

Chemical Analysis Report

SO-DIST-2023-09-15-02

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

Event Description: **2023 SMP: LVI Lake**
Request ID: **RQ-2023-09-11-64**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: Monica Jaeger

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

Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 04-OCT-2023 11:12



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: Lake Avalon at Center

Collection Date/Time: 09/14/2023 10:55

Field ID: G1SD0134

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2437425	DEP SOP: NU-094-1	Color (true)	12		PCU	P435079	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P435084	
	EPA 300.0 Rev. 2.1	Chloride	1.3E+03		mg Cl/L	P435377	
		Sulfate	150		mg SO4/L	P435380	
	SM 2320 B-2011	Total Alkalinity	154		mg CaCO3/L	P435325	
	SM 2540 C-2015	TDS	2.22E+03		mg/L	P435609	
	SM 2540 D-2015	TSS	4	I	mg/L	P435611	
2437426	SM 4500-F- C-2011	Fluoride	0.16		mg F/L	P435328	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P435142	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.73		mg N/L	P435649	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P435656	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P435249	
2437427	SM 5310 B-2011	Organic Carbon	9.5		mg C/L	P435601	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P435096	
2437432	EPA 8321B	2,4-D	0.044		ug/L	P435061	
		Acesulfame K	0.10	U	ug/L	P434981	
		2,4,5-T	0.0040	U	ug/L	P435061	
		AMPA	0.10	U	ug/L	P434981	
		Acetaminophen	0.0098	I	ug/L	P435061	
		Acetamiprid	0.0020	U	ug/L	P435061	
		Endothall	0.25	U	ug/L	P434981	
		Glufosinate	0.10	U	ug/L	P434981	
		Glyphosate	0.10	U	ug/L	P434981	
		Afidopyropen	0.0020	U	ug/L	P435061	
		Sucralose	0.13		ug/L	P434981	
		Bentazon	0.0046		ug/L	P435061	MS
		Benzovindiflupyr	0.0020	U	ug/L	P435061	
		Carbamazepine	8.0E-04	U	ug/L	P435061	
		Clothianidin	0.0020	U	ug/L	P435061	
		Dinotefuran	0.0020	U	ug/L	P435061	
		Diuron	0.0020	U	ug/L	P435061	
		Fenuron	0.032	U	ug/L	P435061	
		Fluridone	0.0060		ug/L	P435061	
		Imazapyr	0.0040	U	ug/L	P435061	
		Hydrocodone	0.0020	U	ug/L	P435061	
		Ibuprofen	0.080	U	ug/L	P435061	
		Imidacloprid	0.0020	U	ug/L	P435061	
		Linuron	0.0040	U	ug/L	P435061	
		Mandestrobin	0.0020	U	ug/L	P435061	
		MCP	0.0020	U	ug/L	P435061	
		Naproxen	0.0080	U	ug/L	P435061	MS
		Primidone	0.0040	U	ug/L	P435061	
		Pyraclostrobin	0.0020	U	ug/L	P435061	

Field ID: G1SD0134

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2437432	EPA 8321B	Silvex	0.0040	U	ug/L	P435061	
		Thiamethoxam	0.0020	U	ug/L	P435061	
		Tolfenpyrad	0.0020	U	ug/L	P435061	
		Triclopyr	0.0040	U	ug/L	P435061	
2437433	EPA 200.7 Rev. 4.4	Calcium	84.1		mg/L	P435144	
		Iron	30	U	ug/L	P435144	
		Magnesium	79.8		mg/L	P435144	
		Potassium	24.6		mg/L	P435144	
		Sodium	663		mg/L	P435144	
		Strontium	641		ug/L	P435144	
		Tin	3.0	U	ug/L	P435144	
		Titanium	0.75	U	ug/L	P435144	
		Vanadium	2.0	U	ug/L	P435144	
		Zinc	5.0	U	ug/L	P435144	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P435144	
		Antimony	0.21		ug/L	P435144	
		Arsenic	4.00		ug/L	P435144	
		Barium	10.7		ug/L	P435144	
		Beryllium	0.010	U	ug/L	P435144	
		Boron	288		ug/L	P435144	
		Cadmium	0.020	U	ug/L	P435144	
		Chromium	0.40	U	ug/L	P435144	
		Cobalt	0.020	U	ug/L	P435144	
		Copper	0.40	U	ug/L	P435144	
		Lead	0.20	U	ug/L	P435144	
		Manganese	3.63		ug/L	P435144	
		Molybdenum	1.55		ug/L	P435144	
		Nickel	0.50	U	ug/L	P435144	
		Selenium	0.20	U	ug/L	P435144	
		Silver	0.010	U	ug/L	P435144	
		Thallium	0.10	U	ug/L	P435144	
	SM 2340 B-2011	Hardness	538		mg/L	P435144	
2437434	EPA 8270E	Oxybenzone**	10	U	ng/L	P435031	
		Acetochlor	0.21	U	ng/L	P435031	
		Octinoxate**	150	U	ng/L	P435031	
		Alachlor	0.41	U	ng/L	P435031	
		Avobenzone**	100	U	ng/L	P435031	RPD
		Ametryn	1.1	U	ng/L	P435031	
		Atrazine	11		ng/L	P435031	
		PBDE-47**	4.1	U	ng/L	P435031	
		Atrazine Desethyl	1.5	I	ng/L	P435031	
		PBDE-99**	5.2	U	ng/L	P435031	RPD
		Azinphos Methyl	3.1	U	ng/L	P435031	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P435031	
		Azoxystrobin	0.41	U	ng/L	P435031	

Field ID: G1SD0134

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2437434	EPA 8270E	Bromacil	0.62	U	ng/L	P435031	
		2-Ethylhexyl	12	U	ng/L	P435031	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P435031	
		Dechlorane Plus**	31	U	ng/L	P435031	MS
		Caffeine**	11	I	ng/L	P435031	
		Dechlorane 602**	5.2	UJ	ng/L	P435031	LCS, MS, RPD
		Carbophenothion	0.52	U	ng/L	P435031	
		Dechlorane 603**	4.1	U	ng/L	P435031	MS, RPD
		Carfentrazone Ethyl	0.15	U	ng/L	P435031	
		Hexabromobenzene**	6.2	U	ng/L	P435031	
		Chlorfenapyr	0.31	U	ng/L	P435031	
		PBB-153**	8.3	U	ng/L	P435031	MS, RPD
		Chlorpyrifos Ethyl	0.31	U	ng/L	P435031	
		Pentabromotoluene**	3.1	U	ng/L	P435031	
		Chlorpyrifos Methyl	0.10	U	ng/L	P435031	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P435031	
		Coumaphos	1.1	UJ	ng/L	P435031	CCV, RPD
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P435031	
		Cyanazine	5.2	U	ng/L	P435031	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P435031	
		Cyprodinil	0.21	U	ng/L	P435031	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P435031	MS
		Demeton	3.6	U	ng/L	P435031	
		Diazinon	0.13	U	ng/L	P435031	
		Difenoconazole	0.62	U	ng/L	P435031	
		Dimethenamid	0.10	U	ng/L	P435031	
		Dimethomorph	0.31	U	ng/L	P435031	
		Disulfoton	0.62	U	ng/L	P435031	
		Dithiopyr	1.0	U	ng/L	P435031	
		EPTC	0.52	U	ng/L	P435031	
		Ethion	0.31	U	ng/L	P435031	
		Ethoprop	0.13	U	ng/L	P435031	
		Etridiazole	0.10	U	ng/L	P435031	
		Fenamiphos	0.46	U	ng/L	P435031	
		Fenbuconazole	0.52	U	ng/L	P435031	MS, RPD
		Fipronil	0.21	UJ	ng/L	P435031	LCS
		Fipronil Desulfinyl**	0.10	U	ng/L	P435031	
		Fipronil Sulfide	0.10	U	ng/L	P435031	
		Fipronil Sulfone	0.10	U	ng/L	P435031	
		Fluazifop-P-butyl	0.10	U	ng/L	P435031	
		Fludioxonil	0.10	U	ng/L	P435031	
		Flumioxazin	3.1	U	ng/L	P435031	
		Flutolanil	0.10	U	ng/L	P435031	

