

Chemical Analysis Report

SO-DIST-2024-03-28-01

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

Event Description: **2024 SMP : Charlotte's WBIDs**
Request ID: **RQ-2024-03-11-33**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: Nicole Reistad

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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 16-APR-2024 16:00



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: NIAGARA WTRWY CONWAY BLVD

Collection Date/Time: 03/27/2024 09:05

Field ID: G3SD0249

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2478001	DEP SOP: NU-094-1	Color (true)	27	A	PCU	P443457	
	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P443462	
	EPA 300.0 Rev. 2.1	Chloride	56		mg Cl/L	P443665	
		Sulfate	29		mg SO4/L	P443668	
	SM 2320 B-2011	Total Alkalinity	192		mg CaCO3/L	P443658	
	SM 2540 C-2015	TDS	366		mg/L	P443972	
	SM 2540 D-2015	TSS	2	I	mg/L	P443712	
	SM 4500-F- C-2011	Fluoride	0.38		mg F/L	P443678	
2478002	EPA 350.1 Rev. 2.0	Ammonia-N	0.037		mg N/L	P443576	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.92		mg N/L	P443514	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P443862	
	EPA 365.1 Rev. 2.0	Total-P	0.055		mg P/L	P443481	
	SM 5310 B-2014	Organic Carbon	10		mg C/L	P443671	

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

Sample Location: FB

Collection Date/Time: 03/27/2024 09:10

Field ID: FB_03272024

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2478007	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P443457	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P443462	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P444155	
		Sulfate	0.20	U	mg SO4/L	P443668	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P443658	
	SM 2540 C-2015	TDS	15	U	mg/L	P443972	
	SM 2540 D-2015	TSS	2	U	mg/L	P443712	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P443678	
2478008	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P443576	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P443514	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P443862	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P443481	
	SM 5310 B-2014	Organic Carbon	0.50	U	mg C/L	P443671	

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

Sample Location: COMO WATERWAY OHARA DR

Collection Date/Time: 03/27/2024 09:45

Field ID: G3SD0251

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2478003	DEP SOP: NU-094-1	Color (true)	41		PCU	P443457	
	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P443462	
	EPA 300.0 Rev. 2.1	Chloride	7.0E+03		mg Cl/L	P443665	
		Sulfate	1.0E+03		mg SO4/L	P443668	
	SM 2320 B-2011	Total Alkalinity	162		mg CaCO3/L	P443659	
	SM 2540 C-2015	TDS	1.19E+04		mg/L	P444031	
	SM 2540 D-2015	TSS	8	I	mg/L	P443907	
	SM 4500-F- C-2011	Fluoride	0.62		mg F/L	P444102	
2478005	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P443573	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.82		mg N/L	P443513	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P443590	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P443483	MS
	SM 5310 B-2014	Organic Carbon	11		mg C/L	P443564	

Sample Location: ZEPHYR WTRWY ST PAUL DR

Collection Date/Time: 03/27/2024 10:30

Field ID: G2SD0058

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2478004	DEP SOP: NU-094-1	Color (true)	33		PCU	P443457	
	EPA 180.1 Rev. 2.0	Turbidity	7.6		NTU	P443462	
	EPA 300.0 Rev. 2.1	Chloride	3.1E+03		mg Cl/L	P443882	
		Sulfate	430		mg SO4/L	P443668	
	SM 2320 B-2011	Total Alkalinity	156		mg CaCO3/L	P443659	
	SM 2540 C-2015	TDS	5.46E+03		mg/L	P443972	
	SM 2540 D-2015	TSS	12		mg/L	P443712	
	SM 4500-F- C-2011	Fluoride	0.33		mg F/L	P443927	
2478006	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P443573	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P443513	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P443590	
	EPA 365.1 Rev. 2.0	Total-P	0.045		mg P/L	P443483	MS
	SM 5310 B-2014	Organic Carbon	13		mg C/L	P443671	

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

Sample Location: GOTTFRIED CREEK AT DEER CREEK MOBILE HOME Collection Date/Time: 03/27/2024 11:10

Field ID: G2SD0028

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2478015	EPA 8270E	Aldrin	0.65	U	ng/L	P443543	CCV
		Alpha-BHC	0.10	UJ	ng/L	P443543	
		Alpha-Chlordane	0.20	U	ng/L	P443543	
		PCB-1016	2.0	U	ng/L	P443543	
		Beta-BHC	0.10	U	ng/L	P443543	
		PCB-1221	2.0	U	ng/L	P443543	
		Beta-Cyfluthrin	1.3	U	ng/L	P443543	
		PCB-1232	2.0	U	ng/L	P443543	
		Bifenthrin	0.50	U	ng/L	P443543	
		PCB-1242	2.0	U	ng/L	P443543	
		PCB-1248	2.0	U	ng/L	P443543	
		Chlorothalonil	3.6	U	ng/L	P443543	
		PCB-1254	2.0	U	ng/L	P443543	
		Cis-Nonachlor	0.20	U	ng/L	P443543	
		PCB-1260	2.0	U	ng/L	P443543	
		Cypermethrin	1.5	U	ng/L	P443543	
		Dacthal	0.15	U	ng/L	P443543	
		DDD-p,p'	0.25	U	ng/L	P443543	
		DDE-p,p'	0.20	U	ng/L	P443543	
		DDT-p,p'	0.82	I	ng/L	P443543	
		Delta-BHC	0.40	U	ng/L	P443543	
		Deltamethrin	1.3	U	ng/L	P443543	
		Dichlobenil	0.25	U	ng/L	P443543	
		Dicofol	1.3	U	ng/L	P443543	
		Dieldrin	0.40	U	ng/L	P443543	
		Endosulfan I	0.40	U	ng/L	P443543	
		Endosulfan II	0.91	U	ng/L	P443543	
		Endosulfan Sulfate	0.30	U	ng/L	P443543	
		Endrin	0.91	U	ng/L	P443543	
		Endrin Aldehyde	0.75	U	ng/L	P443543	
		Endrin Ketone	0.40	U	ng/L	P443543	
		Esfenvalerate	0.75	U	ng/L	P443543	
		Ethalfuralin	0.15	U	ng/L	P443543	
		Fenpropathrin	0.25	U	ng/L	P443543	
		Gamma-BHC	0.13	U	ng/L	P443543	
		Gamma-Chlordane	0.20	U	ng/L	P443543	
		Heptachlor	0.20	U	ng/L	P443543	
		Heptachlor Epoxide	0.25	U	ng/L	P443543	
		Hexachlorobenzene**	1.0	U	ng/L	P443543	
		Kepone	14	U	ng/L	P443543	
		Lambda-Cyhalothrin	0.75	U	ng/L	P443543	
		Methoprene	0.75	U	ng/L	P443543	
		Methoxychlor	0.30	U	ng/L	P443543	

