

Chemical Analysis Report

CEN-DIST-2023-09-29-01

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

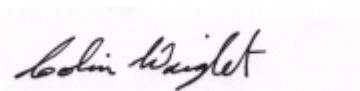
Event Description: **Ref Lake LVI**
Request ID: **RQ-2023-08-28-17**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Matthew Bearden

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Certified by: Colin Wright, Program Administrator

Date Certified: 23-OCT-2023 12:07

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

Collection Date/Time: 09/28/2023 12:52

Field ID: 20010492

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2441725	DEP SOP: NU-094-1	Color (true)	330		PCU	P435764	
	EPA 180.1 Rev. 2.0	Turbidity	8.3		NTU	P435762	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P436167	
		Sulfate	5.0		mg SO4/L	P436170	
	SM 2320 B-2011	Total Alkalinity	15		mg CaCO3/L	P435930	
	SM 2540 C-2015	TDS	108		mg/L	P436426	
	SM 2540 D-2015	TSS	3	I	mg/L	P436385	
2441726	SM 4500-F- C-2011	Fluoride	0.041	I	mg F/L	P435932	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P435867	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P436151	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.079		mg N/L	P436308	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P435988	
2441727	SM 5310 B-2011	Organic Carbon	24		mg C/L	P435840	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.076		mg P/L	P435754	
2441729	EPA 8321B	2,4-D	0.0020	U	ug/L	P435876	
		Acesulfame K	0.10	U	ug/L	P435662	
		2,4,5-T	0.0040	U	ug/L	P435876	
		AMPA	0.10	U	ug/L	P435662	
		Acetaminophen	0.0080	U	ug/L	P435876	
		Acetamiprid	0.0020	U	ug/L	P435876	
		Endothall	0.25	U	ug/L	P435662	MS
		Glufosinate	0.10	U	ug/L	P435662	
		Glyphosate	0.10	U	ug/L	P435662	
		Afidopyropen	0.0020	U	ug/L	P435876	
		Bentazon	0.0014	I	ug/L	P435876	
		Sucralose	0.041		ug/L	P435662	
		Benzovindiflupyr	0.0020	U	ug/L	P435876	
		Carbamazepine	8.0E-04	U	ug/L	P435876	
		Clothianidin	0.0020	U	ug/L	P435876	
		Dinotefuran	0.0020	U	ug/L	P435876	
		Diuron	0.0020	U	ug/L	P435876	RPD
		Fenuron	0.032	U	ug/L	P435876	
		Fluridone	8.0E-04	U	ug/L	P435876	
		Imazapyr	0.012	I	ug/L	P435876	
		Hydrocodone	0.0020	U	ug/L	P435876	
		Ibuprofen	0.080	U	ug/L	P435876	
		Imidacloprid	0.0020	U	ug/L	P435876	
		Linuron	0.0040	U	ug/L	P435876	
		Mandestrobin	0.0020	U	ug/L	P435876	
		MCPD	0.0020	U	ug/L	P435876	
		Naproxen	0.0080	U	ug/L	P435876	
		Primidone	0.0040	U	ug/L	P435876	
		Pyraclostrobin	0.0020	U	ug/L	P435876	

Field ID: 20010492

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2441729	EPA 8321B	Silvex	0.0040	U	ug/L	P435876	
		Thiamethoxam	0.0020	U	ug/L	P435876	
		Tolfenpyrad	0.0020	U	ug/L	P435876	
		Triclopyr	0.0040	U	ug/L	P435876	
2441730	EPA 200.7 Rev. 4.4	Calcium	11.0		mg/L	P435805	
		Iron	1.20E+03		ug/L	P435805	
		Magnesium	1.76		mg/L	P435805	
		Potassium	1.3		mg/L	P435805	
		Sodium	8.6		mg/L	P435805	
		Strontium	77.0		ug/L	P435805	
		Tin	3.0	U	ug/L	P435805	
		Titanium	2.6	I	ug/L	P435805	
		Vanadium	2.5	I	ug/L	P435805	
		Zinc	5.0	U	ug/L	P435805	
	EPA 200.8 Rev. 5.4	Aluminum	555		ug/L	P435805	
		Antimony	0.063	I	ug/L	P435805	
		Arsenic	1.27		ug/L	P435805	
		Barium	12.7		ug/L	P435805	
		Beryllium	0.044		ug/L	P435805	
		Boron	24.8		ug/L	P435805	
		Cadmium	0.020	U	ug/L	P435805	
		Chromium	0.93	I	ug/L	P435805	
		Cobalt	0.154		ug/L	P435805	
		Copper	0.94		ug/L	P435805	
		Lead	0.92		ug/L	P435805	
		Manganese	16.4		ug/L	P435805	
		Molybdenum	0.31	I	ug/L	P435805	
		Nickel	0.52	I	ug/L	P435805	
		Selenium	0.33	I	ug/L	P435805	
		Silver	0.010	U	ug/L	P435805	
		Thallium	0.10	U	ug/L	P435805	
		Hardness	34.7		mg/L	P435805	
2441755	SM 2340 B-2011	Oxybenzone**	10	U	ng/L	P435719	
	EPA 8270E	Acetochlor	0.20	U	ng/L	P435719	
		Octinoxate**	180	I	ng/L	P435719	
		Alachlor	0.41	U	ng/L	P435719	
		Avobenzone**	100	U	ng/L	P435719	
		Ametryn	1.1	U	ng/L	P435719	
		Atrazine	4.9		ng/L	P435719	
		PBDE-47**	4.1	U	ng/L	P435719	
		Atrazine Desethyl	1.3	U	ng/L	P435719	
		PBDE-99**	5.1	U	ng/L	P435719	
		Azinphos Methyl	3.1	U	ng/L	P435719	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P435719	
		Azoxystrobin	0.41	U	ng/L	P435719	

Field ID: 20010492

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2441755	EPA 8270E	Bromacil	0.61	U	ng/L	P435719	
		2-Ethylhexyl	12	U	ng/L	P435719	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.46	U	ng/L	P435719	
		Dechlorane Plus**	31	U	ng/L	P435719	
		Caffeine**	7.8	I	ng/L	P435719	
		Dechlorane 602**	5.1	U	ng/L	P435719	
		Carbophenothion	0.51	U	ng/L	P435719	
		Dechlorane 603**	4.1	U	ng/L	P435719	
		Carfentrazone Ethyl	0.15	U	ng/L	P435719	
		Hexabromobenzene**	6.1	U	ng/L	P435719	
		Chlorfenapyr	0.31	U	ng/L	P435719	
		PBB-153**	6.1	U	ng/L	P435719	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P435719	
		Pentabromotoluene**	3.1	U	ng/L	P435719	
		Chlorpyrifos Methyl	0.10	U	ng/L	P435719	
		Tris(2-chloroethyl) phosphate (TCEP)**	56	U	ng/L	P435719	
		Coumaphos	1.1	U	ng/L	P435719	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	25	U	ng/L	P435719	
		Cyanazine	5.1	U	ng/L	P435719	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.5	U	ng/L	P435719	
		Cyprodinil	0.20	U	ng/L	P435719	
		Tetradecachloro-m-terphenyl**	7.6	U	ng/L	P435719	
		Demeton	3.6	U	ng/L	P435719	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	61	U	ng/L	P435719	
		Diazinon	0.13	U	ng/L	P435719	
		Difenoconazole	0.61	U	ng/L	P435719	
		Dimethenamid	0.10	U	ng/L	P435719	
		Dimethomorph	0.31	U	ng/L	P435719	
		Disulfoton	0.61	U	ng/L	P435719	
		Dithiopyr	1.0	U	ng/L	P435719	
		EPTC	0.51	U	ng/L	P435719	
		Ethion	0.31	U	ng/L	P435719	
		Ethoprop	0.13	U	ng/L	P435719	
		Etridiazole	0.10	U	ng/L	P435719	
		Fenamiphos	0.46	UJ	ng/L	P435719	LCS
		Fenbuconazole	0.51	U	ng/L	P435719	
		Fipronil	0.20	U	ng/L	P435719	
		Fipronil Desulfinyl**	0.10	U	ng/L	P435719	
		Fipronil Sulfide	0.10	U	ng/L	P435719	
		Fipronil Sulfone	0.10	U	ng/L	P435719	
		Fluazifop-P-butyl	0.10	UJ	ng/L	P435719	MS
		Fludioxonil	0.10	U	ng/L	P435719	
		Flumioxazin	3.6	I	ng/L	P435719	

