

Chemical Analysis Report

NW-DIST-2022-10-19-03

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

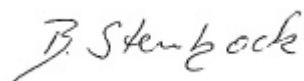
Event Description: **Niceville Run**
Request ID: **RQ-2022-10-17-31**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
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Pensacola, FL 32502-5794
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 08-NOV-2022 13:12



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: Eagle Creek upstream of HWY 20

Collection Date/Time: 10/18/2022 10:50

Field ID: G3NW0151

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2363636	DEP SOP: NU-094-1	Color (true)	45	A	PCU	P421152	
	EPA 180.1 Rev. 2.0	Turbidity	0.50	I	NTU	P421118	
	EPA 300.0 Rev. 2.1	Chloride	5.7		mg Cl/L	P421611	
		Sulfate	1.4		mg SO4/L	P421614	
	SM 2320 B-2011	Total Alkalinity	0.72	I	mg CaCO3/L	P421306	
	SM 2540 C-2015	TDS	23	I	mg/L	P421735	
	SM 2540 D-2015	TSS	2	U	mg/L	P421401	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P421311	
2363637	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P421481	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.21		mg N/L	P421348	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P421321	
	EPA 365.1 Rev. 2.0	Total-P	0.005		mg P/L	P421237	
	SM 5310 B-2011	Organic Carbon	3.8		mg C/L	P421557	
2363638	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P421110	
2363641	EPA 8321B	2,4-D	0.0020	U	ug/L	P421081	
		Acesulfame K	0.10	U	ug/L	P421007	
		2,4,5-T	0.0040	U	ug/L	P421081	
		AMPA	0.10	U	ug/L	P421007	
		Acetaminophen	0.0080	U	ug/L	P421081	
		Acetamiprid	0.0020	U	ug/L	P421081	
		Endothall	0.25	U	ug/L	P421007	
		Glufosinate	0.10	U	ug/L	P421007	
		Glyphosate	0.10	U	ug/L	P421007	
		Afidopyrophen	0.0020	U	ug/L	P421081	
		Bentazon	8.0E-04	U	ug/L	P421081	
		Sucralose	0.012	I	ug/L	P421007	
		Benzovindiflupyr	0.0020	U	ug/L	P421081	
		Carbamazepine	8.0E-04	U	ug/L	P421081	
		Clothianidin	0.0020	U	ug/L	P421081	
		Dinotefuran	0.0020	U	ug/L	P421081	
		Diuron	0.0020	U	ug/L	P421081	
		Fenuron	0.032	U	ug/L	P421081	
		Fluridone	8.0E-04	U	ug/L	P421081	
		Imazapyr	0.0040	U	ug/L	P421081	
		Hydrocodone	0.0020	U	ug/L	P421081	
		Ibuprofen	0.20	U	ug/L	P421081	
		Imidacloprid	0.0020	U	ug/L	P421081	
		Linuron	0.0040	U	ug/L	P421081	
		Mandestrobin	0.0020	U	ug/L	P421081	
		MCP	0.0040	U	ug/L	P421081	
		Naproxen	0.0080	U	ug/L	P421081	
		Primidone	0.0040	U	ug/L	P421081	
		Pyraclostrobin	0.0020	U	ug/L	P421081	

Field ID: G3NW0151

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2363641	EPA 8321B	Silvex	0.0040	U	ug/L	P421081	
		Thiamethoxam	0.0020	U	ug/L	P421081	
		Tolfenpyrad	0.0020	U	ug/L	P421081	
		Triclopyr	0.0040	U	ug/L	P421081	
2363642	EPA 200.7 Rev. 4.4	Calcium	0.62		mg/L	P421155	
		Iron	85	I	ug/L	P421155	
		Magnesium	0.61		mg/L	P421155	
		Potassium	0.30	U	mg/L	P421155	
		Sodium	3.3		mg/L	P421155	
		Strontium	6.1	I	ug/L	P421155	
		Tin	3.0	U	ug/L	P421155	
		Titanium	0.75	U	ug/L	P421155	
		Vanadium	2.0	U	ug/L	P421155	
		Zinc	5.0	U	ug/L	P421155	
	EPA 200.8 Rev. 5.4	Aluminum	17	I	ug/L	P421155	
		Antimony	0.050	U	ug/L	P421155	
		Arsenic	0.14	I	ug/L	P421155	
		Barium	3.79		ug/L	P421155	
		Beryllium	0.010	U	ug/L	P421155	
		Boron	11.4		ug/L	P421155	
		Cadmium	0.020	U	ug/L	P421155	
		Chromium	0.40	U	ug/L	P421155	
		Cobalt	0.068	I	ug/L	P421155	
		Copper	0.40	U	ug/L	P421155	
		Lead	0.20	U	ug/L	P421155	
		Manganese	6.91		ug/L	P421155	
		Molybdenum	0.15	U	ug/L	P421155	
		Nickel	0.50	U	ug/L	P421155	
		Selenium	0.20	U	ug/L	P421155	
		Silver	0.010	U	ug/L	P421155	
		Thallium	0.10	U	ug/L	P421155	
		Hardness	4.1		mg/L	P421155	
2363643	SM 2340 B-2011	Oxybenzone**	10	U	ng/L	P421054	
	EPA 8270E	Acetochlor	0.26	U	ng/L	P421054	
		Octinoxate**	21	U	ng/L	P421054	
		Alachlor	0.26	U	ng/L	P421054	
		Avobenzone**	100	U	ng/L	P421054	
		Ametryn	0.62	U	ng/L	P421054	
		Atrazine	0.26	U	ng/L	P421054	
		PBDE-47**	4.1	U	ng/L	P421054	
		Atrazine Desethyl	1.5	U	ng/L	P421054	
		PBDE-99**	5.2	U	ng/L	P421054	
		Azinphos Methyl	2.1	U	ng/L	P421054	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P421054	
		Azoxystrobin	0.52	U	ng/L	P421054	

Field ID: G3NW0151

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2363643	EPA 8270E	Bromacil	0.52	U	ng/L	P421054	LCS
		2-Ethylhexyl	12	U	ng/L	P421054	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.41	U	ng/L	P421054	
		Dechlorane Plus**	31	U	ng/L	P421054	
		Caffeine**	7.7	U	ng/L	P421054	
		Carbophenothion	0.21	U	ng/L	P421054	
		Carfentrazone Ethyl	0.10	U	ng/L	P421054	
		Chlorfenapyr	0.18	U	ng/L	P421054	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P421054	
		Chlorpyrifos Methyl	0.052	U	ng/L	P421054	
		Coumaphos	0.52	U	ng/L	P421054	
		Cyanazine	3.4	U	ng/L	P421054	
		Cyprodinil	0.10	U	ng/L	P421054	
		Demeton	1.5	U	ng/L	P421054	
		Diazinon	0.13	U	ng/L	P421054	
		Difenoconazole	0.62	U	ng/L	P421054	
		Dimethenamid	0.10	U	ng/L	P421054	
		Dimethomorph	0.18	U	ng/L	P421054	
		Disulfoton	0.52	U	ng/L	P421054	
		Dithiopyr	0.64	U	ng/L	P421054	
		EPTC	1.3	U	ng/L	P421054	
		Ethion	0.15	UJ	ng/L	P421054	
		Ethoprop	0.10	U	ng/L	P421054	
		Etridiazole	0.15	U	ng/L	P421054	
		Fenamiphos	0.52	U	ng/L	P421054	
		Fenbuconazole	0.13	U	ng/L	P421054	
		Fipronil	0.26	U	ng/L	P421054	
		Fipronil Desulfinyl**	0.13	U	ng/L	P421054	
		Fipronil Sulfide	0.15	U	ng/L	P421054	
		Fipronil Sulfone	0.15	U	ng/L	P421054	
		Fluazifop-P-butyl	0.10	U	ng/L	P421054	
		Fludioxonil	0.13	U	ng/L	P421054	
		Flumioxazin	4.6	U	ng/L	P421054	
		Flutolanil	0.10	U	ng/L	P421054	
		Fluxapyroxad	0.10	U	ng/L	P421054	
		Fonofos	0.21	U	ng/L	P421054	RPD
		Hexazinone	0.52	U	ng/L	P421054	
		Imazalil	0.77	U	ng/L	P421054	
		Iprodione	0.62	U	ng/L	P421054	
		Loratadine**	0.36	U	ng/L	P421054	
		Malathion	0.36	U	ng/L	P421054	
		Metalaxyl	0.77	U	ng/L	P421054	
		Metolachlor	0.38	I	ng/L	P421054	
		Metribuzin	1.5	U	ng/L	P421054	

