng/L	P419712	
		Ethion	0.14	U	ng/L	P419712	
		Ethoprop	0.096	U	ng/L	P419712	
		Etridiazole	0.14	U	ng/L	P419712	
		Fenamiphos	0.48	U	ng/L	P419712	
		Fenbuconazole	0.12	U	ng/L	P419712	
		Fipronil	3.0		ng/L	P419712	
		Fipronil Desulfinyl**	1.5		ng/L	P419712	
		Fipronil Sulfide	0.62		ng/L	P419712	
		Fipronil Sulfone	5.4		ng/L	P419712	
		Fluazifop-P-butyl	0.096	U	ng/L	P419712	
		Fludioxonil	0.12	U	ng/L	P419712	
		Flumioxazin	660		ng/L	P419712	
		Flutolanil	0.096	U	ng/L	P419712	
		Fluxapyroxad	0.096	U	ng/L	P419712	
		Fonofos	0.19	U	ng/L	P419712	
		Hexazinone	0.48	U	ng/L	P419712	
		Imazalil	0.72	U	ng/L	P419712	
		Iprodione	0.58	U	ng/L	P419712	
		Loratadine**	0.096	U	ng/L	P419712	MS, RPD
		Malathion	0.34	U	ng/L	P419712	
		Metalaxyl	0.72	U	ng/L	P419712	
		Metolachlor	0.34	U	ng/L	P419712	
		Metribuzin	2.4	U	ng/L	P419712	

Field ID: G3NW0223

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2357290	EPA 8270E	Mevinphos	1.0	U	ng/L	P419712	
		Molinate	0.29	U	ng/L	P419712	
		Myclobutanil	0.24	U	ng/L	P419712	
		Naled	1.4	U	ng/L	P419712	
		Napropamide	0.38	U	ng/L	P419712	
		Norflurazon	0.48	U	ng/L	P419712	
		Oxadiazon	0.29	U	ng/L	P419712	
		Oxyfluorfen	0.14	U	ng/L	P419712	
		Parathion Ethyl	0.24	U	ng/L	P419712	
		Parathion Methyl	0.53	U	ng/L	P419712	
		Pendimethalin	0.96	U	ng/L	P419712	
		Phenytol**	3.4	U	ng/L	P419712	MS
		Phorate	0.50	U	ng/L	P419712	
		Prodiamine	0.17	U	ng/L	P419712	
		Prometon	0.86	U	ng/L	P419712	
		Prometryn	0.19	U	ng/L	P419712	
		Pronamide	0.14	U	ng/L	P419712	
		Propanil	0.12	U	ng/L	P419712	
		Propargite	1.4	UJ	ng/L	P419712	LCS, MS
		Propiconazole	0.48	U	ng/L	P419712	
		Pyraflufen Ethyl	0.24	U	ng/L	P419712	
		Pyridaben	0.43	U	ng/L	P419712	MS
		Pyriproxyfen	0.12	U	ng/L	P419712	
		Simazine	0.48	U	ng/L	P419712	
		Stirophos	0.12	U	ng/L	P419712	MS, RPD
		Sulfentrazone	0.95	I	ng/L	P419712	
		Tebuconazole	0.48	U	ng/L	P419712	
		Terbufos	0.096	U	ng/L	P419712	
		Terbutylazine	0.41	U	ng/L	P419712	
		Thiobencarb	0.58	U	ng/L	P419712	
		Triadimefon	0.24	U	ng/L	P419712	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

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: V - Due to the presence of dithiopyr in one of the Method Blanks and the sample. 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: P419734

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419746

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P419802

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: P419802

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: P420089

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: P420094

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420112

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419937

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420164

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419947

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P419736

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

Reference Method: EPA 8270E
Batch ID: P419712

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419712

Component	Result	Code	Units
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.19	I	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419712

Component	Result	Code	Units
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419712

Component	Result	Code	Units
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P419712

Component	Result	Code	Units
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8321B

Batch ID: P419612

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: P419841

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	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	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: P420276

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P420276

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P420189

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P420146

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P420215

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P419944

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: P419734

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: P419746

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P419802

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	102		P	85 - 115
Magnesium	102		P	85 - 115
Potassium	103		P	85 - 115
Sodium	106		P	85 - 115
Strontium	101		P	85 - 115
Tin	98.4		P	85 - 115
Titanium	99.9		P	85 - 115
Vanadium	99.4		P	85 - 115
Zinc	96.6		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P419802

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	104		P	85 - 115
Arsenic	102		P	85 - 115
Barium	105		P	85 - 115
Beryllium	92.8		P	85 - 115
Boron	105		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	102		P	85 - 115
Cobalt	104		P	85 - 115
Copper	101		P	85 - 115
Lead	97.4		P	85 - 115
Manganese	104		P	85 - 115
Molybdenum	99.0		P	85 - 115
Nickel	102		P	85 - 115
Selenium	101		P	85 - 115
Silver	87.3		P	85 - 115
Thallium	96.2		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420089

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420094

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420112

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419937

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420164

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	92.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419947

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: P419736

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

Reference Method: EPA 8270E
Batch ID: P419712

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	80.3		P	50 - 150
Acetochlor	97.5		P	70 - 121
Alachlor	93.5		P	68 - 119
Ametryn	83.3		P	64 - 139
Atrazine	98.2		P	76 - 120
Atrazine Desethyl	59.7		P	44 - 126
Avobenzone	76.0		P	76 - 212
Azinphos Methyl	138		P	43 - 192
Azoxystrobin	136		P	36 - 224
Bromacil	68.4		P	52 - 121
Butylate	58.5		P	28 - 91.0
Caffeine	78.0		P	50 - 134
Carbophenothion	90.3		P	56 - 129
Carfentrazone Ethyl	95.2		P	60 - 141
Chlorfenapyr	81.1		P	56 - 115
Chlorpyrifos Ethyl	91.4		P	60 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P419712

