

Chemical Analysis Report

NE-DIST-2022-08-31-01

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

Event Description: **Nassau Lakes & Sampson LVI**
Request ID: **RQ-2022-08-15-31**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
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Jacksonville, FL 32256
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 19-SEP-2022 12:55



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: Lake Sampson Center

Collection Date/Time: 08/30/2022 10:20

Field ID: G1NE0936

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353315	DEP SOP: NU-094-1	Color (true)	38		PCU	P418965	
	EPA 180.1 Rev. 2.0	Turbidity	11		NTU	P418947	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P419470	
		Sulfate	9.4		mg SO4/L	P419473	
	SM 2320 B-2011	Total Alkalinity	23		mg CaCO3/L	P419035	
	SM 2540 C-2011	TDS	81		mg/L	P419428	
	SM 2540 D-2011	TSS	12		mg/L	P419318	
	SM 4500-F- C-2011	Fluoride	0.059	I	mg F/L	P419623	
2353316	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P419157	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P419097	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P419294	
	EPA 365.1 Rev. 2.0	Total-P	0.060		mg P/L	P419040	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P419186	
2353317	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P418943	
2353327	EPA 8321B	2,4-D	0.0023	I	ug/L	P418839	
		Acesulfame K	0.10	U	ug/L	P418802	
		2,4,5-T	0.0040	U	ug/L	P418839	
		AMPA	0.10	U	ug/L	P418802	
		Acetaminophen	0.0080	U	ug/L	P418839	
		Acetamiprid	0.0020	U	ug/L	P418839	
		Endothall	0.25	U	ug/L	P418802	
		Glufosinate	0.10	U	ug/L	P418802	
		Glyphosate	0.10	U	ug/L	P418802	
		Afidopyrophen	0.0020	U	ug/L	P418839	
		Bentazon	8.0E-04	U	ug/L	P418839	
		Sucralose	0.98		ug/L	P418802	
		Benzovindiflupyr	0.0020	U	ug/L	P418839	
		Carbamazepine	0.0018	I	ug/L	P418839	
		Clothianidin	0.0020	U	ug/L	P418839	
		Dinotefuran	0.0020	U	ug/L	P418839	
		Diuron	0.0020	U	ug/L	P418839	
		Fenuron	0.032	U	ug/L	P418839	
		Fluridone	0.024		ug/L	P418839	
		Imazapyr	0.016		ug/L	P418839	
		Hydrocodone	0.0020	U	ug/L	P418839	
		Ibuprofen	0.080	U	ug/L	P418839	
		Imidacloprid	0.0020	U	ug/L	P418839	
		Linuron	0.0040	U	ug/L	P418839	
		Mandestrobin	0.0020	U	ug/L	P418839	
		MCPD	0.0040	U	ug/L	P418839	
		Naproxen	0.0080	U	ug/L	P418839	
		Primidone	0.0040	U	ug/L	P418839	
		Pyraclostrobin	0.0020	U	ug/L	P418839	

MS

Field ID: G1NE0936

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353327	EPA 8321B	Silvex	0.0040	U	ug/L	P418839	
		Thiamethoxam	0.0020	U	ug/L	P418839	
		Tolfenpyrad	0.0020	U	ug/L	P418839	
		Triclopyr	0.0040	U	ug/L	P418839	
2353330	EPA 200.7 Rev. 4.4	Calcium	11.9		mg/L	P418968	
		Iron	240		ug/L	P418968	
		Magnesium	1.76		mg/L	P418968	
		Potassium	1.4		mg/L	P418968	
		Sodium	7.5		mg/L	P418968	
		Strontium	29.1		ug/L	P418968	
		Tin	3.0	U	ug/L	P418968	
		Titanium	0.75	U	ug/L	P418968	
		Vanadium	2.0	U	ug/L	P418968	
		Zinc	5.0	U	ug/L	P418968	
	EPA 200.8 Rev. 5.4	Aluminum	149		ug/L	P418968	
		Antimony	0.050	U	ug/L	P418968	
		Arsenic	0.58		ug/L	P418968	
		Barium	33.9		ug/L	P418968	
		Beryllium	0.010	I	ug/L	P418968	
		Boron	10.7		ug/L	P418968	
		Cadmium	0.020	U	ug/L	P418968	
		Chromium	0.40	U	ug/L	P418968	
		Cobalt	1.19		ug/L	P418968	
		Copper	0.40	U	ug/L	P418968	
		Lead	0.47		ug/L	P418968	
		Manganese	52.2		ug/L	P418968	
		Molybdenum	0.42	I	ug/L	P418968	
		Nickel	1.1	I	ug/L	P418968	
		Selenium	0.20	U	ug/L	P418968	
		Silver	0.010	U	ug/L	P418968	
		Thallium	0.10	U	ug/L	P418968	
	SM 2340 B-2011	Hardness	36.9		mg/L	P418968	
2353331	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P418990	
		Acetochlor	0.24	U	ng/L	P418990	RPD
		Octinoxate**	19	U	ng/L	P418990	
		Alachlor	0.24	U	ng/L	P418990	RPD
		Avobenzone**	96	U	ng/L	P418990	RPD
		Ametryn	0.58	U	ng/L	P418990	
		Atrazine	13		ng/L	P418990	
		PBDE-47**	3.8	U	ng/L	P418990	
		Atrazine Desethyl	2.1	I	ng/L	P418990	
		PBDE-99**	4.8	U	ng/L	P418990	
		Azinphos Methyl	1.9	U	ng/L	P418990	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P418990	
		Azoxystrobin	0.48	U	ng/L	P418990	

Field ID: G1NE0936

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353331	EPA 8270E	Bromacil	1.1	I	ng/L	P418990	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P418990	
		Butylate	0.38	U	ng/L	P418990	
		Dechlorane Plus**	29	U	ng/L	P418990	RPD
		Caffeine**	7.7	I	ng/L	P418990	
		Carbophenothion	0.19	U	ng/L	P418990	RPD
		Carfentrazone Ethyl	0.096	U	ng/L	P418990	RPD
		Chlorfenapyr	0.17	U	ng/L	P418990	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P418990	
		Chlorpyrifos Methyl	0.048	U	ng/L	P418990	RPD
		Coumaphos	0.48	U	ng/L	P418990	RPD
		Cyanazine	3.1	U	ng/L	P418990	
		Cyprodinil	0.096	U	ng/L	P418990	
		Demeton	1.4	U	ng/L	P418990	RPD
		Diazinon	0.12	U	ng/L	P418990	RPD
		Difenoconazole	0.58	U	ng/L	P418990	RPD
		Dimethenamid	0.096	U	ng/L	P418990	MS, RPD
		Dimethomorph	0.17	U	ng/L	P418990	RPD
		Disulfoton	0.48	U	ng/L	P418990	
		Dithiopyr	0.21	IV	ng/L	P418990	RPD
		EPTC	1.2	U	ng/L	P418990	
		Ethion	0.14	U	ng/L	P418990	
		Ethoprop	0.096	U	ng/L	P418990	
		Etridiazole	0.14	U	ng/L	P418990	MS, RPD
		Fenamiphos	0.48	U	ng/L	P418990	
		Fenbuconazole	0.12	U	ng/L	P418990	
		Fipronil	0.24	U	ng/L	P418990	
		Fipronil Desulfinyl**	0.12	U	ng/L	P418990	RPD
		Fipronil Sulfide	0.15	I	ng/L	P418990	
		Fipronil Sulfone	0.17	I	ng/L	P418990	
		Fluazifop-P-butyl	0.096	U	ng/L	P418990	RPD
		Fludioxonil	0.12	U	ng/L	P418990	RPD
		Flumioxazin	1.7	U	ng/L	P418990	
		Flutolanil	0.096	U	ng/L	P418990	RPD
		Fluxapyroxad	0.096	U	ng/L	P418990	
		Fonofos	0.19	U	ng/L	P418990	RPD
		Hexazinone	1.4	I	ng/L	P418990	
		Imazalil	0.72	UJ	ng/L	P418990	LCS, MS, RPD
		Iprodione	0.58	U	ng/L	P418990	
		Loratadine**	0.096	U	ng/L	P418990	RPD
		Malathion	0.34	U	ng/L	P418990	
		Metalaxyl	0.72	U	ng/L	P418990	
		Metolachlor	0.58	I	ng/L	P418990	
		Metribuzin	2.4	U	ng/L	P418990	