Field ID: G3NW0151

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2363643	EPA 8270E	Mevinphos	1.1	U	ng/L	P421054	LCS
		Molinate	0.31	U	ng/L	P421054	
		Myclobutanil	0.26	U	ng/L	P421054	
		Naled	1.5	U	ng/L	P421054	
		Napropamide	0.41	UJ	ng/L	P421054	
		Norflurazon	0.52	U	ng/L	P421054	
		Oxadiazon	0.31	U	ng/L	P421054	
		Oxyfluorfen	0.15	U	ng/L	P421054	
		Parathion Ethyl	0.26	U	ng/L	P421054	
		Parathion Methyl	0.57	U	ng/L	P421054	
		Pendimethalin	1.0	U	ng/L	P421054	
		Phenytoin**	3.6	U	ng/L	P421054	
		Phorate	0.54	U	ng/L	P421054	
		Prodiamine	0.18	U	ng/L	P421054	
		Prometon	0.93	U	ng/L	P421054	
		Prometryn	0.21	U	ng/L	P421054	
		Pronamide	0.15	U	ng/L	P421054	
		Propanil	0.13	U	ng/L	P421054	
		Propargite	1.5	U	ng/L	P421054	
		Propiconazole	0.52	U	ng/L	P421054	
		Pyraflufen Ethyl	0.26	U	ng/L	P421054	
		Pyridaben	0.46	U	ng/L	P421054	
		Pyriproxyfen	0.13	U	ng/L	P421054	
		Simazine	0.52	U	ng/L	P421054	
		Stirophos	0.13	U	ng/L	P421054	
		Sulfentrazone	0.52	U	ng/L	P421054	
		Tebuconazole	0.52	U	ng/L	P421054	
		Terbufos	0.10	U	ng/L	P421054	
		Terbutylazine	0.44	U	ng/L	P421054	
		Thiobencarb	0.62	U	ng/L	P421054	
		Triadimefon	0.26	U	ng/L	P421054	

Ref. Method and Comment:

SM 2540 C-2015: The reported result is consistent with the conductivity measured in the laboratory, 27 µmhos/cm.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8270E: MS accuracy for sulfentrazone not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P421152

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421118

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P421155

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	1.2	I	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421155

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: P421611

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: P421614

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421481

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421348

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421321

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421237

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P421110

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

Reference Method: EPA 8270E
Batch ID: P421054

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: P421054

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	0.62	U	ng/L
Dithiopyr	0.62	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: P421054

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	4.5	U	ng/L
Flumioxazin	4.5	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	0.35	U	ng/L
Loratadine	0.35	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	1.5	U	ng/L
Metribuzin	1.5	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: P421054

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: P421054

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: P421007

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: P421081

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	0.20	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: P421306

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P421306

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

Reference Method: SM 2540 C-2015
Batch ID: P421735

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P421401

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P421311

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P421557

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: P421152

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421118

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P421155

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	95.9		P	80 - 120
Iron	101		P	80 - 120
Magnesium	103		P	80 - 120
Potassium	102		P	80 - 120
Sodium	94.1		P	80 - 120
Strontium	103		P	80 - 120
Tin	104		P	80 - 120
Titanium	95.8		P	80 - 120
Vanadium	110		P	85 - 115
Zinc	98.7		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421155

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.9		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	103		P	85 - 115
Barium	101		P	85 - 115
Beryllium	91.1		P	85 - 115
Boron	108		P	85 - 115
Cadmium	99.6		P	85 - 115
Chromium	96.8		P	85 - 115
Cobalt	99.4		P	85 - 115
Copper	101		P	85 - 115
Lead	94.7		P	85 - 115
Manganese	97.2		P	85 - 115
Molybdenum	98.8		P	85 - 115
Nickel	101		P	85 - 115
Selenium	99.6		P	85 - 115
Silver	104		P	85 - 115
Thallium	95.4		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421611

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: P421614

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421481

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421348

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421321

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421237

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	109		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P421110

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

Reference Method: EPA 8270E
Batch ID: P421054

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	109		P	26 - 165
Acetochlor	107		P	69 - 123
Alachlor	101		P	65 - 118
Ametryn	77.2		P	54 - 216
Atrazine	93.2		P	73 - 118
Atrazine Desethyl	87.6		P	32 - 125
Avobenzone	124		P	37 - 178
Azinphos Methyl	116		P	40 - 292
Azoxystrobin	136		P	35 - 220
Bromacil	106		P	48 - 120
Butylate	66.8		P	27 - 85.0
Caffeine	92.8		P	40 - 137
Carbophenothion	95.5		P	57 - 127
Carfentrazone Ethyl	91.8		P	60 - 142
Chlorfenapyr	99.7		P	53 - 117
Chlorpyrifos Ethyl	83.0		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P421054

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	80.6		P	66 - 119
Coumaphos	181		P	11 - 234
Cyanazine	160		P	61 - 248
Cyprodinil	143		P	50 - 147
Dechlorane Plus	141		P	50 - 150
Demeton	82.0		P	30 - 138
Diazinon	104		P	67 - 126
Difenoconazole	190		P	38 - 205
Dimethenamid	71.5		P	57 - 111
Dimethomorph	209		P	16 - 212
Disulfoton	87.0		P	46 - 126
Dithiopyr	106		P	62 - 115
EPTC	65.5		P	28 - 80.0
Ethion	7.22		F	17 - 119
Ethoprop	97.7		P	66 - 120
Etridiazole	72.4		P	28 - 92.0
Fenamiphos	67.4		P	57 - 128
Fenbuconazole	75.8		P	42 - 169
Fipronil	117		P	63 - 130
Fipronil Desulfinyl	86.3		P	61 - 130
Fipronil Sulfide	102		P	56 - 117
Fipronil Sulfone	95.6		P	52 - 118
Fluazifop-P-butyl	80.4		P	61 - 128
Fludioxonil	123		P	59 - 129
Flumioxazin	70.8		P	30 - 250
Flutolanil	115		P	53 - 127
Fluxapyroxad	123		P	42 - 132
Fonofos	94.8		P	59 - 113
Hexazinone	85.0		P	46 - 139
Imazalil	129		P	40 - 139
Iprodione	53.7		P	43 - 150
Loratadine	180		P	10 - 224
Malathion	97.5		P	61 - 135
Metaxyl	111		P	58 - 121
Metolachlor	104		P	64 - 118
Metribuzin	100		P	45 - 245
Mevinphos	70.2		P	49 - 118
Molinate	76.6		P	42 - 92.0
Myclobutanil	98.6		P	55 - 127
Naled	103		P	10 - 114
Napropamide	2.34		F	39 - 110
Norflurazon	87.7		P	55 - 129
Octinoxate	98.0		P	21 - 159
Oxadiazon	101		P	54 - 115
Oxybenzone	104		P	41 - 142
Oxyfluorfen	94.9		P	64 - 139
Parathion Ethyl	98.5		P	70 - 111
Parathion Methyl	106		P	76 - 136
PBDE-47	89.8		P	27 - 144
PBDE-99	96.5		P	18 - 150
Pendimethalin	75.9		P	52 - 118
Phenytol	24.3		P	10 - 146