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	98.4		P	68 - 119
Coumaphos	82.3		P	18 - 250
Cyanazine	87.6		P	61 - 250
Cyprodinil	92.5		P	55 - 145
Dechlorane Plus	95.1		P	50 - 150
Demeton	92.2		P	30 - 159
Diazinon	98.1		P	70 - 123
Difenoconazole	88.1		P	49 - 204
Dimethenamid	67.6		P	64 - 115
Dimethomorph	182		P	12 - 219
Disulfoton	98.2		P	44 - 125
Dithiopyr	86.1		P	64 - 115
EPTC	52.8		P	28 - 86.0
Ethion	36.1		P	33 - 125
Ethoprop	90.5		P	64 - 116
Etridiazole	58.0		P	34 - 91.0
Fenamiphos	96.6		P	12 - 127
Fenbuconazole	86.6		P	59 - 151
Fipronil	89.1		P	67 - 129
Fipronil Desulfinyl	85.6		P	65 - 127
Fipronil Sulfide	67.9		P	61 - 116
Fipronil Sulfone	80.1		P	55 - 117
Fluazifop-P-butyl	86.3		P	62 - 127
Fludioxonil	82.8		P	62 - 128
Flumioxazin	106		P	33 - 250
Flutolanil	82.4		P	56 - 127
Fluxapyroxad	60.7		P	45 - 128
Fonofos	84.1		P	62 - 111
Hexazinone	87.4		P	46 - 139
Imazalil	89.9		P	38 - 142
Iprodione	90.5		P	47 - 135
Loratadine	180		P	10 - 244
Malathion	104		P	61 - 139
Metalaxyl	87.2		P	10 - 119
Metolachlor	93.3		P	65 - 118
Metribuzin	107		P	51 - 250
Mevinphos	70.8		P	53 - 121
Molinate	75.7		P	42 - 96.0
Myclobutanil	81.4		P	55 - 128
Naled	77.9		P	10 - 98.0
Napropamide	65.8		P	49 - 121
Norflurazon	74.3		P	61 - 126
Octinoxate	88.9		P	30 - 159
Oxadiazon	72.9		P	59 - 116
Oxybenzone	83.1		P	61 - 139
Oxyfluorfen	113		P	64 - 137
Parathion Ethyl	99.6		P	70 - 112
Parathion Methyl	115		P	76 - 133
PBDE-47	67.3		P	50 - 150
PBDE-99	76.0		P	50 - 150
Pendimethalin	83.7		P	52 - 117
Phenytol	11.3		P	10 - 199

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P419712

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	77.3		P	48 - 121
Prodiamine	59.2		P	26 - 142
Prometon	68.0		P	43 - 123
Prometryn	84.5		P	66 - 127
Pronamide	101		P	75 - 121
Propanil	86.3		P	45 - 150
Propargite	41.1		F	42 - 208
Propiconazole	75.7		P	60 - 125
Pyraflufen Ethyl	75.2		P	70 - 138
Pyridaben	96.0		P	35 - 245
Pyriproxyfen	77.5		P	30 - 149
Simazine	89.2		P	72 - 125
Stirophos	43.1		P	29 - 164
Sulfentrazone	36.8		P	21 - 139
Tebuconazole	31.7		P	10 - 115
Terbufos	109		P	60 - 123
Terbutylazine	94.4		P	72 - 115
Thiobencarb	91.7		P	31 - 139
Tri-o-cresyl Phosphate	82.3		P	50 - 150
Triadimefon	78.5		P	65 - 116

Reference Method: EPA 8321B

Batch ID: P419612

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	115		P	40 - 150
AMPA	105		P	40 - 150
Endothall	98.0		P	40 - 150
Glufosinate	97.9		P	40 - 150
Glyphosate	113		P	40 - 150
Sucralose	110		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P419841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	71.6		P	30 - 160
2,4,5-T	65.9		P	30 - 160
Acetaminophen	99.5		P	30 - 150
Acetamiprid	86.2		P	30 - 160
Afidopyropen	71.1		P	30 - 160
Bentazon	90.7		P	30 - 150
Benzovindiflupyr	84.4		P	30 - 160
Carbamazepine	87.7		P	30 - 160
Clothianidin	98.6		P	30 - 160
Dinotefuran	105		P	30 - 160
Diuron	58.8		P	30 - 160
Fenuron	107		P	30 - 160
Fluridone	92.4		P	30 - 160
Hydrocodone	96.5		P	30 - 160
Ibuprofen	84.4		P	30 - 160
Imazapyr	91.7		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P419841

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Imidacloprid	93.3		P	30 - 160
Linuron	91.9		P	30 - 160
Mandestrobin	95.2		P	30 - 160
MCPP	78.9		P	30 - 160
Naproxen	81.2		P	30 - 160
Primidone	95.1		P	30 - 160
Pyraclostrobin	82.2		P	30 - 160
Silvex	61.4		P	30 - 160
Thiamethoxam	92.7		P	30 - 160
Tolfenpyrad	64.9		P	30 - 160
Triclopyr	64.4		P	30 - 160

Reference Method: SM 2320 B-2011
Batch ID: P420276

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.7		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P420215

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.9		P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419944

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P419802

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357289	Calcium	99.5	98.9	P/P	80 - 120
2357289	Iron	104	102	P/P	80 - 120
2357289	Magnesium	102	100	P/P	80 - 120
2357289	Potassium	101	101	P/P	80 - 120
2357289	Sodium	99.6	99.0	P/P	80 - 120
2357289	Strontium	105	104	P/P	80 - 120
2357289	Tin	101	101	P/P	80 - 120
2357289	Titanium	102	102	P/P	80 - 120
2357289	Vanadium	100	100	P/P	80 - 120
2357289	Zinc	96.5	96.1	P/P	80 - 120
2357338	Calcium	98.5		P	80 - 120
2357338	Iron	101		P	80 - 120
2357338	Magnesium	102		P	80 - 120
2357338	Potassium	101		P	80 - 120
2357338	Sodium	103		P	80 - 120
2357338	Strontium	103		P	80 - 120
2357338	Tin	98.4		P	80 - 120
2357338	Titanium	100		P	80 - 120
2357338	Vanadium	99.3		P	80 - 120
2357338	Zinc	95.6		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P419802

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357289	Aluminum	98.5	98.1	P/P	80 - 120
2357289	Antimony	101	100	P/P	80 - 120
2357289	Arsenic	99.8	99.1	P/P	80 - 120
2357289	Barium	101	100	P/P	80 - 120
2357289	Beryllium	91.1	90.1	P/P	80 - 120
2357289	Boron	100	101	P/P	80 - 120
2357289	Cadmium	98.6	99.4	P/P	80 - 120
2357289	Chromium	99.9	100	P/P	80 - 120
2357289	Cobalt	101	101	P/P	80 - 120
2357289	Copper	98.9	99.4	P/P	80 - 120
2357289	Lead	96.1	95.6	P/P	80 - 120
2357289	Manganese	98.3	99.2	P/P	80 - 120
2357289	Molybdenum	96.2	96.1	P/P	80 - 120
2357289	Nickel	99.8	99.8	P/P	80 - 120
2357289	Selenium	98.3	95.9	P/P	80 - 120
2357289	Silver	83.2	83.7	P/P	80 - 120
2357289	Thallium	95.3	95.3	P/P	80 - 120
2357338	Aluminum	100		P	80 - 120
2357338	Antimony	99.8		P	80 - 120
2357338	Arsenic	100		P	80 - 120
2357338	Barium	101		P	80 - 120
2357338	Beryllium	89.9		P	80 - 120
2357338	Boron	104		P	80 - 120
2357338	Cadmium	99.3		P	80 - 120
2357338	Chromium	100		P	80 - 120
2357338	Cobalt	102		P	80 - 120
2357338	Copper	100		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P419802

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357338	Lead	95.6		P	80 - 120
2357338	Molybdenum	96.7		P	80 - 120
2357338	Nickel	101		P	80 - 120
2357338	Selenium	98.0		P	80 - 120
2357338	Silver	84.2		P	80 - 120
2357338	Thallium	93.9		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P420089