Field ID: G1NE0936

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353331	EPA 8270E	Mevinphos	1.0	U	ng/L	P418990	
		Molinate	0.29	U	ng/L	P418990	
		Myclobutanil	0.24	U	ng/L	P418990	RPD
		Naled	1.4	U	ng/L	P418990	RPD
		Napropamide	0.38	U	ng/L	P418990	
		Norflurazon	0.48	U	ng/L	P418990	
		Oxadiazon	0.29	U	ng/L	P418990	RPD
		Oxyfluorfen	0.14	U	ng/L	P418990	RPD
		Parathion Ethyl	0.24	U	ng/L	P418990	RPD
		Parathion Methyl	0.53	U	ng/L	P418990	RPD
		Pendimethalin	0.96	U	ng/L	P418990	
		Phenytoin**	3.4	U	ng/L	P418990	
		Phorate	0.50	U	ng/L	P418990	
		Prodiamine	0.17	U	ng/L	P418990	
		Prometon	0.86	U	ng/L	P418990	RPD
		Prometryn	0.19	U	ng/L	P418990	RPD
		Pronamide	0.14	U	ng/L	P418990	
		Propanil	0.12	U	ng/L	P418990	
		Propargite	1.4	U	ng/L	P418990	RPD
		Propiconazole	0.48	U	ng/L	P418990	
		Pyraflufen Ethyl	0.24	U	ng/L	P418990	RPD
		Pyridaben	1.4	I	ng/L	P418990	RPD
		Pyriproxyfen	0.12	U	ng/L	P418990	
		Simazine	0.48	U	ng/L	P418990	
		Stirophos	0.12	U	ng/L	P418990	
		Sulfentrazone	0.48	U	ng/L	P418990	
		Tebuconazole	0.48	U	ng/L	P418990	
		Terbufos	0.096	U	ng/L	P418990	
		Terbuthylazine	0.41	U	ng/L	P418990	MS, RPD
		Thiobencarb	0.58	U	ng/L	P418990	
		Triadimefon	0.24	U	ng/L	P418990	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8270E: V - Due to the presence of dithiopyr in both the Method Blank 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: P418965

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418947

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418968

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: P418968

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: P419470

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: P419473

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419157

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419097

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419294

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419040

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P418943

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

Reference Method: EPA 8270E
Batch ID: P418990

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: P418990

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	0.21	I	ng/L
Dithiopyr	0.18	U	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: P418990

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: P418990

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
Prodiatone	0.18	U	ng/L
Prodiatone	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: P418990

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: P418802

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: P418839

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	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: P419035

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P419035

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

Reference Method: SM 2540 C-2011
Batch ID: P419428

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P419318

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P419623

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P419186

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: P418965

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418947

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.3		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418968

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	110		P	85 - 115
Iron	113		P	85 - 115
Magnesium	111		P	85 - 115
Potassium	108		P	85 - 115
Sodium	106		P	85 - 115
Strontium	106		P	85 - 115
Tin	111		P	85 - 115
Titanium	110		P	85 - 115
Vanadium	108		P	85 - 115
Zinc	109		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418968

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.9		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	99.1		P	85 - 115
Barium	102		P	85 - 115
Beryllium	97.9		P	85 - 115
Boron	103		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	98.0		P	85 - 115
Cobalt	96.5		P	85 - 115
Copper	103		P	85 - 115
Lead	99.1		P	85 - 115
Manganese	100		P	85 - 115
Molybdenum	104		P	85 - 115
Nickel	96.6		P	85 - 115
Selenium	92.0		P	85 - 115
Silver	96.1		P	85 - 115
Thallium	99.0		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419470

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419473

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419157

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419097

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.9		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419294

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419040

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P418943

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

Reference Method: EPA 8270E
Batch ID: P418990

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	59.7		P	50 - 150
Acetochlor	73.7		P	70 - 121
Alachlor	68.6		P	68 - 119
Ametryn	76.5		P	64 - 139
Atrazine	79.0		P	76 - 120
Atrazine Desethyl	52.1		P	44 - 126
Avobenzone	62.2		P	59 - 206
Azinphos Methyl	90.2		P	43 - 192
Azoxystrobin	79.5		P	36 - 224
Bromacil	71.4		P	52 - 121
Butylate	52.7		P	28 - 91.0
Caffeine	61.3		P	50 - 134
Carbophenothion	74.5		P	56 - 129
Carfentrazone Ethyl	82.5		P	60 - 141
Chlorfenapyr	76.0		P	56 - 115
Chlorpyrifos Ethyl	74.5		P	60 - 118

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418990

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	74.8		P	68 - 119
Coumaphos	80.1		P	18 - 250
Cyanazine	83.7		P	61 - 250
Cyprodinil	66.4		P	55 - 145
Dechlorane Plus	64.9		P	50 - 150
Demeton	60.6		P	30 - 159
Diazinon	71.3		P	70 - 123
Difenoconazole	84.9		P	49 - 204
Dimethenamid	64.6		P	64 - 115
Dimethomorph	70.3		P	12 - 219
Disulfoton	68.9		P	44 - 125
Dithiopyr	78.6		P	64 - 115
EPTC	47.2		P	28 - 86.0
Ethion	76.6		P	33 - 125
Ethoprop	68.3		P	64 - 116
Etridiazole	45.1		P	34 - 91.0
Fenamiphos	76.0		P	12 - 127
Fenbuconazole	76.8		P	59 - 151
Fipronil	71.5		P	67 - 129
Fipronil Desulfinyl	84.8		P	65 - 127
Fipronil Sulfide	73.4		P	61 - 116
Fipronil Sulfone	60.5		P	55 - 117
Fluazifop-P-butyl	75.0		P	62 - 127
Fludioxonil	65.0		P	62 - 128
Flumioxazin	81.0		P	33 - 250
Flutolanil	71.9		P	56 - 127
Fluxapyroxad	71.8		P	45 - 128
Fonofos	66.3		P	62 - 111
Hexazinone	79.0		P	46 - 139
Imazalil	32.9		F	38 - 142
Iprodione	84.5		P	47 - 135
Loratadine	71.1		P	10 - 244
Malathion	79.0		P	61 - 139
Metaxyl	71.1		P	10 - 119
Metolachlor	69.2		P	65 - 118
Metribuzin	71.0		P	51 - 250
Mevinphos	63.1		P	53 - 121
Molinate	57.1		P	42 - 96.0
Myclobutanil	67.6		P	55 - 128
Naled	75.9		P	10 - 98.0
Napropamide	65.9		P	49 - 121
Norflurazon	67.2		P	61 - 126
Octinoxate	56.3		P	30 - 159
Oxadiazon	61.0		P	59 - 116
Oxybenzone	59.1		P	59 - 147
Oxyfluorfen	83.9		P	64 - 137
Parathion Ethyl	77.2		P	70 - 112
Parathion Methyl	88.4		P	76 - 133
PBDE-47	61.3		P	50 - 150
PBDE-99	61.2		P	50 - 150
Pendimethalin	57.7		P	52 - 117
Phenytol	55.3		P	10 - 199