Field ID: G2SD0028

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2478015	EPA 8270E	MGK-264	0.20	U	ng/L	P443543	
		Mirex	0.35	U	ng/L	P443543	
		Oxychlordane	0.30	U	ng/L	P443543	
		Permethrin	1.6	U	ng/L	P443543	
		Phenothrin	0.91	U	ng/L	P443543	
		Piperonyl Butoxide	0.15	U	ng/L	P443543	
		Prallethrin	2.0	U	ng/L	P443543	
		Tau-Fluvalinate	0.25	U	ng/L	P443543	
		Tetramethrin	0.75	U	ng/L	P443543	
		Trans-Nonachlor	0.20	U	ng/L	P443543	
		Triclosan Methyl	0.15	U	ng/L	P443543	
		Trifluralin	0.20	U	ng/L	P443543	
	EPA 8276	Chlordane	2.0	U	ng/L	P443543	
		Toxaphene	15	U	ng/L	P443543	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: BIG SLOUGH CANAL

Collection Date/Time: 03/27/2024 11:45

Field ID: G3SD0161

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2478019	EPA 8321B	2,4-D	0.14		ug/L	P443301	
		Acesulfame K	0.10	U	ug/L	P443330	
		2,4,5-T	0.0040	U	ug/L	P443301	
		AMPA	0.61		ug/L	P443330	
		Acetaminophen	0.0080	U	ug/L	P443301	
		Acetamiprid	0.0020	U	ug/L	P443301	
		Endothall	0.25	U	ug/L	P443330	
		Glufosinate	0.10	U	ug/L	P443330	
		Glyphosate	1.3		ug/L	P443330	
		Afidopyropen	0.0020	U	ug/L	P443301	RPD
		Bentazon	0.0066		ug/L	P443301	
		Sucralose	0.94		ug/L	P443330	
		Benzovindiflupyr	0.0020	U	ug/L	P443301	
		Carbamazepine	0.0029	I	ug/L	P443301	
		Clothianidin	0.0020	U	ug/L	P443301	
		Dinotefuran	0.0079	I	ug/L	P443301	
		Diuron	0.0037	I	ug/L	P443301	
		Fenuron	0.032	U	ug/L	P443301	
		Fluridone	0.0067		ug/L	P443301	
		Imazapyr	0.062		ug/L	P443301	
		Hydrocodone	0.0020	U	ug/L	P443301	
		Ibuprofen	0.080	U	ug/L	P443301	
		Imidacloprid	0.0071	I	ug/L	P443301	
		Linuron	0.0040	U	ug/L	P443301	
		Mandestrobin	0.0020	U	ug/L	P443301	
		MCPP	0.0020	U	ug/L	P443301	
		Naproxen	0.0080	U	ug/L	P443301	
		Primidone	0.0048	I	ug/L	P443301	
		Pyraclostrobin	0.0020	U	ug/L	P443301	
		Silvex	0.0040	U	ug/L	P443301	
		Thiamethoxam	0.0020	U	ug/L	P443301	
		Tolfenpyrad	0.0020	U	ug/L	P443301	
		Triclopyr	0.0040	U	ug/L	P443301	
2478020	EPA 200.7 Rev. 4.4	Calcium	102		mg/L	P443504	
		Iron	410		ug/L	P443504	
		Magnesium	31.6		mg/L	P443504	
		Potassium	7.4		mg/L	P443504	
		Sodium	180		mg/L	P443504	
		Strontium	2.38E+03		ug/L	P443504	
		Tin	3.0	U	ug/L	P443504	
		Titanium	1.4	I	ug/L	P443504	
		Vanadium	2.0	U	ug/L	P443504	
		Zinc	5.0	U	ug/L	P443504	
	EPA 200.8 Rev. 5.4	Aluminum	30		ug/L	P443504	

Field ID: G3SD0161

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2478020	EPA 200.8 Rev. 5.4	Antimony	0.17	I	ug/L	P443504	
		Arsenic	1.44		ug/L	P443504	
		Barium	22.2		ug/L	P443504	
		Beryllium	0.010	U	ug/L	P443504	
		Boron	99.1		ug/L	P443504	
		Cadmium	0.020	U	ug/L	P443504	
		Chromium	0.57	I	ug/L	P443504	
		Cobalt	0.108		ug/L	P443504	
		Copper	0.52	I	ug/L	P443504	
		Lead	0.20	U	ug/L	P443504	
		Manganese	12.4		ug/L	P443504	
		Molybdenum	3.00		ug/L	P443504	
		Nickel	0.82	I	ug/L	P443504	
		Selenium	0.20	U	ug/L	P443504	
		Silver	0.010	U	ug/L	P443504	
	SM 2340 B-2011	Thallium	0.10	U	ug/L	P443504	
		Hardness	386		mg/L	P443504	

Sample Location: BIG SLOUGH AT BUTLER PARK

Collection Date/Time: 03/27/2024 12:15

Field ID: G3SD0168

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2478021	EPA 200.7 Rev. 4.4	Calcium	79.0		mg/L	P443504	
		Iron	860		ug/L	P443504	
		Magnesium	18.1		mg/L	P443504	
		Potassium	3.6		mg/L	P443504	
		Sodium	42.9		mg/L	P443504	
		Strontium	1.17E+03		ug/L	P443504	
		Tin	3.0	U	ug/L	P443504	
		Titanium	1.4	I	ug/L	P443504	
		Vanadium	2.0	U	ug/L	P443504	
		Zinc	19	I	ug/L	P443504	
	EPA 200.8 Rev. 5.4	Aluminum	201		ug/L	P443504	
		Antimony	0.097	I	ug/L	P443504	
		Arsenic	1.45		ug/L	P443504	
		Barium	18.6		ug/L	P443504	
		Beryllium	0.017	I	ug/L	P443504	
		Boron	44.2		ug/L	P443504	
		Cadmium	0.020	U	ug/L	P443504	
		Chromium	1.1	I	ug/L	P443504	
		Cobalt	0.177		ug/L	P443504	
		Copper	0.44	I	ug/L	P443504	
		Lead	0.20	U	ug/L	P443504	
		Manganese	14.4		ug/L	P443504	
		Molybdenum	1.30		ug/L	P443504	
		Nickel	0.86	I	ug/L	P443504	
		Selenium	0.20	U	ug/L	P443504	
		Silver	0.010	U	ug/L	P443504	
		Thallium	0.10	U	ug/L	P443504	
	SM 2340 B-2011	Hardness	272		mg/L	P443504	

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P443457

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P443462

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P443504

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: P443504

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: P443665

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: P443668

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443882

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444155

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443573

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443576

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443513

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443514

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443590

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443862

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443481

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443483

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

Reference Method: EPA 8270E
Batch ID: P443543

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P443543

Component	Result	Code	Units
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P443543

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P443301

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P443301

Component	Result	Code	Units
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P443330

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: SM 2320 B-2011
Batch ID: P443658

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

Reference Method: SM 2320 B-2011
Batch ID: P443659

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

Reference Method: SM 2540 C-2015
Batch ID: P443972

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P444031

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P443712

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P443907

Component	Result	Code	Units
TSS	3	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P443678