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357095	Chloride	101		P	90 - 110
2357194	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P420094

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357095	Sulfate	98.8		P	90 - 110
2357194	Sulfate	99.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P420112

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357046	Ammonia-N	102	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P419937

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357285	Kjeldahl Nitrogen	97.5	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P420164

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357237	NO2NO3-N	91.8	91.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P419947

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357504	Total-P	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P419736

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357154	O-Phosphate-P	91.3	90.0	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P419712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356916	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	43.8	58.5	F/P	50 - 150
2356916	Acetochlor	90.5	99.8	P/P	65 - 124
2356916	Alachlor	81.8	91.4	P/P	61 - 121
2356916	Ametryn	67.8	76.4	P/P	52 - 216
2356916	Atrazine	89.2	103	P/P	68 - 133
2356916	Atrazine Desethyl	56.3	69.1	P/P	15 - 160
2356916	Avobenzone	61.9	77.1	P/P	59 - 206
2356916	Azinphos Methyl	105	115	P/P	40 - 292
2356916	Azoxystrobin	98.5	139	P/P	12 - 242
2356916	Bromacil	79.1	94.0	P/P	54 - 167
2356916	Butylate	34.7	41.0	P/P	14 - 94.0
2356916	Caffeine	84.1	76.5	P/P	10 - 226
2356916	Carbophenothion	76.6	76.2	P/P	49 - 122
2356916	Carfentrazone Ethyl	81.4	76.9	P/P	53 - 138
2356916	Chlorfenapyr	64.0	64.6	P/P	50 - 150
2356916	Chlorpyrifos Ethyl	71.7	67.7	P/P	52 - 122
2356916	Chlorpyrifos Methyl	72.2	81.0	P/P	66 - 117
2356916	Coumaphos	39.0	32.8	F/F	50 - 220
2356916	Cyanazine	74.2	77.1	P/P	43 - 245
2356916	Cyprodinil	73.1	69.9	P/P	50 - 150
2356916	Dechlorane Plus	54.4	65.7	P/P	50 - 150
2356916	Demeton	89.4	106	P/P	43 - 188
2356916	Diazinon	90.4	102	P/P	69 - 131
2356916	Difenoconazole	100	87.6	P/P	34 - 231
2356916	Dimethenamid	71.2	69.5	P/P	55 - 118
2356916	Dimethomorph	109	189	P/F	50 - 150
2356916	Disulfoton	77.7	84.3	P/P	38 - 141
2356916	Dithiopyr	62.2	70.6	P/P	42 - 116
2356916	EPTC	33.1	41.1	P/P	18 - 85.0
2356916	Ethion	76.7	36.3	P/P	10 - 131
2356916	Ethoprop	80.9	87.5	P/P	65 - 129
2356916	Etridiazole	50.6	61.6	P/P	50 - 150
2356916	Fenamiphos	79.7	78.4	P/P	31 - 137
2356916	Fenbuconazole	78.8	83.8	P/P	57 - 160
2356916	Fipronil	86.7	87.9	P/P	62 - 132
2356916	Fipronil Desulfinyl	74.8	75.7	P/P	57 - 131
2356916	Fipronil Sulfide	65.9	72.1	P/P	15 - 138
2356916	Fipronil Sulfone	74.5	75.5	P/P	21 - 134
2356916	Fluazifop-P-butyl	78.4	75.6	P/P	54 - 133
2356916	Fludioxonil	76.4	73.9	P/P	58 - 127
2356916	Flumioxazin	120	117	P/P	33 - 300
2356916	Flutolanil	73.9	69.0	P/P	42 - 130
2356916	Fluxapyroxad	68.9	62.3	P/P	23 - 141
2356916	Fonofos	71.0	74.0	P/P	58 - 119
2356916	Hexazinone	97.2	103	P/P	68 - 172
2356916	Imazalil	100	90.4	P/P	48 - 283
2356916	Iprodione	81.9	80.6	P/P	38 - 140
2356916	Loratadine	103	176	P/F	50 - 150
2356916	Malathion	84.0	88.5	P/P	40 - 137
2356916	Metalaxyl	75.1	75.9	P/P	21 - 129
2356916	Metolachlor	80.8	84.8	P/P	55 - 122
2356916	Metribuzin	86.8	105	P/P	38 - 187

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P419712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356916	Mevinphos	63.2	72.3	P/P	54 - 134
2356916	Molinate	60.4	64.6	P/P	41 - 97.0
2356916	Myclobutanil	82.3	74.3	P/P	56 - 125
2356916	Naled	92.6	91.4	P/P	10 - 108
2356916	Napropamide	67.9	54.1	P/P	50 - 150
2356916	Norflurazon	91.7	94.1	P/P	32 - 122
2356916	Octinoxate	63.7	92.0	P/P	25 - 150
2356916	Oxadiazon	73.3	69.7	P/P	40 - 119
2356916	Oxybenzone	61.7	75.4	P/P	59 - 147
2356916	Oxyfluorfen	111	104	P/P	61 - 153
2356916	Parathion Ethyl	84.6	94.8	P/P	59 - 130
2356916	Parathion Methyl	93.0	121	P/P	65 - 155
2356916	PBDE-47	56.4	70.3	P/P	50 - 150
2356916	PBDE-99	44.4	55.1	F/P	50 - 150
2356916	Pendimethalin	75.4	81.6	P/P	49 - 138
2356916	Phenytoin	28.7	25.0	F/F	50 - 200
2356916	Phorate	76.1	70.2	P/P	54 - 161
2356916	Prodiamine	56.0	69.2	P/P	33 - 161
2356916	Prometon	77.4	81.1	P/P	48 - 140
2356916	Prometryn	67.8	68.7	P/P	55 - 134
2356916	Pronamide	95.1	98.7	P/P	66 - 137
2356916	Propanil	83.2	86.4	P/P	50 - 150
2356916	Propargite	59.2	45.2	P/F	50 - 200
2356916	Propiconazole	60.5	64.1	P/P	36 - 150
2356916	Pyraflufen Ethyl	58.2	60.6	P/P	50 - 150
2356916	Pyridaben	55.2	40.9	P/F	50 - 200
2356916	Pyriproxyfen	67.6	68.3	P/P	10 - 165
2356916	Simazine	82.6	95.1	P/P	57 - 145
2356916	Stirophos	51.1	31.4	P/F	50 - 150
2356916	Sulfentrazone	77.2	82.9	P/P	34 - 140
2356916	Tebuconazole	45.8	30.3	P/P	10 - 127
2356916	Terbufos	91.2	101	P/P	59 - 138
2356916	Terbuthylazine	88.0	99.1	P/P	68 - 119
2356916	Thiobencarb	76.3	85.5	P/P	50 - 150
2356916	Tri-o-cresyl Phosphate	60.2	84.9	P/P	50 - 150
2356916	Triadimefon	73.4	65.2	P/P	50 - 150