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P421054

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	73.2		P	40 - 122
Prodiamine	66.5		P	26 - 141
Prometon	117		P	54 - 122
Prometryn	126		P	61 - 128
Pronamide	115		P	72 - 121
Propanil	89.0		P	45 - 144
Propargite	136		P	10 - 199
Propiconazole	90.7		P	56 - 127
Pyraflufen Ethyl	55.8		P	34 - 153
Pyridaben	114		P	26 - 211
Pyriproxyfen	49.3		P	33 - 180
Simazine	86.8		P	67 - 121
Stirophos	77.4		P	20 - 142
Sulfentrazone	78.8		P	21 - 144
Tebuconazole	110		P	10 - 122
Terbufos	112		P	60 - 129
Terbutylazine	100		P	69 - 113
Thiobencarb	91.9		P	51 - 120
Tri-o-cresyl Phosphate	86.1		P	31 - 144
Triadimefon	112		P	56 - 114

Reference Method: EPA 8321B

Batch ID: P421007

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	101		P	40 - 150
Endothall	98.4		P	40 - 150
Glufosinate	106		P	40 - 150
Glyphosate	99.8		P	40 - 150
Sucralose	83.4		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P421081

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	89.2		P	30 - 160
2,4,5-T	85.2		P	30 - 160
Acetaminophen	95.5		P	30 - 150
Acetamiprid	85.2		P	30 - 160
Afidopyropen	51.7		P	30 - 160
Bentazon	108		P	30 - 150
Benzovindiflupyr	73.3		P	30 - 160
Carbamazepine	76.1		P	30 - 160
Clothianidin	95.6		P	30 - 160
Dinotefuran	98.6		P	30 - 160
Diuron	77.8		P	30 - 160
Fenuron	100		P	30 - 160
Fluridone	90.2		P	30 - 160
Hydrocodone	91.6		P	30 - 160
Ibuprofen	58.6		P	30 - 160
Imazapyr	92.2		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P421081

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Imidacloprid	95.7		P	30 - 160
Linuron	78.1		P	30 - 160
Mandestrobin	91.0		P	30 - 160
MCPP	103		P	30 - 160
Naproxen	76.9		P	30 - 160
Primidone	96.2		P	30 - 160
Pyraclostrobin	61.5		P	30 - 160
Silvex	71.2		P	30 - 160
Thiamethoxam	95.9		P	30 - 160
Tolfenpyrad	30.3		P	30 - 160
Triclopyr	81.3		P	30 - 160

Reference Method: SM 2320 B-2011

Batch ID: P421306

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.3		P	94 - 106

Reference Method: SM 2540 C-2015

Batch ID: P421735

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

Reference Method: SM 2540 D-2015

Batch ID: P421401

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.5		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P421311

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	96 - 104

Reference Method: SM 5310 B-2011

Batch ID: P421557

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P421155

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362929	Calcium	98.6		P	80 - 120
2362929	Iron	99.1	102	P/P	80 - 120
2362929	Magnesium	98.4	103	P/P	80 - 120
2362929	Potassium	98.0	98.0	P/P	80 - 120
2362929	Sodium	97.0		P	80 - 120
2362929	Strontium	100	101	P/P	80 - 120
2362929	Tin	102	103	P/P	80 - 120
2362929	Titanium	99.2	97.2	P/P	80 - 120
2362929	Vanadium	97.7	97.7	P/P	80 - 120
2362929	Zinc	96.4	95.8	P/P	80 - 120
2363082	Calcium	101		P	80 - 120
2363082	Iron	102		P	80 - 120
2363082	Magnesium	103		P	80 - 120
2363082	Potassium	100		P	80 - 120
2363082	Sodium	96.2		P	80 - 120
2363082	Strontium	98.3		P	80 - 120
2363082	Tin	98.1		P	80 - 120
2363082	Titanium	96.7		P	80 - 120
2363082	Vanadium	94.1		P	80 - 120
2363082	Zinc	93.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P421155

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362929	Aluminum	93.8	93.5	P/P	80 - 120
2362929	Antimony	101	102	P/P	80 - 120
2362929	Arsenic	101	102	P/P	80 - 120
2362929	Barium	101	102	P/P	80 - 120
2362929	Beryllium	84.2	83.5	P/P	80 - 120
2362929	Boron	103	103	P/P	80 - 120
2362929	Cadmium	102	102	P/P	80 - 120
2362929	Chromium	96.1	96.1	P/P	80 - 120
2362929	Cobalt	96.9	96.6	P/P	80 - 120
2362929	Copper	98.2	97.9	P/P	80 - 120
2362929	Lead	96.3	96.5	P/P	80 - 120
2362929	Manganese	96.5	97.5	P/P	80 - 120
2362929	Molybdenum	102	101	P/P	80 - 120
2362929	Nickel	98.8	97.8	P/P	80 - 120
2362929	Selenium	91.5	91.9	P/P	80 - 120
2362929	Silver	105	105	P/P	80 - 120
2362929	Thallium	98.4	99.1	P/P	80 - 120
2363082	Aluminum	96.1		P	80 - 120
2363082	Antimony	104		P	80 - 120
2363082	Arsenic	101		P	80 - 120
2363082	Barium	103		P	80 - 120
2363082	Beryllium	91.3		P	80 - 120
2363082	Boron	104		P	80 - 120
2363082	Cadmium	102		P	80 - 120
2363082	Chromium	97.1		P	80 - 120
2363082	Cobalt	96.3		P	80 - 120
2363082	Copper	99.5		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P421155

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2363082	Lead	97.9		P	80 - 120
2363082	Manganese	96.9		P	80 - 120
2363082	Molybdenum	99.4		P	80 - 120
2363082	Nickel	98.1		P	80 - 120
2363082	Selenium	95.9		P	80 - 120
2363082	Silver	105		P	80 - 120
2363082	Thallium	99.2		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P421611

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2363646	Chloride	100		P	90 - 110
2363649	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P421614

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2363646	Sulfate	101		P	90 - 110
2363649	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P421481

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2363591	Ammonia-N	102	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P421348

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2363074	Kjeldahl Nitrogen	102	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P421321

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2363651	NO2NO3-N	93.0	90.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P421237

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2363690	Total-P	106	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P421110

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2363694	O-Phosphate-P	104	103	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P421054

