

Chemical Analysis Report

CEN-DIST-2023-09-27-01

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

Event Description: **Ref Lake LVI**
Request ID: **RQ-2023-09-25-18**
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
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 23-OCT-2023 12:13



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: Brick Lake - Center of Lake

Collection Date/Time: 09/26/2023 12:13

Field ID: 26010040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440597	DEP SOP: NU-094-1	Color (true)	290		PCU	P435606	
	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P435618	
	EPA 300.0 Rev. 2.1	Chloride	29		mg Cl/L	P436046	
		Sulfate	7.0		mg SO4/L	P436049	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P435768	
	SM 2540 C-2015	TDS	106		mg/L	P436283	
	SM 2540 D-2015	TSS	2	U	mg/L	P436015	
2440598	SM 4500-F- C-2011	Fluoride	0.046	I	mg F/L	P435770	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P435751	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.94		mg N/L	P435775	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.019		mg N/L	P436261	
	EPA 365.1 Rev. 2.0	Total-P	0.021		mg P/L	P435710	
2440599	SM 5310 B-2011	Organic Carbon	23		mg C/L	P435847	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P435598	
2440603	EPA 8321B	2,4-D	0.0020	U	ug/L	P435567	
		Acesulfame K	0.10	U	ug/L	P435496	
		2,4,5-T	0.0040	U	ug/L	P435567	
		AMPA	0.10	U	ug/L	P435496	
		Acetaminophen	0.0080	U	ug/L	P435567	
		Acetamiprid	0.0020	U	ug/L	P435567	
		Endothall	0.25	U	ug/L	P435496	MS
		Glufosinate	0.10	U	ug/L	P435496	
		Glyphosate	0.10	U	ug/L	P435496	
		Afidopyrophen	0.0020	U	ug/L	P435567	
		Bentazon	8.0E-04	U	ug/L	P435567	
		Sucralose	0.035	I	ug/L	P435496	
		Benzovindiflupyr	0.0020	U	ug/L	P435567	
		Carbamazepine	8.0E-04	U	ug/L	P435567	
		Clothianidin	0.0020	U	ug/L	P435567	
		Dinotefuran	0.0020	U	ug/L	P435567	
		Diuron	0.0020	U	ug/L	P435567	
		Fenuron	0.032	U	ug/L	P435567	
		Fluridone	8.0E-04	U	ug/L	P435567	MS
		Imazapyr	0.0054	I	ug/L	P435567	
		Hydrocodone	0.0020	U	ug/L	P435567	
		Ibuprofen	0.080	U	ug/L	P435567	
		Imidacloprid	0.0046	I	ug/L	P435567	
		Linuron	0.0040	U	ug/L	P435567	
		Mandestrobin	0.0020	U	ug/L	P435567	
		MCPP	0.0020	U	ug/L	P435567	
		Naproxen	0.0080	U	ug/L	P435567	
		Primidone	0.0040	U	ug/L	P435567	
		Pyraclostrobin	0.0020	U	ug/L	P435567	

Field ID: 26010040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440603	EPA 8321B	Silvex	0.0040	U	ug/L	P435567	
		Thiamethoxam	0.0020	U	ug/L	P435567	
		Tolfenpyrad	0.0020	U	ug/L	P435567	
		Triclopyr	0.0040	U	ug/L	P435567	
2440605	EPA 200.7 Rev. 4.4	Calcium	3.63		mg/L	P435682	
		Iron	560		ug/L	P435682	
		Magnesium	2.82		mg/L	P435682	
		Potassium	3.6		mg/L	P435682	
		Sodium	14.1		mg/L	P435682	
		Strontium	27.3		ug/L	P435682	
		Tin	3.0	U	ug/L	P435682	
		Titanium	1.2	I	ug/L	P435682	
		Vanadium	2.0	U	ug/L	P435682	
		Zinc	5.0	U	ug/L	P435682	
	EPA 200.8 Rev. 5.4	Aluminum	256		ug/L	P435682	
		Antimony	0.050	U	ug/L	P435682	
		Arsenic	0.33		ug/L	P435682	
		Barium	10.1		ug/L	P435682	
		Beryllium	0.021	I	ug/L	P435682	
		Boron	32.9		ug/L	P435682	
		Cadmium	0.020	U	ug/L	P435682	
		Chromium	0.40	U	ug/L	P435682	
		Cobalt	0.133		ug/L	P435682	
		Copper	0.40	U	ug/L	P435682	
		Lead	0.35	I	ug/L	P435682	
		Manganese	10.7		ug/L	P435682	
		Molybdenum	0.15	U	ug/L	P435682	
		Nickel	0.50	U	ug/L	P435682	
		Selenium	0.20	U	ug/L	P435682	
		Silver	0.010	U	ug/L	P435682	
		Thallium	0.10	U	ug/L	P435682	
		Hardness	20.7		mg/L	P435682	
2440611	SM 2340 B-2011	Oxybenzone**	10	U	ng/L	P435493	
	EPA 8270E	Acetochlor	0.20	U	ng/L	P435493	
		Octinoxate**	150	U	ng/L	P435493	
		Alachlor	0.41	U	ng/L	P435493	
		Avobenzone**	100	U	ng/L	P435493	
		Ametryn	1.1	U	ng/L	P435493	
		Atrazine	1.8		ng/L	P435493	
		PBDE-47**	4.1	U	ng/L	P435493	
		Atrazine Desethyl	1.3	U	ng/L	P435493	
		PBDE-99**	5.1	U	ng/L	P435493	
		Azinphos Methyl	3.1	U	ng/L	P435493	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P435493	
		Azoxystrobin	0.53	I	ng/L	P435493	

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Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440611	EPA 8270E	Bromacil	52		ng/L	P435493	
		2-Ethylhexyl	12	U	ng/L	P435493	MS
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.46	U	ng/L	P435493	
		Dechlorane Plus**	31	U	ng/L	P435493	
		Caffeine**	22	I	ng/L	P435493	
		Dechlorane 602**	5.1	U	ng/L	P435493	MS
		Carbophenothion	0.51	U	ng/L	P435493	
		Dechlorane 603**	4.1	U	ng/L	P435493	
		Carfentrazone Ethyl	0.15	U	ng/L	P435493	
		Hexabromobenzene**	6.1	U	ng/L	P435493	
		Chlorfenapyr	0.31	U	ng/L	P435493	
		PBB-153**	8.2	U	ng/L	P435493	MS
		Chlorpyrifos Ethyl	0.31	U	ng/L	P435493	
		Pentabromotoluene**	3.1	U	ng/L	P435493	
		Chlorpyrifos Methyl	0.10	U	ng/L	P435493	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P435493	
		Coumaphos	1.1	U	ng/L	P435493	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P435493	
		Cyanazine	5.1	U	ng/L	P435493	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P435493	
		Cyprodinil	0.20	U	ng/L	P435493	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P435493	
		Demeton	3.6	U	ng/L	P435493	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	61	U	ng/L	P435493	
		Diazinon	0.13	U	ng/L	P435493	
		Difenoconazole	0.61	U	ng/L	P435493	
		Dimethenamid	0.10	U	ng/L	P435493	
		Dimethomorph	0.31	U	ng/L	P435493	MS
		Disulfoton	0.61	U	ng/L	P435493	
		Dithiopyr	1.0	U	ng/L	P435493	
		EPTC	0.51	U	ng/L	P435493	RPD
		Ethion	0.31	U	ng/L	P435493	
		Ethoprop	0.13	U	ng/L	P435493	
		Etridiazole	0.10	U	ng/L	P435493	
		Fenamiphos	0.46	U	ng/L	P435493	
		Fenbuconazole	0.51	U	ng/L	P435493	
		Fipronil	0.20	U	ng/L	P435493	
		Fipronil Desulfinyl**	0.10	U	ng/L	P435493	
		Fipronil Sulfide	0.10	U	ng/L	P435493	
		Fipronil Sulfone	0.10	U	ng/L	P435493	
		Fluazifop-P-butyl	0.10	U	ng/L	P435493	
		Fludioxonil	0.10	U	ng/L	P435493	
		Flumioxazin	3.1	U	ng/L	P435493	