Field ID: G1SD0134

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2437434	EPA 8270E	Fluxapyroxad	1.2	I	ng/L	P435031	
		Fonofos	0.15	U	ng/L	P435031	RPD
		Hexazinone	7.9		ng/L	P435031	
		Imazalil	0.67	U	ng/L	P435031	
		Iprodione	0.52	UJ	ng/L	P435031	CCV
		Loratadine**	0.31	U	ng/L	P435031	
		Malathion	0.36	U	ng/L	P435031	
		Metaxyl	0.52	U	ng/L	P435031	
		Metolachlor	0.77	U	ng/L	P435031	
		Metribuzin	0.41	U	ng/L	P435031	
		Mevinphos	1.0	U	ng/L	P435031	
		Molinate	0.26	U	ng/L	P435031	
		Myclobutanil	1.2	I	ng/L	P435031	
		Naled	2.6	U	ng/L	P435031	
		Napropamide	0.72	U	ng/L	P435031	
		Norflurazon	1.0	U	ng/L	P435031	
		Oxadiazon	0.97	I	ng/L	P435031	
		Oxyfluorfen	0.21	U	ng/L	P435031	
		Parathion Ethyl	0.15	U	ng/L	P435031	
		Parathion Methyl	0.21	U	ng/L	P435031	
		Pendimethalin	0.77	U	ng/L	P435031	
		Phenytoin**	5.5	U	ng/L	P435031	
		Phorate	0.26	U	ng/L	P435031	
		Prodiamine	0.21	U	ng/L	P435031	
		Prometon	3.1	U	ng/L	P435031	
		Prometryn	0.36	U	ng/L	P435031	
		Pronamide	0.10	U	ng/L	P435031	
		Propanil	0.10	U	ng/L	P435031	
		Propargite	0.83	U	ng/L	P435031	
		Propiconazole	0.62	U	ng/L	P435031	
		Pyraflufen Ethyl	0.31	U	ng/L	P435031	
		Pyridaben	13		ng/L	P435031	
		Pyriproxyfen	0.26	U	ng/L	P435031	
		Simazine	0.26	U	ng/L	P435031	
		Stirophos	0.41	U	ng/L	P435031	
		Sulfentrazone	1.6	I	ng/L	P435031	
		Tebuconazole	2.9	I	ng/L	P435031	
		Terbufos	0.21	U	ng/L	P435031	
		Terbuthylazine	0.21	U	ng/L	P435031	
		Thiobencarb	0.52	U	ng/L	P435031	
		Triadimefon	0.15	U	ng/L	P435031	

Ref. Method and Comment:

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

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

EPA 8270E: 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: P435079

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435084

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435144

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: P435144

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: P435377

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: P435380

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435142

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435649

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435656

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435249

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435096

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

Reference Method: EPA 8270E
Batch ID: P435031

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435031

Component	Result	Code	Units
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435031

Component	Result	Code	Units
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	16	I	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8321B

Batch ID: P434981

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: P435061

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P435061

Component	Result	Code	Units
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P435325

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

Reference Method: SM 2540 C-2015

Batch ID: P435609

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P435611

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P435328

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P435601

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: P435079

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.6		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435084

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	101		P	85 - 115
Iron	107		P	85 - 115
Magnesium	108		P	85 - 115
Potassium	102		P	85 - 115
Sodium	102		P	85 - 115
Strontium	100		P	85 - 115
Tin	104		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435144

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.5		P	85 - 115
Antimony	95.9		P	85 - 115
Arsenic	98.0		P	85 - 115
Barium	99.9		P	85 - 115
Beryllium	93.0		P	85 - 115
Boron	102		P	85 - 115
Cadmium	98.2		P	85 - 115
Chromium	95.8		P	85 - 115
Cobalt	96.2		P	85 - 115
Copper	96.4		P	85 - 115
Lead	92.4		P	85 - 115
Manganese	97.3		P	85 - 115
Molybdenum	97.1		P	85 - 115
Nickel	95.8		P	85 - 115
Selenium	97.3		P	85 - 115
Silver	111		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435377

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435380

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435142

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435649

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435656

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435249

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435096

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.3		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P435031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	72.4		P	42 - 162
Acetochlor	83.8		P	69 - 123
Alachlor	75.0		P	65 - 118
Ametryn	78.5		P	58 - 141
Atrazine	82.9		P	73 - 118
Atrazine Desethyl	73.2		P	32 - 125
Avobenzone	137		P	40 - 203
Azinphos Methyl	129		P	36 - 197
Azoxystrobin	91.1		P	58 - 226
Bromacil	76.4		P	48 - 120
Butylate	55.6		P	27 - 85.0
Caffeine	120		P	40 - 137
Carbophenothion	83.0		P	54 - 132
Carfentrazone Ethyl	79.3		P	60 - 142
Chlorfenapyr	67.3		P	53 - 117
Chlorpyrifos Ethyl	87.4		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	89.7		P	66 - 119
Coumaphos	127		P	11 - 234
Cyanazine	88.3		P	61 - 248
Cyprodinil	76.2		P	50 - 147
Dechlorane 602	47.1		F	50 - 150
Dechlorane 603	112		P	50 - 150
Dechlorane Plus	75.3		P	47 - 182
Demeton	85.8		P	30 - 138
Diazinon	76.1		P	67 - 126
Difenoconazole	82.6		P	38 - 205
Dimethenamid	80.5		P	57 - 111
Dimethomorph	101		P	16 - 212
Disulfoton	78.0		P	46 - 126
Dithiopyr	82.7		P	62 - 115
EPTC	54.2		P	28 - 80.0
Ethion	71.6		P	24 - 122
Ethoprop	78.9		P	62 - 113
Etridiazole	62.0		P	28 - 92.0
Fenamiphos	78.8		P	57 - 128
Fenbuconazole	91.6		P	52 - 155
Fipronil	62.5		F	63 - 130
Fipronil Desulfinyl	68.5		P	61 - 130
Fipronil Sulfide	67.8		P	56 - 117
Fipronil Sulfone	74.2		P	52 - 118
Fluazifop-P-butyl	80.6		P	61 - 128
Fludioxonil	74.5		P	59 - 129
Flumioxazin	65.7		P	30 - 250
Flutolanil	75.9		P	53 - 127
Fluxapyroxad	93.4		P	42 - 132
Fonofos	70.6		P	61 - 110
Hexabromobenzene	92.0		P	50 - 150
Hexazinone	84.6		P	46 - 139
Imazalil	64.1		P	40 - 139
Iprodione	78.3		P	40 - 146
Loratadine	147		P	10 - 224
Malathion	106		P	61 - 135
Metalaxyl	84.5		P	58 - 121
Metolachlor	81.9		P	64 - 118
Metribuzin	88.6		P	45 - 245
Mevinphos	79.7		P	49 - 118
Molinate	68.7		P	42 - 92.0
Myclobutanil	74.9		P	55 - 127
Naled	58.6		P	10 - 114
Napropamide	61.7		P	39 - 121
Norflurazon	88.1		P	55 - 129
Octinoxate	102		P	26 - 166
Oxadiazon	62.5		P	54 - 115
Oxybenzone	105		P	49 - 135
Oxyfluorfen	75.1		P	64 - 139
Parathion Ethyl	90.8		P	70 - 111
Parathion Methyl	131		P	76 - 136
PBB-153	110		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	68.8		P	41 - 148
PBDE-99	59.1		P	38 - 147
Pendimethalin	80.1		P	52 - 118
Pentabromotoluene	87.5		P	50 - 150
Phenytoin	25.6		P	10 - 162
Phorate	96.9		P	40 - 122
Prodiamine	55.3		P	26 - 141
Prometon	76.9		P	54 - 122
Prometryn	78.8		P	61 - 128
Pronamide	90.9		P	72 - 121
Propanil	79.9		P	45 - 144
Propargite	82.2		P	10 - 199
Propiconazole	88.9		P	56 - 127
Pyraflufen Ethyl	102		P	56 - 140
Pyridaben	113		P	26 - 211
Pyriproxyfen	81.9		P	33 - 194
Simazine	89.5		P	67 - 121
Stirophos	58.5		P	20 - 142
Sulfentrazone	50.7		P	21 - 144
Tebuconazole	78.6		P	10 - 122
Terbufos	80.2		P	60 - 129
Terbutylazine	85.4		P	69 - 113
Tetradecachloro-m-terphenyl	100		P	70 - 200
Thiobencarb	88.6		P	51 - 120
Tri-o-cresyl Phosphate	106		P	49 - 150
Triadimefon	74.0		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	114		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.2		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	88.7		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P434981

