

Chemical Analysis Report

NW-DIST-2022-12-21-04

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

Event Description: **SCI**
Request ID: **RQ-2022-12-19-18**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
Pensacola, FL 32502-5794
Attn: Myranda Butler

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Certified by: Colin Wright, Program Administrator

Date Certified: 18-JAN-2023 16:27

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Pond Creek West of Headwaters of Blackwater Bay **Collection Date/Time: 12/20/2022 12:30**

Field ID: G4NW0277

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2377086	DEP SOP: NU-094-1	Color (true)	21		PCU	P423845	
	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P423848	
	EPA 300.0 Rev. 2.1	Chloride	4.7		mg Cl/L	P424400	
		Sulfate	0.97		mg SO4/L	P424209	
	SM 2320 B-2011	Total Alkalinity	1.6	IQ	mg CaCO3/L	P424167	
	SM 2540 C-2015	TDS	26		mg/L	P424227	
	SM 2540 D-2015	TSS	2	U	mg/L	P424117	
2377087	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P424515	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P424305	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.18	I	mg N/L	P424049	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.57		mg N/L	P424015	
	EPA 365.1 Rev. 2.0	Total-P	0.004	I	mg P/L	P424135	
2377088	SM 5310 B-2011	Organic Carbon	2.0		mg C/L	P424182	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P423850	
2377095	EPA 8321B	2,4-D	0.0020	U	ug/L	P423825	
		Acesulfame K	0.10	U	ug/L	P423755	
		2,4,5-T	0.0040	U	ug/L	P423825	
		AMPA	0.10	U	ug/L	P423755	
		Acetaminophen	0.0080	U	ug/L	P423825	
		Acetamiprid	0.0020	U	ug/L	P423825	
		Endothall	0.25	U	ug/L	P423755	MS
		Glufosinate	0.10	U	ug/L	P423755	
		Glyphosate	0.10	U	ug/L	P423755	
		Afidopyropen	0.0020	U	ug/L	P423825	
		Bentazon	8.0E-04	U	ug/L	P423825	
		Sucralose	0.31		ug/L	P423755	
		Benzovindiflupyr	0.0020	U	ug/L	P423825	
		Carbamazepine	8.0E-04	U	ug/L	P423825	
		Clothianidin	0.0020	U	ug/L	P423825	
		Dinotefuran	0.0020	U	ug/L	P423825	
		Diuron	0.0020	U	ug/L	P423825	
		Fenuron	0.032	U	ug/L	P423825	
		Fluridone	8.0E-04	U	ug/L	P423825	
		Imazapyr	0.0040	U	ug/L	P423825	
		Hydrocodone	0.0020	U	ug/L	P423825	
		Ibuprofen	0.20	U	ug/L	P423825	
		Imidacloprid	0.014		ug/L	P423825	
		Linuron	0.0040	U	ug/L	P423825	
		Mandestrobin	0.0020	U	ug/L	P423825	
		MCP	0.0040	U	ug/L	P423825	
		Naproxen	0.0080	U	ug/L	P423825	
		Primidone	0.0040	U	ug/L	P423825	

Field ID: G4NW0277

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2377095	EPA 8321B	Pyraclostrobin	0.0020	U	ug/L	P423825	
		Silvex	0.0040	U	ug/L	P423825	
		Thiamethoxam	0.0020	U	ug/L	P423825	
		Tolfenpyrad	0.0020	U	ug/L	P423825	
		Triclopyr	0.0040	U	ug/L	P423825	
2377096	EPA 200.7 Rev. 4.4	Calcium	1.06		mg/L	P423890	
		Iron	210		ug/L	P423890	
		Magnesium	0.83		mg/L	P423890	
		Potassium	0.43	I	mg/L	P423890	
		Sodium	2.6		mg/L	P423890	
		Strontium	8.0		ug/L	P423890	
		Tin	3.0	U	ug/L	P423890	
		Titanium	2.4	I	ug/L	P423890	
		Vanadium	2.0	U	ug/L	P423890	
		Zinc	5.0	U	ug/L	P423890	
	EPA 200.8 Rev. 5.4	Aluminum	92		ug/L	P423890	
		Antimony	0.050	U	ug/L	P423890	
		Arsenic	0.10	I	ug/L	P423890	
		Barium	18.0		ug/L	P423890	
		Beryllium	0.022	I	ug/L	P423890	
		Boron	10.3		ug/L	P423890	
		Cadmium	0.020	U	ug/L	P423890	
		Chromium	0.40	U	ug/L	P423890	
		Cobalt	0.255		ug/L	P423890	
		Copper	0.40	U	ug/L	P423890	
		Lead	0.20	U	ug/L	P423890	
		Manganese	13.6		ug/L	P423890	
		Molybdenum	0.15	U	ug/L	P423890	
		Nickel	0.50	U	ug/L	P423890	
		Selenium	0.20	U	ug/L	P423890	
		Silver	0.010	U	ug/L	P423890	
		Thallium	0.10	U	ug/L	P423890	
	SM 2340 B-2011	Hardness	6.1		mg/L	P423890	
2377097	EPA 8270E	Oxybenzone**	9.9	UQ	ng/L	P423959	
		Acetochlor	0.25	UQ	ng/L	P423959	
		Octinoxate**	20	UQ	ng/L	P423959	
		Alachlor	0.25	UQ	ng/L	P423959	
		Avobenzone**	99	UQ	ng/L	P423959	
		Ametryn	0.60	UQ	ng/L	P423959	
		Atrazine	3.5	Q	ng/L	P423959	
		PBDE-47**	4.0	UQ	ng/L	P423959	
		Atrazine Desethyl	1.9	IQ	ng/L	P423959	
		PBDE-99**	5.0	UQ	ng/L	P423959	
		Azinphos Methyl	2.0	UQ	ng/L	P423959	
		Tri-o-cresyl Phosphate**	6.0	UQ	ng/L	P423959	

Field ID: G4NW0277

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2377097	EPA 8270E	Azoxystrobin	0.50	UQ	ng/L	P423959	
		Bromacil	1.2	IQ	ng/L	P423959	
		2-Ethylhexyl	12	UQ	ng/L	P423959	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.40	UQ	ng/L	P423959	
		Dechlorane Plus**	30	UQ	ng/L	P423959	
		Caffeine**	7.5	UQ	ng/L	P423959	
		Carbophenothion	0.20	UQ	ng/L	P423959	
		Carfentrazone Ethyl	0.099	UQ	ng/L	P423959	
		Chlorfenapyr	0.17	UQ	ng/L	P423959	
		Chlorpyrifos Ethyl	0.25	UQ	ng/L	P423959	
		Chlorpyrifos Methyl	0.050	UQ	ng/L	P423959	
		Coumaphos	0.50	UQ	ng/L	P423959	
		Cyanazine	3.2	UQ	ng/L	P423959	
		Cyprodinil	0.099	UQ	ng/L	P423959	
		Demeton	1.5	UQ	ng/L	P423959	
		Diazinon	0.12	UQ	ng/L	P423959	
		Difenoconazole	0.60	UQ	ng/L	P423959	
		Dimethenamid	0.099	UQ	ng/L	P423959	
		Dimethomorph	0.17	UQ	ng/L	P423959	MS
		Disulfoton	0.50	UQ	ng/L	P423959	
		Dithiopyr	0.62	UQ	ng/L	P423959	
		EPTC	1.2	UQ	ng/L	P423959	
		Ethion	0.15	UQ	ng/L	P423959	
		Ethoprop	0.099	UQ	ng/L	P423959	
		Etridiazole	0.15	UQ	ng/L	P423959	
		Fenamiphos	0.50	UQ	ng/L	P423959	
		Fenbuconazole	0.12	UQ	ng/L	P423959	
		Fipronil	0.26	IQ	ng/L	P423959	
		Fipronil Desulfinyl**	0.12	UQ	ng/L	P423959	
		Fipronil Sulfide	0.15	UQ	ng/L	P423959	
		Fipronil Sulfone	1.4	Q	ng/L	P423959	
		Fluazifop-P-butyl	0.099	UQ	ng/L	P423959	
		Fludioxonil	0.12	UQ	ng/L	P423959	
		Flumioxazin	4.5	UQ	ng/L	P423959	
		Flutolanil	0.15	IQ	ng/L	P423959	
		Fluxapyroxad	0.099	UQ	ng/L	P423959	
		Fonofos	0.20	UQ	ng/L	P423959	
		Hexazinone	8.0	Q	ng/L	P423959	
		Imazalil	0.75	UQ	ng/L	P423959	
		Iprodione	0.60	UQ	ng/L	P423959	
		Loratadine**	0.35	UQ	ng/L	P423959	
		Malathion	0.35	UQ	ng/L	P423959	
		Metalaxyl	0.75	UQ	ng/L	P423959	
		Metolachlor	7.3	Q	ng/L	P423959	