Field ID: 26010040

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2440611	EPA 8270E	Flutolanil	0.46	I	ng/L	P435493	
		Fluxapyroxad	0.26	U	ng/L	P435493	
		Fonofos	0.15	U	ng/L	P435493	
		Hexazinone	0.51	U	ng/L	P435493	
		Imazalil	0.66	U	ng/L	P435493	
		Iprodione	0.51	UJ	ng/L	P435493	CCV
		Loratadine**	0.31	U	ng/L	P435493	
		Malathion	0.36	U	ng/L	P435493	
		Metalaxyl	0.57	I	ng/L	P435493	
		Metolachlor	1.4	I	ng/L	P435493	
		Metribuzin	0.41	UJ	ng/L	P435493	LCS
		Mevinphos	1.0	U	ng/L	P435493	
		Molinate	0.26	U	ng/L	P435493	
		Myclobutanil	0.36	U	ng/L	P435493	
		Naled	2.6	U	ng/L	P435493	
		Napropamide	0.72	U	ng/L	P435493	
		Norflurazon	1.3	I	ng/L	P435493	
		Oxadiazon	0.36	U	ng/L	P435493	
		Oxyfluorfen	0.20	U	ng/L	P435493	
		Parathion Ethyl	0.15	U	ng/L	P435493	
		Parathion Methyl	0.20	U	ng/L	P435493	
		Pendimethalin	0.77	U	ng/L	P435493	
		Phenytain**	5.4	U	ng/L	P435493	
		Phorate	0.26	U	ng/L	P435493	
		Prodiamine	0.20	U	ng/L	P435493	
		Prometon	3.1	U	ng/L	P435493	
		Prometryn	0.36	U	ng/L	P435493	
		Pronamide	0.10	U	ng/L	P435493	
		Propanil	0.10	U	ng/L	P435493	
		Propargite	0.82	U	ng/L	P435493	
		Propiconazole	0.61	U	ng/L	P435493	
		Pyraflufen Ethyl	0.31	U	ng/L	P435493	
		Pyridaben	1.4	U	ng/L	P435493	
		Pyriproxyfen	0.26	UJ	ng/L	P435493	CCV
		Simazine	0.26	U	ng/L	P435493	
		Stirophos	0.41	U	ng/L	P435493	
		Sulfentrazone	1.4	U	ng/L	P435493	
		Tebuconazole	1.4	U	ng/L	P435493	
		Terbufos	0.20	U	ng/L	P435493	
		Terbutylazine	0.20	U	ng/L	P435493	
		Thiobencarb	0.51	U	ng/L	P435493	
		Triadimefon	0.15	U	ng/L	P435493	

Field ID: 26010040

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 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P435606

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435618

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435682

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: P435682

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	0.12	I	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.012	I	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436046

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: P436049

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435751

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435775

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436261

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435710

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435598

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

Reference Method: EPA 8270E
Batch ID: P435493

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	0.20	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435493

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: P435493

Component	Result	Code	Units
PBB-153	8.0	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)	15	U	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: P435496

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: P435567

Component	Result	Code	Units
2,4-D	0.020		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: P435567

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: P435768

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

Reference Method: SM 2540 C-2015

Batch ID: P436283

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P436015

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P435770

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P435847

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: P435606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.8		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435618

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435682

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	103		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	101		P	85 - 115
Sodium	100		P	85 - 115
Strontium	99.6		P	85 - 115
Tin	106		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	104		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435682

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.9		P	85 - 115
Antimony	94.0		P	85 - 115
Arsenic	98.7		P	85 - 115
Barium	98.3		P	85 - 115
Beryllium	95.3		P	85 - 115
Boron	102		P	85 - 115
Cadmium	96.3		P	85 - 115
Chromium	94.2		P	85 - 115
Cobalt	98.4		P	85 - 115
Copper	96.4		P	85 - 115
Lead	90.8		P	85 - 115
Manganese	94.1		P	85 - 115
Molybdenum	96.2		P	85 - 115
Nickel	97.9		P	85 - 115
Selenium	95.6		P	85 - 115
Silver	107		P	85 - 115
Thallium	99.0		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436046

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436049

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	107		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435751

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: P435775

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.2		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436261

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435710

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435598

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

Reference Method: EPA 8270E
Batch ID: P435493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	63.8		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.6		P	42 - 162
Acetochlor	89.0		P	69 - 123
Alachlor	73.8		P	65 - 118
Ametryn	124		P	58 - 141
Atrazine	86.0		P	73 - 118
Atrazine Desethyl	81.7		P	32 - 125
Avobenzone	101		P	40 - 203
Azinphos Methyl	95.0		P	36 - 197
Azoxystrobin	94.1		P	58 - 226
Bromacil	92.9		P	48 - 120
Butylate	59.5		P	27 - 85.0
Caffeine	96.9		P	40 - 137
Carbophenothion	93.6		P	54 - 132
Carfentrazone Ethyl	103		P	60 - 142
Chlorfenapyr	55.8		P	53 - 117

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	99.4		P	59 - 116
Chlorpyrifos Methyl	91.4		P	66 - 119
Coumaphos	83.6		P	11 - 234
Cyanazine	145		P	61 - 248
Cyprodinil	87.6		P	50 - 147
Dechlorane 602	68.4		P	50 - 150
Dechlorane 603	110		P	50 - 150
Dechlorane Plus	109		P	47 - 182
Demeton	69.5		P	30 - 138
Diazinon	108		P	67 - 126
Difenoconazole	63.0		P	38 - 205
Dimethenamid	76.2		P	57 - 111
Dimethomorph	183		P	16 - 212
Disulfoton	96.2		P	46 - 126
Dithiopyr	107		P	62 - 115
EPTC	63.0		P	28 - 80.0
Ethion	39.1		P	24 - 122
Ethoprop	83.8		P	62 - 113
Etridiazole	64.1		P	28 - 92.0
Fenamiphos	74.1		P	57 - 128
Fenbuconazole	58.2		P	52 - 155
Fipronil	92.9		P	63 - 130
Fipronil Desulfinyl	96.2		P	61 - 130
Fipronil Sulfide	79.0		P	56 - 117
Fipronil Sulfone	67.1		P	52 - 118
Fluazifop-P-butyl	68.3		P	61 - 128
Fludioxonil	62.9		P	59 - 129
Flumioxazin	96.8		P	30 - 250
Flutolanil	66.0		P	53 - 127
Fluxapyroxad	73.2		P	42 - 132
Fonofos	89.8		P	61 - 110
Hexabromobenzene	99.8		P	50 - 150
Hexazinone	81.8		P	46 - 139
Imazalil	89.0		P	40 - 139
Iprodione	54.0		P	40 - 146
Loratadine	124		P	10 - 224
Malathion	104		P	61 - 135
Metalaxyl	88.0		P	58 - 121
Metolachlor	99.1		P	64 - 118
Metribuzin	41.7		F	45 - 245
Mevinphos	72.7		P	49 - 118
Molinate	58.8		P	42 - 92.0
Myclobutanil	67.1		P	55 - 127
Naled	43.0		P	10 - 114
Napropamide	81.2		P	39 - 121
Norflurazon	76.5		P	55 - 129
Octinoxate	102		P	26 - 166
Oxadiazon	72.4		P	54 - 115
Oxybenzone	107		P	49 - 135
Oxyfluorfen	77.5		P	64 - 139
Parathion Ethyl	89.6		P	70 - 111
Parathion Methyl	99.1		P	76 - 136