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	101		P	40 - 150
AMPA	110		P	40 - 150
Endothall	93.6		P	40 - 150
Glufosinate	106		P	40 - 150
Glyphosate	97.5		P	40 - 150
Sucralose	95.0		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435061

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	89.0		P	40 - 150
2,4,5-T	96.3		P	40 - 150
Acetaminophen	79.0		P	30 - 150
Acetamiprid	87.8		P	40 - 150
Afidopyropen	58.0		P	30 - 150
Bentazon	82.3		P	30 - 150
Benzovindiflupyr	88.0		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P435061

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	84.4		P	40 - 150
Clothianidin	95.1		P	40 - 150
Dinotefuran	95.2		P	40 - 150
Diuron	80.0		P	40 - 150
Fenuron	89.2		P	40 - 150
Fluridone	80.7		P	40 - 150
Hydrocodone	77.0		P	40 - 150
Ibuprofen	71.0		P	40 - 150
Imazapyr	80.6		P	40 - 150
Imidacloprid	87.1		P	40 - 150
Linuron	71.2		P	40 - 150
Mandestrobin	87.4		P	40 - 150
MCPP	111		P	40 - 150
Naproxen	87.2		P	40 - 150
Primidone	85.6		P	40 - 150
Pyraclostrobin	70.6		P	40 - 150
Silvex	99.2		P	40 - 150
Thiamethoxam	96.1		P	40 - 150
Tolfenpyrad	65.3		P	30 - 150
Triclopyr	102		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P435325

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.8		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P435609

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

Reference Method: SM 2540 D-2015

Batch ID: P435611

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	99.6		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P435328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P435601

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P435144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437356	Calcium	102		P	80 - 120
2437356	Iron	105	105	P/P	80 - 120
2437356	Magnesium	107	106	P/P	80 - 120
2437356	Potassium	102	103	P/P	80 - 120
2437356	Sodium	102		P	80 - 120
2437356	Strontium	99.4	99.4	P/P	80 - 120
2437356	Tin	99.0	98.4	P/P	80 - 120
2437356	Titanium	97.2	95.4	P/P	80 - 120
2437356	Vanadium	102	101	P/P	80 - 120
2437356	Zinc	100	99.2	P/P	80 - 120
2437492	Calcium	104		P	80 - 120
2437492	Iron	105		P	80 - 120
2437492	Magnesium	103		P	80 - 120
2437492	Potassium	101		P	80 - 120
2437492	Sodium	103		P	80 - 120
2437492	Strontium	99.2		P	80 - 120
2437492	Tin	102		P	80 - 120
2437492	Titanium	103		P	80 - 120
2437492	Vanadium	104		P	80 - 120
2437492	Zinc	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P435144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437356	Aluminum	107	99.4	P/P	80 - 120
2437356	Antimony	93.5	95.8	P/P	80 - 120
2437356	Arsenic	96.8	99.0	P/P	80 - 120
2437356	Barium	99.4	103	P/P	80 - 120
2437356	Beryllium	94.7	94.8	P/P	80 - 120
2437356	Boron	102	104	P/P	80 - 120
2437356	Cadmium	102	101	P/P	80 - 120
2437356	Chromium	96.6	98.3	P/P	80 - 120
2437356	Cobalt	95.5	96.7	P/P	80 - 120
2437356	Copper	95.8	96.7	P/P	80 - 120
2437356	Lead	93.1	95.0	P/P	80 - 120
2437356	Manganese	95.3	99.2	P/P	80 - 120
2437356	Molybdenum	96.4	98.9	P/P	80 - 120
2437356	Nickel	97.1	97.2	P/P	80 - 120
2437356	Selenium	97.1	99.2	P/P	80 - 120
2437356	Silver	109	110	P/P	80 - 120
2437356	Thallium	103	105	P/P	80 - 120
2437492	Aluminum	97.6		P	80 - 120
2437492	Antimony	98.8		P	80 - 120
2437492	Arsenic	101		P	80 - 120
2437492	Barium	102		P	80 - 120
2437492	Beryllium	95.8		P	80 - 120
2437492	Boron	102		P	80 - 120
2437492	Cadmium	104		P	80 - 120
2437492	Chromium	98.0		P	80 - 120
2437492	Cobalt	96.9		P	80 - 120
2437492	Copper	97.3		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435144

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437492	Lead	94.5		P	80 - 120
2437492	Manganese	98.6		P	80 - 120
2437492	Molybdenum	100		P	80 - 120
2437492	Nickel	95.5		P	80 - 120
2437492	Selenium	98.6		P	80 - 120
2437492	Silver	109		P	80 - 120
2437492	Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435377

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437205	Chloride	102		P	90 - 110
2437371	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435380

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437205	Sulfate	99.9		P	90 - 110
2437371	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435142

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437210	Ammonia-N	96.6	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437461	Kjeldahl Nitrogen	97.7	95.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435656

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437361	NO2NO3-N	97.0	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435249

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437237	Total-P	109	109	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435096

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437463	O-Phosphate-P	96.5	99.0	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437649	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	64.4	59.5	P/P	26 - 165
2437649	Acetochlor	85.6	78.9	P/P	67 - 124
2437649	Alachlor	75.9	78.1	P/P	60 - 120
2437649	Ametryn	106	81.0	P/P	54 - 216
2437649	Atrazine	112	103	P/P	66 - 128
2437649	Atrazine Desethyl	58.8	56.7	P/P	15 - 122
2437649	Avobenzone	71.6	132	P/P	37 - 178
2437649	Azinphos Methyl	77.2	140	P/P	40 - 292
2437649	Azoxystrobin	73.5	90.0	P/P	35 - 220
2437649	Bromacil	63.5	79.1	P/P	45 - 127
2437649	Butylate	64.6	54.7	P/P	20 - 83.0
2437649	Caffeine	99.4	106	P/P	10 - 194
2437649	Carbophenothion	91.7	89.8	P/P	57 - 127
2437649	Carfentrazone Ethyl	84.0	88.7	P/P	51 - 141
2437649	Chlorfenapyr	62.9	73.8	P/P	46 - 111
2437649	Chlorpyrifos Ethyl	99.9	79.1	P/P	52 - 120
2437649	Chlorpyrifos Methyl	78.9	100	P/P	63 - 119
2437649	Coumaphos	93.8	136	P/P	10 - 228
2437649	Cyanazine	90.0	77.0	P/P	59 - 241
2437649	Cyprodinil	80.1	76.9	P/P	47 - 146
2437649	Dechlorane 602	33.0	60.5	F/P	50 - 150
2437649	Dechlorane 603	49.4	92.7	F/P	50 - 150
2437649	Dechlorane Plus	49.8	64.6	F/P	50 - 150
2437649	Demeton	104	87.2	P/P	40 - 136
2437649	Diazinon	93.6	84.2	P/P	69 - 132
2437649	Difenoconazole	87.8	62.9	P/P	57 - 258
2437649	Dimethenamid	83.9	79.3	P/P	54 - 110
2437649	Dimethomorph	103	93.4	P/P	28 - 210
2437649	Disulfoton	82.7	84.9	P/P	43 - 133
2437649	Dithiopyr	87.8	94.6	P/P	39 - 116
2437649	EPTC	63.3	44.9	P/P	20 - 78.0
2437649	Ethion	70.7	74.7	P/P	17 - 119
2437649	Ethoprop	85.3	89.0	P/P	66 - 120
2437649	Etridiazole	70.2	53.9	P/P	28 - 96.0
2437649	Fenamiphos	74.7	71.3	P/P	41 - 126
2437649	Fenbuconazole	36.2	91.7	F/P	42 - 169
2437649	Fipronil	65.4	65.0	P/P	61 - 132
2437649	Fipronil Desulfinyl	57.8	75.5	P/P	56 - 132
2437649	Fipronil Sulfide	58.1	74.9	P/P	48 - 119
2437649	Fipronil Sulfone	79.8	85.3	P/P	42 - 131
2437649	Fluazifop-P-butyl	71.9	86.6	P/P	53 - 131
2437649	Fludioxonil	62.2	74.5	P/P	56 - 127
2437649	Flumioxazin	87.7	67.0	P/P	19 - 300
2437649	Flutolanil	68.0	76.6	P/P	41 - 127
2437649	Fluxapyroxad	97.9	108	P/P	42 - 172
2437649	Fonofos	69.8	93.3	P/P	59 - 113
2437649	Hexabromobenzene	66.8	82.5	P/P	50 - 150
2437649	Hexazinone	116	118	P/P	66 - 122
2437649	Imazalil	73.2	72.9	P/P	21 - 283
2437649	Iprodione	105	109	P/P	43 - 150
2437649	Loratadine	124	179	P/P	23 - 201
2437649	Malathion	106	112	P/P	58 - 136