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362971	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	80.2	80.5	P/P	26 - 165
2362971	Acetochlor	116	103	P/P	67 - 124
2362971	Alachlor	101	99.6	P/P	60 - 120
2362971	Ametryn	138	117	P/P	54 - 216
2362971	Atrazine	89.8	97.4	P/P	66 - 128
2362971	Atrazine Desethyl	67.7	49.0	P/P	15 - 122
2362971	Avobenzone	93.7	100	P/P	37 - 178
2362971	Azinphos Methyl	180	205	P/P	40 - 292
2362971	Azoxystrobin	75.8	80.9	P/P	35 - 220
2362971	Bromacil	104	111	P/P	45 - 127
2362971	Butylate	61.3	51.0	P/P	20 - 83.0
2362971	Caffeine	96.1	93.7	P/P	10 - 194
2362971	Carbophenothion	90.0	75.4	P/P	57 - 127
2362971	Carfentrazone Ethyl	75.6	64.6	P/P	51 - 141
2362971	Chlorfenapyr	67.8	83.5	P/P	46 - 111
2362971	Chlorpyrifos Ethyl	70.7	87.4	P/P	52 - 120
2362971	Chlorpyrifos Methyl	76.0	64.2	P/P	63 - 119
2362971	Coumaphos	156	180	P/P	10 - 228
2362971	Cyanazine	138	198	P/P	59 - 241
2362971	Cyprodinil	121	143	P/P	47 - 146
2362971	Dechlorane Plus	111	113	P/P	50 - 150
2362971	Demeton	77.2	77.8	P/P	40 - 136
2362971	Diazinon	82.3	80.3	P/P	69 - 132
2362971	Difenoconazole	254	238	P/P	57 - 258
2362971	Dimethenamid	100	80.2	P/P	54 - 110
2362971	Dimethomorph	159	121	P/P	28 - 210
2362971	Disulfoton	86.5	80.8	P/P	43 - 133
2362971	Dithiopyr	94.5	101	P/P	39 - 116
2362971	EPTC	62.2	46.4	P/P	20 - 78.0
2362971	Ethion	74.1	72.8	P/P	17 - 119
2362971	Ethoprop	107	81.1	P/P	66 - 120
2362971	Etridiazole	61.7	57.7	P/P	28 - 96.0
2362971	Fenamiphos	96.6	93.6	P/P	41 - 126
2362971	Fenbuconazole	88.6	77.0	P/P	42 - 169
2362971	Fipronil	92.6	97.6	P/P	61 - 132
2362971	Fipronil Desulfinyl	62.5	67.5	P/P	56 - 132
2362971	Fipronil Sulfide	85.2	92.2	P/P	48 - 119
2362971	Fipronil Sulfone	67.8	88.4	P/P	42 - 131
2362971	Fluazifop-P-butyl	88.6	83.5	P/P	53 - 131
2362971	Fludioxonil	105	125	P/P	56 - 127
2362971	Flumioxazin	137	229	P/P	19 - 300
2362971	Flutolanil	111	115	P/P	41 - 127
2362971	Fluxapyroxad	103	137	P/P	42 - 172
2362971	Fonofos	60.2	85.9	P/P	59 - 113
2362971	Hexazinone	94.2	96.0	P/P	66 - 122
2362971	Imazalil	93.7	78.4	P/P	21 - 283
2362971	Iprodione	85.0	95.2	P/P	43 - 150
2362971	Loratadine	162	171	P/P	23 - 201
2362971	Malathion	89.6	119	P/P	58 - 136
2362971	Metalaxyl	112	86.2	P/P	55 - 120
2362971	Metolachlor	104	108	P/P	57 - 121
2362971	Metribuzin	83.5	90.1	P/P	58 - 294

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P421054

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362971	Mevinphos	62.9	64.1	P/P	50 - 126
2362971	Molinate	79.9	58.1	P/P	42 - 93.0
2362971	Myclobutanil	92.0	97.6	P/P	55 - 125
2362971	Naled	87.4	98.6	P/P	18 - 200
2362971	Napropamide	81.2	65.4	P/P	39 - 110
2362971	Norflurazon	93.9	120	P/P	48 - 128
2362971	Octinoxate	89.8	73.4	P/P	21 - 159
2362971	Oxadiazon	87.8	75.5	P/P	43 - 112
2362971	Oxybenzone	84.6	75.3	P/P	41 - 142
2362971	Oxyfluorfen	91.5	112	P/P	64 - 153
2362971	Parathion Ethyl	91.8	104	P/P	69 - 114
2362971	Parathion Methyl	90.4	112	P/P	79 - 139
2362971	PBDE-47	77.5	73.4	P/P	27 - 144
2362971	PBDE-99	68.3	73.7	P/P	18 - 150
2362971	Pendimethalin	70.3	72.5	P/P	50 - 139
2362971	Phenytoin	58.9	83.4	P/P	10 - 146
2362971	Phorate	67.1	58.9	P/P	54 - 161
2362971	Prodiamine	54.8	77.4	P/P	30 - 161
2362971	Prometon	105	108	P/P	45 - 134
2362971	Prometryn	99.4	92.2	P/P	45 - 137
2362971	Pronamide	125	100	P/P	65 - 133
2362971	Propanil	91.3	79.6	P/P	49 - 142
2362971	Propargite	201	174	P/P	10 - 203
2362971	Propiconazole	90.7	114	P/P	38 - 146
2362971	Pyraflufen Ethyl	48.4	50.0	P/P	34 - 153
2362971	Pyridaben	77.1	83.1	P/P	12 - 192
2362971	Pyriproxyfen	96.8	91.6	P/P	33 - 180
2362971	Simazine	87.9	86.4	P/P	51 - 157
2362971	Stirophos	57.9	82.0	P/P	10 - 128
2362971	Tebuconazole	38.6	52.5	P/P	10 - 133
2362971	Terbufos	86.6	84.7	P/P	65 - 139
2362971	Terbuthylazine	83.8	89.3	P/P	66 - 117
2362971	Thiobencarb	97.6	82.5	P/P	51 - 119
2362971	Tri-o-cresyl Phosphate	72.3	65.8	P/P	31 - 144
2362971	Triadimefon	96.1	87.5	P/P	48 - 119

Reference Method: EPA 8321B
Batch ID: P421007

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2363721	Acesulfame K	106	106	P/P	40 - 150
2363721	AMPA	107	117	P/P	40 - 150
2363721	Endothall	98.4	97.7	P/P	40 - 150
2363721	Glufosinate	108	111	P/P	40 - 150
2363721	Glyphosate	119	125	P/P	40 - 150
2363721	Sucralose	81.7	82.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P421081

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362969	2,4-D	93.0	97.2	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P421081

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2362969	2,4,5-T	82.9	91.1	P/P	30 - 160
2362969	Acetaminophen	98.3	103	P/P	30 - 150
2362969	Acetamiprid	93.5	92.2	P/P	30 - 160
2362969	Afidopyropen	75.1	64.1	P/P	30 - 160
2362969	Bentazon	53.6	72.1	P/P	30 - 150
2362969	Benzovindiflupyr	77.4	82.6	P/P	30 - 160
2362969	Carbamazepine	74.3	79.5	P/P	30 - 160
2362969	Clothianidin	93.9	97.3	P/P	30 - 160
2362969	Dinotefuran	106	110	P/P	30 - 160
2362969	Diuron	77.5	79.6	P/P	30 - 160
2362969	Fenuron	100	105	P/P	30 - 160
2362969	Fluridone	91.0	92.3	P/P	30 - 160
2362969	Hydrocodone	93.0	95.3	P/P	30 - 160
2362969	Ibuprofen	59.6	58.3	P/P	30 - 160
2362969	Imazapyr	92.1	96.2	P/P	30 - 160
2362969	Imidacloprid	113	122	P/P	30 - 160
2362969	Linuron	73.4	82.1	P/P	30 - 160
2362969	Mandestrobin	90.6	95.8	P/P	30 - 160
2362969	MCCP	103	109	P/P	30 - 160
2362969	Naproxen	70.1	75.8	P/P	30 - 160
2362969	Primidone	93.3	103	P/P	30 - 160
2362969	Pyraclostrobin	80.4	83.4	P/P	30 - 160
2362969	Silvex	76.3	81.9	P/P	30 - 160
2362969	Thiamethoxam	104	107	P/P	30 - 160
2362969	Tolfenpyrad	48.5	48.0	P/P	30 - 160
2362969	Triclopyr	79.8	86.4	P/P	30 - 160

Reference Method: SM 4500-F- C-2011

Batch ID: P421311

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2363260	Fluoride	97.8	97.8	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P421557

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2363637	Organic Carbon	97.0	96.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P421152

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363636	Color (true)	1.05	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421118

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363588	Turbidity	0.909	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P421155

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362929	Calcium	0.552	Spike	P	0 - 20
2362929	Iron	1.92	Spike	P	0 - 20
2362929	Magnesium	2.53	Spike	P	0 - 20
2362929	Potassium	0.0349	Spike	P	0 - 20
2362929	Sodium	0.628	Spike	P	0 - 20
2362929	Strontium	1.15	Spike	P	0 - 20
2362929	Tin	1.16	Spike	P	0 - 20
2362929	Titanium	1.99	Spike	P	0 - 20
2362929	Vanadium	0.0291	Spike	P	0 - 20
2362929	Zinc	0.637	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P421155