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBB-153	106		P	50 - 150
PBDE-47	89.0		P	41 - 148
PBDE-99	76.5		P	38 - 147
Pendimethalin	74.2		P	52 - 118
Pentabromotoluene	96.5		P	50 - 150
Phenytoin	28.0		P	10 - 162
Phorate	97.4		P	40 - 122
Prodiamine	48.9		P	26 - 141
Prometon	106		P	54 - 122
Prometryn	99.6		P	61 - 128
Pronamide	101		P	72 - 121
Propanil	93.8		P	45 - 144
Propargite	59.9		P	10 - 199
Propiconazole	72.9		P	56 - 127
Pyraflufen Ethyl	89.9		P	56 - 140
Pyridaben	86.9		P	26 - 211
Pyriproxyfen	125		P	33 - 194
Simazine	82.1		P	67 - 121
Stirophos	46.6		P	20 - 142
Sulfentrazone	39.8		P	21 - 144
Tebuconazole	47.6		P	10 - 122
Terbufos	110		P	60 - 129
Terbuthylazine	82.6		P	69 - 113
Tetradecachloro-m-terphenyl	126		P	70 - 200
Thiobencarb	90.2		P	51 - 120
Tri-o-cresyl Phosphate	101		P	49 - 150
Triadimefon	85.4		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	106		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.4		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	108		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P435496

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.9		P	40 - 150
AMPA	76.6		P	40 - 150
Endothall	99.7		P	40 - 150
Glufosinate	126		P	40 - 150
Glyphosate	72.5		P	40 - 150
Sucralose	99.3		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P435567

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	84.3		P	40 - 150
2,4,5-T	119		P	40 - 150
Acetaminophen	98.9		P	30 - 150
Acetamiprid	92.1		P	40 - 150
Afidopyropen	48.0		P	30 - 150
Bentazon	93.0		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P435567

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	91.2		P	40 - 150
Carbamazepine	95.8		P	40 - 150
Clothianidin	110		P	40 - 150
Dinotefuran	116		P	40 - 150
Diuron	90.0		P	40 - 150
Fenuron	98.1		P	40 - 150
Fluridone	79.7		P	40 - 150
Hydrocodone	97.7		P	40 - 150
Ibuprofen	74.8		P	40 - 150
Imazapyr	98.0		P	40 - 150
Imidacloprid	96.6		P	40 - 150
Linuron	71.1		P	40 - 150
Mandestrobin	90.9		P	40 - 150
MCPP	110		P	40 - 150
Naproxen	70.8		P	40 - 150
Primidone	97.3		P	40 - 150
Pyraclostrobin	88.9		P	40 - 150
Silvex	85.4		P	40 - 150
Thiamethoxam	108		P	40 - 150
Tolfenpyrad	59.2		P	30 - 150
Triclopyr	114		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P435768

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.4		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P436283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	94.8		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P436015

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.6		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P435770

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

Reference Method: SM 5310 B-2011

Batch ID: P435847

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P435682

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440487	Calcium	98.8		P	80 - 120
2440487	Iron	102	101	P/P	80 - 120
2440487	Magnesium	104	102	P/P	80 - 120
2440487	Potassium	96.4	98.4	P/P	80 - 120
2440487	Sodium	99.9		P	80 - 120
2440487	Strontium	98.1	99.1	P/P	80 - 120
2440487	Tin	101	103	P/P	80 - 120
2440487	Titanium	92.9	95.4	P/P	80 - 120
2440487	Vanadium	98.6	101	P/P	80 - 120
2440487	Zinc	101	102	P/P	80 - 120
2441075	Calcium	102		P	80 - 120
2441075	Iron	99.7		P	80 - 120
2441075	Magnesium	104		P	80 - 120
2441075	Potassium	97.4		P	80 - 120
2441075	Sodium	99.5		P	80 - 120
2441075	Strontium	99.2		P	80 - 120
2441075	Tin	102		P	80 - 120
2441075	Titanium	101		P	80 - 120
2441075	Vanadium	103		P	80 - 120
2441075	Zinc	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P435682

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440487	Aluminum	101	98.7	P/P	80 - 120
2440487	Antimony	98.9	98.1	P/P	80 - 120
2440487	Arsenic	99.1	99.7	P/P	80 - 120
2440487	Barium	103	102	P/P	80 - 120
2440487	Beryllium	94.7	96.1	P/P	80 - 120
2440487	Boron	105	104	P/P	80 - 120
2440487	Cadmium	103	101	P/P	80 - 120
2440487	Chromium	95.1	94.9	P/P	80 - 120
2440487	Cobalt	96.9	96.6	P/P	80 - 120
2440487	Copper	93.9	94.5	P/P	80 - 120
2440487	Lead	93.2	93.0	P/P	80 - 120
2440487	Manganese	95.5	95.7	P/P	80 - 120
2440487	Molybdenum	101	100	P/P	80 - 120
2440487	Nickel	94.2	93.7	P/P	80 - 120
2440487	Selenium	97.1	97.7	P/P	80 - 120
2440487	Silver	109	109	P/P	80 - 120
2440487	Thallium	104	104	P/P	80 - 120
2441075	Aluminum	87.6		P	80 - 120
2441075	Antimony	93.3		P	80 - 120
2441075	Arsenic	95.2		P	80 - 120
2441075	Barium	97.3		P	80 - 120
2441075	Beryllium	88.9		P	80 - 120
2441075	Boron	97.6		P	80 - 120
2441075	Cadmium	97.5		P	80 - 120
2441075	Chromium	93.5		P	80 - 120
2441075	Cobalt	93.8		P	80 - 120
2441075	Copper	96.7		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P435682

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441075	Lead	95.5		P	80 - 120
2441075	Manganese	92.7		P	80 - 120
2441075	Molybdenum	94.7		P	80 - 120
2441075	Nickel	94.0		P	80 - 120
2441075	Selenium	93.1		P	80 - 120
2441075	Silver	104		P	80 - 120
2441075	Thallium	99.2		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P436046

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440524	Chloride	105		P	90 - 110
2440730	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P436049

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440524	Sulfate	103		P	90 - 110
2440730	Sulfate	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P435751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440588	Ammonia-N	99.0	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P435775

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440437	Kjeldahl Nitrogen	102	109	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P436261

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2438460	NO2NO3-N	98.5	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P435710

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440540	Total-P	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P435598

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440483	O-Phosphate-P	96.3	100	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440545	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	93.3	81.7	P/P	50 - 150
2440545	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	28.5	22.9	P/F	26 - 165
2440545	Acetochlor	103	85.9	P/P	67 - 124
2440545	Alachlor	88.1	90.2	P/P	60 - 120
2440545	Ametryn	130	115	P/P	54 - 216
2440545	Atrazine Desethyl	85.7	70.4	P/P	15 - 122
2440545	Avobenzone	83.2	96.1	P/P	37 - 178
2440545	Azinphos Methyl	78.6	92.7	P/P	40 - 292
2440545	Azoxystrobin	110	94.7	P/P	35 - 220
2440545	Bromacil	115	98.8	P/P	45 - 127
2440545	Butylate	58.6	43.0	P/P	20 - 83.0
2440545	Caffeine	112	92.6	P/P	10 - 194
2440545	Carbophenothion	109	92.5	P/P	57 - 127
2440545	Carfentrazone Ethyl	117	99.4	P/P	51 - 141
2440545	Chlorfenapyr	62.6	54.7	P/P	46 - 111
2440545	Chlorpyrifos Ethyl	97.7	82.9	P/P	52 - 120
2440545	Chlorpyrifos Methyl	91.5	78.9	P/P	63 - 119
2440545	Coumaphos	61.4	56.6	P/P	10 - 228
2440545	Cyanazine	182	126	P/P	59 - 241
2440545	Cyprodinil	81.1	63.7	P/P	47 - 146
2440545	Dechlorane 602	37.8	40.7	F/F	50 - 150
2440545	Dechlorane 603	70.5	75.5	P/P	50 - 150
2440545	Dechlorane Plus	67.6	73.9	P/P	50 - 150
2440545	Demeton	78.1	67.5	P/P	40 - 136
2440545	Diazinon	108	107	P/P	69 - 132
2440545	Difenoconazole	118	137	P/P	57 - 258
2440545	Dimethenamid	80.6	69.9	P/P	54 - 110
2440545	Dimethomorph	227	241	F/F	28 - 210
2440545	Disulfoton	101	101	P/P	43 - 133
2440545	Dithiopyr	102	88.5	P/P	39 - 116
2440545	EPTC	51.7	32.0	P/P	20 - 78.0
2440545	Ethion	44.3	42.5	P/P	17 - 119
2440545	Ethoprop	103	88.7	P/P	66 - 120
2440545	Etridiazole	66.3	52.5	P/P	28 - 96.0
2440545	Fenamiphos	63.5	58.1	P/P	41 - 126
2440545	Fenbuconazole	58.8	68.2	P/P	42 - 169
2440545	Fipronil	82.1	68.2	P/P	61 - 132
2440545	Fipronil Desulfinyl	99.7	88.5	P/P	56 - 132
2440545	Fipronil Sulfide	105	90.9	P/P	48 - 119
2440545	Fipronil Sulfone	60.2	66.0	P/P	42 - 131
2440545	Fluazifop-P-butyl	63.5	63.1	P/P	53 - 131
2440545	Fludioxonil	73.8	63.8	P/P	56 - 127
2440545	Flumioxazin	136	166	P/P	19 - 300
2440545	Flutolanil	71.4	67.7	P/P	41 - 127
2440545	Fluxapyroxad	88.1	74.8	P/P	42 - 172
2440545	Fonofos	90.8	86.5	P/P	59 - 113
2440545	Hexabromobenzene	83.1	82.9	P/P	50 - 150
2440545	Hexazinone	101	79.1	P/P	66 - 122
2440545	Imazalil	121	104	P/P	21 - 283
2440545	Iprodione	75.2	61.7	P/P	43 - 150
2440545	Loratadine	167	181	P/P	23 - 201
2440545	Malathion	120	91.0	P/P	58 - 136