Field ID: G4NW0277

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2377097	EPA 8270E	Metribuzin	1.5	UQ	ng/L	P423959	
		Mevinphos	1.0	UQ	ng/L	P423959	
		Molinate	0.30	UQ	ng/L	P423959	
		Myclobutanil	0.25	UQ	ng/L	P423959	
		Naled	1.5	UQ	ng/L	P423959	
		Napropamide	0.40	UQ	ng/L	P423959	
		Norflurazon	0.50	UQ	ng/L	P423959	
		Oxadiazon	0.30	UQ	ng/L	P423959	
		Oxyfluorfen	0.15	UQ	ng/L	P423959	
		Parathion Ethyl	0.25	UQ	ng/L	P423959	
		Parathion Methyl	0.55	UQ	ng/L	P423959	
		Pendimethalin	0.99	UQ	ng/L	P423959	
		Phenytol**	3.5	UQ	ng/L	P423959	
		Phorate	0.52	UQ	ng/L	P423959	
		Prodiamine	0.17	UQ	ng/L	P423959	
		Prometon	0.89	UQ	ng/L	P423959	
		Prometryn	0.20	UQ	ng/L	P423959	
		Pronamide	0.15	UQ	ng/L	P423959	
		Propanil	0.12	UQ	ng/L	P423959	
		Propargite	1.5	UQ	ng/L	P423959	
		Propiconazole	0.50	UQ	ng/L	P423959	
		Pyraflufen Ethyl	0.25	UQ	ng/L	P423959	
		Pyridaben	0.45	UQ	ng/L	P423959	
		Pyriproxyfen	0.12	UQ	ng/L	P423959	
		Simazine	0.50	UQ	ng/L	P423959	
		Stirophos	0.12	UQ	ng/L	P423959	
		Sulfentrazone	0.50	UQ	ng/L	P423959	
		Tebuconazole	0.50	UQ	ng/L	P423959	
		Terbufos	0.099	UQ	ng/L	P423959	MS
		Terbutylazine	0.42	UQ	ng/L	P423959	
		Thiobencarb	0.60	UQ	ng/L	P423959	
		Triadimefon	0.25	UQ	ng/L	P423959	

Ref. Method and Comment:

SM 2320 B-2011: The sample was analyzed out of hold time because the HVAC system in the laboratory was down resulting in excessively cold temperatures.

EPA 8270E: The sample was prepared out of hold time because the HVAC system in the laboratory was down resulting in excessively cold temperatures.

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. The sample was prepared out of hold time because the HVAC system in the laboratory was down resulting in excessively cold temperatures.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P423845

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423848

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423890

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: P423890

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	E	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: P424209

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424400

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424305

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P424049

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P424015

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P424135

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423850

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

Reference Method: EPA 8270E
Batch ID: P423959

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: P423959

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: P423959

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: P423959

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: P423959

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: P423755

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: P423825

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: P424167

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P424167

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

Reference Method: SM 2540 C-2015
Batch ID: P424227

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P424117

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P424515

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P424182

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: P423845

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423848

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423890

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	94.3		P	85 - 115
Iron	97.6		P	85 - 115
Magnesium	99.7		P	85 - 115
Potassium	94.6		P	85 - 115
Sodium	96.4		P	85 - 115
Strontium	102		P	85 - 115
Tin	98.4		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	98.6		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423890

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.5		P	85 - 115
Antimony	104		P	85 - 115
Arsenic	103		P	85 - 115
Barium	104		P	85 - 115
Beryllium	94.7		P	85 - 115
Boron	97.3		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	97.7		P	85 - 115
Cobalt	104		P	85 - 115
Copper	106		P	85 - 115
Lead	95.0		P	85 - 115
Manganese	100		P	85 - 115
Molybdenum	102		P	85 - 115
Nickel	106		P	85 - 115
Selenium	106		P	85 - 115
Silver	103		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424209

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P424400

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P424305

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P424049

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P424015

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	105		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P424135

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P423850

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

Reference Method: EPA 8270E

Batch ID: P423959

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.4		P	42 - 162
Acetochlor	89.4		P	69 - 123
Alachlor	82.2		P	65 - 118
Ametryn	96.2		P	58 - 141
Atrazine	95.9		P	73 - 118
Atrazine Desethyl	72.7		P	32 - 125
Avobenzone	114		P	40 - 203
Azinphos Methyl	107		P	36 - 197
Azoxystrobin	95.4		P	58 - 226
Bromacil	72.0		P	48 - 120
Butylate	58.1		P	27 - 85.0
Caffeine	104		P	40 - 137
Carbophenothion	89.3		P	54 - 132
Carfentrazone Ethyl	102		P	60 - 142
Chlorfenapyr	87.9		P	53 - 117
Chlorpyrifos Ethyl	87.8		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P423959

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	88.6		P	66 - 119
Coumaphos	95.2		P	11 - 234
Cyanazine	90.5		P	61 - 248
Cyprodinil	93.9		P	50 - 147
Dechlorane Plus	99.4		P	47 - 182
Demeton	74.7		P	30 - 138
Diazinon	89.5		P	67 - 126
Difenoconazole	109		P	38 - 205
Dimethenamid	73.3		P	57 - 111
Dimethomorph	106		P	16 - 212
Disulfoton	68.4		P	46 - 126
Dithiopyr	89.3		P	62 - 115
EPTC	54.7		P	28 - 80.0
Ethion	86.9		P	24 - 122
Ethoprop	78.3		P	62 - 113
Etridiazole	59.6		P	28 - 92.0
Fenamiphos	93.9		P	57 - 128
Fenbuconazole	103		P	52 - 155
Fipronil	90.7		P	63 - 130
Fipronil Desulfinyl	96.8		P	61 - 130
Fipronil Sulfide	87.6		P	56 - 117
Fipronil Sulfone	88.3		P	52 - 118
Fluazifop-P-butyl	91.5		P	61 - 128
Fludioxonil	93.2		P	59 - 129
Flumioxazin	108		P	30 - 250
Flutolanil	98.0		P	53 - 127
Fluxapyroxad	90.8		P	42 - 132
Fonofos	73.9		P	61 - 110
Hexazinone	95.4		P	46 - 139
Imazalil	93.6		P	40 - 139
Iprodione	77.5		P	40 - 146
Loratadine	98.9		P	10 - 224
Malathion	93.1		P	61 - 135
Metaxyl	94.8		P	58 - 121
Metolachlor	94.1		P	64 - 118
Metribuzin	90.8		P	45 - 245
Mevinphos	72.3		P	49 - 118
Molinate	62.8		P	42 - 92.0
Myclobutanil	83.8		P	55 - 127
Naled	99.0		P	10 - 114
Napropamide	99.4		P	39 - 121
Norflurazon	93.7		P	55 - 129
Octinoxate	90.1		P	26 - 166
Oxadiazon	82.4		P	54 - 115
Oxybenzone	89.3		P	49 - 135
Oxyfluorfen	79.1		P	64 - 139
Parathion Ethyl	90.2		P	70 - 111
Parathion Methyl	100		P	76 - 136
PBDE-47	98.3		P	41 - 148
PBDE-99	99.4		P	38 - 147
Pendimethalin	83.2		P	52 - 118
Phenytol	14.5		P	10 - 162