Field ID: 20010492

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2441755	EPA 8270E	Flutolanil	0.10	U	ng/L	P435719	
		Fluxapyroxad	0.25	U	ng/L	P435719	
		Fonofos	0.15	U	ng/L	P435719	
		Hexazinone	0.51	U	ng/L	P435719	
		Imazalil	0.66	UJ	ng/L	P435719	LCS
		Iprodione	0.51	U	ng/L	P435719	
		Loratadine**	0.31	UJ	ng/L	P435719	LCS
		Malathion	0.36	U	ng/L	P435719	
		Metalaxyl	0.51	UJ	ng/L	P435719	LCS
		Metolachlor	5.5		ng/L	P435719	
		Metribuzin	0.41	U	ng/L	P435719	
		Mevinphos	1.0	U	ng/L	P435719	
		Molinate	0.25	U	ng/L	P435719	
		Myclobutanil	0.36	U	ng/L	P435719	
		Naled	2.5	U	ng/L	P435719	
		Napropamide	0.71	U	ng/L	P435719	
		Norflurazon	1.0	U	ng/L	P435719	
		Oxadiazon	0.36	U	ng/L	P435719	
		Oxyfluorfen	0.20	U	ng/L	P435719	
		Parathion Ethyl	0.15	U	ng/L	P435719	
		Parathion Methyl	0.20	U	ng/L	P435719	
		Pendimethalin	0.76	U	ng/L	P435719	
		Phenytol**	5.4	U	ng/L	P435719	
		Phorate	0.25	UJ	ng/L	P435719	CCV
		Prodiamine	0.20	UJ	ng/L	P435719	MS
		Prometon	3.1	U	ng/L	P435719	
		Prometryn	0.36	U	ng/L	P435719	
		Pronamide	0.10	U	ng/L	P435719	
		Propanil	0.10	U	ng/L	P435719	
		Propargite	0.81	U	ng/L	P435719	
		Propiconazole	0.61	U	ng/L	P435719	
		Pyraflufen Ethyl	0.31	U	ng/L	P435719	
		Pyridaben	1.4	U	ng/L	P435719	
		Pyriproxyfen	0.25	U	ng/L	P435719	
		Simazine	11		ng/L	P435719	
		Stirophos	0.41	U	ng/L	P435719	
		Sulfentrazone	1.4	UJ	ng/L	P435719	MS
		Tebuconazole	1.4	U	ng/L	P435719	
		Terbufos	0.20	U	ng/L	P435719	
		Terbutylazine	0.20	U	ng/L	P435719	
		Thiobencarb	0.51	U	ng/L	P435719	
		Triadimefon	0.15	U	ng/L	P435719	

Field ID: 20010492

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: The lead result was confirmed in the undigested sample on 10/04/2023.
EPA 8270E: MS accuracy for atrazine and simazine not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P435764

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435762

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435805

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: P435805

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: P436167

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: P436170

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435867

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436151

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436308

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435988

Component	Result	Code	Units
Total-P	0.010	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435754

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

Reference Method: EPA 8270E
Batch ID: P435719

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
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	0.45	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435719

Component	Result	Code	Units
Chlorpyrifos Ethyl	0.30	U	ng/L
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
Metalaxyl	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435719

Component	Result	Code	Units
PBB-153	6.0	U	ng/L
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)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8321B

Batch ID: P435662

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: P435876

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P435876

Component	Result	Code	Units
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	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: P435930

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

Reference Method: SM 2540 C-2015

Batch ID: P436426

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P436385

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P435932

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P435840

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: P435764

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435762

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435805

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	103		P	85 - 115
Magnesium	106		P	85 - 115
Potassium	100		P	85 - 115
Sodium	103		P	85 - 115
Strontium	99.4		P	85 - 115
Tin	103		P	85 - 115
Titanium	99.1		P	85 - 115
Vanadium	99.9		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435805

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	97.2		P	85 - 115
Arsenic	104		P	85 - 115
Barium	106		P	85 - 115
Beryllium	101		P	85 - 115
Boron	105		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	100		P	85 - 115
Cobalt	102		P	85 - 115
Copper	104		P	85 - 115
Lead	102		P	85 - 115
Manganese	99.2		P	85 - 115
Molybdenum	100		P	85 - 115
Nickel	103		P	85 - 115
Selenium	103		P	85 - 115
Silver	110		P	85 - 115
Thallium	105		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436167

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436170

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435867

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436151

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436308

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435988

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435754

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	96.8		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P435719

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	114		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101		P	37 - 154
Acetochlor	71.7		P	64 - 124
Alachlor	69.2		P	61 - 118
Ametryn	76.6		P	47 - 158
Atrazine	84.0		P	68 - 121
Atrazine Desethyl	88.6		P	30 - 119
Avobenzone	102		P	48 - 193
Azinphos Methyl	98.4		P	30 - 194
Azoxystrobin	82.2		P	58 - 154
Bromacil	87.8		P	47 - 126
Butylate	54.6		P	31 - 83.0
Caffeine	102		P	10 - 180
Carbophenothion	81.3		P	59 - 133
Carfentrazone Ethyl	87.4		P	59 - 147
Chlorfenapyr	71.4		P	52 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435719

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	65.4		P	59 - 119
Chlorpyrifos Methyl	74.8		P	65 - 123
Coumaphos	111		P	11 - 223
Cyanazine	99.6		P	63 - 250
Cyprodinil	64.7		P	52 - 143
Dechlorane 602	109		P	23 - 142
Dechlorane 603	109		P	51 - 171
Dechlorane Plus	115		P	46 - 161
Demeton	44.7		P	42 - 119
Diazinon	84.0		P	67 - 132
Difenoconazole	100		P	12 - 204
Dimethenamid	81.3		P	53 - 113
Dimethomorph	88.4		P	13 - 238
Disulfoton	59.7		P	56 - 126
Dithiopyr	82.1		P	58 - 127
EPTC	55.9		P	31 - 78.0
Ethion	68.4		P	24 - 127
Ethoprop	70.2		P	60 - 118
Etridiazole	58.1		P	32 - 91.0
Fenamiphos	9.53		F	54 - 129
Fenbuconazole	78.7		P	31 - 162
Fipronil	77.2		P	56 - 131
Fipronil Desulfinyl	76.8		P	58 - 132
Fipronil Sulfide	82.9		P	51 - 123
Fipronil Sulfone	72.6		P	50 - 125
Fluazifop-P-butyl	86.0		P	52 - 132
Fludioxonil	78.6		P	52 - 129
Flumioxazin	128		P	34 - 250
Flutolanil	75.8		P	45 - 128
Fluxapyroxad	86.5		P	31 - 150
Fonofos	72.8		P	60 - 116
Hexabromobenzene	93.7		P	52 - 165
Hexazinone	74.7		P	59 - 120
Imazalil	2.78		F	39 - 134
Iprodione	91.0		P	39 - 243
Loratadine	0.548		F	10 - 240
Malathion	79.4		P	53 - 145
Metalaxyl	38.3		F	59 - 120
Metolachlor	89.3		P	64 - 122
Metribuzin	81.2		P	33 - 128
Mevinphos	64.1		P	48 - 119
Molinate	50.1		P	42 - 89.0
Myclobutanil	65.0		P	54 - 129
Naled	43.9		P	10 - 138
Napropamide	95.1		P	40 - 122
Norflurazon	99.0		P	49 - 132
Octinoxate	112		P	29 - 176
Oxadiazon	90.6		P	50 - 115
Oxybenzone	101		P	45 - 145
Oxyfluorfen	89.8		P	62 - 149
Parathion Ethyl	78.9		P	68 - 119
Parathion Methyl	75.0		P	68 - 147