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437649	Metalaxyl	82.3	75.2	P/P	55 - 120
2437649	Metolachlor	86.8	82.8	P/P	57 - 121
2437649	Metribuzin	87.7	99.1	P/P	58 - 294
2437649	Mevinphos	71.7	81.7	P/P	50 - 126
2437649	Molinate	72.0	63.8	P/P	42 - 93.0
2437649	Myclobutanil	78.8	74.3	P/P	55 - 125
2437649	Naled	65.3	60.0	P/P	18 - 200
2437649	Napropamide	64.3	68.9	P/P	39 - 110
2437649	Norflurazon	78.6	79.7	P/P	48 - 128
2437649	Octinoxate	90.9	94.7	P/P	21 - 159
2437649	Oxadiazon	57.8	68.8	P/P	43 - 112
2437649	Oxybenzone	93.7	107	P/P	41 - 142
2437649	Oxyfluorfen	83.9	79.1	P/P	64 - 153
2437649	Parathion Ethyl	73.4	97.7	P/P	69 - 114
2437649	Parathion Methyl	111	128	P/P	79 - 139
2437649	PBB-153	35.9	75.7	F/P	50 - 150
2437649	PBDE-47	59.6	77.4	P/P	27 - 144
2437649	PBDE-99	27.4	55.0	P/P	18 - 150
2437649	Pendimethalin	82.2	89.3	P/P	50 - 139
2437649	Pentabromotoluene	80.4	84.1	P/P	50 - 150
2437649	Phenytoin	35.8	39.3	P/P	10 - 146
2437649	Phorate	100	74.9	P/P	54 - 161
2437649	Prodiamine	58.2	72.4	P/P	30 - 161
2437649	Prometon	107	99.6	P/P	45 - 134
2437649	Prometryn	72.4	76.6	P/P	45 - 137
2437649	Pronamide	101	110	P/P	65 - 133
2437649	Propanil	78.5	85.1	P/P	49 - 142
2437649	Propargite	73.4	93.7	P/P	10 - 203
2437649	Propiconazole	61.4	76.5	P/P	38 - 146
2437649	Pyraflufen Ethyl	97.1	92.2	P/P	34 - 153
2437649	Pyridaben	91.4	96.1	P/P	12 - 192
2437649	Pyriproxyfen	59.2	86.0	P/P	33 - 180
2437649	Simazine	106	113	P/P	51 - 157
2437649	Stirophos	42.6	78.6	P/P	10 - 128
2437649	Sulfentrazone	66.7	83.8	P/P	53 - 186
2437649	Tebuconazole	75.1	99.7	P/P	10 - 133
2437649	Terbufos	86.6	102	P/P	65 - 139
2437649	Terbutylazine	91.8	104	P/P	66 - 117
2437649	Tetradecachloro-m-terphenyl	65.5	80.2	F/P	70 - 200
2437649	Thiobencarb	87.1	86.3	P/P	51 - 119
2437649	Tri-o-cresyl Phosphate	83.1	93.6	P/P	31 - 144
2437649	Triadimefon	62.8	74.2	P/P	48 - 119
2437649	Tris(1-chloro-2-propyl) phosphate (TCPP)	88.4	123	P/P	50 - 150
2437649	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	75.8	92.5	P/P	50 - 150
2437649	Tris(2-chloroethyl) phosphate (TCEP)	101	84.1	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P434981

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2436927	Acesulfame K	103	107	P/P	40 - 150
2436927	AMPA	59.1	60.2	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P434981

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2436927	Endothall	118	121	P/P	40 - 150
2436927	Glufosinate	116	116	P/P	40 - 150
2436927	Glyphosate	77.6	76.9	P/P	40 - 150
2436927	Sucralose	104	112	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435061

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437002	2,4-D	99.0	92.2	P/P	40 - 150
2437002	2,4,5-T	98.0	97.7	P/P	40 - 150
2437002	Acetaminophen	69.8	68.0	P/P	30 - 150
2437002	Acetamiprid	57.6	57.8	P/P	40 - 150
2437002	Afidopyropen	73.6	67.2	P/P	30 - 150
2437002	Bentazon	29.3	29.6	F/F	30 - 150
2437002	Benzovindiflupyr	89.1	83.8	P/P	40 - 150
2437002	Carbamazepine	57.5	55.4	P/P	40 - 150
2437002	Dinotefuran	65.8	66.1	P/P	40 - 150
2437002	Diuron	49.5	47.1	P/P	40 - 150
2437002	Fenuron	41.8	40.8	P/P	40 - 150
2437002	Fluridone	52.9	52.2	P/P	40 - 150
2437002	Hydrocodone	45.8	43.9	P/P	40 - 150
2437002	Ibuprofen	56.6	61.4	P/P	40 - 150
2437002	Imazapyr	90.2	72.9	P/P	40 - 150
2437002	Linuron	57.6	51.4	P/P	40 - 150
2437002	Mandestrobin	55.3	70.8	P/P	40 - 150
2437002	MCPD	108	100	P/P	40 - 150
2437002	Naproxen	460	396	F/F	40 - 150
2437002	Primidone	68.1	61.9	P/P	40 - 150
2437002	Pyraclostrobin	72.1	65.5	P/P	40 - 150
2437002	Silvex	97.3	92.0	P/P	40 - 150
2437002	Thiamethoxam	64.5	62.8	P/P	40 - 150
2437002	Tolfenpyrad	52.7	58.6	P/P	30 - 150
2437002	Triclopyr	107	97.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P435328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437756	Fluoride	99.9	98.9	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435601

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2437149	Organic Carbon	93.8	96.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437404	Color (true)	0.691	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435084

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437469	Turbidity	7.73	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437356	Calcium	0.299	Spike	P	0 - 20
2437356	Iron	0.239	Spike	P	0 - 20
2437356	Magnesium	0.154	Spike	P	0 - 20
2437356	Potassium	0.613	Spike	P	0 - 20
2437356	Sodium	0.107	Spike	P	0 - 20
2437356	Strontium	0.0281	Spike	P	0 - 20
2437356	Tin	0.548	Spike	P	0 - 20
2437356	Titanium	1.60	Spike	P	0 - 20
2437356	Vanadium	0.808	Spike	P	0 - 20
2437356	Zinc	0.948	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437356	Aluminum	4.90	Spike	P	0 - 20
2437356	Antimony	2.50	Spike	P	0 - 20
2437356	Arsenic	2.18	Spike	P	0 - 20
2437356	Barium	2.44	Spike	P	0 - 20
2437356	Beryllium	0.0722	Spike	P	0 - 20
2437356	Boron	1.34	Spike	P	0 - 20
2437356	Cadmium	0.990	Spike	P	0 - 20
2437356	Chromium	1.75	Spike	P	0 - 20
2437356	Cobalt	1.24	Spike	P	0 - 20
2437356	Copper	0.934	Spike	P	0 - 20
2437356	Lead	1.91	Spike	P	0 - 20
2437356	Manganese	1.70	Spike	P	0 - 20
2437356	Molybdenum	2.48	Spike	P	0 - 20
2437356	Nickel	0.0528	Spike	P	0 - 20
2437356	Selenium	2.17	Spike	P	0 - 20
2437356	Silver	1.44	Spike	P	0 - 20
2437356	Thallium	2.00	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437205	Chloride	0.859	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P435380