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440545	Metalaxyl	96.4	81.5	P/P	55 - 120
2440545	Metolachlor	105	82.3	P/P	57 - 121
2440545	Metribuzin	68.8	62.6	P/P	58 - 294
2440545	Mevinphos	82.2	74.2	P/P	50 - 126
2440545	Molinate	55.8	49.9	P/P	42 - 93.0
2440545	Myclobutanil	78.7	65.3	P/P	55 - 125
2440545	Naled	33.8	33.9	P/P	18 - 200
2440545	Napropamide	90.8	78.5	P/P	39 - 110
2440545	Norflurazon	75.9	74.5	P/P	48 - 128
2440545	Octinoxate	91.1	89.0	P/P	21 - 159
2440545	Oxadiazon	89.8	74.4	P/P	43 - 112
2440545	Oxybenzone	97.8	100	P/P	41 - 142
2440545	Oxyfluorfen	90.7	69.0	P/P	64 - 153
2440545	Parathion Ethyl	105	87.3	P/P	69 - 114
2440545	Parathion Methyl	108	97.9	P/P	79 - 139
2440545	PBB-153	33.2	35.2	F/F	50 - 150
2440545	PBDE-47	78.0	78.6	P/P	27 - 144
2440545	PBDE-99	22.9	25.1	P/P	18 - 150
2440545	Pendimethalin	85.9	75.0	P/P	50 - 139
2440545	Pentabromotoluene	86.2	84.1	P/P	50 - 150
2440545	Phenytoin	54.4	44.5	P/P	10 - 146
2440545	Phorate	116	116	P/P	54 - 161
2440545	Prodiamine	49.5	35.1	P/P	30 - 161
2440545	Prometon	110	96.6	P/P	45 - 134
2440545	Prometryn	104	95.5	P/P	45 - 137
2440545	Pronamide	118	95.6	P/P	65 - 133
2440545	Propanil	110	89.2	P/P	49 - 142
2440545	Propargite	60.8	50.0	P/P	10 - 203
2440545	Propiconazole	73.4	80.4	P/P	38 - 146
2440545	Pyraflufen Ethyl	73.6	81.8	P/P	34 - 153
2440545	Pyridaben	50.8	51.4	P/P	12 - 192
2440545	Pyriproxyfen	92.3	113	P/P	33 - 180
2440545	Simazine	80.3	60.5	P/P	51 - 157
2440545	Stirophos	47.3	44.8	P/P	10 - 128
2440545	Sulfentrazone	77.7	62.0	P/P	53 - 186
2440545	Tebuconazole	56.2	50.6	P/P	10 - 133
2440545	Terbufos	124	115	P/P	65 - 139
2440545	Terbutylazine	91.9	84.6	P/P	66 - 117
2440545	Tetradecachloro-m-terphenyl	74.0	74.2	P/P	70 - 200
2440545	Thiobencarb	95.0	79.7	P/P	51 - 119
2440545	Tri-o-cresyl Phosphate	94.8	94.1	P/P	31 - 144
2440545	Triadimefon	98.5	75.8	P/P	48 - 119
2440545	Tris(1-chloro-2-propyl) phosphate (TCPP)	104	103	P/P	50 - 150
2440545	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.9	93.5	P/P	50 - 150
2440545	Tris(2-chloroethyl) phosphate (TCEP)	106	102	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P435496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440366	Acesulfame K	88.0	87.9	P/P	40 - 150
2440366	AMPA	64.6	64.3	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P435496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440366	Endothall	155	156	F/F	40 - 150
2440366	Glufosinate	119	108	P/P	40 - 150
2440366	Glyphosate	115	96.5	P/P	40 - 150
2440366	Sucralose	96.9	108	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P435567

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440342	2,4,5-T	93.3	86.5	P/P	40 - 150
2440342	Acetaminophen	116	111	P/P	30 - 150
2440342	Acetamiprid	65.1	66.9	P/P	40 - 150
2440342	Afidopyropen	51.3	57.3	P/P	30 - 150
2440342	Bentazon	37.7	37.6	P/P	30 - 150
2440342	Benzovindiflupyr	83.3	80.2	P/P	40 - 150
2440342	Carbamazepine	67.4	65.1	P/P	40 - 150
2440342	Clothianidin	83.2	79.4	P/P	40 - 150
2440342	Dinotefuran	95.6	87.5	P/P	40 - 150
2440342	Diuron	56.3	56.0	P/P	40 - 150
2440342	Fenuron	57.0	55.5	P/P	40 - 150
2440342	Fluridone	44.9	39.9	P/F	40 - 150
2440342	Hydrocodone	59.4	55.5	P/P	40 - 150
2440342	Ibuprofen	50.8	60.8	P/P	40 - 150
2440342	Imidacloprid	116	108	P/P	40 - 150
2440342	Linuron	50.8	46.9	P/P	40 - 150
2440342	Mandestrobin	69.7	66.7	P/P	40 - 150
2440342	MCPP	91.5	85.3	P/P	40 - 150
2440342	Naproxen	55.5	60.3	P/P	40 - 150
2440342	Primidone	75.1	68.6	P/P	40 - 150
2440342	Pyraclostrobin	81.2	77.0	P/P	40 - 150
2440342	Silvex	83.1	72.3	P/P	40 - 150
2440342	Thiamethoxam	82.7	78.2	P/P	40 - 150
2440342	Tolfenpyrad	60.0	61.2	P/P	30 - 150
2440342	Triclopyr	99.1	93.7	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P435770

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2441080	Fluoride	104	103	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P435847

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2440525	Organic Carbon	97.2	97.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P435606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440539	Color (true)	0.617	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P435618

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440586	Turbidity	3.77	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P435682

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440487	Calcium	0.768	Spike	P	0 - 20
2440487	Iron	1.39	Spike	P	0 - 20
2440487	Magnesium	1.24	Spike	P	0 - 20
2440487	Potassium	1.62	Spike	P	0 - 20
2440487	Sodium	1.56	Spike	P	0 - 20
2440487	Strontium	1.03	Spike	P	0 - 20
2440487	Tin	1.82	Spike	P	0 - 20
2440487	Titanium	2.02	Spike	P	0 - 20
2440487	Vanadium	1.97	Spike	P	0 - 20
2440487	Zinc	1.47	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P435682