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P443927

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P444102

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P443564

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-2014
Batch ID: P443671

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: P443457

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P443462

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P443504

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	98.6		P	85 - 115
Iron	107		P	85 - 115
Magnesium	108		P	85 - 115
Potassium	103		P	85 - 115
Sodium	96.9		P	85 - 115
Strontium	101		P	85 - 115
Tin	98.4		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	96.8		P	85 - 115
Zinc	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P443504

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	105		P	85 - 115
Arsenic	106		P	85 - 115
Barium	105		P	85 - 115
Beryllium	102		P	85 - 115
Boron	107		P	85 - 115
Cadmium	104		P	85 - 115
Chromium	105		P	85 - 115
Cobalt	103		P	85 - 115
Copper	104		P	85 - 115
Lead	103		P	85 - 115
Manganese	102		P	85 - 115
Molybdenum	103		P	85 - 115
Nickel	104		P	85 - 115
Selenium	104		P	85 - 115
Silver	105		P	85 - 115
Thallium	100		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443665

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443668

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443882

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444155

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443573

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443576

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443513

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443514

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443590

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443862

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443481

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443483

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

Reference Method: EPA 8270E
Batch ID: P443543

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	63.5		P	30 - 96.0
Alpha-BHC	82.0		P	70 - 109
Alpha-Chlordane	75.0		P	45 - 107
Beta-BHC	119		P	64 - 138
Beta-Cyfluthrin	72.7		P	17 - 141
Bifenthrin	63.8		P	10 - 113
Chlorothalonil	102		P	26 - 180
Cis-Nonachlor	89.3		P	37 - 102
Cypermethrin	84.8		P	20 - 133
Dacthal	103		P	69 - 114
DDD-p,p'	89.3		P	42 - 105
DDE-p,p'	87.7		P	42 - 106
DDT-p,p'	99.2		P	42 - 107
Delta-BHC	123		P	67 - 144
Deltamethrin	79.3		P	15 - 149
Dichlobenil	75.8		P	46 - 117
Dicofol	82.0		P	34 - 114
Dieldrin	89.6		P	50 - 108
Endosulfan I	81.2		P	55 - 104
Endosulfan II	85.3		P	51 - 111
Endosulfan Sulfate	97.9		P	56 - 121
Endrin	89.0		P	10 - 106
Endrin Aldehyde	89.6		P	34 - 114
Endrin Ketone	109		P	63 - 177
Esfenvalerate	74.7		P	29 - 143
Ethalfuralin	83.8		P	46 - 96.0
Fenpropathrin	86.5		P	28 - 115
Gamma-BHC	120		P	65 - 121
Gamma-Chlordane	86.6		P	39 - 103
Heptachlor	75.1		P	39 - 94.0
Heptachlor Epoxide	83.6		P	54 - 104
Hexachlorobenzene	61.7		P	36 - 100
Kepone	137		P	10 - 225
Lambda-Cyhalothrin	71.3		P	10 - 135
Methoprene	62.5		P	10 - 109
Methoxychlor	109		P	52 - 112
MGK-264	77.5		P	44 - 117
Mirex	62.0		P	20 - 90.0
Oxychlordane	86.2		P	44 - 102
PCB-1016	86.1		P	45 - 107

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P443543

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PCB-1260	82.2		P	40 - 118
Permethrin	69.0		P	18 - 135
Phenothrin	49.6		P	10 - 102
Piperonyl Butoxide	106		P	28 - 156
Prallethrin	64.1		P	28 - 113
Tau-Fluvalinate	58.4		P	10 - 123
Tetramethrin	89.1		P	18 - 158
Trans-Nonachlor	95.8		P	39 - 104
Triclosan Methyl	89.6		P	54 - 108
Trifluralin	85.5		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P443543

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	90.7		P	52 - 117
Toxaphene	89.9		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P443301

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	108		P	40 - 150
2,4,5-T	107		P	40 - 150
Acetaminophen	92.5		P	30 - 150
Acetamiprid	87.8		P	40 - 150
Afidopyropen	67.5		P	30 - 150
Bentazon	100		P	30 - 150
Benzovindiflupyr	86.0		P	40 - 150
Carbamazepine	86.7		P	40 - 150
Clothianidin	98.7		P	40 - 150
Dinotefuran	102		P	40 - 150
Diuron	94.1		P	40 - 150
Fenuron	93.1		P	40 - 150
Fluridone	93.5		P	40 - 150
Hydrocodone	99.6		P	40 - 150
Ibuprofen	83.0		P	40 - 150
Imazapyr	93.1		P	40 - 150
Imidacloprid	91.1		P	40 - 150
Linuron	92.2		P	40 - 150
Mandestrobin	96.3		P	40 - 150
MCPP	108		P	40 - 150
Naproxen	77.4		P	40 - 150
Primidone	81.9		P	40 - 150
Pyraclostrobin	80.2		P	40 - 150
Silvex	92.2		P	40 - 150
Thiamethoxam	98.4		P	40 - 150
Tolfenpyrad	51.6		P	30 - 150
Triclopyr	116		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P443330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	105		P	40 - 150
AMPA	118		P	40 - 160
Endothall	104		P	40 - 160
Glufosinate	122		P	40 - 160
Glyphosate	122		P	40 - 160
Sucralose	101		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P443658

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P443659

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.8		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P443972

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	101		P	85 - 115

Reference Method: SM 2540 C-2015
Batch ID: P444031

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	108		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P443712

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	101		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P443907

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	108		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P443678

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P443927

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

Reference Method: SM 4500-F- C-2011
Batch ID: P444102

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.3		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P443564

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

Reference Method: SM 5310 B-2014
Batch ID: P443671

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P443504

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477987	Calcium	97.0		P	80 - 120
2477987	Iron	104	104	P/P	80 - 120
2477987	Magnesium	103	104	P/P	80 - 120
2477987	Potassium	96.4	98.2	P/P	80 - 120
2477987	Sodium	98.2		P	80 - 120
2477987	Strontium	96.0	96.1	P/P	80 - 120
2477987	Tin	94.4	95.9	P/P	80 - 120
2477987	Titanium	98.2	99.3	P/P	80 - 120
2477987	Vanadium	97.0	97.3	P/P	80 - 120
2477987	Zinc	103	104	P/P	80 - 120
2478119	Calcium	100		P	80 - 120
2478119	Iron	104		P	80 - 120
2478119	Magnesium	104		P	80 - 120
2478119	Potassium	99.5		P	80 - 120
2478119	Sodium	98.4		P	80 - 120
2478119	Strontium	96.0		P	80 - 120
2478119	Tin	94.8		P	80 - 120
2478119	Titanium	98.9		P	80 - 120
2478119	Vanadium	99.9		P	80 - 120
2478119	Zinc	105		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P443504