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435719

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBB-153	101		P	42 - 179
PBDE-47	90.3		P	44 - 141
PBDE-99	107		P	36 - 141
Pendimethalin	60.0		P	59 - 158
Pentabromotoluene	92.2		P	58 - 148
Phenytoin	75.5		P	10 - 151
Phorate	46.5		P	44 - 124
Prodiamine	73.2		P	10 - 136
Prometon	87.5		P	45 - 131
Prometryn	66.9		P	52 - 140
Pronamide	87.3		P	70 - 129
Propanil	92.3		P	54 - 144
Propargite	89.0		P	10 - 191
Propiconazole	78.9		P	49 - 128
Pyraflufen Ethyl	88.0		P	46 - 141
Pyridaben	103		P	29 - 198
Pyriproxyfen	126		P	33 - 221
Simazine	71.8		P	62 - 119
Stirophos	79.6		P	13 - 144
Sulfentrazone	75.3		P	12 - 152
Tebuconazole	83.5		P	10 - 135
Terbufos	72.1		P	67 - 136
Terbutylazine	86.9		P	66 - 113
Tetradecachloro-m-terphenyl	113		P	30 - 235
Thiobencarb	85.4		P	51 - 125
Tri-o-cresyl Phosphate	112		P	50 - 150
Triadimefon	96.0		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	115		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	117		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	117		P	59 - 166

Reference Method: EPA 8321B

Batch ID: P435662

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	93.5		P	40 - 150
AMPA	94.9		P	40 - 150
Endothall	101		P	40 - 150
Glufosinate	120		P	40 - 150
Glyphosate	72.4		P	40 - 150
Sucralose	108		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	113		P	40 - 150
2,4,5-T	110		P	40 - 150
Acetaminophen	74.8		P	30 - 150
Acetamiprid	85.7		P	40 - 150
Afidopyropen	72.0		P	30 - 150
Bentazon	68.5		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P435876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	104		P	40 - 150
Carbamazepine	74.1		P	40 - 150
Clothianidin	89.8		P	40 - 150
Dinotefuran	93.8		P	40 - 150
Diuron	60.3		P	40 - 150
Fenuron	87.5		P	40 - 150
Fluridone	79.8		P	40 - 150
Hydrocodone	79.6		P	40 - 150
Ibuprofen	75.8		P	40 - 150
Imazapyr	75.8		P	40 - 150
Imidacloprid	93.9		P	40 - 150
Linuron	63.5		P	40 - 150
Mandestrobin	92.2		P	40 - 150
MCPP	114		P	40 - 150
Naproxen	65.1		P	40 - 150
Primidone	85.6		P	40 - 150
Pyraclostrobin	79.3		P	40 - 150
Silvex	80.3		P	40 - 150
Thiamethoxam	91.2		P	40 - 150
Tolfenpyrad	45.2		P	30 - 150
Triclopyr	102		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P435930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.7		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P436426

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	98.4		P	85 - 115

Reference Method: SM 2540 D-2015

Batch ID: P436385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	106		P	85 - 115

Reference Method: SM 4500-F- C-2011

Batch ID: P435932

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P435840

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P435805

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441459	Calcium	104		P	80 - 120
2441459	Iron	102	101	P/P	80 - 120
2441459	Magnesium	104	102	P/P	80 - 120
2441459	Potassium	101	99.4	P/P	80 - 120
2441459	Sodium	104		P	80 - 120
2441459	Strontium	99.3	99.4	P/P	80 - 120
2441459	Tin	97.4	96.1	P/P	80 - 120
2441459	Titanium	98.9	98.6	P/P	80 - 120
2441459	Vanadium	99.6	99.0	P/P	80 - 120
2441459	Zinc	98.6	97.2	P/P	80 - 120
2441588	Calcium	101		P	80 - 120
2441588	Iron	102		P	80 - 120
2441588	Magnesium	104		P	80 - 120
2441588	Potassium	99.0		P	80 - 120
2441588	Sodium	102		P	80 - 120
2441588	Strontium	97.6		P	80 - 120
2441588	Tin	103		P	80 - 120
2441588	Titanium	99.4		P	80 - 120
2441588	Vanadium	99.4		P	80 - 120
2441588	Zinc	100		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P435805

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441459	Aluminum	101	102	P/P	80 - 120
2441459	Antimony	99.4	98.5	P/P	80 - 120
2441459	Arsenic	104	105	P/P	80 - 120
2441459	Barium	104	106	P/P	80 - 120
2441459	Beryllium	97.0	99.8	P/P	80 - 120
2441459	Boron	102	102	P/P	80 - 120
2441459	Cadmium	98.6	103	P/P	80 - 120
2441459	Chromium	98.1	98.9	P/P	80 - 120
2441459	Cobalt	99.5	100	P/P	80 - 120
2441459	Copper	101	102	P/P	80 - 120
2441459	Lead	101	103	P/P	80 - 120
2441459	Manganese	97.0	98.0	P/P	80 - 120
2441459	Molybdenum	99.9	102	P/P	80 - 120
2441459	Nickel	101	102	P/P	80 - 120
2441459	Selenium	101	104	P/P	80 - 120
2441459	Silver	109	109	P/P	80 - 120
2441459	Thallium	104	107	P/P	80 - 120
2441588	Aluminum	102		P	80 - 120
2441588	Antimony	98.8		P	80 - 120
2441588	Arsenic	102		P	80 - 120
2441588	Barium	104		P	80 - 120
2441588	Beryllium	97.9		P	80 - 120
2441588	Boron	107		P	80 - 120
2441588	Cadmium	102		P	80 - 120
2441588	Chromium	101		P	80 - 120
2441588	Cobalt	101		P	80 - 120
2441588	Copper	102		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435805

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441588	Lead	101		P	80 - 120
2441588	Manganese	100		P	80 - 120
2441588	Molybdenum	99.7		P	80 - 120
2441588	Nickel	101		P	80 - 120
2441588	Selenium	98.8		P	80 - 120
2441588	Silver	110		P	80 - 120
2441588	Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436167

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441657	Chloride	105		P	90 - 110
2442001	Chloride	106		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436170

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441657	Sulfate	99.3		P	90 - 110
2442001	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435867

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441648	Ammonia-N	98.8	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441847	Kjeldahl Nitrogen	100	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436308

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441638	NO2NO3-N	97.5	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435988

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441847	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435754

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441640	O-Phosphate-P	98.9	91.8	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435719

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441755	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	64.8	57.7	P/P	50 - 150
2441755	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	85.3	83.8	P/P	29 - 155
2441755	Acetochlor	73.5	69.6	P/P	60 - 124
2441755	Alachlor	73.3	69.6	P/P	54 - 122
2441755	Ametryn	90.7	94.5	P/P	51 - 208
2441755	Atrazine Desethyl	98.1	93.3	P/P	13 - 124
2441755	Avobenzone	107	112	P/P	35 - 187
2441755	Azinphos Methyl	130	148	P/P	43 - 276
2441755	Azoxystrobin	86.4	92.4	P/P	52 - 300
2441755	Bromacil	82.5	73.5	P/P	44 - 134
2441755	Butylate	36.2	31.7	P/P	23 - 82.0
2441755	Caffeine	77.2	81.2	P/P	10 - 277
2441755	Carbophenothion	74.3	68.8	P/P	47 - 135
2441755	Carfentrazone Ethyl	80.1	72.3	P/P	46 - 147
2441755	Chlorfenapyr	59.2	61.1	P/P	43 - 114
2441755	Chlorpyrifos Ethyl	70.0	72.4	P/P	47 - 124
2441755	Chlorpyrifos Methyl	102	97.8	P/P	60 - 135
2441755	Coumaphos	120	111	P/P	10 - 222
2441755	Cyanazine	106	103	P/P	10 - 257
2441755	Cyprodinil	69.8	72.5	P/P	42 - 148
2441755	Dechlorane 602	75.9	63.4	P/P	14 - 133
2441755	Dechlorane 603	108	103	P/P	18 - 191
2441755	Dechlorane Plus	111	98.8	P/P	23 - 154
2441755	Demeton	70.5	61.6	P/P	41 - 137
2441755	Diazinon	96.8	87.5	P/P	64 - 139
2441755	Difenoconazole	117	87.5	P/P	46 - 254
2441755	Dimethenamid	79.9	70.0	P/P	47 - 117
2441755	Dimethomorph	165	166	P/P	14 - 255
2441755	Disulfoton	108	92.9	P/P	52 - 130
2441755	Dithiopyr	72.0	65.4	P/P	40 - 121
2441755	EPTC	32.8	28.5	P/P	19 - 78.0
2441755	Ethion	39.9	30.2	P/P	12 - 124
2441755	Ethoprop	81.2	80.1	P/P	68 - 144
2441755	Etridiazole	42.6	40.9	P/P	26 - 96.0
2441755	Fenamiphos	83.1	103	P/P	41 - 129
2441755	Fenbuconazole	64.0	64.2	P/P	26 - 169
2441755	Fipronil	73.1	68.6	P/P	46 - 145
2441755	Fipronil Desulfinyl	69.6	77.5	P/P	47 - 136
2441755	Fipronil Sulfide	70.8	67.9	P/P	41 - 127
2441755	Fipronil Sulfone	43.0	53.5	P/P	35 - 133
2441755	Fluazifop-P-butyl	44.6	61.0	F/P	46 - 131
2441755	Fludioxonil	63.0	69.8	P/P	51 - 124
2441755	Flumioxazin	146	134	P/P	10 - 289
2441755	Flutolanil	48.8	43.6	P/P	34 - 130
2441755	Fluxapyroxad	65.2	58.3	P/P	10 - 197
2441755	Fonofos	102	94.3	P/P	42 - 131
2441755	Hexabromobenzene	83.5	85.0	P/P	47 - 178
2441755	Hexazinone	74.5	72.3	P/P	64 - 125
2441755	Imazalil	54.0	62.1	P/P	37 - 252
2441755	Iprodione	73.3	70.0	P/P	34 - 265
2441755	Loratadine	93.2	97.0	P/P	20 - 231
2441755	Malathion	92.0	91.7	P/P	34 - 164