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440487	Aluminum	1.14	Spike	P	0 - 20
2440487	Antimony	0.837	Spike	P	0 - 20
2440487	Arsenic	0.593	Spike	P	0 - 20
2440487	Barium	0.694	Spike	P	0 - 20
2440487	Beryllium	1.41	Spike	P	0 - 20
2440487	Boron	0.927	Spike	P	0 - 20
2440487	Cadmium	1.27	Spike	P	0 - 20
2440487	Chromium	0.169	Spike	P	0 - 20
2440487	Cobalt	0.341	Spike	P	0 - 20
2440487	Copper	0.540	Spike	P	0 - 20
2440487	Lead	0.281	Spike	P	0 - 20
2440487	Manganese	0.273	Spike	P	0 - 20
2440487	Molybdenum	0.601	Spike	P	0 - 20
2440487	Nickel	0.429	Spike	P	0 - 20
2440487	Selenium	0.606	Spike	P	0 - 20
2440487	Silver	0.0570	Spike	P	0 - 20
2440487	Thallium	0.278	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436046

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440524	Chloride	0.376	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436049

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440524	Sulfate	0.189	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P435751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440588	Ammonia-N	1.40	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P435775

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440437	Kjeldahl Nitrogen	4.78	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436261

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2438460	NO2NO3-N	1.51	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P435710

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440540	Total-P	2.28	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P435598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440483	O-Phosphate-P	2.70	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P435493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440545	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	13.3	Spike	P	0 - 30
2440545	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	21.7	Spike	P	0 - 37

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P435493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440545	Acetochlor	17.6	Spike	P	0 - 28
2440545	Alachlor	2.27	Spike	P	0 - 30
2440545	Ametryn	12.5	Spike	P	0 - 32
2440545	Atrazine	6.84	Spike	P	0 - 41
2440545	Atrazine Desethyl	15.5	Spike	P	0 - 36
2440545	Avobenzone	14.4	Spike	P	0 - 36
2440545	Azinphos Methyl	16.5	Spike	P	0 - 75
2440545	Azoxystrobin	14.7	Spike	P	0 - 39
2440545	Bromacil	14.9	Spike	P	0 - 33
2440545	Butylate	30.7	Spike	P	0 - 44
2440545	Caffeine	18.6	Spike	P	0 - 74
2440545	Carbophenothion	16.2	Spike	P	0 - 25
2440545	Carfentrazone Ethyl	16.0	Spike	P	0 - 27
2440545	Chlorfenapyr	13.6	Spike	P	0 - 24
2440545	Chlorpyrifos Ethyl	16.4	Spike	P	0 - 26
2440545	Chlorpyrifos Methyl	14.7	Spike	P	0 - 26
2440545	Coumaphos	8.07	Spike	P	0 - 28
2440545	Cyanazine	36.5	Spike	P	0 - 48
2440545	Cyprodinil	21.4	Spike	P	0 - 29
2440545	Dechlorane 602	7.57	Spike	P	0 - 30
2440545	Dechlorane 603	6.96	Spike	P	0 - 30
2440545	Dechlorane Plus	8.97	Spike	P	0 - 30
2440545	Demeton	14.7	Spike	P	0 - 33
2440545	Diazinon	1.39	Spike	P	0 - 29
2440545	Difenoconazole	15.0	Spike	P	0 - 34
2440545	Dimethenamid	14.2	Spike	P	0 - 39
2440545	Dimethomorph	5.97	Spike	P	0 - 51
2440545	Disulfoton	0.528	Spike	P	0 - 30
2440545	Dithiopyr	13.7	Spike	P	0 - 26
2440545	EPTC	47.0	Spike	F	0 - 43
2440545	Ethion	4.13	Spike	P	0 - 79
2440545	Ethoprop	15.3	Spike	P	0 - 29
2440545	Etridiazole	23.3	Spike	P	0 - 33
2440545	Fenamiphos	8.92	Spike	P	0 - 40
2440545	Fenbuconazole	14.7	Spike	P	0 - 74
2440545	Fipronil	18.6	Spike	P	0 - 29
2440545	Fipronil Desulfinyl	12.0	Spike	P	0 - 32
2440545	Fipronil Sulfide	14.3	Spike	P	0 - 30
2440545	Fipronil Sulfone	9.19	Spike	P	0 - 33
2440545	Fluazifop-P-butyl	0.649	Spike	P	0 - 38
2440545	Fludioxonil	14.5	Spike	P	0 - 29
2440545	Flumioxazin	19.7	Spike	P	0 - 51
2440545	Flutolanil	5.26	Spike	P	0 - 25
2440545	Fluxapyroxad	16.4	Spike	P	0 - 45
2440545	Fonofos	4.88	Spike	P	0 - 27
2440545	Hexabromobenzene	0.301	Spike	P	0 - 30
2440545	Hexazinone	24.0	Spike	P	0 - 30
2440545	Imazalil	15.2	Spike	P	0 - 100
2440545	Iprodione	19.8	Spike	P	0 - 33
2440545	Loratadine	8.44	Spike	P	0 - 56
2440545	Malathion	27.1	Spike	P	0 - 37

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P435493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440545	Metalaxyl	16.7	Spike	P	0 - 40
2440545	Metolachlor	21.1	Spike	P	0 - 29
2440545	Metribuzin	9.46	Spike	P	0 - 45
2440545	Mevinphos	10.3	Spike	P	0 - 29
2440545	Molinate	11.2	Spike	P	0 - 33
2440545	Myclobutanil	18.7	Spike	P	0 - 26
2440545	Naled	0.251	Spike	P	0 - 37
2440545	Napropamide	14.6	Spike	P	0 - 44
2440545	Norflurazon	1.84	Spike	P	0 - 30
2440545	Octinoxate	2.34	Spike	P	0 - 45
2440545	Oxadiazon	18.8	Spike	P	0 - 28
2440545	Oxybenzone	2.69	Spike	P	0 - 46
2440545	Oxyfluorfen	27.2	Spike	P	0 - 28
2440545	Parathion Ethyl	18.3	Spike	P	0 - 31
2440545	Parathion Methyl	9.54	Spike	P	0 - 29
2440545	PBB-153	5.91	Spike	P	0 - 30
2440545	PBDE-47	0.774	Spike	P	0 - 36
2440545	PBDE-99	9.23	Spike	P	0 - 40
2440545	Pendimethalin	13.6	Spike	P	0 - 33
2440545	Pentabromotoluene	2.50	Spike	P	0 - 30
2440545	Phenytoin	20.0	Spike	P	0 - 100
2440545	Phorate	0.602	Spike	P	0 - 36
2440545	Prodiamine	34.2	Spike	P	0 - 71
2440545	Prometon	12.7	Spike	P	0 - 36
2440545	Prometryn	8.18	Spike	P	0 - 28
2440545	Pronamide	21.2	Spike	P	0 - 24
2440545	Propanil	21.1	Spike	P	0 - 28
2440545	Propargite	19.4	Spike	P	0 - 43
2440545	Propiconazole	9.03	Spike	P	0 - 33
2440545	Pyraflufen Ethyl	10.5	Spike	P	0 - 29
2440545	Pyridaben	1.15	Spike	P	0 - 30
2440545	Pyriproxyfen	19.8	Spike	P	0 - 79
2440545	Simazine	24.6	Spike	P	0 - 29
2440545	Stirophos	5.50	Spike	P	0 - 61
2440545	Sulfentrazone	22.6	Spike	P	0 - 33
2440545	Tebuconazole	10.6	Spike	P	0 - 69
2440545	Terbufos	7.49	Spike	P	0 - 29
2440545	Terbuthylazine	8.21	Spike	P	0 - 32
2440545	Tetradecachloro-m-terphenyl	0.349	Spike	P	0 - 30
2440545	Thiobencarb	17.6	Spike	P	0 - 26
2440545	Tri-o-cresyl Phosphate	0.742	Spike	P	0 - 33
2440545	Triadimefon	26.0	Spike	P	0 - 28
2440545	Tris(1-chloro-2-propyl) phosphate (TCPP)	1.19	Spike	P	0 - 30
2440545	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	4.55	Spike	P	0 - 30
2440545	Tris(2-chloroethyl) phosphate (TCEP)	4.23	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P435496

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: P435496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440366	Acesulfame K	0.157	Spike	P	0 - 30
2440366	AMPA	0.354	Spike	P	0 - 30
2440366	Endothall	0.668	Spike	P	0 - 30
2440366	Glufosinate	9.58	Spike	P	0 - 30
2440366	Glyphosate	17.4	Spike	P	0 - 30
2440366	Sucralose	10.5	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P435567