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477987	Aluminum	100	102	P/P	80 - 120
2477987	Antimony	103	105	P/P	80 - 120
2477987	Arsenic	103	106	P/P	80 - 120
2477987	Barium	104	106	P/P	80 - 120
2477987	Beryllium	97.8	104	P/P	80 - 120
2477987	Boron	103	107	P/P	80 - 120
2477987	Cadmium	102	107	P/P	80 - 120
2477987	Chromium	103	106	P/P	80 - 120
2477987	Cobalt	100	102	P/P	80 - 120
2477987	Copper	101	103	P/P	80 - 120
2477987	Lead	101	103	P/P	80 - 120
2477987	Manganese	101	104	P/P	80 - 120
2477987	Molybdenum	103	105	P/P	80 - 120
2477987	Nickel	103	104	P/P	80 - 120
2477987	Selenium	102	103	P/P	80 - 120
2477987	Silver	102	103	P/P	80 - 120
2477987	Thallium	99.6	102	P/P	80 - 120
2478119	Aluminum	100		P	80 - 120
2478119	Antimony	104		P	80 - 120
2478119	Arsenic	104		P	80 - 120
2478119	Barium	104		P	80 - 120
2478119	Beryllium	103		P	80 - 120
2478119	Boron	108		P	80 - 120
2478119	Cadmium	104		P	80 - 120
2478119	Chromium	103		P	80 - 120
2478119	Cobalt	100		P	80 - 120
2478119	Copper	101		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P443504

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2478119	Lead	105		P	80 - 120
2478119	Manganese	101		P	80 - 120
2478119	Molybdenum	103		P	80 - 120
2478119	Nickel	101		P	80 - 120
2478119	Selenium	97.6		P	80 - 120
2478119	Silver	100		P	80 - 120
2478119	Thallium	102		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443665

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477883	Chloride	106		P	90 - 110
2477966	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443668

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477883	Sulfate	103		P	90 - 110
2477966	Sulfate	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443882

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2478815	Chloride	102		P	90 - 110
2478981	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444155

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2478229	Chloride	95.2		P	90 - 110
2478248	Chloride	95.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443573

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476854	Ammonia-N	98.6	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443576

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477975	Ammonia-N	98.2	99.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443513

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443513

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477874	Kjeldahl Nitrogen	90.9	95.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443514

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2478002	Kjeldahl Nitrogen	99.8	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443590

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2478005	NO2NO3-N	94.4	95.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443862

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477957	NO2NO3-N	98.0	97.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443481

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2478041	Total-P	99.0	92.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443483

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2478180	Total-P	93.4	88.2	P/F	90 - 110

Reference Method: EPA 8270E
Batch ID: P443543

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477927	Aldrin	79.4	75.3	P/P	24 - 81.0
2477927	Alpha-BHC	72.9	77.6	P/P	65 - 110
2477927	Alpha-Chlordane	91.9	78.7	P/P	43 - 119
2477927	Beta-BHC	129	103	P/P	54 - 165
2477927	Beta-Cyfluthrin	107	111	P/P	27 - 165
2477927	Bifenthrin	97.4	108	P/P	17 - 117
2477927	Chlorothalonil	135	127	P/P	10 - 255
2477927	Cis-Nonachlor	74.0	82.1	P/P	34 - 98.0
2477927	Cypermethrin	109	117	P/P	25 - 143
2477927	Dacthal	103	93.6	P/P	55 - 139
2477927	DDD-p,p'	83.1	88.2	P/P	30 - 109
2477927	DDE-p,p'	87.8	74.6	P/P	35 - 106
2477927	DDT-p,p'	90.4	81.2	P/P	41 - 101
2477927	Delta-BHC	144	112	P/P	58 - 165
2477927	Deltamethrin	133	130	P/P	10 - 194
2477927	Dichlobenil	72.4	78.3	P/P	22 - 114

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P443543

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477927	Dicofol	82.7	77.9	P/P	17 - 133
2477927	Dieldrin	93.6	80.8	P/P	45 - 129
2477927	Endosulfan I	101	82.4	P/P	49 - 104
2477927	Endosulfan II	103	81.9	P/P	37 - 117
2477927	Endosulfan Sulfate	102	95.4	P/P	38 - 128
2477927	Endrin	94.6	81.9	P/P	35 - 116
2477927	Endrin Aldehyde	60.9	70.3	P/P	19 - 108
2477927	Endrin Ketone	111	95.9	P/P	44 - 134
2477927	Esfenvalerate	112	125	P/P	27 - 176
2477927	Ethalfuralin	86.4	92.9	P/P	49 - 100
2477927	Fenpropathrin	98.0	95.2	P/P	34 - 117
2477927	Gamma-BHC	111	97.5	P/P	59 - 129
2477927	Gamma-Chlordane	92.5	82.9	P/P	33 - 107
2477927	Heptachlor	79.1	74.2	P/P	37 - 94.0
2477927	Heptachlor Epoxide	98.6	78.0	P/P	38 - 118
2477927	Hexachlorobenzene	73.0	67.5	P/P	35 - 97.0
2477927	Kepone	135	133	P/P	10 - 221
2477927	Lambda-Cyhalothrin	96.5	105	P/P	23 - 190
2477927	Methoprene	84.5	69.6	P/P	21 - 109
2477927	Methoxychlor	105	98.3	P/P	46 - 118
2477927	MGK-264	102	84.5	P/P	39 - 122
2477927	Mirex	76.6	65.0	P/P	25 - 90.0
2477927	Oxychlordane	98.0	80.5	P/P	42 - 100
2477927	Permethrin	102	111	P/P	33 - 181
2477927	Phenothrin	92.1	99.7	P/P	12 - 125
2477927	Piperonyl Butoxide	112	107	P/P	10 - 178
2477927	Prallethrin	94.1	78.2	P/P	24 - 122
2477927	Tau-Fluvalinate	106	109	P/P	13 - 151
2477927	Tetramethrin	108	114	P/P	16 - 172
2477927	Trans-Nonachlor	94.4	85.3	P/P	39 - 100
2477927	Triclosan Methyl	89.6	77.9	P/P	43 - 110
2477927	Trifluralin	83.2	79.8	P/P	45 - 94.0
2478407	PCB-1016	81.6	74.8	P/P	45 - 107
2478407	PCB-1260	77.9	64.6	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P443543

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2478407	Chlordane	77.1	69.0	P/P	43 - 123
2478407	Toxaphene	77.9	66.6	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P443301

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477584	2,4-D	87.0	97.8	P/P	40 - 150
2477584	2,4,5-T	90.4	91.9	P/P	40 - 150
2477584	Acetaminophen	98.2	98.3	P/P	30 - 150
2477584	Acetamiprid	61.8	58.5	P/P	40 - 150
2477584	Afidopyropen	56.0	38.9	P/P	30 - 150
2477584	Bentazon	44.1	50.4	P/P	30 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P443301