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362929	Aluminum	0.288	Spike	P	0 - 20
2362929	Antimony	0.943	Spike	P	0 - 20
2362929	Arsenic	0.616	Spike	P	0 - 20
2362929	Barium	0.452	Spike	P	0 - 20
2362929	Beryllium	0.718	Spike	P	0 - 20
2362929	Boron	0.0997	Spike	P	0 - 20
2362929	Cadmium	0.0767	Spike	P	0 - 20
2362929	Chromium	0.0375	Spike	P	0 - 20
2362929	Cobalt	0.290	Spike	P	0 - 20
2362929	Copper	0.314	Spike	P	0 - 20
2362929	Lead	0.216	Spike	P	0 - 20
2362929	Manganese	0.952	Spike	P	0 - 20
2362929	Molybdenum	0.612	Spike	P	0 - 20
2362929	Nickel	0.966	Spike	P	0 - 20
2362929	Selenium	0.384	Spike	P	0 - 20
2362929	Silver	0.566	Spike	P	0 - 20
2362929	Thallium	0.783	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421611

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363646	Chloride	0.372	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421614

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363646	Sulfate	0.383	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P421481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363591	Ammonia-N	0.812	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421348

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363074	Kjeldahl Nitrogen	0.395	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421321

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363651	NO2NO3-N	1.41	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421237

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363690	Total-P	2.03	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P421110

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363694	O-Phosphate-P	1.35	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P421054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362971	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	0.326	Spike	P	0 - 37
2362971	Acetochlor	12.1	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P421054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362971	Alachlor	1.54	Spike	P	0 - 30
2362971	Ametryn	16.4	Spike	P	0 - 32
2362971	Atrazine	6.46	Spike	P	0 - 41
2362971	Atrazine Desethyl	25.4	Spike	P	0 - 36
2362971	Avobenzone	6.93	Spike	P	0 - 36
2362971	Azinphos Methyl	12.9	Spike	P	0 - 75
2362971	Azoxystrobin	6.54	Spike	P	0 - 39
2362971	Bromacil	6.52	Spike	P	0 - 33
2362971	Butylate	18.4	Spike	P	0 - 44
2362971	Caffeine	2.46	Spike	P	0 - 74
2362971	Carbophenothion	17.6	Spike	P	0 - 25
2362971	Carfentrazone Ethyl	15.7	Spike	P	0 - 27
2362971	Chlorfenapyr	20.8	Spike	P	0 - 24
2362971	Chlorpyrifos Ethyl	21.1	Spike	P	0 - 26
2362971	Chlorpyrifos Methyl	16.9	Spike	P	0 - 26
2362971	Coumaphos	14.0	Spike	P	0 - 28
2362971	Cyanazine	35.6	Spike	P	0 - 48
2362971	Cyprodinil	16.4	Spike	P	0 - 29
2362971	Dechlorane Plus	1.51	Spike	P	0 - 30
2362971	Demeton	0.767	Spike	P	0 - 33
2362971	Diazinon	2.41	Spike	P	0 - 29
2362971	Difenoconazole	6.60	Spike	P	0 - 34
2362971	Dimethenamid	22.2	Spike	P	0 - 39
2362971	Dimethomorph	27.5	Spike	P	0 - 51
2362971	Disulfoton	6.75	Spike	P	0 - 30
2362971	Dithiopyr	6.32	Spike	P	0 - 26
2362971	EPTC	29.1	Spike	P	0 - 43
2362971	Ethion	1.77	Spike	P	0 - 79
2362971	Ethoprop	27.4	Spike	P	0 - 29
2362971	Etridiazole	6.62	Spike	P	0 - 33
2362971	Fenamiphos	3.11	Spike	P	0 - 40
2362971	Fenbuconazole	14.0	Spike	P	0 - 74
2362971	Fipronil	5.29	Spike	P	0 - 29
2362971	Fipronil Desulfanyl	7.76	Spike	P	0 - 32
2362971	Fipronil Sulfide	7.91	Spike	P	0 - 30
2362971	Fipronil Sulfone	20.7	Spike	P	0 - 33
2362971	Fluazifop-P-butyl	5.90	Spike	P	0 - 38
2362971	Fludioxonil	17.3	Spike	P	0 - 29
2362971	Flumioxazin	50.6	Spike	P	0 - 51
2362971	Flutolanil	3.11	Spike	P	0 - 25
2362971	Fluxapyroxad	27.6	Spike	P	0 - 45
2362971	Fonofos	35.1	Spike	F	0 - 27
2362971	Hexazinone	1.89	Spike	P	0 - 30
2362971	Imazalil	17.7	Spike	P	0 - 100
2362971	Iprodione	11.3	Spike	P	0 - 33
2362971	Loratadine	5.53	Spike	P	0 - 56
2362971	Malathion	28.3	Spike	P	0 - 37
2362971	Metalaxyl	26.4	Spike	P	0 - 40
2362971	Metolachlor	3.77	Spike	P	0 - 29
2362971	Metribuzin	7.62	Spike	P	0 - 45
2362971	Mevinphos	1.80	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P421054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362971	Molinate	31.6	Spike	P	0 - 33
2362971	Myclobutanil	5.89	Spike	P	0 - 26
2362971	Naled	12.1	Spike	P	0 - 37
2362971	Napropamide	21.5	Spike	P	0 - 44
2362971	Norflurazon	24.1	Spike	P	0 - 30
2362971	Octinoxate	20.1	Spike	P	0 - 45
2362971	Oxadiazon	15.1	Spike	P	0 - 28
2362971	Oxybenzone	11.7	Spike	P	0 - 46
2362971	Oxyfluorfen	20.3	Spike	P	0 - 28
2362971	Parathion Ethyl	12.3	Spike	P	0 - 31
2362971	Parathion Methyl	21.2	Spike	P	0 - 29
2362971	PBDE-47	5.43	Spike	P	0 - 36
2362971	PBDE-99	7.49	Spike	P	0 - 40
2362971	Pendimethalin	3.04	Spike	P	0 - 33
2362971	Phenytoin	34.5	Spike	P	0 - 100
2362971	Phorate	13.1	Spike	P	0 - 36
2362971	Prodiamine	34.2	Spike	P	0 - 71
2362971	Prometon	2.98	Spike	P	0 - 36
2362971	Prometryn	7.55	Spike	P	0 - 28
2362971	Pronamide	22.2	Spike	P	0 - 24
2362971	Propanil	13.6	Spike	P	0 - 28
2362971	Propargite	14.0	Spike	P	0 - 43
2362971	Propiconazole	22.5	Spike	P	0 - 33
2362971	Pyraflufen Ethyl	3.08	Spike	P	0 - 29
2362971	Pyridaben	7.49	Spike	P	0 - 30
2362971	Pyriproxyfen	5.62	Spike	P	0 - 79
2362971	Simazine	1.68	Spike	P	0 - 29
2362971	Stirophos	34.4	Spike	P	0 - 61
2362971	Sulfentrazone	14.4	Spike	P	0 - 33
2362971	Tebuconazole	30.6	Spike	P	0 - 69
2362971	Terbufos	2.22	Spike	P	0 - 29
2362971	Terbutylazine	6.37	Spike	P	0 - 32
2362971	Thiobencarb	16.8	Spike	P	0 - 26
2362971	Tri-o-cresyl Phosphate	9.51	Spike	P	0 - 33
2362971	Triadimefon	9.39	Spike	P	0 - 28

Reference Method: EPA 8321B
Batch ID: P421007

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363721	Acesulfame K	0.105	Spike	P	0 - 30
2363721	AMPA	8.75	Spike	P	0 - 30
2363721	Endothall	0.762	Spike	P	0 - 30
2363721	Glufosinate	3.32	Spike	P	0 - 30
2363721	Glyphosate	4.19	Spike	P	0 - 30
2363721	Sucralose	0.737	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P421081