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P418990

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	58.0		P	48 - 121
Prodiamine	32.2		P	26 - 142
Prometon	66.0		P	43 - 123
Prometryn	73.4		P	66 - 127
Pronamide	86.4		P	75 - 121
Propanil	73.1		P	45 - 150
Propargite	71.1		P	42 - 208
Propiconazole	67.5		P	60 - 125
Pyraflufen Ethyl	70.7		P	70 - 138
Pyridaben	72.1		P	35 - 245
Pyriproxyfen	68.3		P	30 - 149
Simazine	76.5		P	72 - 125
Stirophos	81.0		P	29 - 164
Sulfentrazone	76.7		P	21 - 139
Tebuconazole	63.4		P	10 - 115
Terbufos	77.4		P	60 - 123
Terbuthylazine	75.6		P	72 - 115
Thiobencarb	63.6		P	31 - 139
Tri-o-cresyl Phosphate	65.0		P	50 - 150
Triadimefon	66.9		P	65 - 116

Reference Method: EPA 8321B

Batch ID: P418802

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	104		P	40 - 150
Endothall	97.1		P	40 - 150
Glufosinate	103		P	40 - 150
Glyphosate	99.6		P	40 - 150
Sucralose	97.7		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P418839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	72.6		P	40 - 150
2,4,5-T	67.1		P	40 - 150
Acetaminophen	108		P	30 - 150
Acetamiprid	72.1		P	40 - 150
Afidopyropen	62.7		P	30 - 150
Bentazon	82.1		P	30 - 150
Benzovindiflupyr	70.1		P	40 - 150
Carbamazepine	81.4		P	40 - 150
Clothianidin	77.8		P	40 - 150
Dinotefuran	73.6		P	40 - 150
Diuron	89.0		P	40 - 150
Fenuron	99.5		P	40 - 150
Fluridone	84.5		P	40 - 150
Hydrocodone	112		P	40 - 150
Ibuprofen	59.2		P	40 - 150
Imazapyr	73.8		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P418839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Imidacloprid	93.3		P	40 - 150
Linuron	90.9		P	40 - 150
Mandestrobin	86.3		P	40 - 150
MCPP	75.2		P	40 - 150
Naproxen	84.3		P	40 - 150
Primidone	70.9		P	40 - 150
Pyraclostrobin	83.0		P	40 - 150
Silvex	59.1		P	40 - 150
Thiamethoxam	97.2		P	40 - 150
Tolfenpyrad	44.1		P	30 - 150
Triclopyr	54.9		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P419035

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

Reference Method: SM 4500-F- C-2011

Batch ID: P419623

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	96 - 104

Reference Method: SM 5310 B-2011

Batch ID: P419186

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P418968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353008	Calcium	106		P	80 - 120
2353008	Iron	111		P	80 - 120
2353008	Magnesium	103		P	80 - 120
2353008	Potassium	107		P	80 - 120
2353008	Sodium	103		P	80 - 120
2353008	Strontium	104		P	80 - 120
2353008	Tin	112		P	80 - 120
2353008	Titanium	110		P	80 - 120
2353008	Vanadium	109		P	80 - 120
2353008	Zinc	108		P	80 - 120
2353098	Calcium	109	111	P/P	80 - 120
2353098	Iron	109	112	P/P	80 - 120
2353098	Magnesium	107	110	P/P	80 - 120
2353098	Potassium	107	108	P/P	80 - 120
2353098	Sodium	109	111	P/P	80 - 120
2353098	Strontium	102	105	P/P	80 - 120
2353098	Tin	108	108	P/P	80 - 120
2353098	Titanium	107	109	P/P	80 - 120
2353098	Vanadium	105	106	P/P	80 - 120
2353098	Zinc	106	104	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353008	Aluminum	98.9		P	80 - 120
2353008	Antimony	103		P	80 - 120
2353008	Arsenic	99.6		P	80 - 120
2353008	Barium	100		P	80 - 120
2353008	Beryllium	95.4		P	80 - 120
2353008	Boron	107		P	80 - 120
2353008	Cadmium	98.6		P	80 - 120
2353008	Chromium	99.3		P	80 - 120
2353008	Cobalt	94.7		P	80 - 120
2353008	Copper	98.8		P	80 - 120
2353008	Lead	99.2		P	80 - 120
2353008	Manganese	97.5		P	80 - 120
2353008	Molybdenum	104		P	80 - 120
2353008	Nickel	93.9		P	80 - 120
2353008	Selenium	90.8		P	80 - 120
2353008	Silver	93.2		P	80 - 120
2353008	Thallium	101		P	80 - 120
2353098	Aluminum	97.8	97.4	P/P	80 - 120
2353098	Antimony	103	102	P/P	80 - 120
2353098	Arsenic	98.8	99.2	P/P	80 - 120
2353098	Barium	102	101	P/P	80 - 120
2353098	Beryllium	99.0	97.7	P/P	80 - 120
2353098	Boron	100	100	P/P	80 - 120
2353098	Cadmium	98.5	98.4	P/P	80 - 120
2353098	Chromium	97.8	96.5	P/P	80 - 120
2353098	Cobalt	96.2	95.0	P/P	80 - 120
2353098	Copper	104	104	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353098	Lead	99.7	99.7	P/P	80 - 120
2353098	Manganese	98.4	97.4	P/P	80 - 120
2353098	Molybdenum	104	103	P/P	80 - 120
2353098	Nickel	96.1	95.3	P/P	80 - 120
2353098	Selenium	90.7	91.3	P/P	80 - 120
2353098	Silver	94.5	94.3	P/P	80 - 120
2353098	Thallium	99.3	100	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P419470

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353590	Chloride	100		P	90 - 110
2353615	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P419473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353590	Sulfate	99.8		P	90 - 110
2353615	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P419157

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353216	Ammonia-N	98.8	99.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P419294

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353316	NO2NO3-N	99.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P419040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353370	Total-P	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P418943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353108	O-Phosphate-P	96.0	97.6	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P418990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353329	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	77.6	104	P/P	50 - 150
2353329	Acetochlor	66.0	124	P/P	65 - 124