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P423959

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	65.4		P	40 - 122
Prodiamine	61.1		P	26 - 141
Prometon	85.1		P	54 - 122
Prometryn	84.9		P	61 - 128
Pronamide	96.1		P	72 - 121
Propanil	96.4		P	45 - 144
Propargite	96.4		P	10 - 199
Propiconazole	98.0		P	56 - 127
Pyraflufen Ethyl	98.3		P	56 - 140
Pyridaben	90.4		P	26 - 211
Pyriproxyfen	98.4		P	33 - 194
Simazine	90.7		P	67 - 121
Stirophos	93.1		P	20 - 142
Sulfentrazone	24.3		P	21 - 144
Tebuconazole	86.9		P	10 - 122
Terbufos	95.3		P	60 - 129
Terbutylazine	84.1		P	69 - 113
Thiobencarb	83.2		P	51 - 120
Tri-o-cresyl Phosphate	100		P	49 - 150
Triadimefon	71.0		P	56 - 114

Reference Method: EPA 8321B

Batch ID: P423755

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	71.4		P	40 - 150
AMPA	90.8		P	40 - 150
Endothall	124		P	40 - 150
Glufosinate	106		P	40 - 150
Glyphosate	108		P	40 - 150
Sucralose	122		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P423825

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	89.5		P	40 - 150
2,4,5-T	76.1		P	40 - 150
Acetaminophen	80.5		P	30 - 150
Acetamiprid	73.3		P	40 - 150
Afidopyropen	56.1		P	30 - 150
Bentazon	97.4		P	30 - 150
Benzovindiflupyr	79.9		P	40 - 150
Carbamazepine	90.0		P	40 - 150
Clothianidin	82.5		P	40 - 150
Dinotefuran	81.8		P	40 - 150
Diuron	90.9		P	40 - 150
Fenuron	93.9		P	40 - 150
Fluridone	89.2		P	40 - 150
Hydrocodone	86.1		P	40 - 150
Ibuprofen	91.6		P	40 - 150
Imazapyr	88.3		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P423825

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Imidacloprid	90.3		P	40 - 150
Linuron	68.5		P	40 - 150
Mandestrobin	88.3		P	40 - 150
MCPP	97.9		P	40 - 150
Naproxen	84.9		P	40 - 150
Primidone	85.2		P	40 - 150
Pyraclostrobin	76.5		P	40 - 150
Silvex	77.8		P	40 - 150
Thiamethoxam	87.8		P	40 - 150
Tolfenpyrad	48.0		P	30 - 150
Triclopyr	80.2		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P424167

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.0		P	94 - 106

Reference Method: SM 2540 C-2015

Batch ID: P424227

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.9		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P424117

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	88.6		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P424515

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	96 - 104

Reference Method: SM 5310 B-2011

Batch ID: P424182

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P423890

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377032	Calcium	104	102	P/P	80 - 120
2377032	Iron	92.7	94.9	P/P	80 - 120
2377032	Magnesium	94.0	96.0	P/P	80 - 120
2377032	Potassium	89.3	91.2	P/P	80 - 120
2377032	Sodium	89.3	91.3	P/P	80 - 120
2377032	Strontium	101	102	P/P	80 - 120
2377032	Tin	93.9	95.1	P/P	80 - 120
2377032	Titanium	97.1	102	P/P	80 - 120
2377032	Vanadium	93.7	94.6	P/P	80 - 120
2377032	Zinc	101	100	P/P	80 - 120
2377096	Calcium	103		P	80 - 120
2377096	Iron	104		P	80 - 120
2377096	Magnesium	107		P	80 - 120
2377096	Potassium	96.9		P	80 - 120
2377096	Sodium	105		P	80 - 120
2377096	Strontium	112		P	80 - 120
2377096	Tin	104		P	80 - 120
2377096	Titanium	99.0		P	80 - 120
2377096	Vanadium	104		P	80 - 120
2377096	Zinc	98.5		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P423890

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377032	Aluminum	98.4	102	P/P	80 - 120
2377032	Antimony	104	107	P/P	80 - 120
2377032	Arsenic	102	104	P/P	80 - 120
2377032	Barium	104	106	P/P	80 - 120
2377032	Beryllium	97.3	102	P/P	80 - 120
2377032	Boron	98.3	99.8	P/P	80 - 120
2377032	Cadmium	105	108	P/P	80 - 120
2377032	Chromium	99.2	102	P/P	80 - 120
2377032	Cobalt	102	106	P/P	80 - 120
2377032	Copper	106	108	P/P	80 - 120
2377032	Lead	96.0	98.4	P/P	80 - 120
2377032	Manganese	101	104	P/P	80 - 120
2377032	Molybdenum	102	105	P/P	80 - 120
2377032	Nickel	104	107	P/P	80 - 120
2377032	Selenium	106	108	P/P	80 - 120
2377032	Silver	103	105	P/P	80 - 120
2377032	Thallium	103	106	P/P	80 - 120
2377096	Aluminum	101		P	80 - 120
2377096	Antimony	107		P	80 - 120
2377096	Arsenic	102		P	80 - 120
2377096	Barium	107		P	80 - 120
2377096	Beryllium	100		P	80 - 120
2377096	Boron	102		P	80 - 120
2377096	Cadmium	107		P	80 - 120
2377096	Chromium	103		P	80 - 120
2377096	Cobalt	105		P	80 - 120
2377096	Copper	109		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P423890

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377096	Lead	98.6		P	80 - 120
2377096	Manganese	106		P	80 - 120
2377096	Molybdenum	105		P	80 - 120
2377096	Nickel	108		P	80 - 120
2377096	Selenium	109		P	80 - 120
2377096	Silver	105		P	80 - 120
2377096	Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P424209

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376969	Sulfate	95.4		P	90 - 110
2377150	Sulfate	95.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P424400

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376969	Chloride	97.8		P	90 - 110
2377150	Chloride	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P424305

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377017	Ammonia-N	99.6	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P424049

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376971	Kjeldahl Nitrogen	101	99.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P424015

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377078	NO2NO3-N	105	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P424135

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377087	Total-P	105	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P423850

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377101	O-Phosphate-P	97.8	97.1	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P423959