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477584	Benzovindiflupyr	77.4	83.4	P/P	40 - 150
2477584	Carbamazepine	63.4	62.6	P/P	40 - 150
2477584	Clothianidin	89.9	93.3	P/P	40 - 150
2477584	Dinotefuran	82.5	86.5	P/P	40 - 150
2477584	Diuron	67.5	64.6	P/P	40 - 150
2477584	Fenuron	61.6	63.8	P/P	40 - 150
2477584	Fluridone	74.7	74.1	P/P	40 - 150
2477584	Hydrocodone	73.7	77.7	P/P	40 - 150
2477584	Ibuprofen	81.3	71.6	P/P	40 - 150
2477584	Imazapyr	102	109	P/P	40 - 150
2477584	Imidacloprid	108	113	P/P	40 - 150
2477584	Linuron	69.3	72.7	P/P	40 - 150
2477584	Mandestrobin	85.6	88.9	P/P	40 - 150
2477584	MCPP	90.4	97.0	P/P	40 - 150
2477584	Naproxen	84.0	75.8	P/P	40 - 150
2477584	Primidone	79.0	84.2	P/P	40 - 150
2477584	Pyraclostrobin	76.1	83.0	P/P	40 - 150
2477584	Silvex	76.2	86.2	P/P	40 - 150
2477584	Thiamethoxam	88.7	90.9	P/P	40 - 150
2477584	Tolfenpyrad	49.4	55.6	P/P	30 - 150
2477584	Triclopyr	80.5	93.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P443330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477584	Acesulfame K	122	131	P/P	40 - 150
2477584	AMPA	101	99.3	P/P	40 - 160
2477584	Endothall	102	105	P/P	40 - 160
2477584	Glufosinate	110	114	P/P	40 - 160
2477584	Glyphosate	110	108	P/P	40 - 160
2477584	Sucralose	103	103	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P443678

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477968	Fluoride	105	105	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P443927

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2479215	Fluoride	105	104	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P444102

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2478055	Fluoride	101	103	P/P	94 - 106

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2014
Batch ID: P443564

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477263	Organic Carbon	95.4	94.0	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P443671

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2478002	Organic Carbon	97.6	99.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P443457

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478001	Color (true)	7.05	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P443462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477969	Turbidity	7.48	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P443504

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477987	Calcium	0.0150	Spike	P	0 - 20
2477987	Iron	0.542	Spike	P	0 - 20
2477987	Magnesium	0.211	Spike	P	0 - 20
2477987	Potassium	1.51	Spike	P	0 - 20
2477987	Sodium	1.05	Spike	P	0 - 20
2477987	Strontium	0.139	Spike	P	0 - 20
2477987	Tin	1.64	Spike	P	0 - 20
2477987	Titanium	0.990	Spike	P	0 - 20
2477987	Vanadium	0.212	Spike	P	0 - 20
2477987	Zinc	0.378	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P443504

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477987	Aluminum	1.09	Spike	P	0 - 20
2477987	Antimony	2.53	Spike	P	0 - 20
2477987	Arsenic	2.68	Spike	P	0 - 20
2477987	Barium	1.46	Spike	P	0 - 20
2477987	Beryllium	6.64	Spike	P	0 - 20
2477987	Boron	3.01	Spike	P	0 - 20
2477987	Cadmium	4.12	Spike	P	0 - 20
2477987	Chromium	2.66	Spike	P	0 - 20
2477987	Cobalt	2.05	Spike	P	0 - 20
2477987	Copper	1.84	Spike	P	0 - 20
2477987	Lead	1.74	Spike	P	0 - 20
2477987	Manganese	2.95	Spike	P	0 - 20
2477987	Molybdenum	2.20	Spike	P	0 - 20
2477987	Nickel	1.37	Spike	P	0 - 20
2477987	Selenium	1.07	Spike	P	0 - 20
2477987	Silver	1.51	Spike	P	0 - 20
2477987	Thallium	2.13	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443665

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477883	Chloride	0.848	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477883	Sulfate	0.544	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443882

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478815	Chloride	2.58	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P444155

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478229	Chloride	2.54	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443573

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476854	Ammonia-N	1.39	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477975	Ammonia-N	1.21	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443513

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477874	Kjeldahl Nitrogen	3.87	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443514

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478002	Kjeldahl Nitrogen	1.72	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478005	NO2NO3-N	1.53	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477957	NO2NO3-N	0.344	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478041	Total-P	3.59	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443483

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478180	Total-P	5.76	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P443543

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477927	Aldrin	5.32	Spike	P	0 - 41
2477927	Alpha-BHC	6.22	Spike	P	0 - 25
2477927	Alpha-Chlordane	15.5	Spike	P	0 - 32
2477927	Beta-BHC	22.6	Spike	P	0 - 33
2477927	Beta-Cyfluthrin	3.56	Spike	P	0 - 43
2477927	Bifenthrin	10.3	Spike	P	0 - 52
2477927	Chlorothalonil	5.80	Spike	P	0 - 82
2477927	Cis-Nonachlor	10.4	Spike	P	0 - 33
2477927	Cypermethrin	7.02	Spike	P	0 - 51
2477927	Dacthal	9.20	Spike	P	0 - 27
2477927	DDD-p,p'	5.94	Spike	P	0 - 39
2477927	DDE-p,p'	16.3	Spike	P	0 - 31
2477927	DDT-p,p'	8.45	Spike	P	0 - 29
2477927	Delta-BHC	24.8	Spike	P	0 - 35
2477927	Deltamethrin	2.56	Spike	P	0 - 100
2477927	Dichlobenil	7.89	Spike	P	0 - 40
2477927	Dicofol	6.01	Spike	P	0 - 37
2477927	Dieldrin	14.6	Spike	P	0 - 27
2477927	Endosulfan I	20.1	Spike	P	0 - 23
2477927	Endosulfan II	23.1	Spike	P	0 - 34
2477927	Endosulfan Sulfate	7.16	Spike	P	0 - 36
2477927	Endrin	14.4	Spike	P	0 - 45
2477927	Endrin Aldehyde	14.4	Spike	P	0 - 76

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P443543

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477927	Endrin Ketone	15.0	Spike	P	0 - 43
2477927	Esfenvalerate	10.9	Spike	P	0 - 51
2477927	Ethalfuralin	7.26	Spike	P	0 - 22
2477927	Fenpropathrin	2.86	Spike	P	0 - 49
2477927	Gamma-BHC	13.0	Spike	P	0 - 28
2477927	Gamma-Chlordane	10.9	Spike	P	0 - 40
2477927	Heptachlor	6.38	Spike	P	0 - 29
2477927	Heptachlor Epoxide	23.4	Spike	P	0 - 33
2477927	Hexachlorobenzene	7.82	Spike	P	0 - 36
2477927	Kepone	1.24	Spike	P	0 - 85
2477927	Lambda-Cyhalothrin	7.98	Spike	P	0 - 55
2477927	Methoprene	19.4	Spike	P	0 - 53
2477927	Methoxychlor	6.51	Spike	P	0 - 50
2477927	MGK-264	18.3	Spike	P	0 - 43
2477927	Mirex	16.4	Spike	P	0 - 40
2477927	Oxychlordane	19.6	Spike	P	0 - 31
2477927	Permethrin	8.09	Spike	P	0 - 50
2477927	Phenothrin	7.91	Spike	P	0 - 58
2477927	Piperonyl Butoxide	4.40	Spike	P	0 - 100
2477927	Prallethrin	18.4	Spike	P	0 - 39
2477927	Tau-Fluvalinate	2.47	Spike	P	0 - 54
2477927	Tetramethrin	5.58	Spike	P	0 - 51
2477927	Trans-Nonachlor	10.2	Spike	P	0 - 39
2477927	Triclosan Methyl	13.9	Spike	P	0 - 31
2477927	Trifluralin	4.12	Spike	P	0 - 22
2478407	PCB-1016	8.65	Spike	P	0 - 25
2478407	PCB-1260	18.8	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P443543