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435719

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441755	Metalaxyl	60.0	62.6	P/P	49 - 125
2441755	Metolachlor	98.3	75.9	P/P	54 - 125
2441755	Metribuzin	75.8	74.9	P/P	51 - 139
2441755	Mevinphos	75.7	77.7	P/P	46 - 130
2441755	Molinate	43.1	39.6	P/P	39 - 93.0
2441755	Myclobutanil	50.8	53.5	P/P	50 - 130
2441755	Naled	28.8	30.9	P/P	10 - 150
2441755	Napropamide	64.7	60.2	P/P	10 - 109
2441755	Norflurazon	73.1	70.3	P/P	36 - 134
2441755	Octinoxate	41.4	41.8	P/P	18 - 170
2441755	Oxadiazon	67.4	67.1	P/P	43 - 112
2441755	Oxybenzone	96.5	93.3	P/P	33 - 154
2441755	Oxyfluorfen	79.6	97.3	P/P	62 - 154
2441755	Parathion Ethyl	85.7	84.5	P/P	65 - 120
2441755	Parathion Methyl	99.4	96.2	P/P	77 - 185
2441755	PBB-153	94.4	95.2	P/P	23 - 193
2441755	PBDE-47	68.4	63.4	P/P	31 - 139
2441755	PBDE-99	79.0	71.7	P/P	24 - 138
2441755	Pendimethalin	69.7	73.3	P/P	50 - 146
2441755	Pentabromotoluene	84.8	85.8	P/P	54 - 152
2441755	Phenytoin	55.7	49.3	P/P	10 - 157
2441755	Phorate	84.9	72.7	P/P	54 - 161
2441755	Prodiamine	29.2	26.0	P/F	29 - 160
2441755	Prometon	79.9	78.9	P/P	38 - 145
2441755	Prometryn	68.2	70.8	P/P	32 - 151
2441755	Pronamide	89.1	85.3	P/P	61 - 140
2441755	Propanil	93.8	98.1	P/P	50 - 147
2441755	Propargite	54.8	48.1	P/P	10 - 190
2441755	Propiconazole	77.6	78.8	P/P	30 - 146
2441755	Pyraflufen Ethyl	79.2	71.3	P/P	30 - 147
2441755	Pyridaben	102	112	P/P	15 - 195
2441755	Pyriproxyfen	51.1	83.9	P/P	31 - 218
2441755	Stiropfos	52.1	43.7	P/P	10 - 134
2441755	Sulfentrazone	52.1	55.0	F/P	53 - 186
2441755	Tebuconazole	50.1	41.2	P/P	10 - 133
2441755	Terbufos	132	127	P/P	65 - 151
2441755	Terbutylazine	76.5	70.1	P/P	62 - 117
2441755	Tetradecachloro-m-terphenyl	160	150	P/P	10 - 260
2441755	Thiobencarb	67.9	66.3	P/P	48 - 122
2441755	Tri-o-cresyl Phosphate	97.9	97.3	P/P	32 - 151
2441755	Triadimefon	74.7	67.5	P/P	46 - 124
2441755	Tris(1-chloro-2-propyl) phosphate (TCPP)	107	105	P/P	51 - 154
2441755	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.7	98.2	P/P	59 - 147
2441755	Tris(2-chloroethyl) phosphate (TCEP)	98.5	96.6	P/P	65 - 156

Reference Method: EPA 8321B

Batch ID: P435662

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441047	Acesulfame K	91.3	91.7	P/P	40 - 150
2441047	AMPA	82.9	77.0	P/P	40 - 150
2441047	Endothall	176	174	F/F	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P435662

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441047	Glufosinate	88.1	81.9	P/P	40 - 150
2441047	Glyphosate	106	99.1	P/P	40 - 150
2441047	Sucralose	111	108	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441109	2,4-D	132	136	P/P	40 - 150
2441109	2,4,5-T	131	109	P/P	40 - 150
2441109	Acetaminophen	88.0	88.8	P/P	30 - 150
2441109	Acetamiprid	75.7	74.3	P/P	40 - 150
2441109	Afidopyropen	58.2	44.2	P/P	30 - 150
2441109	Bentazon	70.7	67.6	P/P	30 - 150
2441109	Benzovindiflupyr	113	102	P/P	40 - 150
2441109	Carbamazepine	69.8	72.0	P/P	40 - 150
2441109	Clothianidin	106	95.6	P/P	40 - 150
2441109	Dinotefuran	108	111	P/P	40 - 150
2441109	Diuron	42.6	61.3	P/P	40 - 150
2441109	Fenuron	73.2	73.3	P/P	40 - 150
2441109	Fluridone	68.6	63.2	P/P	40 - 150
2441109	Hydrocodone	80.0	81.1	P/P	40 - 150
2441109	Ibuprofen	63.8	53.8	P/P	40 - 150
2441109	Imazapyr	91.3	86.7	P/P	40 - 150
2441109	Imidacloprid	144	142	P/P	40 - 150
2441109	Linuron	58.9	56.9	P/P	40 - 150
2441109	Mandestrobin	79.9	81.0	P/P	40 - 150
2441109	MCCP	104	118	P/P	40 - 150
2441109	Naproxen	79.9	97.6	P/P	40 - 150
2441109	Primidone	92.5	92.0	P/P	40 - 150
2441109	Pyraclostrobin	66.6	84.4	P/P	40 - 150
2441109	Silvex	59.6	69.9	P/P	40 - 150
2441109	Thiamethoxam	109	109	P/P	40 - 150
2441109	Tolfenpyrad	39.7	49.0	P/P	30 - 150
2441109	Triclopyr	103	108	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P435932

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441657	Fluoride	101	101	P/P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P435840

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441648	Organic Carbon	96.6	97.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435764

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441656	Color (true)	2.09	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435762

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441576	Turbidity	5.64	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435805

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441459	Calcium	1.69	Spike	P	0 - 20
2441459	Iron	0.989	Spike	P	0 - 20
2441459	Magnesium	1.15	Spike	P	0 - 20
2441459	Potassium	1.19	Spike	P	0 - 20
2441459	Sodium	0.161	Spike	P	0 - 20
2441459	Strontium	0.113	Spike	P	0 - 20
2441459	Tin	1.29	Spike	P	0 - 20
2441459	Titanium	0.335	Spike	P	0 - 20
2441459	Vanadium	0.519	Spike	P	0 - 20
2441459	Zinc	1.47	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435805