Reference Method: EPA 8321B
Batch ID: P419612

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356572	Acesulfame K	110	109	P/P	40 - 150
2356572	AMPA	103	94.6	P/P	40 - 150
2356572	Endothall	99.4	97.9	P/P	40 - 150
2356572	Glufosinate	85.8	91.8	P/P	40 - 150
2356572	Glyphosate	117	115	P/P	40 - 150
2356572	Sucralose	105	103	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P419841

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

Reference Method: EPA 8321B

Batch ID: P419841

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2356890	2,4-D	97.8	107	P/P	30 - 160
2356890	2,4,5-T	86.4	83.7	P/P	30 - 160
2356890	Acetaminophen	119	119	P/P	30 - 150
2356890	Acetamiprid	60.8	60.4	P/P	30 - 160
2356890	Afidopyropen	89.0	82.7	P/P	30 - 160
2356890	Benzovindiflupyr	79.8	79.4	P/P	30 - 160
2356890	Carbamazepine	69.7	70.2	P/P	30 - 160
2356890	Clothianidin	111	119	P/P	30 - 160
2356890	Dinotefuran	114	116	P/P	30 - 160
2356890	Diuron	51.9	50.9	P/P	30 - 160
2356890	Fenuron	96.6	94.4	P/P	30 - 160
2356890	Fluridone	96.5	88.1	P/P	30 - 160
2356890	Hydrocodone	100	101	P/P	30 - 160
2356890	Ibuprofen	81.4	92.6	P/P	30 - 160
2356890	Linuron	78.6	73.5	P/P	30 - 160
2356890	Mandestrobin	91.4	97.4	P/P	30 - 160
2356890	MCPP	89.3	96.1	P/P	30 - 160
2356890	Naproxen	102	95.2	P/P	30 - 160
2356890	Primidone	103	120	P/P	30 - 160
2356890	Pyraclostrobin	91.0	91.2	P/P	30 - 160
2356890	Silvex	85.6	89.3	P/P	30 - 160
2356890	Thiamethoxam	140	141	P/P	30 - 160
2356890	Tolfenpyrad	64.7	67.5	P/P	30 - 160
2356890	Triclopyr	79.8	94.7	P/P	30 - 160

Reference Method: SM 4500-F- C-2011

Batch ID: P420215

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357236	Fluoride	100	99.8	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P419944

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2357184	Organic Carbon	99.4	100	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P419734

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357232	Color (true)	2.20	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P419746

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357047	Turbidity	3.42	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P419802

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357289	Calcium	0.389	Spike	P	0 - 20
2357289	Iron	1.93	Spike	P	0 - 20
2357289	Magnesium	1.59	Spike	P	0 - 20
2357289	Potassium	0.258	Spike	P	0 - 20
2357289	Sodium	0.359	Spike	P	0 - 20
2357289	Strontium	0.731	Spike	P	0 - 20
2357289	Tin	0.0959	Spike	P	0 - 20
2357289	Titanium	0.204	Spike	P	0 - 20
2357289	Vanadium	0.354	Spike	P	0 - 20
2357289	Zinc	0.352	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P419802

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357289	Aluminum	0.373	Spike	P	0 - 20
2357289	Antimony	1.08	Spike	P	0 - 20
2357289	Arsenic	0.750	Spike	P	0 - 20
2357289	Barium	0.167	Spike	P	0 - 20
2357289	Beryllium	0.982	Spike	P	0 - 20
2357289	Boron	0.968	Spike	P	0 - 20
2357289	Cadmium	0.851	Spike	P	0 - 20
2357289	Chromium	0.403	Spike	P	0 - 20
2357289	Cobalt	0.156	Spike	P	0 - 20
2357289	Copper	0.479	Spike	P	0 - 20
2357289	Lead	0.487	Spike	P	0 - 20
2357289	Manganese	0.604	Spike	P	0 - 20
2357289	Molybdenum	0.0779	Spike	P	0 - 20
2357289	Nickel	0.0631	Spike	P	0 - 20
2357289	Selenium	2.47	Spike	P	0 - 20
2357289	Silver	0.603	Spike	P	0 - 20
2357289	Thallium	0.0495	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420089

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357095	Chloride	0.287	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P420094

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357095	Sulfate	0.287	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420112

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357046	Ammonia-N	0.888	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357285	Kjeldahl Nitrogen	3.15	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420164

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357237	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419947

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357504	Total-P	0.732	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P419736