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437205	Sulfate	0.170	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435142

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437210	Ammonia-N	2.44	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435649

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437461	Kjeldahl Nitrogen	1.94	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P435656

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437361	NO2NO3-N	0.504	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435249

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437237	Total-P	0.207	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435096

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437463	O-Phosphate-P	2.56	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P435031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437649	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	7.93	Spike	P	0 - 37
2437649	Acetochlor	8.15	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P435031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437649	Alachlor	2.87	Spike	P	0 - 30
2437649	Ametryn	27.1	Spike	P	0 - 32
2437649	Atrazine	4.44	Spike	P	0 - 41
2437649	Atrazine Desethyl	3.33	Spike	P	0 - 36
2437649	Avobenzone	59.2	Spike	F	0 - 36
2437649	Azinphos Methyl	57.5	Spike	P	0 - 75
2437649	Azoxystrobin	20.1	Spike	P	0 - 39
2437649	Bromacil	21.9	Spike	P	0 - 33
2437649	Butylate	16.6	Spike	P	0 - 44
2437649	Caffeine	5.56	Spike	P	0 - 74
2437649	Carbophenothion	2.13	Spike	P	0 - 25
2437649	Carfentrazone Ethyl	5.40	Spike	P	0 - 27
2437649	Chlorfenapyr	16.0	Spike	P	0 - 24
2437649	Chlorpyrifos Ethyl	23.2	Spike	P	0 - 26
2437649	Chlorpyrifos Methyl	23.5	Spike	P	0 - 26
2437649	Coumaphos	37.0	Spike	F	0 - 28
2437649	Cyanazine	15.6	Spike	P	0 - 48
2437649	Cyprodinil	4.13	Spike	P	0 - 29
2437649	Dechlorane 602	58.8	Spike	F	0 - 30
2437649	Dechlorane 603	61.0	Spike	F	0 - 30
2437649	Dechlorane Plus	25.8	Spike	P	0 - 30
2437649	Demeton	17.7	Spike	P	0 - 33
2437649	Diazinon	10.5	Spike	P	0 - 29
2437649	Difenoconazole	33.1	Spike	P	0 - 34
2437649	Dimethenamid	5.67	Spike	P	0 - 39
2437649	Dimethomorph	9.77	Spike	P	0 - 51
2437649	Disulfoton	2.62	Spike	P	0 - 30
2437649	Dithiopyr	7.56	Spike	P	0 - 26
2437649	EPTC	34.1	Spike	P	0 - 43
2437649	Ethion	5.52	Spike	P	0 - 79
2437649	Ethoprop	4.21	Spike	P	0 - 29
2437649	Etridiazole	26.3	Spike	P	0 - 33
2437649	Fenamiphos	4.62	Spike	P	0 - 40
2437649	Fenbuconazole	86.7	Spike	F	0 - 74
2437649	Fipronil	0.566	Spike	P	0 - 29
2437649	Fipronil Desulfinyl	26.5	Spike	P	0 - 32
2437649	Fipronil Sulfide	25.2	Spike	P	0 - 30
2437649	Fipronil Sulfone	6.72	Spike	P	0 - 33
2437649	Fluazifop-P-butyl	18.5	Spike	P	0 - 38
2437649	Fludioxonil	18.0	Spike	P	0 - 29
2437649	Flumioxazin	26.6	Spike	P	0 - 51
2437649	Flutolanil	11.9	Spike	P	0 - 25
2437649	Fluxapyroxad	10.0	Spike	P	0 - 45
2437649	Fonofos	28.8	Spike	F	0 - 27
2437649	Hexabromobenzene	21.1	Spike	P	0 - 30
2437649	Hexazinone	1.82	Spike	P	0 - 30
2437649	Imazalil	0.407	Spike	P	0 - 100
2437649	Iprodione	3.29	Spike	P	0 - 33
2437649	Loratadine	36.4	Spike	P	0 - 56
2437649	Malathion	5.01	Spike	P	0 - 37
2437649	Metalaxyl	9.02	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P435031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437649	Metolachlor	4.25	Spike	P	0 - 29
2437649	Metribuzin	12.2	Spike	P	0 - 45
2437649	Mevinphos	13.1	Spike	P	0 - 29
2437649	Molinate	12.1	Spike	P	0 - 33
2437649	Myclobutanil	5.91	Spike	P	0 - 26
2437649	Naled	8.56	Spike	P	0 - 37
2437649	Napropamide	6.91	Spike	P	0 - 44
2437649	Norflurazon	1.36	Spike	P	0 - 30
2437649	Octinoxate	4.17	Spike	P	0 - 45
2437649	Oxadiazon	17.3	Spike	P	0 - 28
2437649	Oxybenzone	13.2	Spike	P	0 - 46
2437649	Oxyfluorfen	5.97	Spike	P	0 - 28
2437649	Parathion Ethyl	28.4	Spike	P	0 - 31
2437649	Parathion Methyl	14.4	Spike	P	0 - 29
2437649	PBB-153	71.2	Spike	F	0 - 30
2437649	PBDE-47	26.1	Spike	P	0 - 36
2437649	PBDE-99	66.9	Spike	F	0 - 40
2437649	Pendimethalin	8.37	Spike	P	0 - 33
2437649	Pentabromotoluene	4.47	Spike	P	0 - 30
2437649	Phenytoin	9.29	Spike	P	0 - 100
2437649	Phorate	29.1	Spike	P	0 - 36
2437649	Prodiamine	21.8	Spike	P	0 - 71
2437649	Prometon	7.38	Spike	P	0 - 36
2437649	Prometryn	5.57	Spike	P	0 - 28
2437649	Pronamide	8.78	Spike	P	0 - 24
2437649	Propanil	7.98	Spike	P	0 - 28
2437649	Propargite	24.3	Spike	P	0 - 43
2437649	Propiconazole	16.8	Spike	P	0 - 33
2437649	Pyraflufen Ethyl	5.22	Spike	P	0 - 29
2437649	Pyridaben	2.78	Spike	P	0 - 30
2437649	Pyriproxyfen	36.9	Spike	P	0 - 79
2437649	Simazine	6.90	Spike	P	0 - 29
2437649	Stirophos	59.3	Spike	P	0 - 61
2437649	Sulfentrazone	22.7	Spike	P	0 - 33
2437649	Tebuconazole	28.1	Spike	P	0 - 69
2437649	Terbufos	16.4	Spike	P	0 - 29
2437649	Terbuthylazine	12.6	Spike	P	0 - 32
2437649	Tetradecachloro-m-terphenyl	20.2	Spike	P	0 - 30
2437649	Thiobencarb	1.02	Spike	P	0 - 26
2437649	Tri-o-cresyl Phosphate	11.9	Spike	P	0 - 33
2437649	Triadimefon	16.6	Spike	P	0 - 28
2437649	Tris(1-chloro-2-propyl) phosphate (TCPP)	28.2	Spike	P	0 - 30
2437649	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	18.6	Spike	P	0 - 30
2437649	Tris(2-chloroethyl) phosphate (TCEP)	18.5	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P434981

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436927	Acesulfame K	3.90	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P434981

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2436927	AMPA	1.99	Spike	P	0 - 30
2436927	Endothall	2.60	Spike	P	0 - 30
2436927	Glufosinate	0.0698	Spike	P	0 - 30
2436927	Glyphosate	0.959	Spike	P	0 - 30
2436927	Sucralose	7.82	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P435061