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441459	Aluminum	0.465	Spike	P	0 - 20
2441459	Antimony	0.908	Spike	P	0 - 20
2441459	Arsenic	0.405	Spike	P	0 - 20
2441459	Barium	2.45	Spike	P	0 - 20
2441459	Beryllium	2.78	Spike	P	0 - 20
2441459	Boron	0.240	Spike	P	0 - 20
2441459	Cadmium	3.87	Spike	P	0 - 20
2441459	Chromium	0.851	Spike	P	0 - 20
2441459	Cobalt	0.723	Spike	P	0 - 20
2441459	Copper	0.940	Spike	P	0 - 20
2441459	Lead	1.43	Spike	P	0 - 20
2441459	Manganese	0.984	Spike	P	0 - 20
2441459	Molybdenum	1.96	Spike	P	0 - 20
2441459	Nickel	0.503	Spike	P	0 - 20
2441459	Selenium	2.76	Spike	P	0 - 20
2441459	Silver	0.340	Spike	P	0 - 20
2441459	Thallium	2.70	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436167

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441657	Chloride	2.31	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436170

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441657	Sulfate	2.90	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435867

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441648	Ammonia-N	1.29	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436151

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441847	Kjeldahl Nitrogen	1.10	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436308

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441638	NO2NO3-N	0.846	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435988

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441847	Total-P	0.217	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441640	O-Phosphate-P	4.39	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P435719

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441755	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	11.6	Spike	P	0 - 30
2441755	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	1.82	Spike	P	0 - 35

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P435719

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441755	Acetochlor	5.53	Spike	P	0 - 28
2441755	Alachlor	4.64	Spike	P	0 - 30
2441755	Ametryn	4.15	Spike	P	0 - 32
2441755	Atrazine	1.31	Spike	P	0 - 33
2441755	Atrazine Desethyl	4.99	Spike	P	0 - 36
2441755	Avobenzone	3.97	Spike	P	0 - 35
2441755	Azinphos Methyl	13.4	Spike	P	0 - 62
2441755	Azoxystrobin	6.67	Spike	P	0 - 39
2441755	Bromacil	11.4	Spike	P	0 - 33
2441755	Butylate	13.5	Spike	P	0 - 51
2441755	Caffeine	4.47	Spike	P	0 - 100
2441755	Carbophenothion	7.71	Spike	P	0 - 34
2441755	Carfentrazone Ethyl	10.2	Spike	P	0 - 33
2441755	Chlorfenapyr	3.04	Spike	P	0 - 28
2441755	Chlorpyrifos Ethyl	3.49	Spike	P	0 - 31
2441755	Chlorpyrifos Methyl	3.93	Spike	P	0 - 27
2441755	Coumaphos	7.67	Spike	P	0 - 62
2441755	Cyanazine	2.80	Spike	P	0 - 48
2441755	Cyprodinil	3.69	Spike	P	0 - 29
2441755	Dechlorane 602	17.9	Spike	P	0 - 60
2441755	Dechlorane 603	4.88	Spike	P	0 - 40
2441755	Dechlorane Plus	11.9	Spike	P	0 - 38
2441755	Demeton	11.9	Spike	P	0 - 33
2441755	Diazinon	10.1	Spike	P	0 - 32
2441755	Difenoconazole	28.6	Spike	P	0 - 71
2441755	Dimethenamid	13.1	Spike	P	0 - 60
2441755	Dimethomorph	0.372	Spike	P	0 - 61
2441755	Disulfoton	15.2	Spike	P	0 - 30
2441755	Dithiopyr	9.57	Spike	P	0 - 28
2441755	EPTC	13.8	Spike	P	0 - 56
2441755	Ethion	27.5	Spike	P	0 - 79
2441755	Ethoprop	1.28	Spike	P	0 - 31
2441755	Etridiazole	4.22	Spike	P	0 - 43
2441755	Fenamiphos	21.1	Spike	P	0 - 43
2441755	Fenbuconazole	0.224	Spike	P	0 - 79
2441755	Fipronil	6.40	Spike	P	0 - 46
2441755	Fipronil Desulfinyl	10.7	Spike	P	0 - 36
2441755	Fipronil Sulfide	4.24	Spike	P	0 - 34
2441755	Fipronil Sulfone	21.8	Spike	P	0 - 47
2441755	Fluazifop-P-butyl	31.0	Spike	P	0 - 38
2441755	Fludioxonil	10.4	Spike	P	0 - 29
2441755	Flumioxazin	7.80	Spike	P	0 - 63
2441755	Flutolanil	11.2	Spike	P	0 - 36
2441755	Fluxapyroxad	11.2	Spike	P	0 - 65
2441755	Fonofos	7.86	Spike	P	0 - 35
2441755	Hexabromobenzene	1.80	Spike	P	0 - 41
2441755	Hexazinone	3.09	Spike	P	0 - 31
2441755	Imazalil	13.9	Spike	P	0 - 52
2441755	Iprodione	4.62	Spike	P	0 - 49
2441755	Loratadine	3.99	Spike	P	0 - 59
2441755	Malathion	0.249	Spike	P	0 - 77

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P435719

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441755	Metalaxyl	4.11	Spike	P	0 - 76
2441755	Metolachlor	17.4	Spike	P	0 - 29
2441755	Metribuzin	1.13	Spike	P	0 - 51
2441755	Mevinphos	2.56	Spike	P	0 - 31
2441755	Molinate	8.26	Spike	P	0 - 39
2441755	Myclobutanil	5.12	Spike	P	0 - 34
2441755	Naled	7.21	Spike	P	0 - 37
2441755	Napropamide	7.33	Spike	P	0 - 100
2441755	Norflurazon	3.82	Spike	P	0 - 54
2441755	Octinoxate	0.456	Spike	P	0 - 35
2441755	Oxadiazon	0.479	Spike	P	0 - 34
2441755	Oxybenzone	3.30	Spike	P	0 - 35
2441755	Oxyfluorfen	20.1	Spike	P	0 - 28
2441755	Parathion Ethyl	1.39	Spike	P	0 - 31
2441755	Parathion Methyl	3.12	Spike	P	0 - 29
2441755	PBB-153	0.858	Spike	P	0 - 49
2441755	PBDE-47	7.60	Spike	P	0 - 36
2441755	PBDE-99	9.57	Spike	P	0 - 46
2441755	Pendimethalin	4.98	Spike	P	0 - 31
2441755	Pentabromotoluene	1.15	Spike	P	0 - 16
2441755	Phenytoin	12.3	Spike	P	0 - 100
2441755	Phorate	15.6	Spike	P	0 - 36
2441755	Prodiamine	11.6	Spike	P	0 - 68
2441755	Prometon	1.31	Spike	P	0 - 35
2441755	Prometryn	3.66	Spike	P	0 - 33
2441755	Pronamide	4.35	Spike	P	0 - 24
2441755	Propanil	4.45	Spike	P	0 - 28
2441755	Propargite	13.1	Spike	P	0 - 53
2441755	Propiconazole	1.46	Spike	P	0 - 44
2441755	Pyraflufen Ethyl	10.5	Spike	P	0 - 61
2441755	Pyridaben	8.79	Spike	P	0 - 43
2441755	Pyriproxyfen	48.5	Spike	P	0 - 82
2441755	Simazine	4.84	Spike	P	0 - 29
2441755	Stirophos	17.5	Spike	P	0 - 100
2441755	Sulfentrazone	5.41	Spike	P	0 - 64
2441755	Tebuconazole	19.5	Spike	P	0 - 76
2441755	Terbufos	3.95	Spike	P	0 - 29
2441755	Terbuthylazine	8.63	Spike	P	0 - 28
2441755	Tetradecachloro-m-terphenyl	6.07	Spike	P	0 - 42
2441755	Thiobencarb	2.45	Spike	P	0 - 26
2441755	Tri-o-cresyl Phosphate	0.615	Spike	P	0 - 24
2441755	Triadimefon	10.1	Spike	P	0 - 40
2441755	Tris(1-chloro-2-propyl) phosphate (TCPP)	1.38	Spike	P	0 - 30
2441755	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	0.521	Spike	P	0 - 22
2441755	Tris(2-chloroethyl) phosphate (TCEP)	1.97	Spike	P	0 - 15