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357154	O-Phosphate-P	1.43	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P419712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356916	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	28.6	Spike	P	0 - 30
2356916	Acetochlor	9.70	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P419712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356916	Alachlor	11.1	Spike	P	0 - 27
2356916	Ametryn	6.32	Spike	P	0 - 34
2356916	Atrazine	11.2	Spike	P	0 - 41
2356916	Atrazine Desethyl	20.3	Spike	P	0 - 38
2356916	Avobenzone	21.8	Spike	P	0 - 30
2356916	Azinphos Methyl	9.67	Spike	P	0 - 62
2356916	Azoxystrobin	28.5	Spike	P	0 - 32
2356916	Bromacil	9.57	Spike	P	0 - 30
2356916	Butylate	16.8	Spike	P	0 - 59
2356916	Caffeine	9.14	Spike	P	0 - 60
2356916	Carbophenothion	0.494	Spike	P	0 - 25
2356916	Carfentrazone Ethyl	5.59	Spike	P	0 - 26
2356916	Chlorfenapyr	0.890	Spike	P	0 - 30
2356916	Chlorpyrifos Ethyl	5.83	Spike	P	0 - 27
2356916	Chlorpyrifos Methyl	11.4	Spike	P	0 - 26
2356916	Coumaphos	17.5	Spike	P	0 - 30
2356916	Cyanazine	3.82	Spike	P	0 - 58
2356916	Cyprodinil	4.42	Spike	P	0 - 30
2356916	Dechlorane Plus	18.7	Spike	P	0 - 30
2356916	Demeton	17.2	Spike	P	0 - 25
2356916	Diazinon	12.3	Spike	P	0 - 29
2356916	Difenoconazole	13.5	Spike	P	0 - 25
2356916	Dimethenamid	2.37	Spike	P	0 - 30
2356916	Dimethomorph	54.0	Spike	F	0 - 30
2356916	Disulfoton	8.07	Spike	P	0 - 33
2356916	Dithiopyr	11.5	Spike	P	0 - 22
2356916	EPTC	21.6	Spike	P	0 - 38
2356916	Ethion	71.5	Spike	P	0 - 79
2356916	Ethoprop	7.85	Spike	P	0 - 23
2356916	Etridiazole	19.5	Spike	P	0 - 30
2356916	Fenamiphos	1.63	Spike	P	0 - 58
2356916	Fenbuconazole	6.19	Spike	P	0 - 37
2356916	Fipronil	1.43	Spike	P	0 - 33
2356916	Fipronil Desulfanyl	1.27	Spike	P	0 - 26
2356916	Fipronil Sulfide	9.09	Spike	P	0 - 37
2356916	Fipronil Sulfone	1.34	Spike	P	0 - 50
2356916	Fluazifop-P-butyl	3.54	Spike	P	0 - 24
2356916	Fludioxonil	3.23	Spike	P	0 - 26
2356916	Flumioxazin	3.28	Spike	P	0 - 37
2356916	Flutolanil	6.72	Spike	P	0 - 26
2356916	Fluxapyroxad	10.1	Spike	P	0 - 34
2356916	Fonofos	4.12	Spike	P	0 - 27
2356916	Hexazinone	6.19	Spike	P	0 - 36
2356916	Imazalil	10.4	Spike	P	0 - 65
2356916	Iprodione	1.62	Spike	P	0 - 33
2356916	Loratadine	52.5	Spike	F	0 - 30
2356916	Malathion	5.23	Spike	P	0 - 44
2356916	Metalaxyl	0.904	Spike	P	0 - 38
2356916	Metolachlor	4.83	Spike	P	0 - 36
2356916	Metribuzin	18.7	Spike	P	0 - 63
2356916	Mevinphos	13.5	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P419712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356916	Molinate	6.61	Spike	P	0 - 40
2356916	Myclobutanil	10.2	Spike	P	0 - 21
2356916	Naled	1.29	Spike	P	0 - 26
2356916	Napropamide	22.7	Spike	P	0 - 30
2356916	Norflurazon	1.50	Spike	P	0 - 24
2356916	Octinoxate	36.4	Spike	F	0 - 30
2356916	Oxadiazon	5.03	Spike	P	0 - 27
2356916	Oxybenzone	20.0	Spike	P	0 - 30
2356916	Oxyfluorfen	6.13	Spike	P	0 - 24
2356916	Parathion Ethyl	11.4	Spike	P	0 - 28
2356916	Parathion Methyl	25.9	Spike	P	0 - 27
2356916	PBDE-47	21.9	Spike	P	0 - 30
2356916	PBDE-99	21.4	Spike	P	0 - 30
2356916	Pendimethalin	7.83	Spike	P	0 - 31
2356916	Phenytoin	13.9	Spike	P	0 - 30
2356916	Phorate	7.99	Spike	P	0 - 27
2356916	Prodiamine	21.0	Spike	P	0 - 52
2356916	Prometon	4.73	Spike	P	0 - 31
2356916	Prometryn	1.31	Spike	P	0 - 28
2356916	Pronamide	3.72	Spike	P	0 - 26
2356916	Propanil	3.74	Spike	P	0 - 30
2356916	Propargite	26.9	Spike	P	0 - 30
2356916	Propiconazole	5.81	Spike	P	0 - 31
2356916	Pyraflufen Ethyl	4.20	Spike	P	0 - 30
2356916	Pyridaben	29.7	Spike	P	0 - 30
2356916	Pyriproxyfen	0.962	Spike	P	0 - 50
2356916	Simazine	14.0	Spike	P	0 - 29
2356916	Stirophos	47.8	Spike	F	0 - 30
2356916	Sulfentrazone	7.10	Spike	P	0 - 33
2356916	Tebuconazole	40.7	Spike	P	0 - 44
2356916	Terbufos	10.4	Spike	P	0 - 29
2356916	Terbutylazine	11.8	Spike	P	0 - 27
2356916	Thiobencarb	11.4	Spike	P	0 - 30
2356916	Tri-o-cresyl Phosphate	34.0	Spike	F	0 - 30
2356916	Triadimefon	11.8	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P419612

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356572	Acesulfame K	0.921	Spike	P	0 - 30
2356572	AMPA	8.03	Spike	P	0 - 30
2356572	Endothall	1.60	Spike	P	0 - 30
2356572	Glufosinate	6.78	Spike	P	0 - 30
2356572	Glyphosate	2.29	Spike	P	0 - 30
2356572	Sucralose	1.06	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
 Batch ID: P419841

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2356890	2,4-D	6.97	Spike	P	0 - 30
2356890	2,4,5-T	3.17	Spike	P	0 - 30
2356890	Acetaminophen	0.0925	Spike	P	0 - 30
2356890	Acetamiprid	0.694	Spike	P	0 - 30
2356890	Afidopyropen	7.44	Spike	P	0 - 30
2356890	Bentazon	1.63	Spike	P	0 - 30
2356890	Benzovindiflupyr	0.440	Spike	P	0 - 30
2356890	Carbamazepine	0.686	Spike	P	0 - 30
2356890	Clothianidin	6.91	Spike	P	0 - 30
2356890	Dinotefuran	0.974	Spike	P	0 - 30
2356890	Diuron	1.96	Spike	P	0 - 30
2356890	Fenuron	2.20	Spike	P	0 - 30
2356890	Fluridone	7.75	Spike	P	0 - 30
2356890	Hydrocodone	0.537	Spike	P	0 - 30
2356890	Ibuprofen	12.9	Spike	P	0 - 30
2356890	Imazapyr	3.93	Spike	P	0 - 30
2356890	Imidacloprid	0.550	Spike	P	0 - 30
2356890	Linuron	6.80	Spike	P	0 - 30
2356890	Mandestrobin	6.27	Spike	P	0 - 30
2356890	MCP	7.32	Spike	P	0 - 30
2356890	Naproxen	7.02	Spike	P	0 - 30
2356890	Primidone	15.9	Spike	P	0 - 30
2356890	Pyraclostrobin	0.318	Spike	P	0 - 30
2356890	Silvex	4.30	Spike	P	0 - 30
2356890	Thiamethoxam	0.00712	Spike	P	0 - 30
2356890	Tolfenpyrad	4.15	Spike	P	0 - 30
2356890	Triclopyr	17.1	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
 Batch ID: P420276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357377	Total Alkalinity	1.48	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
 Batch ID: P420189

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357236	TDS	6.69	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
 Batch ID: P420215

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357236	Fluoride	0.479	Spike	P	0 - 1.6

Quality Assurance Report

Precision

Reference Method: SM 5310 B-2011
Batch ID: P419944

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2357184	Organic Carbon	0.656	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2357288

Field Sample ID: G3NW0223

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	119	P	30 - 160
EPA 8321B	Carbamazepine-d10	73.9	P	30 - 160
EPA 8321B	Diuron-d6	70.7	P	30 - 160
EPA 8321B	Endothall-d6	86.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	94.7	P	30 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Sucralose-d6	107	P	30 - 160

Lab Sample ID: 2357290

Field Sample ID: G3NW0223

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	57.1	P	20 - 200
EPA 8270E	Simazine-d10	101	P	71 - 140
EPA 8270E	Terbufos-d10	95.8	P	62 - 131
EPA 8270E	Terphenyl-d14	86.0	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114696
Included Lab Sample IDs: 2357290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Flumioxazin	89.8		P	80 - 120