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353329	Alachlor	62.8	87.0	P/P	61 - 121
2353329	Ametryn	63.6	82.0	P/P	52 - 216
2353329	Atrazine	83.7	124	P/P	68 - 133
2353329	Atrazine Desethyl	51.2	65.6	P/P	15 - 160
2353329	Avobenzone	64.2	98.6	P/P	59 - 206
2353329	Azinphos Methyl	73.8	109	P/P	40 - 292
2353329	Azoxystrobin	75.7	113	P/P	12 - 242
2353329	Bromacil	64.2	79.9	P/P	54 - 167
2353329	Butylate	31.1	46.4	P/P	14 - 94.0
2353329	Caffeine	85.2	89.2	P/P	10 - 226
2353329	Carbophenothion	59.2	85.9	P/P	49 - 122
2353329	Carfentrazone Ethyl	61.6	85.2	P/P	53 - 138
2353329	Chlorfenapyr	84.3	109	P/P	50 - 150
2353329	Chlorpyrifos Ethyl	89.8	112	P/P	52 - 122
2353329	Chlorpyrifos Methyl	88.9	115	P/P	66 - 117
2353329	Coumaphos	60.5	85.8	P/P	50 - 220
2353329	Cyanazine	71.2	105	P/P	43 - 245
2353329	Cyprodinil	68.6	92.2	P/P	50 - 150
2353329	Dechlorane Plus	80.9	112	P/P	50 - 150
2353329	Demeton	56.3	80.1	P/P	43 - 188
2353329	Diazinon	77.2	122	P/P	69 - 131
2353329	Difenoconazole	74.4	104	P/P	34 - 231
2353329	Dimethenamid	55.0	77.2	F/P	55 - 118
2353329	Dimethomorph	70.9	98.0	P/P	50 - 150
2353329	Disulfoton	65.4	87.2	P/P	38 - 141
2353329	Dithiopyr	63.5	85.1	P/P	42 - 116
2353329	EPTC	24.9	36.0	P/P	18 - 85.0
2353329	Ethion	51.0	74.9	P/P	10 - 131
2353329	Ethoprop	70.0	83.9	P/P	65 - 129
2353329	Etridiazole	35.4	52.1	F/P	50 - 150
2353329	Fenamiphos	60.4	82.4	P/P	31 - 137
2353329	Fenbuconazole	92.0	129	P/P	57 - 160
2353329	Fipronil	67.7	89.3	P/P	62 - 132
2353329	Fipronil Desulfinyl	67.2	90.9	P/P	57 - 131
2353329	Fipronil Sulfide	52.4	66.3	P/P	15 - 138
2353329	Fipronil Sulfone	47.2	61.7	P/P	21 - 134
2353329	Fluazifop-P-butyl	57.5	84.5	P/P	54 - 133
2353329	Fludioxonil	65.1	97.6	P/P	58 - 127
2353329	Flumioxazin	94.0	124	P/P	33 - 300
2353329	Flutolanil	53.8	89.3	P/P	42 - 130
2353329	Fluxapyroxad	52.7	74.9	P/P	23 - 141
2353329	Fonofos	58.9	80.8	P/P	58 - 119
2353329	Hexazinone	73.1	100	P/P	68 - 172
2353329	Imazalil	21.3	66.1	F/P	48 - 283
2353329	Iprodione	62.4	82.4	P/P	38 - 140
2353329	Loratadine	63.8	97.4	P/P	50 - 150
2353329	Malathion	65.4	90.8	P/P	40 - 137
2353329	Metalaxyl	58.6	83.4	P/P	21 - 129
2353329	Metolachlor	58.1	91.3	P/P	55 - 122
2353329	Metribuzin	63.1	98.2	P/P	38 - 187
2353329	Mevinphos	76.9	85.0	P/P	54 - 134
2353329	Molinate	46.0	66.6	P/P	41 - 97.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P418990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353329	Myclobutanil	66.5	91.4	P/P	56 - 125
2353329	Naled	62.2	86.3	P/P	10 - 108
2353329	Napropamide	55.2	71.6	P/P	50 - 150
2353329	Norflurazon	52.7	62.7	P/P	32 - 122
2353329	Octinoxate	75.8	98.5	P/P	25 - 150
2353329	Oxadiazon	46.5	65.6	P/P	40 - 119
2353329	Oxybenzone	70.0	90.0	P/P	59 - 147
2353329	Oxyfluorfen	90.0	119	P/P	61 - 153
2353329	Parathion Ethyl	68.1	92.8	P/P	59 - 130
2353329	Parathion Methyl	82.8	111	P/P	65 - 155
2353329	PBDE-47	73.6	94.6	P/P	50 - 150
2353329	PBDE-99	70.7	93.8	P/P	50 - 150
2353329	Pendimethalin	54.1	73.3	P/P	49 - 138
2353329	Phenytoin	56.8	72.1	P/P	50 - 200
2353329	Phorate	63.4	72.0	P/P	54 - 161
2353329	Prodiamine	48.0	65.3	P/P	33 - 161
2353329	Prometon	55.4	78.1	P/P	48 - 140
2353329	Prometryn	61.6	85.8	P/P	55 - 134
2353329	Pronamide	74.0	91.2	P/P	66 - 137
2353329	Propanil	61.2	82.4	P/P	50 - 150
2353329	Propargite	94.4	140	P/P	50 - 200
2353329	Propiconazole	54.1	68.7	P/P	36 - 150
2353329	Pyraflufen Ethyl	69.9	115	P/P	50 - 150
2353329	Pyridaben	62.0	88.8	P/P	50 - 200
2353329	Pyriproxyfen	48.9	74.1	P/P	10 - 165
2353329	Simazine	62.9	78.3	P/P	57 - 145
2353329	Stirophos	51.9	69.4	P/P	50 - 150
2353329	Sulfentrazone	59.1	74.9	P/P	34 - 140
2353329	Tebuconazole	39.8	52.8	P/P	10 - 127
2353329	Terbufos	79.4	97.8	P/P	59 - 138
2353329	Terbutylazine	65.8	93.3	F/P	68 - 119
2353329	Thiobencarb	53.1	70.2	P/P	50 - 150
2353329	Tri-o-cresyl Phosphate	73.3	93.8	P/P	50 - 150
2353329	Triadimefon	53.4	67.7	P/P	50 - 150

Reference Method: EPA 8321B

Batch ID: P418802

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352891	Acesulfame K	99.6	98.9	P/P	40 - 150
2352891	AMPA	105	108	P/P	40 - 150
2352891	Endothall	92.9	96.0	P/P	40 - 150
2352891	Glufosinate	96.5	94.1	P/P	40 - 150
2352891	Glyphosate	87.9	83.3	P/P	40 - 150
2352891	Sucralose	95.8	95.0	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P418839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352724	2,4-D	77.7	80.5	P/P	40 - 150
2352724	2,4,5-T	81.7	83.6	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P418839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352724	Acetaminophen	74.0	83.6	P/P	30 - 150
2352724	Acetamiprid	47.7	45.5	P/P	40 - 150
2352724	Afidopyropen	55.7	67.7	P/P	30 - 150
2352724	Bentazon	124	121	P/P	30 - 150
2352724	Benzovindiflupyr	78.3	83.5	P/P	40 - 150
2352724	Carbamazepine	74.1	76.9	P/P	40 - 150
2352724	Clothianidin	49.8	54.6	P/P	40 - 150
2352724	Dinotefuran	94.1	108	P/P	40 - 150
2352724	Diuron	85.6	80.7	P/P	40 - 150
2352724	Fenuron	97.5	97.1	P/P	40 - 150
2352724	Fluridone	105	106	P/P	40 - 150
2352724	Hydrocodone	104	113	P/P	40 - 150
2352724	Ibuprofen	67.1	81.2	P/P	40 - 150
2352724	Imazapyr	83.1	96.8	P/P	40 - 150
2352724	Imidacloprid	66.1	74.2	P/P	40 - 150
2352724	Linuron	91.8	99.3	P/P	40 - 150
2352724	Mandestrobin	98.0	93.3	P/P	40 - 150
2352724	MCPP	88.9	95.3	P/P	40 - 150
2352724	Naproxen	125	117	P/P	40 - 150
2352724	Primidone	44.9	35.3	P/F	40 - 150
2352724	Pyraclostrobin	92.5	94.9	P/P	40 - 150
2352724	Silvex	73.9	79.1	P/P	40 - 150
2352724	Thiamethoxam	82.0	89.7	P/P	40 - 150
2352724	Tolfenpyrad	57.1	61.2	P/P	30 - 150
2352724	Triclopyr	73.3	81.5	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P419623

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353393	Fluoride	98.2	97.5	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P419186

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353290	Organic Carbon	96.4	96.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P418965

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353300	Color (true)	0.421	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418947