Reference Method: EPA 8321B

Batch ID: P435662

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

Reference Method: EPA 8321B
Batch ID: P435662

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441047	Acesulfame K	0.408	Spike	P	0 - 30
2441047	AMPA	7.35	Spike	P	0 - 30
2441047	Endothall	1.45	Spike	P	0 - 30
2441047	Glufosinate	7.27	Spike	P	0 - 30
2441047	Glyphosate	6.36	Spike	P	0 - 30
2441047	Sucralose	2.53	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P435876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441109	2,4-D	3.14	Spike	P	0 - 30
2441109	2,4,5-T	17.7	Spike	P	0 - 30
2441109	Acetaminophen	0.884	Spike	P	0 - 30
2441109	Acetamiprid	1.97	Spike	P	0 - 30
2441109	Afidopyropen	27.2	Spike	P	0 - 30
2441109	Bentazon	2.77	Spike	P	0 - 30
2441109	Benzovindiflupyr	9.92	Spike	P	0 - 30
2441109	Carbamazepine	3.11	Spike	P	0 - 30
2441109	Clothianidin	10.1	Spike	P	0 - 30
2441109	Dinotefuran	1.67	Spike	P	0 - 30
2441109	Diuron	36.0	Spike	F	0 - 30
2441109	Fenuron	0.162	Spike	P	0 - 30
2441109	Fluridone	8.22	Spike	P	0 - 30
2441109	Hydrocodone	1.46	Spike	P	0 - 30
2441109	Ibuprofen	16.9	Spike	P	0 - 30
2441109	Imazapyr	5.18	Spike	P	0 - 30
2441109	Imidacloprid	0.920	Spike	P	0 - 30
2441109	Linuron	3.45	Spike	P	0 - 30
2441109	Mandestrobin	1.44	Spike	P	0 - 30
2441109	MCPP	12.4	Spike	P	0 - 30
2441109	Naproxen	20.0	Spike	P	0 - 30
2441109	Primidone	0.589	Spike	P	0 - 30
2441109	Pyraclostrobin	23.6	Spike	P	0 - 30
2441109	Silvex	16.0	Spike	P	0 - 30
2441109	Thiamethoxam	0.298	Spike	P	0 - 30
2441109	Tolfenpyrad	21.0	Spike	P	0 - 30
2441109	Triclopyr	4.40	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P435930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441657	Total Alkalinity	0.641	Sample	P	0 - 3.9

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P436426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441657	TDS	4.71	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P435932

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441657	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P435840

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441648	Organic Carbon	0.371	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2441729
Field Sample ID: 20010492

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	80.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	57.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	48.9	P	30 - 160
EPA 8321B	Diuron-d6	57.5	P	30 - 160
EPA 8321B	Endothall-d6	143	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	55.9	P	30 - 160
EPA 8321B	Primidone-d5	47.3	P	30 - 160
EPA 8321B	Sucralose-d6	116	P	30 - 160

Lab Sample ID: 2441755
Field Sample ID: 20010492

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	75.6	P	20 - 200
EPA 8270E	Simazine-d10	88.9	P	58 - 137
EPA 8270E	Terbufos-d10	101	P	50 - 134
EPA 8270E	Terphenyl-d14	86.2	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121824
Included Lab Sample IDs: 2441729

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	99.8	98.8	P/P	60 - 160
Sucralose	107	106	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A121854
Included Lab Sample IDs: 2441727

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.1	99.3	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A121857
Included Lab Sample IDs: 2441725

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

Reference Method: DEP SOP: NU-094-1
Run ID: A121858
Included Lab Sample IDs: 2441725

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.9	99.6	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A121860
Included Lab Sample IDs: 2441729

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	130	131	P/P	60 - 160
Endothall	104	102	P/P	60 - 160
Glufosinate	110	101	P/P	60 - 160
Glyphosate	94.6	85.3	P/P	60 - 160

Reference Method: SM 5310 B-2011
Run ID: A121896
Included Lab Sample IDs: 2441726

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	96.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A121913
Included Lab Sample IDs: 2441726

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.3	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121930

Included Lab Sample IDs: 2441730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	93.1	93.6	P/P	90 - 110
Arsenic	93.2	92.0	P/P	90 - 110
Barium	92.7	91.2	P/P	90 - 110
Boron	92.8	92.3	P/P	90 - 110
Cadmium	91.8	90.5	P/P	90 - 110
Chromium	92.0	92.9	P/P	90 - 110
Cobalt	91.6	92.0	P/P	90 - 110
Copper	92.5	91.7	P/P	90 - 110
Manganese	91.2	91.9	P/P	90 - 110
Nickel	92.8	93.0	P/P	90 - 110
Selenium	92.5	90.0	P/P	90 - 110
Thallium	92.1	90.6	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121941

Included Lab Sample IDs: 2441725

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.8	95.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121941

Included Lab Sample IDs: 2441725

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121948

Included Lab Sample IDs: 2441725

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.9	99.5	P/P	90 - 110
Sulfate	102	101	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A121961

Included Lab Sample IDs: 2441730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	102	P/P	90 - 110
Iron	100	99.1	P/P	90 - 110
Magnesium	100	99.8	P/P	90 - 110
Potassium	99.3	99.2	P/P	90 - 110
Sodium	103	103	P/P	90 - 110
Strontium	99.6	97.3	P/P	90 - 110
Tin	101	101	P/P	90 - 110
Titanium	99.5	99.5	P/P	90 - 110
Vanadium	100	100	P/P	90 - 110
Zinc	102	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121963

Included Lab Sample IDs: 2441730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	95.4	96.5	P/P	90 - 110
Beryllium	97.1	97.0	P/P	90 - 110
Lead	94.9	96.3	P/P	90 - 110
Molybdenum	99.4	101	P/P	90 - 110
Silver	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122004

Included Lab Sample IDs: 2441726

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

Reference Method: EPA 8321B

Run ID: A122005

Included Lab Sample IDs: 2441729

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	84.7	115	P/P	50 - 150
2,4,5-T	93.9	104	P/P	50 - 150
Acetaminophen	111	111	P/P	60 - 160
Acetamiprid	112	110	P/P	50 - 150
Afidopyropen	106	102	P/P	50 - 150
Bentazon	85.6	99.1	P/P	50 - 160
Benzovindiflupyr	130	107	P/P	50 - 150
Carbamazepine	111	113	P/P	60 - 150
Clothianidin	119	119	P/P	60 - 150
Dinotefuran	115	110	P/P	50 - 150
Diuron	98.5	138	P/P	60 - 160
Fenuron	110	110	P/P	60 - 150
Fluridone	101	106	P/P	60 - 160
Hydrocodone	120	118	P/P	60 - 150
Ibuprofen	87.5	72.6	P/P	50 - 160
Imazapyr	95.1	98.2	P/P	50 - 150
Imidacloprid	109	104	P/P	60 - 150
Linuron	98.4	90.7	P/P	60 - 150
Mandestrobin	118	108	P/P	50 - 150
MCPP	92.5	87.5	P/P	50 - 150
Naproxen	77.2	72.4	P/P	50 - 160
Primidone	116	120	P/P	60 - 150
Pyraclostrobin	110	109	P/P	60 - 150
Silvex	89.0	90.7	P/P	50 - 150
Thiamethoxam	122	116	P/P	50 - 150
Tolfenpyrad	84.9	87.4	P/P	60 - 150
Triclopyr	83.0	88.5	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122047

Included Lab Sample IDs: 2441726

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122047

Included Lab Sample IDs: 2441726

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.4	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122065