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2362969	2,4-D	4.42	Spike	P	0 - 30
2362969	2,4,5-T	9.52	Spike	P	0 - 30
2362969	Acetaminophen	5.09	Spike	P	0 - 30
2362969	Acetamiprid	1.38	Spike	P	0 - 30
2362969	Afidopyropen	15.8	Spike	P	0 - 30
2362969	Bentazon	2.49	Spike	P	0 - 30
2362969	Benzovindiflupyr	6.61	Spike	P	0 - 30
2362969	Carbamazepine	5.39	Spike	P	0 - 30
2362969	Clothianidin	3.26	Spike	P	0 - 30
2362969	Dinotefuran	3.82	Spike	P	0 - 30
2362969	Diuron	2.66	Spike	P	0 - 30
2362969	Fenuron	4.30	Spike	P	0 - 30
2362969	Fluridone	1.44	Spike	P	0 - 30
2362969	Hydrocodone	2.43	Spike	P	0 - 30
2362969	Ibuprofen	2.18	Spike	P	0 - 30
2362969	Imazapyr	3.75	Spike	P	0 - 30
2362969	Imidacloprid	7.27	Spike	P	0 - 30
2362969	Linuron	11.2	Spike	P	0 - 30
2362969	Mandestrobin	5.58	Spike	P	0 - 30
2362969	MCP	5.13	Spike	P	0 - 30
2362969	Naproxen	7.76	Spike	P	0 - 30
2362969	Primidone	9.22	Spike	P	0 - 30
2362969	Pyraclostrobin	3.63	Spike	P	0 - 30
2362969	Silvex	7.08	Spike	P	0 - 30
2362969	Thiamethoxam	2.83	Spike	P	0 - 30
2362969	Tolfenpyrad	0.912	Spike	P	0 - 30
2362969	Triclopyr	7.99	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P421306

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363260	Total Alkalinity	0.317	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P421735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363803	TDS	6.09	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P421311

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363260	Fluoride	0.0	Spike	P	0 - 1.6

Quality Assurance Report

Precision

Reference Method: SM 5310 B-2011
Batch ID: P421557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2363637	Organic Carbon	0.474	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2363641

Field Sample ID: G3NW0151

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	100	P	30 - 160
EPA 8321B	Acetaminophen-d4	105	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.5	P	30 - 160
EPA 8321B	Diuron-d6	82.7	P	30 - 160
EPA 8321B	Endothall-d6	99.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	74.5	P	30 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Sucralose-d6	90.1	P	30 - 160

Lab Sample ID: 2363643

Field Sample ID: G3NW0151

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	79.9	P	20 - 200
EPA 8270E	Simazine-d10	85.5	P	62 - 142
EPA 8270E	Terbufos-d10	95.0	P	58 - 132
EPA 8270E	Terphenyl-d14	92.0	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A115397

Included Lab Sample IDs: 2363638

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: A115399

Included Lab Sample IDs: 2363636

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: A115417

Included Lab Sample IDs: 2363636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.0	98.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115447

Included Lab Sample IDs: 2363641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	101	97.1	P/P	60 - 160
Sucralose	80.3	87.0	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A115451

Included Lab Sample IDs: 2363637

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.0	97.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115462

Included Lab Sample IDs: 2363641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	111	104	P/P	60 - 160
Endothall	104	99.2	P/P	60 - 160
Glufosinate	108	95.3	P/P	60 - 160
Glyphosate	107	99.6	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115464

Included Lab Sample IDs: 2363637

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A115473

Included Lab Sample IDs: 2363642

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	96.9	96.4	P/P	90 - 110
Antimony	100	99.2	P/P	90 - 110
Arsenic	100	100	P/P	90 - 110
Barium	100	98.0	P/P	90 - 110
Boron	104	102	P/P	90 - 110
Cadmium	102	101	P/P	90 - 110
Chromium	94.7	94.8	P/P	90 - 110
Cobalt	94.4	94.3	P/P	90 - 110
Copper	96.9	96.4	P/P	90 - 110
Lead	98.5	97.9	P/P	90 - 110
Manganese	94.9	94.8	P/P	90 - 110
Molybdenum	102	99.8	P/P	90 - 110
Nickel	96.1	95.3	P/P	90 - 110
Selenium	99.5	98.8	P/P	90 - 110
Silver	104	101	P/P	90 - 110
Thallium	99.7	98.0	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A115475

Included Lab Sample IDs: 2363636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.7	99.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A115475

Included Lab Sample IDs: 2363636

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115479

Included Lab Sample IDs: 2363637

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	94.5	92.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115492

Included Lab Sample IDs: 2363641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	109	104	P/P	50 - 150
2,4,5-T	117	127	P/P	50 - 150
Acetaminophen	112	113	P/P	60 - 160
Acetamiprid	112	113	P/P	50 - 150
Afidopyropen	104	104	P/P	50 - 150
Bentazon	127	122	P/P	50 - 160
Benzovindiflupyr	99.4	102	P/P	50 - 160
Carbamazepine	100	99.2	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A115492
Included Lab Sample IDs: 2363641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Clothianidin	104	105	P/P	60 - 150
Dinotefuran	110	110	P/P	50 - 150
Diuron	110	108	P/P	60 - 160
Fenuron	114	113	P/P	60 - 150
Fluridone	105	100	P/P	60 - 160
Hydrocodone	103	104	P/P	60 - 150
Ibuprofen	124	120	P/P	50 - 160
Imazapyr	110	106	P/P	50 - 150
Imidacloprid	106	111	P/P	60 - 150
Linuron	106	111	P/P	60 - 150
Mandestrobin	108	110	P/P	50 - 150
MCPP	121	126	P/P	50 - 150
Naproxen	77.3	82.2	P/P	50 - 160
Primidone	113	110	P/P	60 - 150
Pyraclostrobin	105	106	P/P	60 - 150
Silvex	106	114	P/P	50 - 150
Thiamethoxam	111	110	P/P	50 - 150
Tolfenpyrad	105	105	P/P	60 - 150
Triclopyr	127	128	P/P	50 - 150

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A115496
Included Lab Sample IDs: 2363642

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	96.5	95.5	P/P	90 - 110
Iron	97.2	96.3	P/P	90 - 110
Magnesium	97.4	96.3	P/P	90 - 110
Potassium	95.7	95.1	P/P	90 - 110
Sodium	95.4	94.3	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A115504
Included Lab Sample IDs: 2363643

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.0		P	80 - 120
Avobenzone	102		P	80 - 120
Dechlorane Plus	106		P	80 - 120
Octinoxate	102		P	80 - 120
Oxybenzone	101		P	80 - 120
PBDE-47	98.6		P	80 - 120
PBDE-99	101		P	80 - 120
Tri-o-cresyl Phosphate	98.4		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A115524
Included Lab Sample IDs: 2363642

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	94.4	94.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A115528

Included Lab Sample IDs: 2363642

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tin	93.2	94.5	P/P	90 - 110
Vanadium	91.5	93.3	P/P	90 - 110
Zinc	90.3	92.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115539

Included Lab Sample IDs: 2363637

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A115545

Included Lab Sample IDs: 2363637

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A115558

Included Lab Sample IDs: 2363636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.4	98.6	P/P	90 - 110
Sulfate	99.2	99.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115581

Included Lab Sample IDs: 2363643

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	89.0		P	80 - 120
Alachlor	98.1		P	80 - 120
Ametryn	98.5		P	80 - 120
Atrazine	104		P	80 - 120
Atrazine Desethyl	83.5		P	80 - 120
Azinphos Methyl	92.1		P	80 - 120
Azoxystrobin	88.6		P	80 - 120
Bromacil	98.7		P	80 - 120
Butylate	108		P	80 - 120
Caffeine	98.5		P	80 - 120
Carfentrazone Ethyl	81.7		P	80 - 120
Chlorfenapyr	90.8		P	80 - 120
Chlorpyrifos Ethyl	106		P	80 - 120
Chlorpyrifos Methyl	91.2		P	80 - 120
Coumaphos	100		P	80 - 120
Cyanazine	105		P	80 - 120
Cyprodinil	110		P	80 - 120
Demeton	94.8		P	80 - 120
Diazinon	98.4		P	80 - 120
Difenoconazole	101		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
Run ID: A115581
Included Lab Sample IDs: 2363643