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353300	Turbidity	1.72	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353098	Calcium	1.63	Spike	P	0 - 20
2353098	Iron	2.55	Spike	P	0 - 20
2353098	Magnesium	2.24	Spike	P	0 - 20
2353098	Potassium	1.31	Spike	P	0 - 20
2353098	Sodium	0.952	Spike	P	0 - 20
2353098	Strontium	2.31	Spike	P	0 - 20
2353098	Tin	0.451	Spike	P	0 - 20
2353098	Titanium	2.12	Spike	P	0 - 20
2353098	Vanadium	0.996	Spike	P	0 - 20
2353098	Zinc	1.65	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353098	Aluminum	0.347	Spike	P	0 - 20
2353098	Antimony	1.41	Spike	P	0 - 20
2353098	Arsenic	0.443	Spike	P	0 - 20
2353098	Barium	0.604	Spike	P	0 - 20
2353098	Beryllium	1.25	Spike	P	0 - 20
2353098	Boron	0.0451	Spike	P	0 - 20
2353098	Cadmium	0.0424	Spike	P	0 - 20
2353098	Chromium	1.39	Spike	P	0 - 20
2353098	Cobalt	1.33	Spike	P	0 - 20
2353098	Copper	0.0407	Spike	P	0 - 20
2353098	Lead	0.0130	Spike	P	0 - 20
2353098	Manganese	0.858	Spike	P	0 - 20
2353098	Molybdenum	0.302	Spike	P	0 - 20
2353098	Nickel	0.783	Spike	P	0 - 20
2353098	Selenium	0.693	Spike	P	0 - 20
2353098	Silver	0.268	Spike	P	0 - 20
2353098	Thallium	0.918	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419470

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353590	Chloride	0.461	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353590	Sulfate	0.382	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419157

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353216	Ammonia-N	0.359	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P419097

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353316	Kjeldahl Nitrogen	2.05	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419294

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353316	NO2NO3-N	0.504	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353370	Total-P	0.481	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P418943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353108	O-Phosphate-P	1.56	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P418990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353329	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	29.3	Spike	P	0 - 30
2353329	Acetochlor	54.2	Spike	F	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P418990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353329	Alachlor	32.4	Spike	F	0 - 27
2353329	Ametryn	25.2	Spike	P	0 - 34
2353329	Atrazine	25.4	Spike	P	0 - 41
2353329	Atrazine Desethyl	24.6	Spike	P	0 - 38
2353329	Avobenzone	42.1	Spike	F	0 - 30
2353329	Azinphos Methyl	38.9	Spike	P	0 - 62
2353329	Azoxystrobin	28.3	Spike	P	0 - 32
2353329	Bromacil	21.8	Spike	P	0 - 30
2353329	Butylate	39.5	Spike	P	0 - 59
2353329	Caffeine	4.54	Spike	P	0 - 60
2353329	Carbophenothion	36.8	Spike	F	0 - 25
2353329	Carfentrazone Ethyl	32.1	Spike	F	0 - 26
2353329	Chlorfenapyr	25.3	Spike	P	0 - 30
2353329	Chlorpyrifos Ethyl	22.4	Spike	P	0 - 27
2353329	Chlorpyrifos Methyl	26.0	Spike	F	0 - 26
2353329	Coumaphos	34.7	Spike	F	0 - 30
2353329	Cyanazine	38.1	Spike	P	0 - 58
2353329	Cyprodinil	29.3	Spike	P	0 - 30
2353329	Dechlorane Plus	32.2	Spike	F	0 - 30
2353329	Demeton	34.8	Spike	F	0 - 25
2353329	Diazinon	44.9	Spike	F	0 - 29
2353329	Difenoconazole	33.5	Spike	F	0 - 25
2353329	Dimethenamid	33.7	Spike	F	0 - 30
2353329	Dimethomorph	32.1	Spike	F	0 - 30
2353329	Disulfoton	28.6	Spike	P	0 - 33
2353329	Dithiopyr	27.3	Spike	F	0 - 22
2353329	EPTC	36.5	Spike	P	0 - 38
2353329	Ethion	37.9	Spike	P	0 - 79
2353329	Ethoprop	18.1	Spike	P	0 - 23
2353329	Etridiazole	38.2	Spike	F	0 - 30
2353329	Fenamiphos	30.9	Spike	P	0 - 58
2353329	Fenbuconazole	33.4	Spike	P	0 - 37
2353329	Fipronil	27.5	Spike	P	0 - 33
2353329	Fipronil Desulfanyl	29.9	Spike	F	0 - 26
2353329	Fipronil Sulfide	23.4	Spike	P	0 - 37
2353329	Fipronil Sulfone	26.6	Spike	P	0 - 50
2353329	Fluazifop-P-butyl	38.1	Spike	F	0 - 24
2353329	Fludioxonil	39.9	Spike	F	0 - 26
2353329	Flumioxazin	27.2	Spike	P	0 - 37
2353329	Flutolanil	28.3	Spike	F	0 - 26
2353329	Fluxapyroxad	30.6	Spike	P	0 - 34
2353329	Fonofos	31.3	Spike	F	0 - 27
2353329	Hexazinone	31.2	Spike	P	0 - 36
2353329	Imazalil	102	Spike	F	0 - 65
2353329	Iprodione	27.6	Spike	P	0 - 33
2353329	Loratadine	41.6	Spike	F	0 - 30
2353329	Malathion	32.5	Spike	P	0 - 44
2353329	Metalaxyl	34.9	Spike	P	0 - 38
2353329	Metolachlor	31.2	Spike	P	0 - 36
2353329	Metribuzin	43.5	Spike	P	0 - 63
2353329	Mevinphos	9.97	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P418990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353329	Molinate	36.6	Spike	P	0 - 40
2353329	Myclobutanil	31.6	Spike	F	0 - 21
2353329	Naled	32.5	Spike	F	0 - 26
2353329	Napropamide	25.9	Spike	P	0 - 30
2353329	Norflurazon	17.4	Spike	P	0 - 24
2353329	Octinoxate	26.0	Spike	P	0 - 30
2353329	Oxadiazon	34.1	Spike	F	0 - 27
2353329	Oxybenzone	25.0	Spike	P	0 - 30
2353329	Oxyfluorfen	27.8	Spike	F	0 - 24
2353329	Parathion Ethyl	30.6	Spike	F	0 - 28
2353329	Parathion Methyl	29.3	Spike	F	0 - 27
2353329	PBDE-47	24.9	Spike	P	0 - 30
2353329	PBDE-99	28.2	Spike	P	0 - 30
2353329	Pendimethalin	30.1	Spike	P	0 - 31
2353329	Phenytoin	23.8	Spike	P	0 - 30
2353329	Phorate	12.8	Spike	P	0 - 27
2353329	Prodiamine	30.6	Spike	P	0 - 52
2353329	Prometon	34.1	Spike	F	0 - 31
2353329	Prometryn	32.9	Spike	F	0 - 28
2353329	Pronamide	20.8	Spike	P	0 - 26
2353329	Propanil	29.6	Spike	P	0 - 30
2353329	Propargite	39.1	Spike	F	0 - 30
2353329	Propiconazole	23.8	Spike	P	0 - 31
2353329	Pyraflufen Ethyl	48.7	Spike	F	0 - 30
2353329	Pyridaben	35.6	Spike	F	0 - 30
2353329	Pyriproxyfen	41.1	Spike	P	0 - 50
2353329	Simazine	21.8	Spike	P	0 - 29
2353329	Stirophos	28.9	Spike	P	0 - 30
2353329	Sulfentrazone	23.5	Spike	P	0 - 33
2353329	Tebuconazole	24.7	Spike	P	0 - 44
2353329	Terbufos	20.7	Spike	P	0 - 29
2353329	Terbutylazine	34.6	Spike	F	0 - 27
2353329	Thiobencarb	27.7	Spike	P	0 - 30
2353329	Tri-o-cresyl Phosphate	24.6	Spike	P	0 - 30
2353329	Triadimefon	23.5	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P418802