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478407	Chlordane	11.1	Spike	P	0 - 28
2478407	Toxaphene	15.6	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P443301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477584	2,4-D	11.1	Spike	P	0 - 30
2477584	2,4,5-T	1.58	Spike	P	0 - 30
2477584	Acetaminophen	0.0602	Spike	P	0 - 30
2477584	Acetamiprid	5.42	Spike	P	0 - 30
2477584	Afidopyropen	35.9	Spike	F	0 - 30
2477584	Bentazon	6.24	Spike	P	0 - 30
2477584	Benzovindiflupyr	7.49	Spike	P	0 - 30
2477584	Carbamazepine	1.28	Spike	P	0 - 30
2477584	Clothianidin	3.69	Spike	P	0 - 30
2477584	Dinotefuran	4.67	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P443301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477584	Diuron	4.37	Spike	P	0 - 30
2477584	Fenuron	3.50	Spike	P	0 - 30
2477584	Fluridone	0.646	Spike	P	0 - 30
2477584	Hydrocodone	5.20	Spike	P	0 - 30
2477584	Ibuprofen	12.7	Spike	P	0 - 30
2477584	Imazapyr	4.81	Spike	P	0 - 30
2477584	Imidacloprid	4.65	Spike	P	0 - 30
2477584	Linuron	4.78	Spike	P	0 - 30
2477584	Mandestrobin	3.83	Spike	P	0 - 30
2477584	MCPPP	7.00	Spike	P	0 - 30
2477584	Naproxen	10.2	Spike	P	0 - 30
2477584	Primidone	6.38	Spike	P	0 - 30
2477584	Pyraclostrobin	8.65	Spike	P	0 - 30
2477584	Silvex	12.4	Spike	P	0 - 30
2477584	Thiamethoxam	2.52	Spike	P	0 - 30
2477584	Tolfenpyrad	11.8	Spike	P	0 - 30
2477584	Triclopyr	14.3	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P443330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477584	Acesulfame K	7.18	Spike	P	0 - 30
2477584	AMPA	1.28	Spike	P	0 - 30
2477584	Endothall	3.03	Spike	P	0 - 30
2477584	Glufosinate	3.34	Spike	P	0 - 30
2477584	Glyphosate	1.60	Spike	P	0 - 30
2477584	Sucralose	0.182	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P443658

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477968	Total Alkalinity	2.82	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P443659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478057	Total Alkalinity	1.40	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P443972

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477966	TDS	2.65	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P444031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478244	TDS	4.03	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P443907

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478130	TSS	8.70	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P443678

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477968	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P443927

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2479215	Fluoride	1.10	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P444102

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478055	Fluoride	0.967	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P443564

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477263	Organic Carbon	1.10	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P443671

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478002	Organic Carbon	1.62	Spike	P	0 - 15

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

Quality Assurance Report

Surrogates

Lab Sample ID: 2478015

Field Sample ID: G2SD0028

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	60.3	P	37 - 129
EPA 8270E	Decachlorobiphenyl	73.0	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	41.8	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	43.0	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	32.1	P	23 - 110
EPA 8276	PCNB	75.6	P	51 - 130

Lab Sample ID: 2478019

Field Sample ID: G3SD0161

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	94.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.7	P	30 - 160
EPA 8321B	Diuron-d6	70.1	P	30 - 160
EPA 8321B	Endothall-d6	109	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	106	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.6	P	30 - 160
EPA 8321B	Primidone-d5	79.1	P	30 - 160
EPA 8321B	Sucralose-d6	81.1	P	30 - 160

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A125048
Included Lab Sample IDs: 2478001, 2478003, 2478004, 2478007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	92.8	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A125050
Included Lab Sample IDs: 2478001, 2478003, 2478004, 2478007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	98.5	P/P	95 - 105
Turbidity	98.5	98.0	P/P	95 - 105

Reference Method: EPA 8321B
Run ID: A125055
Included Lab Sample IDs: 2478019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	112	117	P/P	60 - 160
Endothall	99.3	101	P/P	60 - 160
Glufosinate	117	118	P/P	60 - 160
Glyphosate	122	125	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A125080
Included Lab Sample IDs: 2478019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	126	133	P/P	60 - 160
Sucralose	104	100	P/P	60 - 160

Reference Method: SM 5310 B-2014
Run ID: A125084
Included Lab Sample IDs: 2478005

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	124	100	P/P	70 - 130

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A125088
Included Lab Sample IDs: 2478002, 2478005

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	101	P/P	90 - 110
Total-P	99.8	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A125090
Included Lab Sample IDs: 2478002, 2478005, 2478006, 2478008

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	98.4	P/P	90 - 110
Ammonia-N	99.1	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A125094

Included Lab Sample IDs: 2478020, 2478021

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	99.8	P/P	90 - 110
Iron	99.9	101	P/P	90 - 110
Magnesium	99.7	100	P/P	90 - 110
Potassium	99.2	99.2	P/P	90 - 110
Sodium	97.8	97.7	P/P	90 - 110
Strontium	101	101	P/P	90 - 110
Tin	99.0	99.1	P/P	90 - 110
Titanium	98.6	98.8	P/P	90 - 110
Vanadium	98.8	96.4	P/P	90 - 110
Zinc	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A125096

Included Lab Sample IDs: 2478005, 2478006

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A125102

Included Lab Sample IDs: 2478006, 2478008

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	101	P/P	90 - 110
Total-P	99.5	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A125107

Included Lab Sample IDs: 2478002, 2478005, 2478006, 2478008

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	101	P/P	90 - 110
Kjeldahl Nitrogen	105	103	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A125126

Included Lab Sample IDs: 2478001, 2478003, 2478004, 2478007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	96.0	P/P	90 - 110
Total Alkalinity	96.0	98.9	P/P	90 - 110
Total Alkalinity	98.3	98.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A125126

Included Lab Sample IDs: 2478001, 2478007

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A125129

Included Lab Sample IDs: 2478001, 2478003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.3	97.7	P/P	90 - 110
Sulfate	98.3	99.2	P/P	90 - 110