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377292	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107	103	P/P	26 - 165
2377292	Acetochlor	89.3	86.4	P/P	67 - 124
2377292	Alachlor	78.7	77.1	P/P	60 - 120
2377292	Ametryn	108	106	P/P	54 - 216
2377292	Atrazine Desethyl	64.7	66.6	P/P	15 - 122
2377292	Avobenzone	135	126	P/P	37 - 178
2377292	Azinphos Methyl	146	136	P/P	40 - 292
2377292	Azoxystrobin	79.0	73.5	P/P	35 - 220
2377292	Bromacil	89.3	84.8	P/P	45 - 127
2377292	Butylate	44.5	40.9	P/P	20 - 83.0
2377292	Carbophenothion	95.7	92.1	P/P	57 - 127
2377292	Carfentrazone Ethyl	94.8	83.4	P/P	51 - 141
2377292	Chlorfenapyr	78.8	71.7	P/P	46 - 111
2377292	Chlorpyrifos Ethyl	100	83.6	P/P	52 - 120
2377292	Chlorpyrifos Methyl	115	116	P/P	63 - 119
2377292	Coumaphos	98.4	93.3	P/P	10 - 228
2377292	Cyanazine	160	147	P/P	59 - 241
2377292	Cyprodinil	99.5	101	P/P	47 - 146
2377292	Dechlorane Plus	91.6	88.5	P/P	50 - 150
2377292	Demeton	99.9	99.3	P/P	40 - 136
2377292	Diazinon	104	93.4	P/P	69 - 132
2377292	Difenoconazole	173	163	P/P	57 - 258
2377292	Dimethenamid	69.9	64.0	P/P	54 - 110
2377292	Dimethomorph	212	201	F/P	28 - 210
2377292	Disulfoton	63.9	61.9	P/P	43 - 133
2377292	Dithiopyr	84.6	82.3	P/P	39 - 116
2377292	EPTC	34.0	32.9	P/P	20 - 78.0
2377292	Ethion	86.5	78.8	P/P	17 - 119
2377292	Ethoprop	118	117	P/P	66 - 120
2377292	Etridiazole	50.5	45.5	P/P	28 - 96.0
2377292	Fenamiphos	81.0	88.5	P/P	41 - 126
2377292	Fenbuconazole	116	104	P/P	42 - 169
2377292	Fipronil	98.9	92.6	P/P	61 - 132
2377292	Fipronil Desulfinyl	115	105	P/P	56 - 132
2377292	Fipronil Sulfide	99.4	104	P/P	48 - 119
2377292	Fluazifop-P-butyl	84.6	77.9	P/P	53 - 131
2377292	Fludioxonil	94.6	88.6	P/P	56 - 127
2377292	Flumioxazin	283	261	P/P	19 - 300
2377292	Fluxapyroxad	120	106	P/P	42 - 172
2377292	Fonofos	112	108	P/P	59 - 113
2377292	Hexazinone	106	94.1	P/P	66 - 122
2377292	Imazalil	103	107	P/P	21 - 283
2377292	Iprodione	89.6	79.5	P/P	43 - 150
2377292	Loratadine	161	156	P/P	23 - 201
2377292	Malathion	105	94.0	P/P	58 - 136
2377292	Metalaxyl	107	105	P/P	55 - 120
2377292	Metolachlor	89.0	83.7	P/P	57 - 121
2377292	Metribuzin	112	105	P/P	58 - 294
2377292	Mevinphos	106	94.2	P/P	50 - 126
2377292	Molinate	56.1	53.7	P/P	42 - 93.0
2377292	Myclobutanil	92.1	78.9	P/P	55 - 125
2377292	Naled	82.0	76.3	P/P	18 - 200

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P423959

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377292	Napropamide	98.2	91.4	P/P	39 - 110
2377292	Norflurazon	87.9	81.8	P/P	48 - 128
2377292	Octinoxate	79.3	79.3	P/P	21 - 159
2377292	Oxybenzone	64.1	64.4	P/P	41 - 142
2377292	Oxyfluorfen	142	121	P/P	64 - 153
2377292	Parathion Ethyl	99.1	89.9	P/P	69 - 114
2377292	Parathion Methyl	128	121	P/P	79 - 139
2377292	PBDE-47	88.6	89.5	P/P	27 - 144
2377292	PBDE-99	92.9	89.7	P/P	18 - 150
2377292	Pendimethalin	139	138	P/P	50 - 139
2377292	Phenytol	55.2	51.2	P/P	10 - 146
2377292	Phorate	104	98.4	P/P	54 - 161
2377292	Prodiamine	34.4	34.0	P/P	30 - 161
2377292	Prometon	107	98.2	P/P	45 - 134
2377292	Prometryn	89.4	81.7	P/P	45 - 137
2377292	Pronamide	113	98.1	P/P	65 - 133
2377292	Propanil	113	102	P/P	49 - 142
2377292	Propargite	91.2	81.7	P/P	10 - 203
2377292	Propiconazole	87.6	76.2	P/P	38 - 146
2377292	Pyraflufen Ethyl	99.6	86.4	P/P	34 - 153
2377292	Pyridaben	130	96.0	P/P	12 - 192
2377292	Pyriproxyfen	99.0	93.9	P/P	33 - 180
2377292	Stirophos	98.9	90.7	P/P	10 - 128
2377292	Tebuconazole	81.6	77.5	P/P	10 - 133
2377292	Terbufos	150	140	F/F	65 - 139
2377292	Terbutylazine	87.0	75.6	P/P	66 - 117
2377292	Thiobencarb	72.4	66.7	P/P	51 - 119
2377292	Tri-o-cresyl Phosphate	82.9	84.6	P/P	31 - 144
2377292	Triadimefon	95.0	77.2	P/P	48 - 119

Reference Method: EPA 8321B

Batch ID: P423755

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376518	Acesulfame K	46.9	41.6	P/P	40 - 150
2376518	AMPA	87.8	90.6	P/P	40 - 150
2376518	Endothall	157	155	F/F	40 - 150
2376518	Glufosinate	124	124	P/P	40 - 150
2376518	Glyphosate	117	105	P/P	40 - 150
2376518	Sucralose	97.1	101	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P423825

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376968	2,4-D	97.0	75.4	P/P	40 - 150
2376968	2,4,5-T	78.5	60.9	P/P	40 - 150
2376968	Acetaminophen	90.3	86.6	P/P	30 - 150
2376968	Acetamiprid	86.9	68.8	P/P	40 - 150
2376968	Afidopyropen	66.9	53.4	P/P	30 - 150
2376968	Bentazon	58.1	64.0	P/P	30 - 150
2376968	Benzovindiflupyr	92.2	79.0	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P423825

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2376968	Carbamazepine	84.1	77.4	P/P	40 - 150
2376968	Clothianidin	105	90.9	P/P	40 - 150
2376968	Dinotefuran	102	89.8	P/P	40 - 150
2376968	Diuron	85.1	73.9	P/P	40 - 150
2376968	Fenuron	93.1	83.3	P/P	40 - 150
2376968	Fluridone	81.6	78.4	P/P	40 - 150
2376968	Hydrocodone	98.1	84.1	P/P	40 - 150
2376968	Ibuprofen	92.2	80.3	P/P	40 - 150
2376968	Imazapyr	120	105	P/P	40 - 150
2376968	Imidacloprid	143	114	P/P	40 - 150
2376968	Linuron	78.9	71.1	P/P	40 - 150
2376968	Mandestrobin	96.1	85.6	P/P	40 - 150
2376968	MCPP	102	79.0	P/P	40 - 150
2376968	Naproxen	83.4	74.0	P/P	40 - 150
2376968	Primidone	114	98.2	P/P	40 - 150
2376968	Pyraclostrobin	85.3	76.7	P/P	40 - 150
2376968	Silvex	79.8	69.7	P/P	40 - 150
2376968	Thiamethoxam	116	98.4	P/P	40 - 150
2376968	Tolfenpyrad	56.2	52.1	P/P	30 - 150
2376968	Triclopyr	80.2	61.1	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P424515

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377253	Fluoride	95.1	97.3	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P424182

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377374	Organic Carbon	97.4	96.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P423845

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376995	Color (true)	1.98	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423848