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440342	2,4-D	3.83	Spike	P	0 - 30
2440342	2,4,5-T	7.48	Spike	P	0 - 30
2440342	Acetaminophen	5.12	Spike	P	0 - 30
2440342	Acetamiprid	2.84	Spike	P	0 - 30
2440342	Afidopyropen	11.1	Spike	P	0 - 30
2440342	Bentazon	0.151	Spike	P	0 - 30
2440342	Benzovindiflupyr	3.79	Spike	P	0 - 30
2440342	Carbamazepine	3.44	Spike	P	0 - 30
2440342	Clothianidin	4.66	Spike	P	0 - 30
2440342	Dinotefuran	8.80	Spike	P	0 - 30
2440342	Diuron	0.585	Spike	P	0 - 30
2440342	Fenuron	2.57	Spike	P	0 - 30
2440342	Fluridone	11.8	Spike	P	0 - 30
2440342	Hydrocodone	6.74	Spike	P	0 - 30
2440342	Ibuprofen	17.9	Spike	P	0 - 30
2440342	Imazapyr	0.792	Spike	P	0 - 30
2440342	Imidacloprid	6.34	Spike	P	0 - 30
2440342	Linuron	8.07	Spike	P	0 - 30
2440342	Mandestrobin	4.45	Spike	P	0 - 30
2440342	MCPP	7.06	Spike	P	0 - 30
2440342	Naproxen	8.29	Spike	P	0 - 30
2440342	Primidone	8.95	Spike	P	0 - 30
2440342	Pyraclostrobin	5.32	Spike	P	0 - 30
2440342	Silvex	13.8	Spike	P	0 - 30
2440342	Thiamethoxam	5.57	Spike	P	0 - 30
2440342	Tolfenpyrad	2.01	Spike	P	0 - 30
2440342	Triclopyr	5.61	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P435768

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441080	Total Alkalinity	0.815	Sample	P	0 - 3.9

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P436283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440475	TDS	1.94	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P435770

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2441080	Fluoride	0.963	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P435847

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2440525	Organic Carbon	0.311	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2440603
Field Sample ID: 26010040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	71.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	62.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	61.4	P	30 - 160
EPA 8321B	Diuron-d6	47.6	P	30 - 160
EPA 8321B	Endothall-d6	133	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.4	P	30 - 160
EPA 8321B	Primidone-d5	49.8	P	30 - 160
EPA 8321B	Sucralose-d6	121	P	30 - 160

Lab Sample ID: 2440611
Field Sample ID: 26010040

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	45.2	P	20 - 200
EPA 8270E	Simazine-d10	63.0	P	62 - 142
EPA 8270E	Terbufos-d10	77.6	P	58 - 132
EPA 8270E	Terphenyl-d14	66.9	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A121765
Included Lab Sample IDs: 2440603

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	107	108	P/P	60 - 160
Endothall	99.0	112	P/P	60 - 160
Glufosinate	111	127	P/P	60 - 160
Glyphosate	99.2	91.0	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A121793
Included Lab Sample IDs: 2440599

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

Reference Method: DEP SOP: NU-094-1
Run ID: A121796
Included Lab Sample IDs: 2440597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.4	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A121800
Included Lab Sample IDs: 2440597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	100	P/P	95 - 105

Reference Method: EPA 8321B
Run ID: A121824
Included Lab Sample IDs: 2440603

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	97.7	95.6	P/P	60 - 160
Sucralose	101	97.0	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A121852
Included Lab Sample IDs: 2440598

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

Reference Method: SM 2320 B-2011
Run ID: A121863
Included Lab Sample IDs: 2440597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.0	97.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A121863

Included Lab Sample IDs: 2440597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	100	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A121868

Included Lab Sample IDs: 2440605

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	102	P/P	90 - 110
Iron	100	100	P/P	90 - 110
Magnesium	101	100	P/P	90 - 110
Potassium	98.9	99.4	P/P	90 - 110
Sodium	99.6	101	P/P	90 - 110
Strontium	99.1	97.0	P/P	90 - 110
Tin	99.5	101	P/P	90 - 110
Titanium	98.3	99.1	P/P	90 - 110
Vanadium	97.9	98.7	P/P	90 - 110
Zinc	99.2	99.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121869

Included Lab Sample IDs: 2440605

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.9	93.6	P/P	90 - 110
Antimony	94.6	92.3	P/P	90 - 110
Arsenic	98.4	95.3	P/P	90 - 110
Barium	98.4	94.9	P/P	90 - 110
Beryllium	97.7	93.5	P/P	90 - 110
Boron	100	95.0	P/P	90 - 110
Cadmium	100	97.1	P/P	90 - 110
Chromium	98.6	95.9	P/P	90 - 110
Cobalt	97.8	94.4	P/P	90 - 110
Copper	96.0	92.3	P/P	90 - 110
Manganese	97.9	95.5	P/P	90 - 110
Molybdenum	97.6	94.8	P/P	90 - 110
Nickel	96.9	93.2	P/P	90 - 110
Selenium	98.0	95.6	P/P	90 - 110
Silver	99.4	95.9	P/P	90 - 110
Thallium	98.9	95.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A121870

Included Lab Sample IDs: 2440611

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	98.9		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	93.1		P	80 - 120
Avobenzone	95.5		P	80 - 120
Dechlorane 602	99.1		P	80 - 120
Dechlorane 603	101		P	80 - 120
Dechlorane Plus	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121870
Included Lab Sample IDs: 2440611

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexabromobenzene	91.8		P	80 - 120
Octinoxate	92.1		P	80 - 120
Oxybenzone	97.4		P	80 - 120
PBB-153	93.4		P	80 - 120
PBDE-47	94.1		P	80 - 120
PBDE-99	95.8		P	80 - 120
Pentabromotoluene	102		P	80 - 120
Tetradecachloro-m-terphenyl	95.2		P	80 - 120
Tri-o-cresyl Phosphate	96.8		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)	94.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A121884
Included Lab Sample IDs: 2440605

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	95.5	94.9	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A121893
Included Lab Sample IDs: 2440603

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	70.5	79.0	P/P	50 - 150
2,4,5-T	76.4	83.6	P/P	50 - 150
Acetaminophen	111	110	P/P	60 - 160
Acetamiprid	114	112	P/P	50 - 150
Bentazon	121	123	P/P	50 - 160
Benzovindiflupyr	77.6	75.9	P/P	50 - 150
Carbamazepine	76.3	74.9	P/P	60 - 150
Clothianidin	118	120	P/P	60 - 150
Dinotefuran	117	116	P/P	50 - 150
Diuron	67.7	63.0	P/P	60 - 160
Fenuron	105	105	P/P	60 - 150
Fluridone	76.3	73.4	P/P	60 - 160
Hydrocodone	117	116	P/P	60 - 150
Ibuprofen	96.1	67.7	P/P	50 - 160
Imazapyr	107	98.8	P/P	50 - 150
Imidacloprid	111	107	P/P	60 - 150
Linuron	79.1	76.1	P/P	60 - 150
Mandestrobin	77.5	82.8	P/P	50 - 150
MCPP	74.0	81.3	P/P	50 - 150
Naproxen	115	80.2	P/P	50 - 160
Primidone	106	102	P/P	60 - 150
Pyraclostrobin	82.3	86.3	P/P	60 - 150
Silvex	67.9	70.1	P/P	50 - 150
Thiamethoxam	119	115	P/P	50 - 150
Tolfenpyrad	68.6	68.2	P/P	60 - 150
Triclopyr	88.7	80.6	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011
 Run ID: A121902
 Included Lab Sample IDs: 2440598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.4	93.7	P/P	90 - 110