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437002	2,4-D	7.08	Spike	P	0 - 30
2437002	2,4,5-T	0.337	Spike	P	0 - 30
2437002	Acetaminophen	2.67	Spike	P	0 - 30
2437002	Acetamiprid	0.320	Spike	P	0 - 30
2437002	Afidopyropen	8.99	Spike	P	0 - 30
2437002	Bentazon	1.09	Spike	P	0 - 30
2437002	Benzovindiflupyr	6.15	Spike	P	0 - 30
2437002	Carbamazepine	3.76	Spike	P	0 - 30
2437002	Clothianidin	5.36	Spike	P	0 - 30
2437002	Dinotefuran	0.353	Spike	P	0 - 30
2437002	Diuron	4.86	Spike	P	0 - 30
2437002	Fenuron	2.64	Spike	P	0 - 30
2437002	Fluridone	1.17	Spike	P	0 - 30
2437002	Hydrocodone	4.28	Spike	P	0 - 30
2437002	Ibuprofen	8.14	Spike	P	0 - 30
2437002	Imazapyr	11.9	Spike	P	0 - 30
2437002	Imidacloprid	3.18	Spike	P	0 - 30
2437002	Linuron	11.4	Spike	P	0 - 30
2437002	Mandestrobin	24.6	Spike	P	0 - 30
2437002	MCPP	7.91	Spike	P	0 - 30
2437002	Naproxen	14.8	Spike	P	0 - 30
2437002	Primidone	9.57	Spike	P	0 - 30
2437002	Pyraclostrobin	7.87	Spike	P	0 - 30
2437002	Silvex	5.61	Spike	P	0 - 30
2437002	Thiamethoxam	2.52	Spike	P	0 - 30
2437002	Tolfenpyrad	10.4	Spike	P	0 - 30
2437002	Triclopyr	8.76	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P435325

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437756	Total Alkalinity	0.944	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P435609

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P435609

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437208	TDS	2.41	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P435328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437756	Fluoride	0.968	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P435601

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2437149	Organic Carbon	2.56	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2437432
Field Sample ID: G1SD0134

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	107	P	30 - 160
EPA 8321B	Acetaminophen-d4	55.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	53.7	P	30 - 160
EPA 8321B	Diuron-d6	46.8	P	30 - 160
EPA 8321B	Endothall-d6	96.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	66.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.1	P	30 - 160
EPA 8321B	Primidone-d5	61.3	P	30 - 160
EPA 8321B	Sucralose-d6	92.5	P	30 - 160

Lab Sample ID: 2437434
Field Sample ID: G1SD0134

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	87.6	P	20 - 200
EPA 8270E	Simazine-d10	86.2	P	62 - 142
EPA 8270E	Terbufos-d10	64.1	P	58 - 132
EPA 8270E	Terphenyl-d14	90.3	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A121567

Included Lab Sample IDs: 2437425

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.7	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121569

Included Lab Sample IDs: 2437425

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	96.5	97.0	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A121572

Included Lab Sample IDs: 2437427

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.7	98.2	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121577

Included Lab Sample IDs: 2437432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	103	80.0	P/P	60 - 160
Sucralose	97.4	90.8	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121599

Included Lab Sample IDs: 2437426

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	99.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121604

Included Lab Sample IDs: 2437432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	87.6	99.7	P/P	60 - 160
Endothall	87.4	88.2	P/P	60 - 160
Glufosinate	100	103	P/P	60 - 160
Glyphosate	95.8	102	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A121621

Included Lab Sample IDs: 2437432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	89.8	78.4	P/P	50 - 150
2,4,5-T	88.9	74.3	P/P	50 - 150
Acetaminophen	99.8	101	P/P	60 - 160
Acetamiprid	108	107	P/P	50 - 150
Afidopyropen	97.3	103	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121621
Included Lab Sample IDs: 2437432

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	104	102	P/P	50 - 160
Benzovindiflupyr	103	102	P/P	50 - 150
Carbamazepine	101	100	P/P	60 - 150
Clothianidin	106	113	P/P	60 - 150
Dinotefuran	106	108	P/P	50 - 150
Diuron	101	101	P/P	60 - 160
Fenuron	103	102	P/P	60 - 150
Fluridone	97.4	94.5	P/P	60 - 160
Hydrocodone	97.0	96.2	P/P	60 - 150
Ibuprofen	114	97.5	P/P	50 - 160
Imazapyr	97.0	93.8	P/P	50 - 150
Imidacloprid	95.0	94.9	P/P	60 - 150
Linuron	103	98.5	P/P	60 - 150
Mandestrobin	105	74.1	P/P	50 - 150
MCPP	84.3	83.5	P/P	50 - 150
Naproxen	69.9	85.2	P/P	50 - 160
Primidone	91.7	95.5	P/P	60 - 150
Pyraclostrobin	95.7	94.2	P/P	60 - 150
Silvex	85.1	94.2	P/P	50 - 150
Thiamethoxam	109	108	P/P	50 - 150
Tolfenpyrad	102	99.1	P/P	60 - 150
Triclopyr	95.5	79.9	P/P	50 - 150

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A121636
Included Lab Sample IDs: 2437433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	100	P/P	90 - 110
Iron	101	102	P/P	90 - 110
Magnesium	100	102	P/P	90 - 110
Potassium	99.9	100	P/P	90 - 110
Sodium	101	100	P/P	90 - 110
Strontium	99.9	98.2	P/P	90 - 110
Tin	101	101	P/P	90 - 110
Titanium	101	101	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110
Zinc	101	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A121637
Included Lab Sample IDs: 2437433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.7	98.5	P/P	90 - 110
Antimony	94.0	95.5	P/P	90 - 110
Arsenic	100	98.7	P/P	90 - 110
Barium	98.1	98.1	P/P	90 - 110
Beryllium	97.2	95.3	P/P	90 - 110
Boron	102	100	P/P	90 - 110
Cadmium	100	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121637

Included Lab Sample IDs: 2437433

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	99.0	100	P/P	90 - 110
Cobalt	99.6	97.5	P/P	90 - 110
Copper	98.8	96.2	P/P	90 - 110
Lead	92.5	93.1	P/P	90 - 110
Manganese	99.5	101	P/P	90 - 110
Molybdenum	98.4	98.8	P/P	90 - 110
Nickel	99.5	96.7	P/P	90 - 110
Selenium	99.7	100	P/P	90 - 110
Silver	99.8	101	P/P	90 - 110
Thallium	98.5	99.1	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121687

Included Lab Sample IDs: 2437425

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.9	94.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121687

Included Lab Sample IDs: 2437425

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121698

Included Lab Sample IDs: 2437426

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121711

Included Lab Sample IDs: 2437425

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

Reference Method: EPA 8270E

Run ID: A121722

Included Lab Sample IDs: 2437434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	94.3		P	80 - 120
Avobenzone	109		P	80 - 120
Dechlorane 602	96.4		P	80 - 120
Dechlorane 603	104		P	80 - 120
Dechlorane Plus	97.1		P	80 - 120
Hexabromobenzene	92.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121722
Included Lab Sample IDs: 2437434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Octinoxate	93.0		P	80 - 120
Oxybenzone	99.8		P	80 - 120
PBB-153	99.5		P	80 - 120
PBDE-47	91.2		P	80 - 120
PBDE-99	95.9		P	80 - 120
Pentabromotoluene	101		P	80 - 120
Tetradecachloro-m-terphenyl	114		P	80 - 120
Tri-o-cresyl Phosphate	94.5		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	88.0		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	96.1		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	91.6		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A121794
Included Lab Sample IDs: 2437426