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376906	Turbidity	5.24	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377032	Calcium	1.86	Spike	P	0 - 20
2377032	Iron	2.26	Spike	P	0 - 20
2377032	Magnesium	1.88	Spike	P	0 - 20
2377032	Potassium	1.85	Spike	P	0 - 20
2377032	Sodium	1.62	Spike	P	0 - 20
2377032	Strontium	1.79	Spike	P	0 - 20
2377032	Tin	1.37	Spike	P	0 - 20
2377032	Titanium	5.15	Spike	P	0 - 20
2377032	Vanadium	1.04	Spike	P	0 - 20
2377032	Zinc	0.697	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377032	Aluminum	2.65	Spike	P	0 - 20
2377032	Antimony	2.10	Spike	P	0 - 20
2377032	Arsenic	2.38	Spike	P	0 - 20
2377032	Barium	2.42	Spike	P	0 - 20
2377032	Beryllium	4.14	Spike	P	0 - 20
2377032	Boron	1.49	Spike	P	0 - 20
2377032	Cadmium	2.68	Spike	P	0 - 20
2377032	Chromium	2.71	Spike	P	0 - 20
2377032	Cobalt	3.35	Spike	P	0 - 20
2377032	Copper	1.89	Spike	P	0 - 20
2377032	Lead	2.47	Spike	P	0 - 20
2377032	Manganese	2.58	Spike	P	0 - 20
2377032	Molybdenum	2.81	Spike	P	0 - 20
2377032	Nickel	2.55	Spike	P	0 - 20
2377032	Selenium	2.31	Spike	P	0 - 20
2377032	Silver	1.55	Spike	P	0 - 20
2377032	Thallium	2.93	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424209

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376969	Sulfate	1.76	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424400

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376969	Chloride	0.284	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424305

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377017	Ammonia-N	1.49	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P424049

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376971	Kjeldahl Nitrogen	1.00	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P424015

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377078	NO2NO3-N	0.477	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P424135

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377087	Total-P	0.499	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423850

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377101	O-Phosphate-P	0.663	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P423959

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377292	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	3.33	Spike	P	0 - 37
2377292	Acetochlor	3.21	Spike	P	0 - 28

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P423959

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377292	Alachlor	1.98	Spike	P	0 - 30
2377292	Ametryn	1.59	Spike	P	0 - 32
2377292	Atrazine	11.4	Spike	P	0 - 41
2377292	Atrazine Desethyl	1.19	Spike	P	0 - 36
2377292	Avobenzone	6.61	Spike	P	0 - 36
2377292	Azinphos Methyl	7.60	Spike	P	0 - 75
2377292	Azoxystrobin	3.82	Spike	P	0 - 39
2377292	Bromacil	5.19	Spike	P	0 - 33
2377292	Butylate	8.42	Spike	P	0 - 44
2377292	Caffeine	0.707	Spike	P	0 - 74
2377292	Carbophenothion	3.77	Spike	P	0 - 25
2377292	Carfentrazone Ethyl	12.9	Spike	P	0 - 27
2377292	Chlorfenapyr	9.33	Spike	P	0 - 24
2377292	Chlorpyrifos Ethyl	18.0	Spike	P	0 - 26
2377292	Chlorpyrifos Methyl	0.781	Spike	P	0 - 26
2377292	Coumaphos	5.35	Spike	P	0 - 28
2377292	Cyanazine	8.12	Spike	P	0 - 48
2377292	Cyprodinil	1.09	Spike	P	0 - 29
2377292	Dechlorane Plus	3.43	Spike	P	0 - 30
2377292	Demeton	0.634	Spike	P	0 - 33
2377292	Diazinon	10.3	Spike	P	0 - 29
2377292	Difenoconazole	5.70	Spike	P	0 - 34
2377292	Dimethenamid	8.78	Spike	P	0 - 39
2377292	Dimethomorph	5.28	Spike	P	0 - 51
2377292	Disulfoton	3.15	Spike	P	0 - 30
2377292	Dithiopyr	2.66	Spike	P	0 - 26
2377292	EPTC	3.33	Spike	P	0 - 43
2377292	Ethion	9.28	Spike	P	0 - 79
2377292	Ethoprop	0.750	Spike	P	0 - 29
2377292	Etridiazole	10.3	Spike	P	0 - 33
2377292	Fenamiphos	8.91	Spike	P	0 - 40
2377292	Fenbuconazole	10.9	Spike	P	0 - 74
2377292	Fipronil	6.01	Spike	P	0 - 29
2377292	Fipronil Desulfanyl	6.30	Spike	P	0 - 32
2377292	Fipronil Sulfide	3.20	Spike	P	0 - 30
2377292	Fipronil Sulfone	7.06	Spike	P	0 - 33
2377292	Fluazifop-P-butyl	8.34	Spike	P	0 - 38
2377292	Fludioxonil	6.56	Spike	P	0 - 29
2377292	Flumioxazin	5.26	Spike	P	0 - 51
2377292	Flutolanil	2.41	Spike	P	0 - 25
2377292	Fluxapyroxad	9.56	Spike	P	0 - 45
2377292	Fonofos	4.37	Spike	P	0 - 27
2377292	Hexazinone	8.17	Spike	P	0 - 30
2377292	Imazalil	3.32	Spike	P	0 - 100
2377292	Iprodione	12.0	Spike	P	0 - 33
2377292	Loratadine	3.51	Spike	P	0 - 56
2377292	Malathion	11.4	Spike	P	0 - 37
2377292	Metalaxyl	1.94	Spike	P	0 - 40
2377292	Metolachlor	5.66	Spike	P	0 - 29
2377292	Metribuzin	6.57	Spike	P	0 - 45
2377292	Mevinphos	11.4	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P423959

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377292	Molinate	4.36	Spike	P	0 - 33
2377292	Myclobutanil	13.7	Spike	P	0 - 26
2377292	Naled	7.22	Spike	P	0 - 37
2377292	Napropamide	7.13	Spike	P	0 - 44
2377292	Norflurazon	7.10	Spike	P	0 - 30
2377292	Octinoxate	0.0535	Spike	P	0 - 45
2377292	Oxadiazon	2.27	Spike	P	0 - 28
2377292	Oxybenzone	0.365	Spike	P	0 - 46
2377292	Oxyfluorfen	16.0	Spike	P	0 - 28
2377292	Parathion Ethyl	9.78	Spike	P	0 - 31
2377292	Parathion Methyl	6.10	Spike	P	0 - 29
2377292	PBDE-47	1.03	Spike	P	0 - 36
2377292	PBDE-99	3.49	Spike	P	0 - 40
2377292	Pendimethalin	0.602	Spike	P	0 - 33
2377292	Phenytoin	7.38	Spike	P	0 - 100
2377292	Phorate	5.70	Spike	P	0 - 36
2377292	Prodiamine	1.10	Spike	P	0 - 71
2377292	Prometon	8.38	Spike	P	0 - 36
2377292	Prometryn	8.99	Spike	P	0 - 28
2377292	Pronamide	13.7	Spike	P	0 - 24
2377292	Propanil	10.0	Spike	P	0 - 28
2377292	Propargite	11.0	Spike	P	0 - 43
2377292	Propiconazole	8.54	Spike	P	0 - 33
2377292	Pyraflufen Ethyl	14.2	Spike	P	0 - 29
2377292	Pyridaben	30.0	Spike	P	0 - 30
2377292	Pyriproxyfen	5.35	Spike	P	0 - 79
2377292	Simazine	2.24	Spike	P	0 - 29
2377292	Stirophos	8.67	Spike	P	0 - 61
2377292	Sulfentrazone	6.91	Spike	P	0 - 33
2377292	Tebuconazole	5.16	Spike	P	0 - 69
2377292	Terbufos	7.27	Spike	P	0 - 29
2377292	Terbutylazine	14.0	Spike	P	0 - 32
2377292	Thiobencarb	8.21	Spike	P	0 - 26
2377292	Tri-o-cresyl Phosphate	2.08	Spike	P	0 - 33
2377292	Triadimefon	7.14	Spike	P	0 - 28

Reference Method: EPA 8321B
Batch ID: P423755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376518	Acesulfame K	11.9	Spike	P	0 - 30
2376518	AMPA	3.18	Spike	P	0 - 30
2376518	Endothall	0.989	Spike	P	0 - 30
2376518	Glufosinate	0.519	Spike	P	0 - 30
2376518	Glyphosate	10.6	Spike	P	0 - 30
2376518	Sucralose	4.08	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P423825