Reference Method: EPA 8270E
 Run ID: A121906
 Included Lab Sample IDs: 2440611

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	94.3		P	80 - 120
Alachlor	96.7		P	80 - 120
Ametryn	99.2		P	80 - 120
Atrazine	96.1		P	80 - 120
Atrazine Desethyl	114		P	80 - 120
Azinphos Methyl	106		P	80 - 120
Azoxystrobin	97.8		P	80 - 120
Bromacil	93.3		P	80 - 120
Butylate	98.7		P	80 - 120
Caffeine	105		P	80 - 120
Carbophenothion	104		P	80 - 120
Carfentrazone Ethyl	97.5		P	80 - 120
Chlorfenapyr	85.4		P	80 - 120
Chlorpyrifos Ethyl	89.1		P	80 - 120
Chlorpyrifos Methyl	99.5		P	80 - 120
Coumaphos	93.4		P	80 - 120
Cyanazine	99.1		P	80 - 120
Cyprodinil	104		P	80 - 120
Demeton	102		P	80 - 120
Diazinon	104		P	80 - 120
Difenoconazole	92.0		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	97.2		P	80 - 120
Disulfoton	104		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	99.1		P	80 - 120
Ethion	89.5		P	80 - 120
Ethoprop	104		P	80 - 120
Etridiazole	102		P	80 - 120
Fenamiphos	97.7		P	80 - 120
Fenbuconazole	87.2		P	80 - 120
Fipronil	96.7		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	103		P	80 - 120
Fipronil Sulfone	102		P	80 - 120
Fluazifop-P-butyl	101		P	80 - 120
Fludioxonil	87.7		P	80 - 120
Flumioxazin	94.6		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	97.8		P	80 - 120
Fonofos	96.3		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	111		P	80 - 120
Iprodione	78.7*		F	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121906
Included Lab Sample IDs: 2440611

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Loratadine	86.1		P	80 - 120
Malathion	80.2		P	80 - 120
Metalaxyl	88.5		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	97.6		P	80 - 120
Mevinphos	92.4		P	80 - 120
Molinate	89.0		P	80 - 120
Myclobutanil	92.5		P	80 - 120
Naled	105		P	80 - 120
Napropamide	98.9		P	80 - 120
Norflurazon	102		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	99.5		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	92.0		P	80 - 120
Pendimethalin	108		P	80 - 120
Phenytoin	95.6		P	80 - 120
Phorate	99.7		P	80 - 120
Prodiamine	101		P	80 - 120
Prometon	105		P	80 - 120
Prometryn	104		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	87.1		P	80 - 120
Propargite	107		P	80 - 120
Propiconazole	85.9		P	80 - 120
Pyraflufen Ethyl	105		P	80 - 120
Pyridaben	102		P	80 - 120
Pyriproxyfen	174*		F	80 - 120
Simazine	101		P	80 - 120
Stirophos	84.0		P	80 - 120
Sulfentrazone	87.3		P	80 - 120
Tebuconazole	97.9		P	80 - 120
Terbufos	94.9		P	80 - 120
Terbuthylazine	95.4		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	100		P	80 - 120

Reference Method: EPA 8321B
Run ID: A121918
Included Lab Sample IDs: 2440603

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyopen	80.5	67.8	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A121943
Included Lab Sample IDs: 2440598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121948

Included Lab Sample IDs: 2440597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	103	P/P	90 - 110
Sulfate	103	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A121949

Included Lab Sample IDs: 2440598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.0	91.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122043

Included Lab Sample IDs: 2440598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.5	98.0	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			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	98.8				0.617	
EPA 180.1 Rev. 2.0	Turbidity	105				3.77	
EPA 200.7 Rev. 4.4	Calcium	102	98.8	102			0.768
	Iron	103	102	101	99.7		1.39
	Magnesium	105	104	102	104		1.24
	Potassium	101	96.4	98.4	97.4		1.62
	Sodium	100	99.9	99.5			1.56
	Strontium	99.6	98.1	99.1	99.2		1.03
	Tin	106	101	103	102		1.82
	Titanium	102	92.9	95.4	101		2.02
	Vanadium	102	98.6	101	103		1.97
	Zinc	104	101	102	102		1.47
EPA 200.8 Rev. 5.4	Aluminum	97.9	101	98.7	87.6		1.14
	Antimony	94.0	98.9	98.1	93.3		0.837
	Arsenic	98.7	99.1	99.7	95.2		0.593
	Barium	98.3	103	102	97.3		0.694
	Beryllium	95.3	94.7	96.1	88.9		1.41
	Boron	102	105	104	97.6		0.927
	Cadmium	96.3	103	101	97.5		1.27
	Chromium	94.2	95.1	94.9	93.5		0.169
	Cobalt	98.4	96.9	96.6	93.8		0.341
	Copper	96.4	93.9	94.5	96.7		0.540
	Lead	90.8	95.5	93.2	93.0		0.281
	Manganese	94.1	95.5	95.7	92.7		0.273
	Molybdenum	96.2	101	100	94.7		0.601
	Nickel	97.9	94.2	93.7	94.0		0.429
	Selenium	95.6	97.1	97.7	93.1		0.606
	Silver	107	109	109	104		0.0570
	Thallium	99.0	104	104	99.2		0.278
EPA 300.0 Rev. 2.1	Chloride	105	105	104		0.376	
	Sulfate	107	103	103		0.189	
EPA 350.1 Rev. 2.0	Ammonia-N	102	99.0	101			1.40
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.2	102	109			4.78
EPA 353.2 Rev. 2.0	NO2NO3-N	97.5	98.5	100			1.51
EPA 365.1 Rev. 2.0	Total-P	101	102	104			2.28
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	96.3	100			2.70
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	63.8	93.3	81.7			13.3
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.6	28.5	22.9			21.7
	Acetochlor	89.0	103	85.9			17.6
	Alachlor	73.8	88.1	90.2			2.27
	Ametryn	124	130	115			12.5
	Atrazine	86.0					6.84
	Atrazine Desethyl	81.7	85.7	70.4			15.5
	Avobenzone	101	83.2	96.1			14.4
	Azinphos Methyl	95.0	78.6	92.7			16.5
	Azoxystrobin	94.1	110	94.7			14.7
	Bromacil	92.9	115	98.8			14.9
	Butylate	59.5	58.6	43.0			30.7
	Caffeine	96.9	112	92.6			18.6
	Carbophenothion	93.6	109	92.5			16.2
	Carfentrazone Ethyl	103	117	99.4			16.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorfenapyr	55.8	62.6	54.7			13.6
	Chlorpyrifos Ethyl	99.4	97.7	82.9			16.4
	Chlorpyrifos Methyl	91.4	91.5	78.9			14.7
	Coumaphos	83.6	61.4	56.6			8.07
	Cyanazine	145	182	126			36.5
	Cyprodinil	87.6	81.1	63.7			21.4
	Dechlorane 602	68.4	37.8	40.7			7.57
	Dechlorane 603	110	70.5	75.5			6.96
	Dechlorane Plus	109	67.6	73.9			8.97
	Demeton	69.5	78.1	67.5			14.7
	Diazinon	108	108	107			1.39
	Difenoconazole	63.0	118	137			15.0
	Dimethenamid	76.2	80.6	69.9			14.2
	Dimethomorph	183	227	241			5.97
	Disulfoton	96.2	101	101			0.528
	Dithiopyr	107	102	88.5			13.7
	EPTC	63.0	51.7	32.0			47.0
	Ethion	39.1	44.3	42.5			4.13
	Ethoprop	83.8	103	88.7			15.3
	Etridiazole	64.1	66.3	52.5			23.3
	Fenamiphos	74.1	63.5	58.1			8.92
	Fenbuconazole	58.2	58.8	68.2			14.7
	Fipronil	92.9	82.1	68.2			18.6
	Fipronil Desulfinyl	96.2	99.7	88.5			12.0
	Fipronil Sulfide	79.0	105	90.9			14.3
	Fipronil Sulfone	67.1	60.2	66.0			9.19
	Fluazifop-P-butyl	68.3	63.5	63.1			0.649
	Fludioxonil	62.9	73.8	63.8			14.5
	Flumioxazin	96.8	136	166			19.7
	Flutolanil	66.0	71.4	67.7			5.26
	Fluxapyroxad	73.2	88.1	74.8			16.4
	Fonofos	89.8	90.8	86.5			4.88
	Hexabromobenzene	99.8	83.1	82.9			0.301
	Hexazinone	81.8	101	79.1			24.0
	Imazalil	89.0	121	104			15.2
	Iprodione	54.0	75.2	61.7			19.8
	Loratadine	124	167	181			8.44
	Malathion	104	120	91.0			27.1
	Metalaxyl	88.0	96.4	81.5			16.7
	Metolachlor	99.1	105	82.3			21.1
	Metribuzin	41.7	68.8	62.6			9.46
	Mevinphos	72.7	82.2	74.2			10.3
	Molinate	58.8	55.8	49.9			11.2
	Myclobutanil	67.1	78.7	65.3			18.7
	Naled	43.0	33.8	33.9			0.251
	Napropamide	81.2	90.8	78.5			14.6
	Norflurazon	76.5	75.9	74.5			1.84
	Octinoxate	102	91.1	89.0			2.34
	Oxadiazon	72.4	89.8	74.4			18.8
	Oxybenzone	107	97.8	100			2.69
	Oxyfluorfen	77.5	90.7	69.0			27.2
	Parathion Ethyl	89.6	105	87.3			18.3
	Parathion Methyl	99.1	108	97.9			9.54
	PBB-153	106	33.2	35.2			5.91