Included Lab Sample IDs: 2441726

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

Reference Method: EPA 8270E

Run ID: A122073

Included Lab Sample IDs: 2441755

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.0		P	80 - 120
Alachlor	82.6		P	80 - 120
Ametryn	102		P	80 - 120
Atrazine	97.2		P	80 - 120
Atrazine Desethyl	109		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Azoxystrobin	103		P	80 - 120
Bromacil	93.3		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	109		P	80 - 120
Carbophenothion	95.1		P	80 - 120
Carfentrazone Ethyl	90.6		P	80 - 120
Chlorfenapyr	82.0		P	80 - 120
Chlorpyrifos Ethyl	85.8		P	80 - 120
Chlorpyrifos Methyl	105		P	80 - 120
Coumaphos	95.7		P	80 - 120
Cyanazine	99.9		P	80 - 120
Cyprodinil	108		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	85.9		P	80 - 120
Dimethenamid	97.8		P	80 - 120
Dimethomorph	92.8		P	80 - 120
Disulfoton	106		P	80 - 120
Dithiopyr	99.0		P	80 - 120
EPTC	101		P	80 - 120
Ethion	81.6		P	80 - 120
Ethoprop	94.5		P	80 - 120
Etridiazole	103		P	80 - 120
Fenamiphos	84.8		P	80 - 120
Fenbuconazole	93.7		P	80 - 120
Fipronil	86.5		P	80 - 120
Fipronil Desulfinyl	94.5		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	93.1		P	80 - 120
Fluazifop-P-butyl	85.5		P	80 - 120
Fludioxonil	89.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A122073
 Included Lab Sample IDs: 2441755

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Flumioxazin	90.0		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	94.9		P	80 - 120
Fonofos	93.0		P	80 - 120
Hexazinone	99.3		P	80 - 120
Imazalil	100		P	80 - 120
Iprodione	82.1		P	80 - 120
Loratadine	80.3		P	80 - 120
Malathion	88.1		P	80 - 120
Metalaxyl	86.1		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	97.8		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	88.6		P	80 - 120
Myclobutanil	88.5		P	80 - 120
Naled	103		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	95.5		P	80 - 120
Oxadiazon	99.8		P	80 - 120
Oxyfluorfen	92.3		P	80 - 120
Parathion Ethyl	96.7		P	80 - 120
Parathion Methyl	91.5		P	80 - 120
Pendimethalin	97.3		P	80 - 120
Phenytoin	95.4		P	80 - 120
Phorate	78.3*		F	80 - 120
Prodiamine	95.5		P	80 - 120
Prometon	93.6		P	80 - 120
Prometryn	96.2		P	80 - 120
Pronamide	97.0		P	80 - 120
Propanil	95.2		P	80 - 120
Propargite	98.0		P	80 - 120
Propiconazole	91.1		P	80 - 120
Pyraflufen Ethyl	91.4		P	80 - 120
Pyridaben	97.7		P	80 - 120
Pyriproxyfen	115		P	80 - 120
Simazine	83.3		P	80 - 120
Stirophos	80.8		P	80 - 120
Sulfentrazone	103		P	80 - 120
Tebuconazole	98.8		P	80 - 120
Terbufos	99.1		P	80 - 120
Terbutylazine	96.3		P	80 - 120
Thiobencarb	98.8		P	80 - 120
Triadimefon	100		P	80 - 120

Reference Method: EPA 8270E
 Run ID: A122086
 Included Lab Sample IDs: 2441755

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	103		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122086
Included Lab Sample IDs: 2441755

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzene	90.7		P	80 - 120
Dechlorane 602	98.1		P	80 - 120
Dechlorane 603	95.3		P	80 - 120
Dechlorane Plus	93.2		P	80 - 120
Hexabromobenzene	93.9		P	80 - 120
Octinoxate	91.3		P	80 - 120
Oxybenzone	99.8		P	80 - 120
PBB-153	92.3		P	80 - 120
PBDE-47	96.6		P	80 - 120
PBDE-99	95.9		P	80 - 120
Pentabromotoluene	99.7		P	80 - 120
Tetradecachloro-m-terphenyl	95.5		P	80 - 120
Tri-o-cresyl Phosphate	97.4		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	92.7		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.9		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	96.2		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	100					2.09	
EPA 180.1 Rev. 2.0	Turbidity	104					5.64	
EPA 200.7 Rev. 4.4	Calcium	104	104	101				1.69
	Iron	103	102	101	102			0.989
	Magnesium	106	104	102	104			1.15
	Potassium	100	101	99.4	99.0			1.19
	Sodium	103	104	102				0.161
	Strontium	99.4	99.3	99.4	97.6			0.113
	Tin	103	97.4	96.1	103			1.29
	Titanium	99.1	98.9	98.6	99.4			0.335
	Vanadium	99.9	99.6	99.0	99.4			0.519
	Zinc	101	98.6	97.2	100			1.47
EPA 200.8 Rev. 5.4	Aluminum	102	101	102	102			0.465
	Antimony	97.2	99.4	98.5	98.8			0.908
	Arsenic	104	104	105	102			0.405
	Barium	106	104	106	104			2.45
	Beryllium	101	97.0	99.8	97.9			2.78
	Boron	105	102	102	107			0.240
	Cadmium	101	98.6	103	102			3.87
	Chromium	100	98.1	98.9	101			0.851
	Cobalt	102	99.5	100	101			0.723
	Copper	104	101	102	102			0.940
	Lead	102	101	103	101			1.43
	Manganese	99.2	97.0	98.0	100			0.984
	Molybdenum	100	99.9	102	99.7			1.96
	Nickel	103	101	102	101			0.503
	Selenium	103	101	104	98.8			2.76
	Silver	110	109	109	110			0.340
	Thallium	105	104	107	104			2.70
EPA 300.0 Rev. 2.1	Chloride	102	105	106			2.31	
	Sulfate	104	99.3	104			2.90	
EPA 350.1 Rev. 2.0	Ammonia-N	102	98.8	100				1.29
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	100	102				1.10
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	97.5	99.5				0.846
EPA 365.1 Rev. 2.0	Total-P	102	103	103				0.217
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.8	98.9	91.8				4.39
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	114	64.8	57.7				11.6
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101	85.3	83.8				1.82
	Acetochlor	71.7	73.5	69.6				5.53
	Alachlor	69.2	73.3	69.6				4.64
	Ametryn	76.6	90.7	94.5				4.15
	Atrazine	84.0						1.31
	Atrazine Desethyl	88.6	98.1	93.3				4.99
	Avobenzone	102	107	112				3.97
	Azinphos Methyl	98.4	130	148				13.4
	Azoxystrobin	82.2	86.4	92.4				6.67
	Bromacil	87.8	82.5	73.5				11.4
	Butylate	54.6	36.2	31.7				13.5
	Caffeine	102	77.2	81.2				4.47
	Carbophenothion	81.3	74.3	68.8				7.71
	Carfentrazone Ethyl	87.4	80.1	72.3				10.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorfenapyr	71.4	59.2	61.1		3.04
	Chlorpyrifos Ethyl	65.4	70.0	72.4		3.49
	Chlorpyrifos Methyl	74.8	102	97.8		3.93
	Coumaphos	111	120	111		7.67
	Cyanazine	99.6	106	103		2.80
	Cyprodinil	64.7	69.8	72.5		3.69
	Dechlorane 602	109	75.9	63.4		17.9
	Dechlorane 603	109	108	103		4.88
	Dechlorane Plus	115	111	98.8		11.9
	Demeton	44.7	70.5	61.6		11.9
	Diazinon	84.0	96.8	87.5		10.1
	Difenoconazole	100	117	87.5		28.6
	Dimethenamid	81.3	79.9	70.0		13.1
	Dimethomorph	88.4	165	166		0.372
	Disulfoton	59.7	108	92.9		15.2
	Dithiopyr	82.1	72.0	65.4		9.57
	EPTC	55.9	32.8	28.5		13.8
	Ethion	68.4	39.9	30.2		27.5
	Ethoprop	70.2	81.2	80.1		1.28
	Etridiazole	58.1	42.6	40.9		4.22
	Fenamiphos	9.53	83.1	103		21.1
	Fenbuconazole	78.7	64.0	64.2		0.224
	Fipronil	77.2	73.1	68.6		6.40
	Fipronil Desulfinyl	76.8	69.6	77.5		10.7
	Fipronil Sulfide	82.9	70.8	67.9		4.24
	Fipronil Sulfone	72.6	43.0	53.5		21.8
	Fluazifop-P-butyl	86.0	44.6	61.0		31.0
	Fludioxonil	78.6	63.0	69.8		10.4
	Flumioxazin	128	146	134		7.80
	Flutolanil	75.8	48.8	43.6		11.2
	Fluxapyroxad	86.5	65.2	58.3		11.2
	Fonofos	72.8	102	94.3		7.86
	Hexabromobenzene	93.7	83.5	85.0		1.80
	Hexazinone	74.7	74.5	72.3		3.09
	Imazalil	2.78	54.0	62.1		13.9
	Iprodione	91.0	73.3	70.0		4.62
	Loratadine	0.548	93.2	97.0		3.99
	Malathion	79.4	92.0	91.7		0.249
	Metalaxyl	38.3	60.0	62.6		4.11
	Metolachlor	89.3	98.3	75.9		17.4
	Metribuzin	81.2	75.8	74.9		1.13
	Mevinphos	64.1	75.7	77.7		2.56
	Molinate	50.1	43.1	39.6		8.26
	Myclobutanil	65.0	50.8	53.5		5.12
	Naled	43.9	28.8	30.9		7.21
	Napropamide	95.1	64.7	60.2		7.33
	Norflurazon	99.0	73.1	70.3		3.82
	Octinoxate	112	41.4	41.8		0.456
	Oxadiazon	90.6	67.4	67.1		0.479
	Oxybenzone	101	96.5	93.3		3.30
	Oxyfluorfen	89.8	79.6	97.3		20.1
	Parathion Ethyl	78.9	85.7	84.5		1.39
	Parathion Methyl	75.0	99.4	96.2		3.12
	PBB-153	101	94.4	95.2		0.858