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376968	2,4-D	25.1	Spike	P	0 - 30
2376968	2,4,5-T	25.3	Spike	P	0 - 30
2376968	Acetaminophen	4.21	Spike	P	0 - 30
2376968	Acetamiprid	23.2	Spike	P	0 - 30
2376968	Afidopyropen	22.4	Spike	P	0 - 30
2376968	Bentazon	7.43	Spike	P	0 - 30
2376968	Benzovindiflupyr	15.4	Spike	P	0 - 30
2376968	Carbamazepine	7.84	Spike	P	0 - 30
2376968	Clothianidin	12.4	Spike	P	0 - 30
2376968	Dinotefuran	13.0	Spike	P	0 - 30
2376968	Diuron	14.0	Spike	P	0 - 30
2376968	Fenuron	11.1	Spike	P	0 - 30
2376968	Fluridone	3.90	Spike	P	0 - 30
2376968	Hydrocodone	15.5	Spike	P	0 - 30
2376968	Ibuprofen	13.8	Spike	P	0 - 30
2376968	Imazapyr	12.8	Spike	P	0 - 30
2376968	Imidacloprid	18.2	Spike	P	0 - 30
2376968	Linuron	10.3	Spike	P	0 - 30
2376968	Mandestrobin	11.5	Spike	P	0 - 30
2376968	MCP	25.6	Spike	P	0 - 30
2376968	Naproxen	12.0	Spike	P	0 - 30
2376968	Primidone	14.2	Spike	P	0 - 30
2376968	Pyraclostrobin	10.7	Spike	P	0 - 30
2376968	Silvex	13.5	Spike	P	0 - 30
2376968	Thiamethoxam	16.5	Spike	P	0 - 30
2376968	Tolfenpyrad	7.49	Spike	P	0 - 30
2376968	Triclopyr	27.0	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P424167

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377457	Total Alkalinity	0.646	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P424227

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376970	TDS	5.76	Sample	P	0 - 10

Reference Method: SM 2540 D-2015

Batch ID: P424117

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376970	TSS	6.06	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P424515

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377253	Fluoride	1.42	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P424182

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377374	Organic Carbon	0.325	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2377095

Field Sample ID: G4NW0277

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	99.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	93.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	98.1	P	30 - 160
EPA 8321B	Diuron-d6	95.2	P	30 - 160
EPA 8321B	Endothall-d6	114	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	87.1	P	30 - 160
EPA 8321B	Primidone-d5	88.3	P	30 - 160
EPA 8321B	Sucralose-d6	73.6	P	30 - 160

Lab Sample ID: 2377097

Field Sample ID: G4NW0277

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	73.4	P	20 - 200
EPA 8270E	Simazine-d10	103	P	62 - 142
EPA 8270E	Terbufos-d10	76.2	P	58 - 132
EPA 8270E	Terphenyl-d14	95.7	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A116605

Included Lab Sample IDs: 2377086

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.3	98.9	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A116606

Included Lab Sample IDs: 2377086

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	101	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A116607

Included Lab Sample IDs: 2377088

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	98.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A116624

Included Lab Sample IDs: 2377095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	82.7	63.2	P/P	60 - 160
Sucralose	129	124	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A116625

Included Lab Sample IDs: 2377095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	104	98.6	P/P	60 - 160
Endothall	118	118	P/P	60 - 160
Glufosinate	92.8	100	P/P	60 - 160
Glyphosate	101	108	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A116681

Included Lab Sample IDs: 2377087

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A116714

Included Lab Sample IDs: 2377095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.6	91.5	P/P	50 - 150
2,4,5-T	111	105	P/P	50 - 150
Acetaminophen	105	104	P/P	60 - 160
Acetamiprid	101	98.9	P/P	50 - 150
Afidopyropen	80.8	95.5	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A116714
Included Lab Sample IDs: 2377095

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	118	111	P/P	50 - 160
Benzovindiflupyr	97.5	107	P/P	50 - 150
Carbamazepine	113	108	P/P	60 - 150
Clothianidin	92.1	94.7	P/P	60 - 150
Dinotefuran	93.8	95.9	P/P	50 - 150
Diuron	119	120	P/P	60 - 160
Fenuron	94.9	98.6	P/P	60 - 150
Fluridone	102	99.5	P/P	60 - 160
Hydrocodone	105	97.4	P/P	60 - 150
Ibuprofen	147	72.1	P/P	50 - 160
Imazapyr	94.9	99.1	P/P	50 - 150
Imidacloprid	103	97.2	P/P	60 - 150
Linuron	93.8	85.1	P/P	60 - 150
Mandestrobin	106	102	P/P	50 - 150
MCPP	105	95.9	P/P	50 - 150
Naproxen	150	99.9	P/P	50 - 160
Primidone	112	110	P/P	60 - 150
Pyraclostrobin	112	111	P/P	60 - 150
Silvex	106	104	P/P	50 - 150
Thiamethoxam	94.6	93.0	P/P	50 - 150
Tolfenpyrad	103	98.7	P/P	60 - 150
Triclopyr	113	97.2	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A116716
Included Lab Sample IDs: 2377086

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

Reference Method: SM 2320 B-2011
Run ID: A116751
Included Lab Sample IDs: 2377086

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.5	95.9	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A116757
Included Lab Sample IDs: 2377087

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.6	98.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A116758
Included Lab Sample IDs: 2377087

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.9	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A116759
Included Lab Sample IDs: 2377097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.6		P	80 - 120
Avobenzone	100		P	80 - 120
Dechlorane Plus	96.7		P	80 - 120
Octinoxate	94.6		P	80 - 120
Oxybenzone	99.6		P	80 - 120
PBDE-47	95.7		P	80 - 120
PBDE-99	101		P	80 - 120
Tri-o-cresyl Phosphate	96.1		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A116779
Included Lab Sample IDs: 2377087

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

Reference Method: EPA 8270E
Run ID: A116784
Included Lab Sample IDs: 2377097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	89.2		P	80 - 120
Ametryn	98.8		P	80 - 120
Atrazine Desethyl	102		P	80 - 120
Azinphos Methyl	109		P	80 - 120
Azoxystrobin	94.8		P	80 - 120
Bromacil	107		P	80 - 120
Butylate	101		P	80 - 120
Caffeine	92.9		P	80 - 120
Carbophenothion	99.5		P	80 - 120
Carfentrazone Ethyl	98.5		P	80 - 120
Chlorfenapyr	101		P	80 - 120
Chlorpyrifos Ethyl	95.8		P	80 - 120
Chlorpyrifos Methyl	99.6		P	80 - 120
Coumaphos	109		P	80 - 120
Cyanazine	96.3		P	80 - 120
Cyprodinil	99.3		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	99.6		P	80 - 120
Difenoconazole	105		P	80 - 120
Dimethenamid	99.2		P	80 - 120
Dimethomorph	105		P	80 - 120
Disulfoton	94.0		P	80 - 120
Dithiopyr	98.9		P	80 - 120
EPTC	103		P	80 - 120
Ethion	103		P	80 - 120
Ethoprop	95.7		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	104		P	80 - 120
Fenbuconazole	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A116784
Included Lab Sample IDs: 2377097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil	96.4		P	80 - 120
Fipronil Desulfinyl	91.9		P	80 - 120
Fipronil Sulfide	93.1		P	80 - 120
Fipronil Sulfone	108		P	80 - 120
Fluazifop-P-butyl	101		P	80 - 120
Fludioxonil	97.3		P	80 - 120
Flumioxazin	110		P	80 - 120
Flutolanil	96.9		P	80 - 120
Fluxapyroxad	95.0		P	80 - 120
Fonofos	97.6		P	80 - 120
Hexazinone	104		P	80 - 120
Imazalil	101		P	80 - 120
Iprodione	97.2		P	80 - 120
Loratadine	90.6		P	80 - 120
Malathion	97.6		P	80 - 120
Metalaxyl	99.9		P	80 - 120
Metribuzin	94.0		P	80 - 120
Mevinphos	106		P	80 - 120
Molinate	98.8		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	105		P	80 - 120
Napropamide	97.8		P	80 - 120
Norflurazon	94.1		P	80 - 120
Oxadiazon	98.5		P	80 - 120
Oxyfluorfen	97.8		P	80 - 120
Parathion Ethyl	109		P	80 - 120
Parathion Methyl	107		P	80 - 120
Pendimethalin	93.3		P	80 - 120
Phenytoin	103		P	80 - 120
Phorate	99.5		P	80 - 120
Prodiamine	95.4		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	105		P	80 - 120
Propanil	101		P	80 - 120
Propargite	96.3		P	80 - 120
Propiconazole	99.1		P	80 - 120
Pyraflufen Ethyl	96.4		P	80 - 120
Pyridaben	99.7		P	80 - 120
Pyriproxyfen	101		P	80 - 120
Simazine	95.0		P	80 - 120
Stirophos	101		P	80 - 120
Sulfentrazone	99.3		P	80 - 120
Tebuconazole	95.8		P	80 - 120
Terbufos	98.6		P	80 - 120
Terbutylazine	103		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	84.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A116785
Included Lab Sample IDs: 2377097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	98.7		P	80 - 120
Metolachlor	99.8		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A116809
Included Lab Sample IDs: 2377087