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	PBDE-47	89.0	78.0	78.6			0.774
	PBDE-99	76.5	22.9	25.1			9.23
	Pendimethalin	74.2	85.9	75.0			13.6
	Pentabromotoluene	96.5	86.2	84.1			2.50
	Phenytoln	28.0	54.4	44.5			20.0
	Phorate	97.4	116	116			0.602
	Prodiamine	48.9	49.5	35.1			34.2
	Prometon	106	110	96.6			12.7
	Prometryn	99.6	104	95.5			8.18
	Pronamide	101	118	95.6			21.2
	Propanil	93.8	110	89.2			21.1
	Propargite	59.9	60.8	50.0			19.4
	Propiconazole	72.9	73.4	80.4			9.03
	Pyraflufen Ethyl	89.9	73.6	81.8			10.5
	Pyridaben	86.9	50.8	51.4			1.15
	Pyriproxyfen	125	92.3	113			19.8
	Simazine	82.1	80.3	60.5			24.6
	Stirophos	46.6	47.3	44.8			5.50
	Sulfentrazone	39.8	77.7	62.0			22.6
	Tebuconazole	47.6	56.2	50.6			10.6
	Terbufos	110	124	115			7.49
	Terbutylazine	82.6	91.9	84.6			8.21
	Tetradecachloro-m-terphenyl	126	74.0	74.2			0.349
	Thiobencarb	90.2	95.0	79.7			17.6
	Tri-o-cresyl Phosphate	101	94.8	94.1			0.742
	Triadimefon	85.4	98.5	75.8			26.0
	Tris(1-chloro-2-propyl) phosphate (TCPP)	106	104	103			1.19
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	97.4	97.9	93.5			4.55
	Tris(2-chloroethyl) phosphate (TCEP)	108	106	102			4.23
EPA 8321B	2,4-D	84.3					3.83
	2,4,5-T	119	93.3	86.5			7.48
	Acesulfame K	95.9	88.0	87.9			0.157
	Acetaminophen	98.9	116	111			5.12
	Acetamiprid	92.1	65.1	66.9			2.84
	Afidopyropen	48.0	51.3	57.3			11.1
	AMPA	76.6	64.6	64.3			0.354
	Bentazon	93.0	37.7	37.6			0.151
	Benzovindiflupyr	91.2	83.3	80.2			3.79
	Carbamazepine	95.8	67.4	65.1			3.44
	Clothianidin	110	83.2	79.4			4.66
	Dinotefuran	116	95.6	87.5			8.80
	Diuron	90.0	56.3	56.0			0.585
	Endothall	99.7	155	156			0.668
	Fenuron	98.1	57.0	55.5			2.57
	Fluridone	79.7	44.9	39.9			11.8
	Glufosinate	126	119	108			9.58
	Glyphosate	72.5	115	96.5			17.4
	Hydrocodone	97.7	59.4	55.5			6.74
	Ibuprofen	74.8	50.8	60.8			17.9
	Imazapyr	98.0					0.792
	Imidacloprid	96.6	116	108			6.34

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Linuron	71.1	50.8	46.9		
	Mandestrobin	90.9	69.7	66.7		
	MCP	110	91.5	85.3		
	Naproxen	70.8	55.5	60.3		
	Primidone	97.3	75.1	68.6		
	Pyraclostrobin	88.9	81.2	77.0		
	Silvex	85.4	83.1	72.3		
	Sucralose	99.3	96.9	108		
	Thiamethoxam	108	82.7	78.2		
	Tolfenpyrad	59.2	60.0	61.2		
	Triclopyr	114	99.1	93.7		
SM 2320 B-2011	Total Alkalinity	96.4				0.815
SM 2540 C-2015	TDS	94.8				1.94
SM 2540 D-2015	TSS	94.6				
SM 4500-F- C-2011	Fluoride	99.3	104	103		
SM 5310 B-2011	Organic Carbon	96.0	97.2	97.7		

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2440597
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2440597
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2440605
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2440605
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2440597
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2440597
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2440598
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2440598
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2440598
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2440598
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2440599
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2440611
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2440611
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2440603
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2440597
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2440605
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2440597
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2440597
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2440597
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2440598

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	09/27/2023			09/27/2023 15:54	Alexis Price	2440597
EPA 180.1 Rev. 2.0	09/27/2023			09/27/2023 13:54	Alexis Price	2440597
EPA 200.7 Rev. 4.4	09/27/2023	09/28/2023 13:30	George D Taylor	09/29/2023 15:13	McKinley C Carter	2440605
EPA 200.8 Rev. 5.4	09/27/2023	09/28/2023 13:30	George D Taylor	09/29/2023 17:53	Conrad Hartmann	2440605
	09/27/2023	09/28/2023 13:30	George D Taylor	10/02/2023 14:36	Conrad Hartmann	2440605
EPA 300.0 Rev. 2.1	09/27/2023			10/05/2023 02:03	James L Waggeberby	2440597
EPA 350.1 Rev. 2.0	09/27/2023			09/29/2023 12:12	Khloe J Berg	2440598
EPA 351.2 Rev. 2.0	09/27/2023	10/04/2023 08:42	Samantha L Bates	10/04/2023 13:32	Ping Hua	2440598
EPA 353.2 Rev. 2.0	09/27/2023			10/09/2023 14:25	Anna M. Plaviak	2440598
EPA 365.1 Rev. 2.0	09/27/2023	09/29/2023 10:00	Simonne.V. Calhoun	10/04/2023 10:50	Chandler E Cox	2440598
EPA 365.1 Rev. 2.0 dissolved	09/27/2023			09/27/2023 14:59	Elise M. Gillis	2440599
EPA 8270E	09/27/2023	09/28/2023 08:00	Fe-Val Siddell	09/29/2023 21:13	Vandana T. Nagar	2440611
	09/27/2023	09/28/2023 08:00	Fe-Val Siddell	10/01/2023 00:33	Arthur Maknenko	2440611
EPA 8321B	09/27/2023	09/27/2023 12:00	Hana Lee	09/27/2023 19:10	Tae K Lee	2440603
	09/27/2023	09/27/2023 12:00	Hana Lee	09/28/2023 02:25	Tae K Lee	2440603
	09/27/2023	09/29/2023 09:00	Hoor Shaik	09/29/2023 23:31	Juyoung Kim	2440603
	09/27/2023	09/29/2023 09:00	Hoor Shaik	10/03/2023 02:12	Juyoung Kim	2440603
SM 2320 B-2011	09/27/2023			09/29/2023 22:32	Adam P Silver	2440597
SM 2340 B-2011	09/27/2023			09/29/2023 15:13	McKinley C Carter	2440605
SM 2540 C-2015	09/27/2023			10/02/2023 15:37	Yijie Li	2440597
SM 2540 D-2015	09/27/2023			10/02/2023 15:27	Yijie Li	2440597
SM 4500-F- C-2011	09/27/2023			09/29/2023 22:32	Adam P Silver	2440597
SM 5310 B-2011	09/27/2023			10/02/2023 23:02	Elise M. Gillis	2440598