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	PBDE-47	90.3	68.4	63.4		7.60
	PBDE-99	107	79.0	71.7		9.57
	Pendimethalin	60.0	69.7	73.3		4.98
	Pentabromotoluene	92.2	84.8	85.8		1.15
	Phenytoin	75.5	55.7	49.3		12.3
	Phorate	46.5	84.9	72.7		15.6
	Prodiamine	73.2	29.2	26.0		11.6
	Prometon	87.5	79.9	78.9		1.31
	Prometryn	66.9	68.2	70.8		3.66
	Pronamide	87.3	89.1	85.3		4.35
	Propanil	92.3	93.8	98.1		4.45
	Propargite	89.0	54.8	48.1		13.1
	Propiconazole	78.9	77.6	78.8		1.46
	Pyraflufen Ethyl	88.0	79.2	71.3		10.5
	Pyridaben	103	102	112		8.79
	Pyriproxyfen	126	51.1	83.9		48.5
	Simazine	71.8				4.84
	Stirophos	79.6	52.1	43.7		17.5
	Sulfentrazone	75.3	52.1	55.0		5.41
	Tebuconazole	83.5	50.1	41.2		19.5
	Terbufos	72.1	132	127		3.95
	Terbutylazine	86.9	76.5	70.1		8.63
	Tetradecachloro-m-terphenyl	113	160	150		6.07
	Thiobencarb	85.4	67.9	66.3		2.45
	Tri-o-cresyl Phosphate	112	97.9	97.3		0.615
	Triadimefon	96.0	74.7	67.5		10.1
	Tris(1-chloro-2-propyl) phosphate (TCPP)	115	107	105		1.38
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	117	98.7	98.2		0.521
	Tris(2-chloroethyl) phosphate (TCEP)	117	98.5	96.6		1.97
EPA 8321B	2,4-D	113	132	136		3.14
	2,4,5-T	110	131	109		17.7
	Acesulfame K	93.5	91.3	91.7		0.408
	Acetaminophen	74.8	88.0	88.8		0.884
	Acetamiprid	85.7	75.7	74.3		1.97
	Afidopyropen	72.0	58.2	44.2		27.2
	AMPA	94.9	82.9	77.0		7.35
	Bentazon	68.5	70.7	67.6		2.77
	Benzovindiflupyr	104	113	102		9.92
	Carbamazepine	74.1	69.8	72.0		3.11
	Clothianidin	89.8	106	95.6		10.1
	Dinotefuran	93.8	108	111		1.67
	Diuron	60.3	42.6	61.3		36.0
	Endothall	101	176	174		1.45
	Fenuron	87.5	73.2	73.3		0.162
	Fluridone	79.8	68.6	63.2		8.22
	Glufosinate	120	88.1	81.9		7.27
	Glyphosate	72.4	106	99.1		6.36
	Hydrocodone	79.6	80.0	81.1		1.46
	Ibuprofen	75.8	63.8	53.8		16.9
	Imazapyr	75.8	91.3	86.7		5.18
	Imidacloprid	93.9	144	142		0.920

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Linuron	63.5	58.9	56.9			3.45
	Mandestrobin	92.2	79.9	81.0			1.44
	MCP	114	104	118			12.4
	Naproxen	65.1	79.9	97.6			20.0
	Primidone	85.6	92.5	92.0			0.589
	Pyraclostrobin	79.3	66.6	84.4			23.6
	Silvex	80.3	59.6	69.9			16.0
	Sucralose	108	111	108			2.53
	Thiamethoxam	91.2	109	109			0.298
	Tolfenpyrad	45.2	39.7	49.0			21.0
	Triclopyr	102	103	108			4.40
SM 2320 B-2011	Total Alkalinity	96.7				0.641	
SM 2540 C-2015	TDS	98.4				4.71	
SM 2540 D-2015	TSS	106					
SM 4500-F- C-2011	Fluoride	101	101	101			0.0
SM 5310 B-2011	Organic Carbon	96.5	96.6	97.2			0.371

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2441725
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2441725
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2441730
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2441730
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2441725
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2441725
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2441726
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2441726
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2441726
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2441726
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2441727
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2441755
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2441755
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2441729
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2441725
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2441730
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2441725
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2441725
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2441725
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2441726

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	09/29/2023			09/29/2023 15:58	Alexis Price	2441725
EPA 180.1 Rev. 2.0	09/29/2023			09/29/2023 14:17	Samantha L Bates	2441725
EPA 200.7 Rev. 4.4	09/29/2023	10/02/2023 12:30	George D Taylor	10/04/2023 15:08	Samatha Luckman	2441730
EPA 200.8 Rev. 5.4	09/29/2023	10/02/2023 12:30	George D Taylor	10/03/2023 19:22	Conrad Hartmann	2441730
	09/29/2023	10/02/2023 12:30	George D Taylor	10/04/2023 18:29	Emily M Philpot	2441730
EPA 300.0 Rev. 2.1	09/29/2023			10/06/2023 00:53	James L Waggeberby	2441725
EPA 350.1 Rev. 2.0	09/29/2023			10/03/2023 11:53	Khloe J Berg	2441726
EPA 351.2 Rev. 2.0	09/29/2023	10/09/2023 12:23	Simonne.V. Calhoun	10/10/2023 11:52	Samantha L Bates	2441726
EPA 353.2 Rev. 2.0	09/29/2023			10/10/2023 14:18	Fadila Guebre	2441726
EPA 365.1 Rev. 2.0	09/29/2023	10/05/2023 13:10	Alexis Price	10/06/2023 12:05	Simonne.V. Calhoun	2441726
EPA 365.1 Rev. 2.0 dissolved	09/29/2023			09/29/2023 14:25	Adam P Silver	2441727
EPA 8270E	09/29/2023	10/01/2023 08:30	Rasheda Ghaffari	10/06/2023 16:17	Vandana T. Nagar	2441755
	09/29/2023	10/01/2023 08:30	Rasheda Ghaffari	10/06/2023 18:54	Lipi Saha	2441755
EPA 8321B	09/29/2023	09/29/2023 13:00	Hana Lee	09/29/2023 17:44	Tae K Lee	2441729
	09/29/2023	09/29/2023 13:00	Hana Lee	09/30/2023 18:07	Tae K Lee	2441729
	09/29/2023	10/04/2023 11:00	Hoor Shaik	10/06/2023 06:56	Juyoung Kim	2441729
SM 2320 B-2011	09/29/2023			10/04/2023 02:20	Dale L. Simmons	2441725
SM 2340 B-2011	09/29/2023			10/04/2023 15:08	Samatha Luckman	2441730
SM 2540 C-2015	09/29/2023			10/04/2023 15:07	Yijie Li	2441725
SM 2540 D-2015	09/29/2023			10/04/2023 15:07	Yijie Li	2441725
SM 4500-F- C-2011	09/29/2023			10/04/2023 02:20	Dale L. Simmons	2441725
SM 5310 B-2011	09/29/2023			10/03/2023 06:27	Elise M. Gillis	2441726