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dimethenamid	101		P	80 - 120
Dimethomorph	105		P	80 - 120
Disulfoton	100		P	80 - 120
Dithiopyr	104		P	80 - 120
EPTC	103		P	80 - 120
Ethoprop	90.0		P	80 - 120
Etridiazole	104		P	80 - 120
Fenamiphos	98.4		P	80 - 120
Fenbuconazole	92.0		P	80 - 120
Fipronil	90.9		P	80 - 120
Fipronil Desulfinyl	94.2		P	80 - 120
Fipronil Sulfide	114		P	80 - 120
Fipronil Sulfone	84.3		P	80 - 120
Fluazifop-P-butyl	81.7		P	80 - 120
Fludioxonil	82.6		P	80 - 120
Flumioxazin	83.9		P	80 - 120
Flutolanil	95.8		P	80 - 120
Fluxapyroxad	84.1		P	80 - 120
Hexazinone	98.0		P	80 - 120
Imazalil	87.8		P	80 - 120
Iprodione	84.4		P	80 - 120
Loratadine	90.8		P	80 - 120
Malathion	88.9		P	80 - 120
Metalaxyl	108		P	80 - 120
Metolachlor	87.8		P	80 - 120
Metribuzin	96.0		P	80 - 120
Mevinphos	106		P	80 - 120
Molinate	97.6		P	80 - 120
Myclobutanil	96.3		P	80 - 120
Naled	108		P	80 - 120
Napropamide	91.3		P	80 - 120
Norflurazon	83.8		P	80 - 120
Oxadiazon	87.6		P	80 - 120
Oxyfluorfen	89.0		P	80 - 120
Parathion Ethyl	116		P	80 - 120
Parathion Methyl	92.8		P	80 - 120
Pendimethalin	104		P	80 - 120
Phenytol	97.8		P	80 - 120
Phorate	92.2		P	80 - 120
Prodiamine	95.8		P	80 - 120
Prometon	93.2		P	80 - 120
Prometryn	108		P	80 - 120
Pronamide	107		P	80 - 120
Propanil	88.9		P	80 - 120
Propargite	91.8		P	80 - 120
Propiconazole	83.5		P	80 - 120
Pyridaben	89.6		P	80 - 120
Pyriproxyfen	92.7		P	80 - 120
Simazine	98.7		P	80 - 120
Stirophos	88.3		P	80 - 120
Sulfentrazone	84.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A115581
Included Lab Sample IDs: 2363643

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tebuconazole	89.9		P	80 - 120
Terbufos	108		P	80 - 120
Terbutylazine	117		P	80 - 120
Thiobencarb	94.0		P	80 - 120
Triadimefon	110		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A115613
Included Lab Sample IDs: 2363642

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Strontium	102	101	P/P	90 - 110
Titanium	103	101	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A115663
Included Lab Sample IDs: 2363643

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbophenothion	95.9		P	80 - 120
Ethion	96.0		P	80 - 120
Fonofos	92.7		P	80 - 120
Pyraflufen Ethyl	89.0		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	99.8				1.05	
EPA 180.1 Rev. 2.0	Turbidity	102				0.909	
EPA 200.7 Rev. 4.4	Calcium	95.9	98.6	101			0.552
	Iron	101	99.1	102	102		1.92
	Magnesium	103	98.4	103	103		2.53
	Potassium	102	98.0	98.0	100		0.0349
	Sodium	94.1	97.0	96.2			0.628
	Strontium	103	100	101	98.3		1.15
	Tin	104	102	103	98.1		1.16
	Titanium	95.8	99.2	97.2	96.7		1.99
	Vanadium	110	97.7	97.7	94.1		0.0291
	Zinc	98.7	96.4	95.8	93.9		0.637
EPA 200.8 Rev. 5.4	Aluminum	97.9	93.8	93.5	96.1		0.288
	Antimony	100	101	102	104		0.943
	Arsenic	103	101	102	101		0.616
	Barium	101	101	102	103		0.452
	Beryllium	91.1	91.3	84.2	83.5		0.718
	Boron	108	103	103	104		0.0997
	Cadmium	99.6	102	102	102		0.0767
	Chromium	96.8	96.1	96.1	97.1		0.0375
	Cobalt	99.4	96.9	96.6	96.3		0.290
	Copper	101	98.2	97.9	99.5		0.314
	Lead	94.7	96.3	96.5	97.9		0.216
	Manganese	97.2	96.5	97.5	96.9		0.952
	Molybdenum	98.8	102	101	99.4		0.612
	Nickel	101	98.8	97.8	98.1		0.966
	Selenium	99.6	91.5	91.9	95.9		0.384
	Silver	104	105	105	105		0.566
	Thallium	95.4	98.4	99.1	99.2		0.783
EPA 300.0 Rev. 2.1	Chloride	102	100	101		0.372	
	Sulfate	104	101	101		0.383	
EPA 350.1 Rev. 2.0	Ammonia-N	94.6	102	101			0.812
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	102	101			0.395
EPA 353.2 Rev. 2.0	NO2NO3-N	97.5	93.0	90.8			1.41
EPA 365.1 Rev. 2.0	Total-P	109	106	108			2.03
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	103	104	103			1.35
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	109	80.2	80.5			0.326
	Acetochlor	107	116	103			12.1
	Alachlor	101	101	99.6			1.54
	Ametryn	77.2	138	117			16.4
	Atrazine	93.2	89.8	97.4			6.46
	Atrazine Desethyl	87.6	67.7	49.0			25.4
	Avobenzone	124	93.7	100			6.93
	Azinphos Methyl	116	180	205			12.9
	Azoxystrobin	136	75.8	80.9			6.54
	Bromacil	106	104	111			6.52
	Butylate	66.8	61.3	51.0			18.4
	Caffeine	92.8	96.1	93.7			2.46
	Carbophenothion	95.5	90.0	75.4			17.6
	Carfentrazone Ethyl	91.8	75.6	64.6			15.7
	Chlorfenapyr	99.7	67.8	83.5			20.8
	Chlorpyrifos Ethyl	83.0	70.7	87.4			21.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorpyrifos Methyl	80.6	76.0	64.2			16.9
	Coumaphos	181	156	180			14.0
	Cyanazine	160	138	198			35.6
	Cyprodinil	143	121	143			16.4
	Dechlorane Plus	141	111	113			1.51
	Demeton	82.0	77.2	77.8			0.767
	Diazinon	104	82.3	80.3			2.41
	Difenoconazole	190	254	238			6.60
	Dimethenamid	71.5	100	80.2			22.2
	Dimethomorph	209	159	121			27.5
	Disulfoton	87.0	86.5	80.8			6.75
	Dithiopyr	106	94.5	101			6.32
	EPTC	65.5	62.2	46.4			29.1
	Ethion	7.22	74.1	72.8			1.77
	Ethoprop	97.7	107	81.1			27.4
	Etridiazole	72.4	61.7	57.7			6.62
	Fenamiphos	67.4	96.6	93.6			3.11
	Fenbuconazole	75.8	88.6	77.0			14.0
	Fipronil	117	92.6	97.6			5.29
	Fipronil Desulfinyl	86.3	62.5	67.5			7.76
	Fipronil Sulfide	102	85.2	92.2			7.91
	Fipronil Sulfone	95.6	67.8	88.4			20.7
	Fluazifop-P-butyl	80.4	88.6	83.5			5.90
	Fludioxonil	123	105	125			17.3
	Flumioxazin	70.8	137	229			50.6
	Flutolanil	115	111	115			3.11
	Fluxapyroxad	123	103	137			27.6
	Fonofos	94.8	60.2	85.9			35.1
	Hexazinone	85.0	94.2	96.0			1.89
	Imazalil	129	93.7	78.4			17.7
	Iprodione	53.7	85.0	95.2			11.3
	Loratadine	180	162	171			5.53
	Malathion	97.5	89.6	119			28.3
	Metalaxyl	111	112	86.2			26.4
	Metolachlor	104	104	108			3.77
	Metribuzin	100	83.5	90.1			7.62
	Mevinphos	70.2	62.9	64.1			1.80
	Molinate	76.6	79.9	58.1			31.6
	Myclobutanil	98.6	92.0	97.6			5.89
	Naled	103	87.4	98.6			12.1
	Napropamide	2.34	81.2	65.4			21.5
	Norflurazon	87.7	93.9	120			24.1
	Octinoxate	98.0	89.8	73.4			20.1
	Oxadiazon	101	87.8	75.5			15.1
	Oxybenzone	104	84.6	75.3			11.7
	Oxyfluorfen	94.9	91.5	112			20.3
	Parathion Ethyl	98.5	91.8	104			12.3
	Parathion Methyl	106	90.4	112			21.2
	PBDE-47	89.8	77.5	73.4			5.43
	PBDE-99	96.5	68.3	73.7			7.49
	Pendimethalin	75.9	70.3	72.5			3.04
	Phenytoin	24.3	58.9	83.4			34.5
	Phorate	73.2	67.1	58.9			13.1
	Prodimamine	66.5	54.8	77.4			34.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Prometon	117	105	108			2.98
	Prometryn	126	99.4	92.2			7.55
	Pronamide	115	125	100			22.2
	Propanil	89.0	91.3	79.6			13.6
	Propargite	136	201	174			14.0
	Propiconazole	90.7	90.7	114			22.5
	Pyraflufen Ethyl	55.8	48.4	50.0			3.08
	Pyridaben	114	77.1	83.1			7.49
	Pyriproxyfen	49.3	96.8	91.6			5.62
	Simazine	86.8	87.9	86.4			1.68
	Stirophos	77.4	57.9	82.0			34.4
	Sulfentrazone	78.8					14.4
	Tebuconazole	110	38.6	52.5			30.6
	Terbufos	112	86.6	84.7			2.22
	Terbuthylazine	100	83.8	89.3			6.37
	Thiobencarb	91.9	97.6	82.5			16.8
	Tri-o-cresyl Phosphate	86.1	72.3	65.8			9.51
	Triadimefon	112	96.1	87.5			9.39
EPA 8321B	2,4-D	89.2	93.0	97.2			4.42
	2,4,5-T	85.2	82.9	91.1			9.52
	Acesulfame K	101	106	106			0.105
	Acetaminophen	95.5	98.3	103			5.09
	Acetamiprid	85.2	93.5	92.2			1.38
	Afidopyropen	51.7	75.1	64.1			15.8
	AMPA	101	107	117			8.75
	Bentazon	108	53.6	72.1			2.49
	Benzovindiflupyr	73.3	77.4	82.6			6.61
	Carbamazepine	76.1	74.3	79.5			5.39
	Clothianidin	95.6	93.9	97.3			3.26
	Dinotefuran	98.6	106	110			3.82
	Diuron	77.8	77.5	79.6			2.66
	Endothall	98.4	98.4	97.7			0.762
	Fenuron	100	100	105			4.30
	Fluridone	90.2	91.0	92.3			1.44
	Glufosinate	106	108	111			3.32
	Glyphosate	99.8	119	125			4.19
	Hydrocodone	91.6	93.0	95.3			2.43
	Ibuprofen	58.6	59.6	58.3			2.18
	Imazapyr	92.2	92.1	96.2			3.75
	Imidacloprid	95.7	113	122			7.27
	Linuron	78.1	73.4	82.1			11.2
	Mandestrobin	91.0	90.6	95.8			5.58
	MCPP	103	103	109			5.13
	Naproxen	76.9	70.1	75.8			7.76
	Primidone	96.2	93.3	103			9.22
	Pyraclostrobin	61.5	80.4	83.4			3.63
	Silvex	71.2	76.3	81.9			7.08
	Sucralose	83.4	81.7	82.3			0.737
	Thiamethoxam	95.9	104	107			2.83
	Tolfenpyrad	30.3	48.5	48.0			0.912
	Triclopyr	81.3	79.8	86.4			7.99
SM 2320 B-2011	Total Alkalinity	99.3				0.317	
SM 2540 C-2015	TDS	97.9				6.09	
SM 2540 D-2015	TSS	96.5					