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352891	Acesulfame K	0.674	Spike	P	0 - 30
2352891	AMPA	2.20	Spike	P	0 - 30
2352891	Endothall	3.24	Spike	P	0 - 30
2352891	Glufosinate	2.45	Spike	P	0 - 30
2352891	Glyphosate	5.37	Spike	P	0 - 30
2352891	Sucralose	0.783	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P418839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352724	2,4-D	3.61	Spike	P	0 - 30
2352724	2,4,5-T	2.26	Spike	P	0 - 30
2352724	Acetaminophen	12.1	Spike	P	0 - 30
2352724	Acetamiprid	4.64	Spike	P	0 - 30
2352724	Afidopyropen	19.4	Spike	P	0 - 30
2352724	Bentazon	1.98	Spike	P	0 - 30
2352724	Benzovindiflupyr	6.34	Spike	P	0 - 30
2352724	Carbamazepine	3.75	Spike	P	0 - 30
2352724	Clothianidin	9.25	Spike	P	0 - 30
2352724	Dinotefuran	13.7	Spike	P	0 - 30
2352724	Diuron	6.01	Spike	P	0 - 30
2352724	Fenuron	0.455	Spike	P	0 - 30
2352724	Fluridone	1.59	Spike	P	0 - 30
2352724	Hydrocodone	8.10	Spike	P	0 - 30
2352724	Ibuprofen	19.0	Spike	P	0 - 30
2352724	Imazapyr	15.2	Spike	P	0 - 30
2352724	Imidacloprid	11.5	Spike	P	0 - 30
2352724	Linuron	7.90	Spike	P	0 - 30
2352724	Mandestrobin	4.93	Spike	P	0 - 30
2352724	MCP	6.97	Spike	P	0 - 30
2352724	Naproxen	6.99	Spike	P	0 - 30
2352724	Primidone	24.0	Spike	P	0 - 30
2352724	Pyraclostrobin	2.62	Spike	P	0 - 30
2352724	Silvex	6.75	Spike	P	0 - 30
2352724	Thiamethoxam	9.02	Spike	P	0 - 30
2352724	Tolfenpyrad	6.89	Spike	P	0 - 30
2352724	Triclopyr	10.5	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P419035

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353351	Total Alkalinity	0.596	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P419428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353352	TDS	3.48	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P419623

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353393	Fluoride	0.476	Spike	P	0 - 1.6

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P419186

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353290	Organic Carbon	0.0	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2353327
Field Sample ID: G1NE0936

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	101	P	30 - 160
EPA 8321B	Acetaminophen-d4	42.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	73.0	P	30 - 160
EPA 8321B	Diuron-d6	100	P	30 - 160
EPA 8321B	Endothall-d6	137	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	99.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	108	P	30 - 160
EPA 8321B	Primidone-d5	44.1	P	30 - 160
EPA 8321B	Sucralose-d6	95.9	P	30 - 160

Lab Sample ID: 2353331
Field Sample ID: G1NE0936

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	63.1	P	20 - 200
EPA 8270E	Simazine-d10	88.6	P	71 - 140
EPA 8270E	Terbufos-d10	95.5	P	62 - 131
EPA 8270E	Terphenyl-d14	68.8	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A114460

Included Lab Sample IDs: 2353317

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114462

Included Lab Sample IDs: 2353315

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

Reference Method: DEP SOP: NU-094-1

Run ID: A114473

Included Lab Sample IDs: 2353315

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

Reference Method: SM 2320 B-2011

Run ID: A114506

Included Lab Sample IDs: 2353315

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	106	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114544

Included Lab Sample IDs: 2353316

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

Reference Method: EPA 8321B

Run ID: A114551

Included Lab Sample IDs: 2353327

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	104	107	P/P	60 - 160
Sucralose	97.6	102	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A114552

Included Lab Sample IDs: 2353327

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	102	103	P/P	60 - 160
Endothall	88.2	88.4	P/P	60 - 160
Glufosinate	81.0	92.7	P/P	60 - 160
Glyphosate	97.6	105	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114553

Included Lab Sample IDs: 2353316

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.7	100	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114559

Included Lab Sample IDs: 2353330

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	102	P/P	90 - 110
Iron	105	103	P/P	90 - 110
Magnesium	104	102	P/P	90 - 110
Potassium	101	99.1	P/P	90 - 110
Sodium	102	100	P/P	90 - 110
Strontium	99.6	99.5	P/P	90 - 110
Tin	104	107	P/P	90 - 110
Titanium	103	104	P/P	90 - 110
Vanadium	101	102	P/P	90 - 110
Zinc	102	104	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114566

Included Lab Sample IDs: 2353330

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.4	96.6	P/P	90 - 110
Antimony	98.6	98.7	P/P	90 - 110
Arsenic	98.2	99.7	P/P	90 - 110
Barium	96.0	97.3	P/P	90 - 110
Boron	99.9	98.3	P/P	90 - 110
Cadmium	102	102	P/P	90 - 110
Chromium	97.6	98.3	P/P	90 - 110
Cobalt	95.7	95.7	P/P	90 - 110
Manganese	98.2	99.0	P/P	90 - 110
Nickel	95.7	96.8	P/P	90 - 110
Selenium	97.4	95.9	P/P	90 - 110
Silver	95.9	95.5	P/P	90 - 110
Thallium	100	99.1	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A114570

Included Lab Sample IDs: 2353316

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	95.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114576

Included Lab Sample IDs: 2353316

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114593

Included Lab Sample IDs: 2353330

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	96.4	97.3	P/P	90 - 110
Copper	102	102	P/P	90 - 110
Lead	95.0	95.1	P/P	90 - 110
Molybdenum	101	101	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114597

Included Lab Sample IDs: 2353331

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.6		P	80 - 120
Avobenzone	95.8		P	80 - 120
Dechlorane Plus	97.3		P	80 - 120
Octinoxate	96.9		P	80 - 120
Oxybenzone	93.7		P	80 - 120
PBDE-47	96.8		P	80 - 120
PBDE-99	98.1		P	80 - 120
Tri-o-cresyl Phosphate	98.7		P	80 - 120

Reference Method: EPA 8270E

Run ID: A114598

Included Lab Sample IDs: 2353331

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	99.6		P	80 - 120
Ametryn	107		P	80 - 120
Atrazine	99.1		P	80 - 120
Atrazine Desethyl	104		P	80 - 120
Azinphos Methyl	114		P	80 - 120
Azoxystrobin	98.0		P	80 - 120
Bromacil	107		P	80 - 120
Butylate	101		P	80 - 120
Caffeine	89.3		P	80 - 120
Carbophenothion	107		P	80 - 120
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	108		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	110		P	80 - 120
Cyanazine	105		P	80 - 120
Cyprodinil	106		P	80 - 120
Demeton	104		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	106		P	80 - 120
Dimethenamid	106		P	80 - 120
Dimethomorph	99.1		P	80 - 120
Disulfoton	99.7		P	80 - 120
Dithiopyr	107		P	80 - 120
EPTC	99.7		P	80 - 120
Ethion	106		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114598
Included Lab Sample IDs: 2353331