Reference Method: DEP SOP: NU-094-1
Run ID: A114787
Included Lab Sample IDs: 2357284

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A114788
Included Lab Sample IDs: 2357286

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.4	97.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A114790
Included Lab Sample IDs: 2357284

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: EPA 8321B
Run ID: A114851
Included Lab Sample IDs: 2357288

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	105	107	P/P	60 - 160
Endothall	74.9	80.6	P/P	60 - 160
Glufosinate	73.0	75.6	P/P	60 - 160
Glyphosate	108	114	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A114853
Included Lab Sample IDs: 2357288

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	120	120	P/P	60 - 160
Sucralose	107	107	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A114857
Included Lab Sample IDs: 2357284

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

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A114868

Included Lab Sample IDs: 2357285

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.6	95.9	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114903

Included Lab Sample IDs: 2357289

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.8	100	P/P	90 - 110
Antimony	97.3	97.8	P/P	90 - 110
Arsenic	98.0	98.5	P/P	90 - 110
Barium	98.2	97.9	P/P	90 - 110
Beryllium	96.9	95.3	P/P	90 - 110
Boron	97.4	98.6	P/P	90 - 110
Cadmium	97.8	99.3	P/P	90 - 110
Chromium	95.5	97.7	P/P	90 - 110
Cobalt	97.9	99.5	P/P	90 - 110
Copper	96.3	97.4	P/P	90 - 110
Lead	96.3	96.4	P/P	90 - 110
Manganese	96.6	99.1	P/P	90 - 110
Molybdenum	96.9	97.0	P/P	90 - 110
Nickel	97.4	98.6	P/P	90 - 110
Selenium	98.5	98.5	P/P	90 - 110
Silver	98.4	99.4	P/P	90 - 110
Thallium	93.1	94.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114916

Included Lab Sample IDs: 2357288

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	101	111	P/P	50 - 150
2,4,5-T	114	112	P/P	50 - 150
Acetaminophen	114	110	P/P	60 - 160
Acetamiprid	104	103	P/P	50 - 150
Afidopyropen	107	112	P/P	50 - 150
Bentazon	109	99.2	P/P	50 - 160
Benzovindiflupyr	113	119	P/P	50 - 160
Carbamazepine	110	107	P/P	60 - 150
Clothianidin	113	104	P/P	60 - 150
Dinotefuran	110	112	P/P	50 - 150
Diuron	116	113	P/P	60 - 160
Fenuron	106	106	P/P	60 - 150
Fluridone	112	110	P/P	60 - 160
Hydrocodone	109	117	P/P	60 - 150
Ibuprofen	109	142	P/P	50 - 160
Imazapyr	98.5	99.0	P/P	50 - 150
Imidacloprid	103	100	P/P	60 - 150
Linuron	100	109	P/P	60 - 150
Mandestrobin	116	111	P/P	50 - 150
MCPP	93.6	101	P/P	50 - 150
Naproxen	105	86.5	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A114916
Included Lab Sample IDs: 2357288

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Primidone	93.9	106	P/P	60 - 150
Pyraclostrobin	107	109	P/P	60 - 150
Silvex	103	104	P/P	50 - 150
Thiamethoxam	108	111	P/P	50 - 150
Tolfenpyrad	116	118	P/P	60 - 150
Triclopyr	91.5	106	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114921
Included Lab Sample IDs: 2357285

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	95.2	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A114926
Included Lab Sample IDs: 2357290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.8		P	80 - 120
Alachlor	97.8		P	80 - 120
Ametryn	91.4		P	80 - 120
Atrazine	95.1		P	80 - 120
Atrazine Desethyl	91.3		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Azoxystrobin	97.4		P	80 - 120
Bromacil	94.0		P	80 - 120
Butylate	98.4		P	80 - 120
Caffeine	99.3		P	80 - 120
Carbophenothion	96.6		P	80 - 120
Carfentrazone Ethyl	96.9		P	80 - 120
Chlorfenapyr	92.1		P	80 - 120
Chlorpyrifos Ethyl	94.6		P	80 - 120
Chlorpyrifos Methyl	94.5		P	80 - 120
Coumaphos	89.4		P	80 - 120
Cyanazine	91.8		P	80 - 120
Cyprodinil	96.6		P	80 - 120
Demeton	96.8		P	80 - 120
Diazinon	97.5		P	80 - 120
Difenoconazole	93.3		P	80 - 120
Dimethenamid	95.9		P	80 - 120
Dimethomorph	98.5		P	80 - 120
Disulfoton	92.6		P	80 - 120
Dithiopyr	92.1		P	80 - 120
EPTC	99.3		P	80 - 120
Ethion	99.2		P	80 - 120
Ethoprop	96.7		P	80 - 120
Etridiazole	96.2		P	80 - 120
Fenamiphos	97.3		P	80 - 120
Fenbuconazole	92.1		P	80 - 120
Fipronil	97.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114926
Included Lab Sample IDs: 2357290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil Desulfinyl	95.5		P	80 - 120
Fipronil Sulfide	98.4		P	80 - 120
Fipronil Sulfone	93.9		P	80 - 120
Fluazifop-P-butyl	97.2		P	80 - 120
Fludioxonil	98.0		P	80 - 120
Flutolanil	97.2		P	80 - 120
Fluxapyroxad	93.4		P	80 - 120
Fonofos	97.5		P	80 - 120
Hexazinone	97.6		P	80 - 120
Imazalil	95.4		P	80 - 120
Iprodione	94.4		P	80 - 120
Loratadine	97.2		P	80 - 120
Malathion	94.3		P	80 - 120
Metalaxyl	95.7		P	80 - 120
Metolachlor	99.0		P	80 - 120
Metribuzin	98.9		P	80 - 120
Mevinphos	90.0		P	80 - 120
Molinate	99.4		P	80 - 120
Myclobutanil	97.3		P	80 - 120
Naled	95.6		P	80 - 120
Napropamide	98.1		P	80 - 120
Norflurazon	91.1		P	80 - 120
Oxadiazon	96.7		P	80 - 120
Oxyfluorfen	99.2		P	80 - 120
Parathion Ethyl	99.0		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	104		P	80 - 120
Phenytoin	93.8		P	80 - 120
Phorate	97.7		P	80 - 120
Prodiamine	97.2		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	97.9		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	102		P	80 - 120
Propargite	96.2		P	80 - 120
Propiconazole	93.6		P	80 - 120
Pyraflufen Ethyl	93.3		P	80 - 120
Pyridaben	96.0		P	80 - 120
Pyriproxyfen	97.9		P	80 - 120
Simazine	97.1		P	80 - 120
Stirophos	94.2		P	80 - 120
Sulfentrazone	86.6		P	80 - 120
Tebuconazole	96.2		P	80 - 120
Terbufos	98.8		P	80 - 120
Terbutylazine	101		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	95.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114942

Included Lab Sample IDs: 2357285

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.6	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114960