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	98.4	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A121801
Included Lab Sample IDs: 2437434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	88.3		P	80 - 120
Alachlor	83.3		P	80 - 120
Ametryn	83.7		P	80 - 120
Atrazine	102		P	80 - 120
Atrazine Desethyl	94.9		P	80 - 120
Azinphos Methyl	103		P	80 - 120
Azoxystrobin	102		P	80 - 120
Bromacil	89.3		P	80 - 120
Butylate	89.6		P	80 - 120
Caffeine	115		P	80 - 120
Carbophenothion	86.6		P	80 - 120
Carfentrazone Ethyl	87.3		P	80 - 120
Chlorfenapyr	94.6		P	80 - 120
Chlorpyrifos Ethyl	87.6		P	80 - 120
Chlorpyrifos Methyl	89.1		P	80 - 120
Coumaphos	79.3*		F	80 - 120
Cyanazine	88.7		P	80 - 120
Cyprodinil	109		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	86.9		P	80 - 120
Difenoconazole	106		P	80 - 120
Dimethenamid	87.4		P	80 - 120
Dimethomorph	110		P	80 - 120
Disulfoton	88.6		P	80 - 120
Dithiopyr	97.4		P	80 - 120
EPTC	109		P	80 - 120
Ethion	93.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A121801
 Included Lab Sample IDs: 2437434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethoprop	102		P	80 - 120
Etridiazole	104		P	80 - 120
Fenamiphos	90.6		P	80 - 120
Fenbuconazole	81.7		P	80 - 120
Fipronil	87.0		P	80 - 120
Fipronil Desulfinyl	86.2		P	80 - 120
Fipronil Sulfide	92.7		P	80 - 120
Fipronil Sulfone	95.3		P	80 - 120
Fluazifop-P-butyl	81.3		P	80 - 120
Fludioxonil	89.8		P	80 - 120
Flumioxazin	92.9		P	80 - 120
Flutolanil	85.3		P	80 - 120
Fluxapyroxad	81.2		P	80 - 120
Fonofos	86.7		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	87.9		P	80 - 120
Iprodione	76.2*		F	80 - 120
Loratadine	90.0		P	80 - 120
Malathion	98.7		P	80 - 120
Metalaxyl	94.8		P	80 - 120
Metolachlor	96.0		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	102		P	80 - 120
Molinate	101		P	80 - 120
Myclobutanil	90.0		P	80 - 120
Naled	104		P	80 - 120
Napropamide	82.6		P	80 - 120
Norflurazon	86.6		P	80 - 120
Oxadiazon	95.7		P	80 - 120
Oxyfluorfen	94.3		P	80 - 120
Parathion Ethyl	97.1		P	80 - 120
Parathion Methyl	97.5		P	80 - 120
Pendimethalin	115		P	80 - 120
Phenytol	82.0		P	80 - 120
Phorate	95.8		P	80 - 120
Prodiamine	90.1		P	80 - 120
Prometon	89.3		P	80 - 120
Prometryn	87.0		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	85.3		P	80 - 120
Propargite	88.4		P	80 - 120
Propiconazole	82.0		P	80 - 120
Pyraflufen Ethyl	85.6		P	80 - 120
Pyridaben	87.3		P	80 - 120
Pyriproxyfen	100		P	80 - 120
Simazine	102		P	80 - 120
Stirophos	90.1		P	80 - 120
Sulfentrazone	80.0		P	80 - 120
Tebuconazole	85.1		P	80 - 120
Terbufos	100		P	80 - 120
Terbutylazine	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121801
Included Lab Sample IDs: 2437434

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Thiobencarb	96.8		P	80 - 120
Triadimefon	98.0		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A121819
Included Lab Sample IDs: 2437426

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A121848
Included Lab Sample IDs: 2437426

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	103	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)	99.6					0.691	
EPA 180.1 Rev. 2.0	Turbidity	101					7.73	
EPA 200.7 Rev. 4.4	Calcium	101	102	104				0.299
	Iron	107	105	105	105			0.239
	Magnesium	108	107	106	103			0.154
	Potassium	102	102	103	101			0.613
	Sodium	102	102	103				0.107
	Strontium	100	99.4	99.4	99.2			0.0281
	Tin	104	99.0	98.4	102			0.548
	Titanium	102	97.2	95.4	103			1.60
	Vanadium	103	102	101	104			0.808
	Zinc	101	100	99.2	102			0.948
EPA 200.8 Rev. 5.4	Aluminum	97.5	107	99.4	97.6			4.90
	Antimony	95.9	93.5	95.8	98.8			2.50
	Arsenic	98.0	96.8	99.0	101			2.18
	Barium	99.9	99.4	103	102			2.44
	Beryllium	93.0	94.7	94.8	95.8			0.0722
	Boron	102	102	104	102			1.34
	Cadmium	98.2	102	101	104			0.990
	Chromium	95.8	96.6	98.3	98.0			1.75
	Cobalt	96.2	95.5	96.7	96.9			1.24
	Copper	96.4	95.8	96.7	97.3			0.934
	Lead	92.4	93.1	95.0	94.5			1.91
	Manganese	97.3	95.3	99.2	98.6			1.70
	Molybdenum	97.1	96.4	98.9	100			2.48
	Nickel	95.8	97.1	97.2	95.5			0.0528
	Selenium	97.3	97.1	99.2	98.6			2.17
	Silver	111	109	110	109			1.44
	Thallium	101	103	105	104			2.00
EPA 300.0 Rev. 2.1	Chloride	103	102	104			0.859	
	Sulfate	101	99.9	102			0.170	
EPA 350.1 Rev. 2.0	Ammonia-N	99.0	96.6	99.2				2.44
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.6	97.7	95.1				1.94
EPA 353.2 Rev. 2.0	NO2NO3-N	102	97.0	97.5				0.504
EPA 365.1 Rev. 2.0	Total-P	104	109	109				0.207
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.3	96.5	99.0				2.56
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	72.4	64.4	59.5				7.93
	Acetochlor	83.8	78.9	85.6				8.15
	Alachlor	75.0	78.1	75.9				2.87
	Ametryn	78.5	81.0	106				27.1
	Atrazine	82.9	103	112				4.44
	Atrazine Desethyl	73.2	56.7	58.8				3.33
	Avobenzone	137	71.6	132				59.2
	Azinphos Methyl	129	140	77.2				57.5
	Azoxystrobin	91.1	90.0	73.5				20.1
	Bromacil	76.4	79.1	63.5				21.9
	Butylate	55.6	54.7	64.6				16.6
	Caffeine	120	106	99.4				5.56
	Carbophenothion	83.0	89.8	91.7				2.13
	Carfentrazone Ethyl	79.3	88.7	84.0				5.40
	Chlorfenapyr	67.3	73.8	62.9				16.0
	Chlorpyrifos Ethyl	87.4	79.1	99.9				23.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	89.7	100	78.9		23.5
	Coumaphos	127	136	93.8		37.0
	Cyanazine	88.3	77.0	90.0		15.6
	Cyprodinil	76.2	76.9	80.1		4.13
	Dechlorane 602	47.1	33.0	60.5		58.8
	Dechlorane 603	112	49.4	92.7		61.0
	Dechlorane Plus	75.3	49.8	64.6		25.8
	Demeton	85.8	87.2	104		17.7
	Diazinon	76.1	84.2	93.6		10.5
	Difenoconazole	82.6	62.9	87.8		33.1
	Dimethenamid	80.5	79.3	83.9		5.67
	Dimethomorph	101	93.4	103		9.77
	Disulfoton	78.0	84.9	82.7		2.62
	Dithiopyr	82.7	94.6	87.8		7.56
	EPTC	54.2	44.9	63.3		34.1
	Ethion	71.6	74.7	70.7		5.52
	Ethoprop	78.9	89.0	85.3		4.21
	Etridiazole	62.0	53.9	70.2		26.3
	Fenamiphos	78.8	71.3	74.7		4.62
	Fenbuconazole	91.6	91.7	36.2		86.7
	Fipronil	62.5	65.0	65.4		0.566
	Fipronil Desulfinyl	68.5	75.5	57.8		26.5
	Fipronil Sulfide	67.8	74.9	58.1		25.2
	Fipronil Sulfone	74.2	85.3	79.8		6.72
	Fluazifop-P-butyl	80.6	86.6	71.9		18.5
	Fludioxonil	74.5	74.5	62.2		18.0
	Flumioxazin	65.7	67.0	87.7		26.6
	Flutolanil	75.9	76.6	68.0		11.9
	Fluxapyroxad	93.4	108	97.9		10.0
	Fonofos	70.6	93.3	69.8		28.8
	Hexabromobenzene	92.0	66.8	82.5		21.1
	Hexazinone	84.6	118	116		1.82
	Imazalil	64.1	72.9	73.2		0.407
	Iprodione	78.3	109	105		3.29
	Loratadine	147	179	124		36.4
	Malathion	106	112	106		5.01
	Metalaxyl	84.5	75.2	82.3		9.02
	Metolachlor	81.9	82.8	86.8		4.25
	Metribuzin	88.6	99.1	87.7		12.2
	Mevinphos	79.7	81.7	71.7		13.1
	Molinate	68.7	63.8	72.0		12.1
	Myclobutanil	74.9	74.3	78.8		5.91
	Naled	58.6	60.0	65.3		8.56
	Napropamide	61.7	68.9	64.3		6.91
	Norflurazon	88.1	79.7	78.6		1.36
	Octinoxate	102	90.9	94.7		4.17
	Oxadiazon	62.5	68.8	57.8		17.3
	Oxybenzone	105	93.7	107		13.2
	Oxyfluorfen	75.1	79.1	83.9		5.97
	Parathion Ethyl	90.8	97.7	73.4		28.4
	Parathion Methyl	131	128	111		14.4
	PBB-153	110	35.9	75.7		71.2
	PBDE-47	68.8	59.6	77.4		26.1
	PBDE-99	59.1	27.4	55.0		66.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	80.1	89.3	82.2		8.37
	Pentabromotoluene	87.5	80.4	84.1		4.47
	Phenytoin	25.6	39.3	35.8		9.29
	Phorate	96.9	74.9	100		29.1
	Prodiamine	55.3	72.4	58.2		21.8
	Prometon	76.9	99.6	107		7.38
	Prometryn	78.8	76.6	72.4		5.57
	Pronamide	90.9	110	101		8.78
	Propanil	79.9	85.1	78.5		7.98
	Propargite	82.2	93.7	73.4		24.3
	Propiconazole	88.9	61.4	76.5		16.8
	Pyraflufen Ethyl	102	97.1	92.2		5.22
	Pyridaben	113	91.4	96.1		2.78
	Pyriproxyfen	81.9	59.2	86.0		36.9
	Simazine	89.5	106	113		6.90
	Stiophos	58.5	42.6	78.6		59.3
	Sulfentrazone	50.7	66.7	83.8		22.7
	Tebuconazole	78.6	75.1	99.7		28.1
	Terbufos	80.2	86.6	102		16.4
	Terbutylazine	85.4	91.8	104		12.6
	Tetradecachloro-m-terphenyl	100	65.5	80.2		20.2
	Thiobencarb	88.6	87.1	86.3		1.02
	Tri-o-cresyl Phosphate	106	83.1	93.6		11.9
	Triadimefon	74.0	62.8	74.2		16.6
	Tris(1-chloro-2-propyl) phosphate (TCPP)	114	88.4	123		28.2
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.2	75.8	92.5		18.6
	Tris(2-chloroethyl) phosphate (TCEP)	88.7	101	84.1		18.5
EPA 8321B	2,4-D	89.0	99.0	92.2		7.08
	2,4,5-T	96.3	98.0	97.7		0.337
	Acesulfame K	101	103	107		3.90
	Acetaminophen	79.0	68.0	69.8		2.67
	Acetamiprid	87.8	57.6	57.8		0.320
	Afidopyropen	58.0	73.6	67.2		8.99
	AMPA	110	59.1	60.2		1.99
	Bentazon	82.3	29.3	29.6		1.09
	Benzovindiflupyr	88.0	89.1	83.8		6.15
	Carbamazepine	84.4	57.5	55.4		3.76
	Clothianidin	95.1				5.36
	Dinotefuran	95.2	66.1	65.8		0.353
	Diuron	80.0	49.5	47.1		4.86
	Endothall	93.6	118	121		2.60
	Fenuron	89.2	41.8	40.8		2.64
	Fluridone	80.7	52.9	52.2		1.17
	Glufosinate	106	116	116		0.0698
	Glyphosate	97.5	77.6	76.9		0.959
	Hydrocodone	77.0	43.9	45.8		4.28
	Ibuprofen	71.0	56.6	61.4		8.14
	Imazapyr	80.6	90.2	72.9		11.9
	Imidacloprid	87.1				3.18
	Linuron	71.2	57.6	51.4		11.4
	Mandestrobin	87.4	55.3	70.8		24.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	MCCP	111	108	100			7.91
	Naproxen	87.2	460	396			14.8
	Primidone	85.6	68.1	61.9			9.57
	Pyraclostrobin	70.6	72.1	65.5			7.87
	Silvex	99.2	97.3	92.0			5.61
	Sucralose	95.0	104	112			7.82
	Thiamethoxam	96.1	64.5	62.8			2.52
	Tolfenpyrad	65.3	52.7	58.6			10.4
	Triclopyr	102	107	97.8			8.76
SM 2320 B-2011	Total Alkalinity	95.8				0.944	
SM 2540 C-2015	TDS	104				2.41	
SM 2540 D-2015	TSS	99.6					
SM 4500-F- C-2011	Fluoride	100	99.9	98.9			0.968
SM 5310 B-2011	Organic Carbon	97.6	93.8	96.4			2.56