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethoprop	102		P	80 - 120
Etridiazole	98.0		P	80 - 120
Fenamiphos	97.2		P	80 - 120
Fenbuconazole	105		P	80 - 120
Fipronil	99.6		P	80 - 120
Fipronil Desulfinyl	107		P	80 - 120
Fipronil Sulfide	106		P	80 - 120
Fipronil Sulfone	104		P	80 - 120
Fluazifop-P-butyl	106		P	80 - 120
Fludioxonil	98.4		P	80 - 120
Flumioxazin	107		P	80 - 120
Flutolanil	97.6		P	80 - 120
Fluxapyroxad	108		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	99.9		P	80 - 120
Imazalil	101		P	80 - 120
Iprodione	105		P	80 - 120
Loratadine	95.1		P	80 - 120
Malathion	104		P	80 - 120
Metalaxyl	100		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	99.7		P	80 - 120
Mevinphos	99.0		P	80 - 120
Molinate	99.0		P	80 - 120
Myclobutanil	104		P	80 - 120
Naled	118		P	80 - 120
Napropamide	98.7		P	80 - 120
Norflurazon	102		P	80 - 120
Oxadiazon	100		P	80 - 120
Oxyfluorfen	109		P	80 - 120
Parathion Ethyl	98.1		P	80 - 120
Parathion Methyl	100		P	80 - 120
Pendimethalin	92.3		P	80 - 120
Phenytol	105		P	80 - 120
Phorate	99.7		P	80 - 120
Prodiamine	112		P	80 - 120
Prometon	97.3		P	80 - 120
Prometryn	103		P	80 - 120
Pronamide	95.3		P	80 - 120
Propanil	94.4		P	80 - 120
Propargite	104		P	80 - 120
Propiconazole	106		P	80 - 120
Pyraflufen Ethyl	99.3		P	80 - 120
Pyridaben	106		P	80 - 120
Pyriproxyfen	103		P	80 - 120
Simazine	93.9		P	80 - 120
Stirophos	109		P	80 - 120
Sulfentrazone	112		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	102		P	80 - 120
Terbutylazine	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A114598
Included Lab Sample IDs: 2353331

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Thiobencarb	98.4		P	80 - 120
Triadimefon	100		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A114600
Included Lab Sample IDs: 2353315

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

Reference Method: EPA 8321B
Run ID: A114605
Included Lab Sample IDs: 2353327

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	110	105	P/P	50 - 150
2,4,5-T	116	129	P/P	50 - 150
Acetaminophen	63.5	102	P/P	60 - 160
Acetamiprid	89.4	96.7	P/P	50 - 150
Afidopyropen	119	127	P/P	50 - 150
Bentazon	94.6	98.6	P/P	50 - 160
Benzovindiflupyr	91.9	122	P/P	50 - 150
Carbamazepine	112	127	P/P	60 - 150
Clothianidin	93.8	113	P/P	60 - 150
Dinotefuran	74.5	105	P/P	50 - 150
Diuron	114	139	P/P	60 - 160
Fenuron	88.7	103	P/P	60 - 150
Fluridone	101	116	P/P	60 - 160
Hydrocodone	79.8	91.5	P/P	60 - 150
Ibuprofen	99.9	126	P/P	50 - 160
Imazapyr	83.4	112	P/P	50 - 150
Imidacloprid	84.3	107	P/P	60 - 150
Linuron	110	147	P/P	60 - 150
Mandestrobin	104	113	P/P	50 - 150
MCPP	105	106	P/P	50 - 150
Naproxen	138	111	P/P	50 - 160
Primidone	101	114	P/P	60 - 150
Pyraclostrobin	101	111	P/P	60 - 150
Silvex	100	108	P/P	50 - 150
Thiamethoxam	77.0	90.9	P/P	50 - 150
Tolfenpyrad	101	108	P/P	60 - 150
Triclopyr	89.9	91.5	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A114607
Included Lab Sample IDs: 2353316

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A114739

Included Lab Sample IDs: 2353315

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	99.5	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	101					0.421	
EPA 180.1 Rev. 2.0	Turbidity	96.3					1.72	
EPA 200.7 Rev. 4.4	Calcium	110	106	109	111			1.63
	Iron	113	111	109	112			2.55
	Magnesium	111	103	107	110			2.24
	Potassium	108	107	107	108			1.31
	Sodium	106	103	109	111			0.952
	Strontium	106	104	102	105			2.31
	Tin	111	112	108	108			0.451
	Titanium	110	110	107	109			2.12
	Vanadium	108	109	105	106			0.996
	Zinc	109	108	106	104			1.65
EPA 200.8 Rev. 5.4	Aluminum	98.9	97.8	97.4	98.9			0.347
	Antimony	103	103	102	103			1.41
	Arsenic	99.1	98.8	99.2	99.6			0.443
	Barium	102	102	101	100			0.604
	Beryllium	97.9	99.0	97.7	95.4			1.25
	Boron	103	100	100	107			0.0451
	Cadmium	100	98.5	98.4	98.6			0.0424
	Chromium	98.0	97.8	96.5	99.3			1.39
	Cobalt	96.5	96.2	95.0	94.7			1.33
	Copper	103	104	104	98.8			0.0407
	Lead	99.1	99.7	99.7	99.2			0.0130
	Manganese	100	98.4	97.4	97.5			0.858
	Molybdenum	104	104	103	104			0.302
	Nickel	96.6	96.1	95.3	93.9			0.783
	Selenium	92.0	90.7	91.3	90.8			0.693
	Silver	96.1	94.5	94.3	93.2			0.268
	Thallium	99.0	99.3	100	101			0.918
EPA 300.0 Rev. 2.1	Chloride	102	100	102			0.461	
	Sulfate	101	99.8	101			0.382	
EPA 350.1 Rev. 2.0	Ammonia-N	99.0	98.8	99.4				0.359
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	94.9						2.05
EPA 353.2 Rev. 2.0	NO2NO3-N	100	99.5	99.0				0.504
EPA 365.1 Rev. 2.0	Total-P	104	104	105				0.481
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.3	96.0	97.6				1.56
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	59.7	77.6	104				29.3
	Acetochlor	73.7	66.0	124				54.2
	Alachlor	68.6	62.8	87.0				32.4
	Ametryn	76.5	63.6	82.0				25.2
	Atrazine	79.0	83.7	124				25.4
	Atrazine Desethyl	52.1	51.2	65.6				24.6
	Avobenzone	62.2	64.2	98.6				42.1
	Azinphos Methyl	90.2	73.8	109				38.9
	Azoxystrobin	79.5	75.7	113				28.3
	Bromacil	71.4	64.2	79.9				21.8
	Butylate	52.7	31.1	46.4				39.5
	Caffeine	61.3	85.2	89.2				4.54
	Carbophenothion	74.5	59.2	85.9				36.8
	Carfentrazone Ethyl	82.5	61.6	85.2				32.1
	Chlorfenapyr	76.0	84.3	109				25.3
	Chlorpyrifos Ethyl	74.5	89.8	112				22.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Chlorpyrifos Methyl	74.8	88.9	115			26.0
	Coumaphos	80.1	60.5	85.8			34.7
	Cyanazine	83.7	71.2	105			38.1
	Cyprodinil	66.4	68.6	92.2			29.3
	Dechlorane Plus	64.9	80.9	112			32.2
	Demeton	60.6	56.3	80.1			34.8
	Diazinon	71.3	77.2	122			44.9
	Difenoconazole	84.9	74.4	104			33.5
	Dimethenamid	64.6	55.0	77.2			33.7
	Dimethomorph	70.3	70.9	98.0			32.1
	Disulfoton	68.9	65.4	87.2			28.6
	Dithiopyr	78.6	63.5	85.1			27.3
	EPTC	47.2	24.9	36.0			36.5
	Ethion	76.6	51.0	74.9			37.9
	Ethoprop	68.3	70.0	83.9			18.1
	Etridiazole	45.1	35.4	52.1			38.2
	Fenamiphos	76.0	60.4	82.4			30.9
	Fenbuconazole	76.8	92.0	129			33.4
	Fipronil	71.5	67.7	89.3			27.5
	Fipronil Desulfinyl	84.8	67.2	90.9			29.9
	Fipronil Sulfide	73.4	52.4	66.3			23.4
	Fipronil Sulfone	60.5	47.2	61.7			26.6
	Fluazifop-P-butyl	75.0	57.5	84.5			38.1
	Fludioxonil	65.0	65.1	97.6			39.9
	Flumioxazin	81.0	94.0	124			27.2
	Flutolanil	71.9	53.8	89.3			28.3
	Fluxapyroxad	71.8	52.7	74.9			30.6
	Fonofos	66.3	58.9	80.8			31.3
	Hexazinone	79.0	73.1	100			31.2
	Imazalil	32.9	21.3	66.1			102
	Iprodione	84.5	62.4	82.4			27.6
	Loratadine	71.1	63.8	97.4			41.6
	Malathion	79.0	65.4	90.8			32.5
	Metalaxyl	71.1	58.6	83.4			34.9
	Metolachlor	69.2	58.1	91.3			31.2
	Metribuzin	71.0	63.1	98.2			43.5
	Mevinphos	63.1	76.9	85.0			9.97
	Molinate	57.1	46.0	66.6			36.6
	Myclobutanil	67.6	66.5	91.4			31.6
	Naled	75.9	62.2	86.3			32.5
	Napropamide	65.9	55.2	71.6			25.9
	Norflurazon	67.2	52.7	62.7			17.4
	Octinoxate	56.3	75.8	98.5			26.0
	Oxadiazon	61.0	46.5	65.6			34.1
	Oxybenzone	59.1	70.0	90.0			25.0
	Oxyfluorfen	83.9	90.0	119			27.8
	Parathion Ethyl	77.2	68.1	92.8			30.6
	Parathion Methyl	88.4	82.8	111			29.3
	PBDE-47	61.3	73.6	94.6			24.9
	PBDE-99	61.2	70.7	93.8			28.2
	Pendimethalin	57.7	54.1	73.3			30.1
	Phenytoin	55.3	56.8	72.1			23.8
	Phorate	58.0	63.4	72.0			12.8
	Prodiamine	32.2	48.0	65.3			30.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Prometon	66.0	55.4	78.1			34.1
	Prometryn	73.4	61.6	85.8			32.9
	Pronamide	86.4	74.0	91.2			20.8
	Propanil	73.1	61.2	82.4			29.6
	Propargite	71.1	94.4	140			39.1
	Propiconazole	67.5	54.1	68.7			23.8
	Pyraflufen Ethyl	70.7	69.9	115			48.7
	Pyridaben	72.1	62.0	88.8			35.6
	Pyriproxyfen	68.3	48.9	74.1			41.1
	Simazine	76.5	62.9	78.3			21.8
	Stirophos	81.0	51.9	69.4			28.9
	Sulfentrazone	76.7	59.1	74.9			23.5
	Tebuconazole	63.4	39.8	52.8			24.7
	Terbufos	77.4	79.4	97.8			20.7
	Terbuthylazine	75.6	65.8	93.3			34.6
	Thiobencarb	63.6	53.1	70.2			27.7
	Tri-o-cresyl Phosphate	65.0	73.3	93.8			24.6
	Triadimefon	66.9	53.4	67.7			23.5
EPA 8321B	2,4-D	72.6	80.5	77.7			3.61
	2,4,5-T	67.1	83.6	81.7			2.26
	Acesulfame K	101	99.6	98.9			0.674
	Acetaminophen	108	74.0	83.6			12.1
	Acetamiprid	72.1	47.7	45.5			4.64
	Afidopyropen	62.7	55.7	67.7			19.4
	AMPA	104	105	108			2.20
	Bentazon	82.1	121	124			1.98
	Benzovindiflupyr	70.1	78.3	83.5			6.34
	Carbamazepine	81.4	74.1	76.9			3.75
	Clothianidin	77.8	49.8	54.6			9.25
	Dinotefuran	73.6	94.1	108			13.7
	Diuron	89.0	85.6	80.7			6.01
	Endothall	97.1	92.9	96.0			3.24
	Fenuron	99.5	97.5	97.1			0.455
	Fluridone	84.5	105	106			1.59
	Glufosinate	103	96.5	94.1			2.45
	Glyphosate	99.6	87.9	83.3			5.37
	Hydrocodone	112	104	113			8.10
	Ibuprofen	59.2	81.2	67.1			19.0
	Imazapyr	73.8	96.8	83.1			15.2
	Imidacloprid	93.3	66.1	74.2			11.5
	Linuron	90.9	91.8	99.3			7.90
	Mandestrobin	86.3	98.0	93.3			4.93
	MCPP	75.2	95.3	88.9			6.97
	Naproxen	84.3	117	125			6.99
	Primidone	70.9	44.9	35.3			24.0
	Pyraclostrobin	83.0	92.5	94.9			2.62
	Silvex	59.1	79.1	73.9			6.75
	Sucralose	97.7	95.8	95.0			0.783
	Thiamethoxam	97.2	82.0	89.7			9.02
	Tolfenpyrad	44.1	57.1	61.2			6.89
	Triclopyr	54.9	81.5	73.3			10.5
SM 2320 B-2011	Total Alkalinity	106				0.596	
SM 2540 C-2011	TDS					3.48	
SM 4500-F- C-2011	Fluoride	99.0	98.2	97.5			0.476