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.0	98.7	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A116833
Included Lab Sample IDs: 2377086

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

Reference Method: SM 4500-F- C-2011
Run ID: A116886
Included Lab Sample IDs: 2377086

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.6	100	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A116904
Included Lab Sample IDs: 2377096

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	91.0	106	P/P	90 - 110
Sodium	93.0	108	P/P	90 - 110
Strontium	98.4	108	P/P	90 - 110
Tin	93.3	107	P/P	90 - 110
Vanadium	94.7	107	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A116912
Included Lab Sample IDs: 2377096

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	102	P/P	90 - 110
Antimony	109	109	P/P	90 - 110
Barium	105	105	P/P	90 - 110
Beryllium	106	106	P/P	90 - 110
Boron	96.7	101	P/P	90 - 110
Cadmium	108	107	P/P	90 - 110
Chromium	103	102	P/P	90 - 110
Cobalt	106	104	P/P	90 - 110
Copper	109	107	P/P	90 - 110
Lead	98.3	98.1	P/P	90 - 110
Manganese	106	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A116912

Included Lab Sample IDs: 2377096

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Molybdenum	106	106	P/P	90 - 110
Nickel	108	106	P/P	90 - 110
Selenium	110	110	P/P	90 - 110
Silver	108	108	P/P	90 - 110
Thallium	107	106	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A116924

Included Lab Sample IDs: 2377096

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	100	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Potassium	103	102	P/P	90 - 110
Titanium	100	100	P/P	90 - 110
Zinc	99.7	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A116934

Included Lab Sample IDs: 2377096

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	97.3	95.4	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)	97.7					1.98	
EPA 180.1 Rev. 2.0	Turbidity	102					5.24	
EPA 200.7 Rev. 4.4	Calcium	94.3	104	102	103			1.86
	Iron	97.6	92.7	94.9	104			2.26
	Magnesium	99.7	94.0	96.0	107			1.88
	Potassium	94.6	96.9	89.3	91.2			1.85
	Sodium	96.4	89.3	91.3	105			1.62
	Strontium	102	101	102	112			1.79
	Tin	98.4	93.9	95.1	104			1.37
	Titanium	103	99.0	97.1	102			5.15
	Vanadium	98.6	93.7	94.6	104			1.04
	Zinc	102	101	100	98.5			0.697
EPA 200.8 Rev. 5.4	Aluminum	98.5	98.4	102	101			2.65
	Antimony	104	104	107	107			2.10
	Arsenic	103	102	104	102			2.38
	Barium	104	104	106	107			2.42
	Beryllium	94.7	97.3	102	100			4.14
	Boron	97.3	98.3	99.8	102			1.49
	Cadmium	103	105	108	107			2.68
	Chromium	97.7	99.2	102	103			2.71
	Cobalt	104	102	106	105			3.35
	Copper	106	106	108	109			1.89
	Lead	95.0	96.0	98.4	98.6			2.47
	Manganese	100	101	104	106			2.58
	Molybdenum	102	102	105	105			2.81
	Nickel	106	104	107	108			2.55
	Selenium	106	106	108	109			2.31
	Silver	103	103	105	105			1.55
	Thallium	101	103	106	104			2.93
EPA 300.0 Rev. 2.1	Chloride	102	97.8	100			0.284	
	Sulfate	96.6	95.4	95.4			1.76	
EPA 350.1 Rev. 2.0	Ammonia-N	95.6	99.6	98.0				1.49
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	101	99.3				1.00
EPA 353.2 Rev. 2.0	NO2NO3-N	105	105	104				0.477
EPA 365.1 Rev. 2.0	Total-P	103	105	105				0.499
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	97.8	97.1				0.663
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	97.4	107	103				3.33
	Acetochlor	89.4	86.4	89.3				3.21
	Alachlor	82.2	77.1	78.7				1.98
	Ametryn	96.2	106	108				1.59
	Atrazine	95.9						11.4
	Atrazine Desethyl	72.7	66.6	64.7				1.19
	Avobenzone	114	135	126				6.61
	Azinphos Methyl	107	136	146				7.60
	Azoxystrobin	95.4	73.5	79.0				3.82
	Bromacil	72.0	84.8	89.3				5.19
	Butylate	58.1	40.9	44.5				8.42
	Caffeine	104						0.707
	Carbophenothion	89.3	92.1	95.7				3.77
	Carfentrazone Ethyl	102	83.4	94.8				12.9
	Chlorfenapyr	87.9	71.7	78.8				9.33
	Chlorpyrifos Ethyl	87.8	83.6	100				18.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	88.6	116	115		0.781
	Coumaphos	95.2	93.3	98.4		5.35
	Cyanazine	90.5	147	160		8.12
	Cyprodinil	93.9	101	99.5		1.09
	Dechlorane Plus	99.4	91.6	88.5		3.43
	Demeton	74.7	99.3	99.9		0.634
	Diazinon	89.5	93.4	104		10.3
	Difenoconazole	109	163	173		5.70
	Dimethenamid	73.3	64.0	69.9		8.78
	Dimethomorph	106	201	212		5.28
	Disulfoton	68.4	61.9	63.9		3.15
	Dithiopyr	89.3	82.3	84.6		2.66
	EPTC	54.7	32.9	34.0		3.33
	Ethion	86.9	78.8	86.5		9.28
	Ethoprop	78.3	117	118		0.750
	Etridiazole	59.6	45.5	50.5		10.3
	Fenamiphos	93.9	88.5	81.0		8.91
	Fenbuconazole	103	104	116		10.9
	Fipronil	90.7	92.6	98.9		6.01
	Fipronil Desulfinyl	96.8	105	115		6.30
	Fipronil Sulfide	87.6	104	99.4		3.20
	Fipronil Sulfone	88.3				7.06
	Fluazifop-P-butyl	91.5	77.9	84.6		8.34
	Fludioxonil	93.2	88.6	94.6		6.56
	Flumioxazin	108	261	283		5.26
	Flutolanil	98.0				2.41
	Fluxapyroxad	90.8	106	120		9.56
	Fonofos	73.9	108	112		4.37
	Hexazinone	95.4	94.1	106		8.17
	Imazalil	93.6	107	103		3.32
	Iprodione	77.5	79.5	89.6		12.0
	Loratadine	98.9	156	161		3.51
	Malathion	93.1	94.0	105		11.4
	Metalaxyl	94.8	105	107		1.94
	Metolachlor	94.1	83.7	89.0		5.66
	Metribuzin	90.8	105	112		6.57
	Mevinphos	72.3	94.2	106		11.4
	Molinate	62.8	53.7	56.1		4.36
	Myclobutanil	83.8	92.1	78.9		13.7
	Naled	99.0	82.0	76.3		7.22
	Napropamide	99.4	98.2	91.4		7.13
	Norflurazon	93.7	87.9	81.8		7.10
	Octinoxate	90.1	79.3	79.3		0.0535
	Oxadiazon	82.4				2.27
	Oxybenzone	89.3	64.1	64.4		0.365
	Oxyfluorfen	79.1	142	121		16.0
	Parathion Ethyl	90.2	99.1	89.9		9.78
	Parathion Methyl	100	128	121		6.10
	PBDE-47	98.3	88.6	89.5		1.03
	PBDE-99	99.4	92.9	89.7		3.49
	Pendimethalin	83.2	139	138		0.602
	Phenytoin	14.5	55.2	51.2		7.38
	Phorate	65.4	104	98.4		5.70
	Prodiamine	61.1	34.4	34.0		1.10