Included Lab Sample IDs: 2357285

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	93.5	92.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A114980

Included Lab Sample IDs: 2357284

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	97.1	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A115007

Included Lab Sample IDs: 2357284

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.5	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A115017

Included Lab Sample IDs: 2357289

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	98.2	96.6	P/P	90 - 110
Iron	99.9	99.5	P/P	90 - 110
Magnesium	97.9	97.1	P/P	90 - 110
Potassium	98.6	98.0	P/P	90 - 110
Sodium	102	101	P/P	90 - 110
Strontium	99.3	100	P/P	90 - 110
Tin	95.5	95.2	P/P	90 - 110
Titanium	98.9	99.0	P/P	90 - 110
Vanadium	98.0	97.4	P/P	90 - 110
Zinc	95.0	94.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115027

Included Lab Sample IDs: 2357285

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

Reference Method: EPA 8270E

Run ID: A115064

Included Lab Sample IDs: 2357290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A115064
Included Lab Sample IDs: 2357290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	100		P	80 - 120
Avobenzene	98.0		P	80 - 120
Dechlorane Plus	101		P	80 - 120
Octinoxate	97.4		P	80 - 120
Oxybenzone	96.6		P	80 - 120
PBDE-47	97.0		P	80 - 120
PBDE-99	101		P	80 - 120
Tri-o-cresyl Phosphate	98.1		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)	102				2.20	
EPA 180.1 Rev. 2.0	Turbidity	100				3.42	
EPA 200.7 Rev. 4.4	Calcium	103	99.5	98.9	98.5		0.389
	Iron	102	104	102	101		1.93
	Magnesium	102	102	100	102		1.59
	Potassium	103	101	101	101		0.258
	Sodium	106	99.6	99.0	103		0.359
	Strontium	101	105	104	103		0.731
	Tin	98.4	101	101	98.4		0.0959
	Titanium	99.9	102	102	100		0.204
	Vanadium	99.4	100	100	99.3		0.354
	Zinc	96.6	96.5	96.1	95.6		0.352
EPA 200.8 Rev. 5.4	Aluminum	102	98.5	98.1	100		0.373
	Antimony	104	101	100	99.8		1.08
	Arsenic	102	99.8	99.1	100		0.750
	Barium	105	101	100	101		0.167
	Beryllium	92.8	91.1	90.1	89.9		0.982
	Boron	105	100	101	104		0.968
	Cadmium	102	98.6	99.4	99.3		0.851
	Chromium	102	99.9	100	100		0.403
	Cobalt	104	101	101	102		0.156
	Copper	101	98.9	99.4	100		0.479
	Lead	97.4	96.1	95.6	95.6		0.487
	Manganese	104	98.3	99.2			0.604
	Molybdenum	99.0	96.2	96.1	96.7		0.0779
	Nickel	102	99.8	99.8	101		0.0631
	Selenium	101	98.3	95.9	98.0		2.47
	Silver	87.3	83.2	83.7	84.2		0.603
	Thallium	96.2	95.3	95.3	93.9		0.0495
EPA 300.0 Rev. 2.1	Chloride	103	101	101		0.287	
	Sulfate	103	98.8	99.0		0.287	
EPA 350.1 Rev. 2.0	Ammonia-N	95.2	102	103			0.888
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106	97.5	101			3.15
EPA 353.2 Rev. 2.0	NO2NO3-N	92.0	91.8	91.8			0.0
EPA 365.1 Rev. 2.0	Total-P	100	101	102			0.732
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.6	91.3	90.0			1.43
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	80.3	43.8	58.5			28.6
	Acetochlor	97.5	90.5	99.8			9.70
	Alachlor	93.5	81.8	91.4			11.1
	Ametryn	83.3	67.8	76.4			6.32
	Atrazine	98.2	89.2	103			11.2
	Atrazine Desethyl	59.7	56.3	69.1			20.3
	Avobenzone	76.0	61.9	77.1			21.8
	Azinphos Methyl	138	105	115			9.67
	Azoxystrobin	136	98.5	139			28.5
	Bromacil	68.4	79.1	94.0			9.57
	Butylate	58.5	34.7	41.0			16.8
	Caffeine	78.0	84.1	76.5			9.14
	Carbophenothion	90.3	76.6	76.2			0.494
	Carfentrazone Ethyl	95.2	81.4	76.9			5.59
	Chlorfenapyr	81.1	64.0	64.6			0.890
	Chlorpyrifos Ethyl	91.4	71.7	67.7			5.83