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
SM 5310 B-2011	Organic Carbon	96.5	96.4 96.4			0.0

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2353315
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2353315
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2353330
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2353330
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2353315
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2353315
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2353316
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2353316
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2353316
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2353316
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2353317
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2353331
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2353331
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2353327
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2353315
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2353330
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2353315
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2353315
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2353315
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2353316

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	08/31/2022			08/31/2022 15:33	Blanca Fach	2353315
EPA 180.1 Rev. 2.0	08/31/2022			08/31/2022 14:40	Chandler E Cox	2353315
EPA 200.7 Rev. 4.4	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 00:01	McKinley C Carter	2353330
EPA 200.8 Rev. 5.4	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 00:55	Emily M Philpot	2353330
	08/31/2022	09/01/2022 10:15	Megan Whitefoot	09/08/2022 06:42	Megan Whitefoot	2353330
EPA 300.0 Rev. 2.1	08/31/2022			09/10/2022 08:14	Anna M. Plaviak	2353315
EPA 350.1 Rev. 2.0	08/31/2022			09/06/2022 14:33	Judith K. Clark	2353316
EPA 351.2 Rev. 2.0	08/31/2022	09/06/2022 14:30	Alexandra J Mattheus	09/07/2022 11:37	Alexandra J Mattheus	2353316
EPA 353.2 Rev. 2.0	08/31/2022			09/08/2022 10:11	Beverly Y. Sanders	2353316
EPA 365.1 Rev. 2.0	08/31/2022	09/02/2022 10:28	Simonne.V. Calhoun	09/06/2022 11:14	James L Waggeberby	2353316
EPA 365.1 Rev. 2.0 dissolved	08/31/2022			08/31/2022 15:14	Elise M. Gillis	2353317
EPA 8270E	08/31/2022	09/01/2022 09:30	Rasheda Ghaffari	09/06/2022 01:17	Michael Poppell	2353331
	08/31/2022	09/01/2022 09:30	Rasheda Ghaffari	09/06/2022 16:14	Lipi Saha	2353331
EPA 8321B	08/31/2022	09/01/2022 09:00	June Rhew	09/08/2022 20:09	Juyoung Kim	2353327
	08/31/2022	09/01/2022 14:00	Umesh Chiluwal	09/02/2022 01:22	Umesh Chiluwal	2353327
	08/31/2022	09/01/2022 14:00	Umesh Chiluwal	09/03/2022 02:26	Umesh Chiluwal	2353327
SM 2320 B-2011	08/31/2022			09/02/2022 06:20	Dale L. Simmons	2353315
SM 2340 B-2011	08/31/2022			09/07/2022 00:01	McKinley C Carter	2353330
SM 2540 C-2011	08/31/2022			09/02/2022 16:08	Yijie Li	2353315
SM 2540 D-2011	08/31/2022			09/02/2022 16:08	Yijie Li	2353315
SM 4500-F- C-2011	08/31/2022			09/15/2022 04:35	Dale L. Simmons	2353315
SM 5310 B-2011	08/31/2022			09/07/2022 05:30	Khloe J Berg	2353316