Reference Method: SM 5310 B-2014

Run ID: A125130

Included Lab Sample IDs: 2478002, 2478006, 2478008

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	99.9	P/P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A125131

Included Lab Sample IDs: 2478020, 2478021

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	95.8	98.3	P/P	90 - 110
Antimony	97.4	97.7	P/P	90 - 110
Arsenic	100	99.1	P/P	90 - 110
Barium	98.6	98.5	P/P	90 - 110
Beryllium	97.3	97.0	P/P	90 - 110
Boron	103	106	P/P	90 - 110
Cadmium	97.8	98.3	P/P	90 - 110
Chromium	97.6	98.8	P/P	90 - 110
Cobalt	97.7	97.5	P/P	90 - 110
Copper	98.7	98.3	P/P	90 - 110
Lead	98.6	99.4	P/P	90 - 110
Manganese	93.4	92.8	P/P	90 - 110
Molybdenum	99.5	98.9	P/P	90 - 110
Nickel	98.6	98.4	P/P	90 - 110
Selenium	98.4	97.3	P/P	90 - 110
Silver	98.3	98.4	P/P	90 - 110
Thallium	99.7	100	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A125179

Included Lab Sample IDs: 2478004

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A125197

Included Lab Sample IDs: 2478002, 2478008

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	106	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A125202
Included Lab Sample IDs: 2478015

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	109		P	80 - 120
PCB-1260	96.5		P	80 - 120

Reference Method: EPA 8276
Run ID: A125204
Included Lab Sample IDs: 2478015

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	100		P	80 - 120
Toxaphene	99.0		P	80 - 120

Reference Method: EPA 8270E
Run ID: A125205
Included Lab Sample IDs: 2478015

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	79.0*		F	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	95.1		P	80 - 120
Bifenthrin	102		P	80 - 120
Chlorothalonil	112		P	80 - 120
Cis-Nonachlor	105		P	80 - 120
Cypermethrin	98.2		P	80 - 120
Dacthal	102		P	80 - 120
DDD-p,p'	105		P	80 - 120
DDE-p,p'	106		P	80 - 120
DDT-p,p'	105		P	80 - 120
Delta-BHC	103		P	80 - 120
Deltamethrin	93.5		P	80 - 120
Dichlobenil	97.7		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	106		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	99.6		P	80 - 120
Endosulfan Sulfate	101		P	80 - 120
Endrin	106		P	80 - 120
Endrin Aldehyde	99.1		P	80 - 120
Endrin Ketone	103		P	80 - 120
Esfenvalerate	92.9		P	80 - 120
Ethalfuralin	105		P	80 - 120
Fenpropathrin	106		P	80 - 120
Gamma-BHC	111		P	80 - 120
Gamma-Chlordane	99.5		P	80 - 120
Heptachlor	106		P	80 - 120
Heptachlor Epoxide	105		P	80 - 120
Hexachlorobenzene	95.5		P	80 - 120
Kepone	88.5		P	80 - 120
Lambda-Cyhalothrin	96.5		P	80 - 120
Methoprene	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A125205
Included Lab Sample IDs: 2478015

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoxychlor	107		P	80 - 120
MGK-264	101		P	80 - 120
Mirex	95.9		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	95.3		P	80 - 120
Phenothrin	91.3		P	80 - 120
Piperonyl Butoxide	104		P	80 - 120
Prallethrin	98.3		P	80 - 120
Tau-Fluvalinate	92.4		P	80 - 120
Tetramethrin	97.2		P	80 - 120
Trans-Nonachlor	102		P	80 - 120
Triclosan Methyl	103		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: SM 4500-F- C-2011
Run ID: A125214
Included Lab Sample IDs: 2478004

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

Reference Method: EPA 8321B
Run ID: A125230
Included Lab Sample IDs: 2478019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	110	104	P/P	50 - 150
2,4,5-T	110	99.1	P/P	50 - 150
Acetaminophen	108	105	P/P	60 - 160
Acetamiprid	111	111	P/P	50 - 150
Afidopyropen	96.7	98.0	P/P	50 - 150
Bentazon	103	106	P/P	50 - 160
Benzovindiflupyr	104	100	P/P	50 - 150
Carbamazepine	102	107	P/P	60 - 150
Clothianidin	111	110	P/P	60 - 150
Dinotefuran	112	110	P/P	50 - 150
Diuron	109	115	P/P	60 - 160
Fenuron	105	106	P/P	60 - 150
Fluridone	108	108	P/P	60 - 160
Hydrocodone	113	114	P/P	60 - 150
Ibuprofen	73.6	76.4	P/P	50 - 160
Imazapyr	97.6	102	P/P	50 - 150
Imidacloprid	96.7	101	P/P	60 - 150
Linuron	97.4	105	P/P	60 - 150
Mandestrobin	109	102	P/P	50 - 150
MCPP	120	111	P/P	50 - 150
Naproxen	111	82.4	P/P	50 - 160
Primidone	95.6	89.1	P/P	60 - 150
Pyraclostrobin	101	104	P/P	60 - 150
Silvex	110	112	P/P	50 - 150
Thiamethoxam	109	113	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A125230
Included Lab Sample IDs: 2478019

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tolfenpyrad	101	99.5	P/P	60 - 150
Triclopyr	110	104	P/P	50 - 150

Reference Method: SM 4500-F- C-2011
Run ID: A125278
Included Lab Sample IDs: 2478003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	97.4	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A125295
Included Lab Sample IDs: 2478007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	96.6	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)	101				7.05	
EPA 180.1 Rev. 2.0	Turbidity	102				7.48	
EPA 200.7 Rev. 4.4	Calcium	98.6	97.0	100			0.0150
	Iron	107	104	104	104		0.542
	Magnesium	108	103	104	104		0.211
	Potassium	103	96.4	98.2	99.5		1.51
	Sodium	96.9	98.2	98.4			1.05
	Strontium	101	96.0	96.1	96.0		0.139
	Tin	98.4	94.4	95.9	94.8		1.64
	Titanium	101	98.2	99.3	98.9		0.990
	Vanadium	96.8	97.0	97.3	99.9		0.212
	Zinc	105	103	104	105		0.378
EPA 200.8 Rev. 5.4	Aluminum	102	100	102	100		1.09
	Antimony	105	103	105	104		2.53
	Arsenic	106	103	106	104		2.68
	Barium	105	104	106	104		1.46
	Beryllium	102	97.8	104	103		6.64
	Boron	107	103	107	108		3.01
	Cadmium	104	102	107	104		4.12
	Chromium	105	103	106	103		2.66
	Cobalt	103	100	102	100		2.05
	Copper	104	101	103	101		1.84
	Lead	103	101	103	105		1.74
	Manganese	102	104	101	101		2.95
	Molybdenum	103	103	105	103		2.20
	Nickel	104	103	104	101		1.37
	Selenium	104	102	103	97.6		1.07
	Silver	105	102	103	100		1.51
	Thallium	100	99.6	102	102		2.13
EPA 300.0 Rev. 2.1	Chloride	103	106	104		0.848	
	Chloride	101	102	101		2.58	
	Chloride	98.0	95.2	95.3		2.54	
	Sulfate	105	103	104		0.544	
EPA 350.1 Rev. 2.0	Ammonia-N	99.8	98.6	101			1.39
	Ammonia-N	98.8	98.2	99.4			1.21
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	90.9	95.4			3.87
	Kjeldahl Nitrogen	95.0	99.8	102			1.72
EPA 353.2 Rev. 2.0	NO2NO3-N	100	94.4	95.8			1.53
	NO2NO3-N	99.5	98.0	97.4			0.344
EPA 365.1 Rev. 2.0	Total-P	101	99.0	92.2			3.59
	Total-P	102	93.4	88.2			5.76
EPA 8270E	Aldrin	63.5	79.4	75.3			5.32
	Alpha-BHC	82.0	72.9	77.6			6.22
	Alpha-Chlordane	75.0	91.9	78.7			15.5
	Beta-BHC	119	129	103			22.6
	Beta-Cyfluthrin	72.7	107	111			3.56
	Bifenthrin	63.8	97.4	108			10.3
	Chlorothalonil	102	135	127			5.80
	Cis-Nonachlor	89.3	74.0	82.1			10.4
	Cypermethrin	84.8	109	117			7.02
	Dacthal	103	103	93.6			9.20
	DDD-p,p'	89.3	83.1	88.2			5.94
	DDE-p,p'	87.7	87.8	74.6			16.3
	DDT-p,p'	99.2	90.4	81.2			8.45