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 4500-F- C-2011	Fluoride	98.2	97.8	97.8		0.0
SM 5310 B-2011	Organic Carbon	98.3	97.0	96.5		0.474

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2363636
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2363636
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2363642
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2363642
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2363636
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2363636
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2363637
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2363637
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2363637
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2363637
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2363638
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2363643
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2363643
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2363641
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2363636
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2363642
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2363636
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2363636
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2363636
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2363637

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	10/19/2022			10/19/2022 15:54	Blanca Fach	2363636
EPA 180.1 Rev. 2.0	10/19/2022			10/19/2022 15:15	Khloe J Berg	2363636
EPA 200.7 Rev. 4.4	10/19/2022	10/20/2022 11:37	George D Taylor	10/25/2022 06:49	McKinley C Carter	2363642
	10/19/2022	10/20/2022 11:37	George D Taylor	10/26/2022 00:58	McKinley C Carter	2363642
	10/19/2022	10/20/2022 11:37	George D Taylor	10/29/2022 05:29	McKinley C Carter	2363642
EPA 200.8 Rev. 5.4	10/19/2022	10/20/2022 11:37	George D Taylor	10/21/2022 20:39	Emily M Philpot	2363642
	10/19/2022	10/20/2022 11:37	George D Taylor	10/25/2022 23:28	Emily M Philpot	2363642
EPA 300.0 Rev. 2.1	10/19/2022			10/28/2022 08:04	Anna M. Plaviak	2363636
EPA 350.1 Rev. 2.0	10/19/2022			10/26/2022 14:21	Judith K. Clark	2363637
EPA 351.2 Rev. 2.0	10/19/2022	10/25/2022 12:01	Alexandra J Mattheus	10/26/2022 12:00	Samantha L Bates	2363637
EPA 353.2 Rev. 2.0	10/19/2022			10/24/2022 10:34	Beverly Y. Sanders	2363637
EPA 365.1 Rev. 2.0	10/19/2022	10/21/2022 14:01	Adam P Silver	10/23/2022 12:52	James L Waggeberby	2363637
EPA 365.1 Rev. 2.0 dissolved	10/19/2022			10/19/2022 15:54	Elise M. Gillis	2363638
EPA 8270E	10/19/2022	10/20/2022 08:00	Fe-Val Siddell	10/24/2022 20:05	Lipi Saha	2363643
	10/19/2022	10/20/2022 08:00	Fe-Val Siddell	10/26/2022 21:15	Michael Poppell	2363643
	10/19/2022	10/20/2022 08:00	Fe-Val Siddell	10/31/2022 20:43	Michael Poppell	2363643
EPA 8321B	10/19/2022	10/20/2022 09:00	Umesh Chiluwal	10/20/2022 11:58	Umesh Chiluwal	2363641
	10/19/2022	10/20/2022 09:00	Umesh Chiluwal	10/21/2022 18:27	Umesh Chiluwal	2363641
	10/19/2022	10/20/2022 09:30	June Rhew	10/24/2022 21:40	Juyoung Kim	2363641
SM 2320 B-2011	10/19/2022			10/22/2022 13:57	Dale L. Simmons	2363636
SM 2340 B-2011	10/19/2022			10/25/2022 06:49	McKinley C Carter	2363642
SM 2540 C-2015	10/19/2022			10/21/2022 17:06	Yijie Li	2363636
SM 2540 D-2015	10/19/2022			10/21/2022 17:06	Yijie Li	2363636
SM 4500-F- C-2011	10/19/2022			10/22/2022 13:57	Dale L. Simmons	2363636
SM 5310 B-2011	10/19/2022			10/20/2022 23:54	Khloe J Berg	2363637