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	98.4	72.2	81.0		11.4
	Coumaphos	82.3	39.0	32.8		17.5
	Cyanazine	87.6	74.2	77.1		3.82
	Cyprodinil	92.5	73.1	69.9		4.42
	Dechlorane Plus	95.1	54.4	65.7		18.7
	Demeton	92.2	89.4	106		17.2
	Diazinon	98.1	90.4	102		12.3
	Difenoconazole	88.1	100	87.6		13.5
	Dimethenamid	67.6	71.2	69.5		2.37
	Dimethomorph	182	109	189		54.0
	Disulfoton	98.2	77.7	84.3		8.07
	Dithiopyr	86.1	62.2	70.6		11.5
	EPTC	52.8	33.1	41.1		21.6
	Ethion	36.1	76.7	36.3		71.5
	Ethoprop	90.5	80.9	87.5		7.85
	Etridiazole	58.0	50.6	61.6		19.5
	Fenamiphos	96.6	79.7	78.4		1.63
	Fenbuconazole	86.6	78.8	83.8		6.19
	Fipronil	89.1	86.7	87.9		1.43
	Fipronil Desulfinyl	85.6	74.8	75.7		1.27
	Fipronil Sulfide	67.9	65.9	72.1		9.09
	Fipronil Sulfone	80.1	74.5	75.5		1.34
	Fluazifop-P-butyl	86.3	78.4	75.6		3.54
	Fludioxonil	82.8	76.4	73.9		3.23
	Flumioxazin	106	120	117		3.28
	Flutolanil	82.4	73.9	69.0		6.72
	Fluxapyroxad	60.7	68.9	62.3		10.1
	Fonofos	84.1	71.0	74.0		4.12
	Hexazinone	87.4	97.2	103		6.19
	Imazalil	89.9	100	90.4		10.4
	Iprodione	90.5	81.9	80.6		1.62
	Loratadine	180	103	176		52.5
	Malathion	104	84.0	88.5		5.23
	Metalaxyl	87.2	75.1	75.9		0.904
	Metolachlor	93.3	80.8	84.8		4.83
	Metribuzin	107	86.8	105		18.7
	Mevinphos	70.8	63.2	72.3		13.5
	Molinate	75.7	64.6	60.4		6.61
	Myclobutanil	81.4	82.3	74.3		10.2
	Naled	77.9	92.6	91.4		1.29
	Napropamide	65.8	67.9	54.1		22.7
	Norflurazon	74.3	91.7	94.1		1.50
	Octinoxate	88.9	63.7	92.0		36.4
	Oxadiazon	72.9	73.3	69.7		5.03
	Oxybenzone	83.1	61.7	75.4		20.0
	Oxyfluorfen	113	111	104		6.13
	Parathion Ethyl	99.6	84.6	94.8		11.4
	Parathion Methyl	115	93.0	121		25.9
	PBDE-47	67.3	56.4	70.3		21.9
	PBDE-99	76.0	44.4	55.1		21.4
	Pendimethalin	83.7	75.4	81.6		7.83
	Phenytoin	11.3	28.7	25.0		13.9
	Phorate	77.3	76.1	70.2		7.99
	Prodiamine	59.2	56.0	69.2		21.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Prometon	68.0	77.4	81.1		4.73
	Prometryn	84.5	67.8	68.7		1.31
	Pronamide	101	95.1	98.7		3.72
	Propanil	86.3	83.2	86.4		3.74
	Propargite	41.1	59.2	45.2		26.9
	Propiconazole	75.7	60.5	64.1		5.81
	Pyraflufen Ethyl	75.2	58.2	60.6		4.20
	Pyridaben	96.0	55.2	40.9		29.7
	Pyriproxyfen	77.5	67.6	68.3		0.962
	Simazine	89.2	82.6	95.1		14.0
	Stirophos	43.1	51.1	31.4		47.8
	Sulfentrazone	36.8	77.2	82.9		7.10
	Tebuconazole	31.7	45.8	30.3		40.7
	Terbufos	109	91.2	101		10.4
	Terbuthylazine	94.4	88.0	99.1		11.8
	Thiobencarb	91.7	76.3	85.5		11.4
	Tri-o-cresyl Phosphate	82.3	60.2	84.9		34.0
	Triadimefon	78.5	73.4	65.2		11.8
EPA 8321B	2,4-D	71.6	97.8	107		6.97
	2,4,5-T	65.9	86.4	83.7		3.17
	Acesulfame K	115	110	109		0.921
	Acetaminophen	99.5	119	119		0.0925
	Acetamiprid	86.2	60.8	60.4		0.694
	Afidopyropen	71.1	89.0	82.7		7.44
	AMPA	105	103	94.6		8.03
	Bentazon	90.7				1.63
	Benzovindiflupyr	84.4	79.8	79.4		0.440
	Carbamazepine	87.7	69.7	70.2		0.686
	Clothianidin	98.6	111	119		6.91
	Dinotefuran	105	114	116		0.974
	Diuron	58.8	51.9	50.9		1.96
	Endothall	98.0	99.4	97.9		1.60
	Fenuron	107	96.6	94.4		2.20
	Fluridone	92.4	96.5	88.1		7.75
	Glufosinate	97.9	85.8	91.8		6.78
	Glyphosate	113	117	115		2.29
	Hydrocodone	96.5	100	101		0.537
	Ibuprofen	84.4	81.4	92.6		12.9
	Imazapyr	91.7				3.93
	Imidacloprid	93.3				0.550
	Linuron	91.9	78.6	73.5		6.80
	Mandestrobin	95.2	91.4	97.4		6.27
	MCPP	78.9	89.3	96.1		7.32
	Naproxen	81.2	102	95.2		7.02
	Primidone	95.1	103	120		15.9
	Pyraclostrobin	82.2	91.0	91.2		0.318
	Silvex	61.4	85.6	89.3		4.30
	Sucralose	110	105	103		1.06
	Thiamethoxam	92.7	140	141		0.0071
	Tolfenpyrad	64.9	64.7	67.5		4.15
	Triclopyr	64.4	79.8	94.7		17.1
SM 2320 B-2011	Total Alkalinity	95.7			1.48	
SM 2540 C-2011	TDS				6.69	
SM 4500-F- C-2011	Fluoride	99.9	100	99.8		0.479

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
SM 5310 B-2011	Organic Carbon	95.0	99.4 100			0.656

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2357284
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2357284
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2357289
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2357289
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2357284
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2357284
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2357285
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2357285
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2357285
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2357285
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2357286
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2357290
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2357290
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2357288
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2357284
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2357289
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2357284
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2357284
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2357284
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2357285

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	09/16/2022			09/16/2022 14:35	Samantha L Bates	2357284
EPA 180.1 Rev. 2.0	09/16/2022			09/16/2022 14:43	Chandler E Cox	2357284
EPA 200.7 Rev. 4.4	09/16/2022	09/20/2022 08:20	Megan Whitefoot	09/28/2022 21:22	Betina Topolski	2357289
EPA 200.8 Rev. 5.4	09/16/2022	09/20/2022 08:20	Megan Whitefoot	09/22/2022 15:37	Alexander Thompson	2357289
EPA 300.0 Rev. 2.1	09/16/2022			09/23/2022 08:06	Anna M. Plaviak	2357284
EPA 350.1 Rev. 2.0	09/16/2022			09/26/2022 13:30	Judith K. Clark	2357285
EPA 351.2 Rev. 2.0	09/16/2022	09/22/2022 09:22	Alexandra J Mattheus	09/29/2022 11:26	Samantha L Bates	2357285
EPA 353.2 Rev. 2.0	09/16/2022			09/27/2022 12:13	Beverly Y. Sanders	2357285
EPA 365.1 Rev. 2.0	09/16/2022	09/22/2022 14:19	Adam P Silver	09/23/2022 14:28	James L Waggeberby	2357285
EPA 365.1 Rev. 2.0 dissolved	09/16/2022			09/16/2022 14:40	Elise M. Gillis	2357286
EPA 8270E	09/16/2022	09/19/2022 08:00	Fe-Val Siddell	09/22/2022 21:16	Michael Poppell	2357290
	09/16/2022	09/19/2022 08:00	Fe-Val Siddell	09/26/2022 05:11	Michael Poppell	2357290
	09/16/2022	09/19/2022 08:00	Fe-Val Siddell	09/29/2022 22:13	Lipi Saha	2357290
EPA 8321B	09/16/2022	09/16/2022 13:00	Umesh Chiluwal	09/17/2022 03:54	Umesh Chiluwal	2357288
	09/16/2022	09/16/2022 13:00	Umesh Chiluwal	09/19/2022 16:23	Umesh Chiluwal	2357288
	09/16/2022	09/21/2022 08:45	June Rhew	09/22/2022 19:10	Juyoung Kim	2357288
SM 2320 B-2011	09/16/2022			09/28/2022 21:46	Adam P Silver	2357284
SM 2340 B-2011	09/16/2022			09/28/2022 21:22	Betina Topolski	2357289
SM 2540 C-2011	09/16/2022			09/20/2022 15:08	Yijie Li	2357284
SM 2540 D-2011	09/16/2022			09/20/2022 15:08	Yijie Li	2357284
SM 4500-F- C-2011	09/16/2022			09/28/2022 02:34	Adam P Silver	2357284
SM 5310 B-2011	09/16/2022			09/21/2022 20:00	Khloe J Berg	2357285