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Prometon	85.1	107	98.2			8.38
	Prometryn	84.9	89.4	81.7			8.99
	Pronamide	96.1	113	98.1			13.7
	Propanil	96.4	113	102			10.0
	Propargite	96.4	91.2	81.7			11.0
	Propiconazole	98.0	87.6	76.2			8.54
	Pyraflufen Ethyl	98.3	99.6	86.4			14.2
	Pyridaben	90.4	130	96.0			30.0
	Pyriproxyfen	98.4	99.0	93.9			5.35
	Simazine	90.7					2.24
	Stirophos	93.1	98.9	90.7			8.67
	Sulfentrazone	24.3					6.91
	Tebuconazole	86.9	81.6	77.5			5.16
	Terbufos	95.3	150	140			7.27
	Terbuthylazine	84.1	87.0	75.6			14.0
	Thiobencarb	83.2	72.4	66.7			8.21
	Tri-o-cresyl Phosphate	100	82.9	84.6			2.08
	Triadimefon	71.0	95.0	77.2			7.14
EPA 8321B	2,4-D	89.5	97.0	75.4			25.1
	2,4,5-T	76.1	78.5	60.9			25.3
	Acesulfame K	71.4	46.9	41.6			11.9
	Acetaminophen	80.5	90.3	86.6			4.21
	Acetamiprid	73.3	86.9	68.8			23.2
	Afidopyropen	56.1	66.9	53.4			22.4
	AMPA	90.8	87.8	90.6			3.18
	Bentazon	97.4	58.1	64.0			7.43
	Benzovindiflupyr	79.9	92.2	79.0			15.4
	Carbamazepine	90.0	84.1	77.4			7.84
	Clothianidin	82.5	105	90.9			12.4
	Dinotefuran	81.8	102	89.8			13.0
	Diuron	90.9	85.1	73.9			14.0
	Endothall	124	157	155			0.989
	Fenuron	93.9	93.1	83.3			11.1
	Fluridone	89.2	81.6	78.4			3.90
	Glufosinate	106	124	124			0.519
	Glyphosate	108	117	105			10.6
	Hydrocodone	86.1	98.1	84.1			15.5
	Ibuprofen	91.6	92.2	80.3			13.8
	Imazapyr	88.3	120	105			12.8
	Imidacloprid	90.3	143	114			18.2
	Linuron	68.5	78.9	71.1			10.3
	Mandestrobin	88.3	96.1	85.6			11.5
	MCPP	97.9	102	79.0			25.6
	Naproxen	84.9	83.4	74.0			12.0
	Primidone	85.2	114	98.2			14.2
	Pyraclostrobin	76.5	85.3	76.7			10.7
	Silvex	77.8	79.8	69.7			13.5
	Sucralose	122	97.1	101			4.08
	Thiamethoxam	87.8	116	98.4			16.5
	Tolfenpyrad	48.0	56.2	52.1			7.49
	Triclopyr	80.2	80.2	61.1			27.0
SM 2320 B-2011	Total Alkalinity	95.0				0.646	
SM 2540 C-2015	TDS	96.9				5.76	
SM 2540 D-2015	TSS	88.6				6.06	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 4500-F- C-2011	Fluoride	98.9	95.1	97.3		1.42
SM 5310 B-2011	Organic Carbon	96.6	97.4	96.8		0.325

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2377086
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2377086
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2377096
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2377096
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2377086
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2377086
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2377087
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2377087
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2377087
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2377087
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2377088
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2377097
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2377097
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2377095
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2377086
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2377096
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2377086
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2377086
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2377086
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2377087

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	12/21/2022			12/21/2022 14:59	Alexis Price	2377086
EPA 180.1 Rev. 2.0	12/21/2022			12/21/2022 15:12	Anna M. Plaviak	2377086
EPA 200.7 Rev. 4.4	12/21/2022	12/22/2022 10:55	George D Taylor	01/13/2023 21:58	McKinley C Carter	2377096
	12/21/2022	12/22/2022 10:55	George D Taylor	01/17/2023 15:17	McKinley C Carter	2377096
EPA 200.8 Rev. 5.4	12/21/2022	12/22/2022 10:55	George D Taylor	01/14/2023 05:13	Emily M Philpot	2377096
	12/21/2022	12/22/2022 10:55	George D Taylor	01/17/2023 15:57	Megan Whitefoot	2377096
EPA 300.0 Rev. 2.1	12/21/2022			01/05/2023 23:23	Anna M. Plaviak	2377086
	12/21/2022			01/10/2023 18:02	Anna M. Plaviak	2377086
EPA 350.1 Rev. 2.0	12/21/2022			01/09/2023 15:18	Ping Hua	2377087
EPA 351.2 Rev. 2.0	12/21/2022	01/03/2023 13:30	Simonne.V. Calhoun	01/05/2023 13:24	Samantha L Bates	2377087
EPA 353.2 Rev. 2.0	12/21/2022			12/29/2022 11:21	Beverly Y. Sanders	2377087
EPA 365.1 Rev. 2.0	12/21/2022	01/05/2023 13:37	Adam P Silver	01/06/2023 14:55	James L Waggeberby	2377087
EPA 365.1 Rev. 2.0 dissolved	12/21/2022			12/21/2022 15:26	Elise M. Gillis	2377088
EPA 8270E	12/21/2022	01/02/2023 09:00	Rasheda Ghaffari	01/05/2023 19:08	Michael Poppell	2377097
	12/21/2022	01/02/2023 09:00	Rasheda Ghaffari	01/05/2023 21:57	Arthur Maknenko	2377097
	12/21/2022	01/02/2023 09:00	Rasheda Ghaffari	01/06/2023 21:17	Michael Poppell	2377097
EPA 8321B	12/21/2022	12/21/2022 13:45	Umesh Chiluwal	12/21/2022 20:44	Umesh Chiluwal	2377095
	12/21/2022	12/21/2022 13:45	Umesh Chiluwal	12/22/2022 06:36	Umesh Chiluwal	2377095
	12/21/2022	12/22/2022 09:30	June Rhew	01/04/2023 00:28	Juyoung Kim	2377095
SM 2320 B-2011	12/21/2022			01/05/2023 07:36	Dale L. Simmons	2377086
SM 2340 B-2011	12/21/2022			01/17/2023 15:17	McKinley C Carter	2377096
SM 2540 C-2015	12/21/2022			12/22/2022 16:12	Yijie Li	2377086
SM 2540 D-2015	12/21/2022			12/22/2022 16:12	Yijie Li	2377086
SM 4500-F- C-2011	12/21/2022			01/12/2023 17:31	Dale L. Simmons	2377086
SM 5310 B-2011	12/21/2022			01/05/2023 18:26	Khloe J Berg	2377087