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2437425
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2437425
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2437433
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2437433
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2437425
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2437425
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2437426
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2437426
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2437426
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2437426
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2437427
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2437434
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2437434
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2437432
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2437425
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2437433
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2437425
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2437425
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2437425
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2437426

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	09/15/2023			09/15/2023 14:39	Alexis Price	2437425
EPA 180.1 Rev. 2.0	09/15/2023			09/15/2023 13:46	Alexis Price	2437425
EPA 200.7 Rev. 4.4	09/15/2023	09/18/2023 13:10	George D Taylor	09/19/2023 19:08	Samatha Luckman	2437433
	09/15/2023	09/18/2023 13:10	George D Taylor	09/19/2023 19:17	Samatha Luckman	2437433
EPA 200.8 Rev. 5.4	09/15/2023	09/18/2023 13:10	George D Taylor	09/19/2023 15:23	Emily M Philpot	2437433
EPA 300.0 Rev. 2.1	09/15/2023			09/21/2023 12:07	James L Waggeberby	2437425
EPA 350.1 Rev. 2.0	09/15/2023			09/18/2023 13:41	Ping Hua	2437426
EPA 351.2 Rev. 2.0	09/15/2023	09/28/2023 13:28	Simonne.V. Calhoun	09/29/2023 11:11	Ping Hua	2437426
EPA 353.2 Rev. 2.0	09/15/2023			09/27/2023 13:37	Anna M. Plaviak	2437426
EPA 365.1 Rev. 2.0	09/15/2023	09/20/2023 15:00	Alexis Price	09/21/2023 13:50	Simonne.V. Calhoun	2437426
EPA 365.1 Rev. 2.0 dissolved	09/15/2023			09/15/2023 18:04	Adam P Silver	2437427
EPA 8270E	09/15/2023	09/20/2023 08:00	Fe-Val Siddell	09/22/2023 01:04	Arthur Maknenko	2437434
	09/15/2023	09/20/2023 08:00	Fe-Val Siddell	09/22/2023 20:09	Vandana T. Nagar	2437434
EPA 8321B	09/15/2023	09/15/2023 12:00	Hana Lee	09/15/2023 21:28	Tae K Lee	2437432
	09/15/2023	09/15/2023 12:00	Hana Lee	09/18/2023 15:05	Tae K Lee	2437432
	09/15/2023	09/18/2023 09:00	Hoor Shaik	09/18/2023 23:39	Juyoung Kim	2437432
SM 2320 B-2011	09/15/2023			09/21/2023 06:00	Dale L. Simmons	2437425
SM 2340 B-2011	09/15/2023			09/19/2023 19:08	Samatha Luckman	2437433
SM 2540 C-2015	09/15/2023			09/19/2023 15:12	Yijie Li	2437425
SM 2540 D-2015	09/15/2023			09/19/2023 15:12	Yijie Li	2437425
SM 4500-F- C-2011	09/15/2023			09/21/2023 06:00	Dale L. Simmons	2437425
SM 5310 B-2011	09/15/2023			09/27/2023 13:59	Khloe J Berg	2437426