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Delta-BHC	123	144	112			24.8
	Deltamethrin	79.3	133	130			2.56
	Dichlobenil	75.8	72.4	78.3			7.89
	Dicofol	82.0	82.7	77.9			6.01
	Dieldrin	89.6	93.6	80.8			14.6
	Endosulfan I	81.2	101	82.4			20.1
	Endosulfan II	85.3	103	81.9			23.1
	Endosulfan Sulfate	97.9	102	95.4			7.16
	Endrin	89.0	94.6	81.9			14.4
	Endrin Aldehyde	89.6	60.9	70.3			14.4
	Endrin Ketone	109	111	95.9			15.0
	Esfenvalerate	74.7	112	125			10.9
	Ethalfuralin	83.8	86.4	92.9			7.26
	Fenpropathrin	86.5	98.0	95.2			2.86
	Gamma-BHC	120	111	97.5			13.0
	Gamma-Chlordane	86.6	92.5	82.9			10.9
	Heptachlor	75.1	79.1	74.2			6.38
	Heptachlor Epoxide	83.6	98.6	78.0			23.4
	Hexachlorobenzene	61.7	73.0	67.5			7.82
	Kepone	137	135	133			1.24
	Lambda-Cyhalothrin	71.3	96.5	105			7.98
	Methoprene	62.5	84.5	69.6			19.4
	Methoxychlor	109	105	98.3			6.51
	MGK-264	77.5	102	84.5			18.3
	Mirex	62.0	76.6	65.0			16.4
	Oxychlordane	86.2	98.0	80.5			19.6
	PCB-1016	86.1	81.6	74.8			8.65
	PCB-1260	82.2	77.9	64.6			18.8
	Permethrin	69.0	102	111			8.09
	Phenothrin	49.6	92.1	99.7			7.91
	Piperonyl Butoxide	106	112	107			4.40
	Prallethrin	64.1	94.1	78.2			18.4
	Tau-Fluvalinate	58.4	106	109			2.47
	Tetramethrin	89.1	108	114			5.58
	Trans-Nonachlor	95.8	94.4	85.3			10.2
	Triclosan Methyl	89.6	89.6	77.9			13.9
	Trifluralin	85.5	83.2	79.8			4.12
EPA 8276	Chlordane	90.7	77.1	69.0			11.1
	Toxaphene	89.9	77.9	66.6			15.6
EPA 8321B	2,4-D	108	87.0	97.8			11.1
	2,4,5-T	107	90.4	91.9			1.58
	Acesulfame K	105	122	131			7.18
	Acetaminophen	92.5	98.3	98.2			0.0602
	Acetamiprid	87.8	58.5	61.8			5.42
	Afidopyropen	67.5	56.0	38.9			35.9
	AMPA	118	101	99.3			1.28
	Bentazon	100	44.1	50.4			6.24
	Benzovindiflupyr	86.0	77.4	83.4			7.49
	Carbamazepine	86.7	63.4	62.6			1.28
	Clothianidin	98.7	93.3	89.9			3.69
	Dinotefuran	102	86.5	82.5			4.67
	Diuron	94.1	67.5	64.6			4.37
	Endothall	104	102	105			3.03
	Fenuron	93.1	63.8	61.6			3.50

Quality Assurance Report

Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
			LCS	SMP	MS	
EPA 8321B	Fluridone	93.5	74.7	74.1		0.646
	Glufosinate	122	110	114		3.34
	Glyphosate	122	110	108		1.60
	Hydrocodone	99.6	77.7	73.7		5.20
	Ibuprofen	83.0	81.3	71.6		12.7
	Imazapyr	93.1	102	109		4.81
	Imidacloprid	91.1	113	108		4.65
	Linuron	92.2	69.3	72.7		4.78
	Mandestrobin	96.3	85.6	88.9		3.83
	MCPP	108	90.4	97.0		7.00
	Naproxen	77.4	84.0	75.8		10.2
	Primidone	81.9	84.2	79.0		6.38
	Pyraclostrobin	80.2	76.1	83.0		8.65
	Silvex	92.2	76.2	86.2		12.4
	Sucralose	101	103	103		0.182
	Thiamethoxam	98.4	90.9	88.7		2.52
	Tolfenpyrad	51.6	49.4	55.6		11.8
	Triclopyr	116	80.5	93.0		14.3
SM 2320 B-2011	Total Alkalinity	103			2.82	
	Total Alkalinity	99.8			1.40	
SM 2540 C-2015	TDS	101			2.65	
	TDS	108			4.03	
SM 2540 D-2015	TSS	101				
	TSS	108			8.70	
SM 4500-F- C-2011	Fluoride	101	105	105		0.0
	Fluoride	101	105	104		1.10
	Fluoride	97.3	101	103		0.967
SM 5310 B-2014	Organic Carbon	96.6	95.4	94.0		1.10
	Organic Carbon	98.1	97.6	99.6		1.62

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2478001, 2478003, 2478004, 2478007
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2478001, 2478003, 2478004, 2478007
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2478020, 2478021
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2478020, 2478021
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2478001, 2478003, 2478004, 2478007
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2478001, 2478003, 2478004, 2478007
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2478002, 2478005, 2478006, 2478008
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2478002, 2478005, 2478006, 2478008
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2478002, 2478005, 2478006, 2478008
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2478002, 2478005, 2478006, 2478008
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2478015
EPA 8270E	PCBs in water matrices by GC/MS/MS	2478015
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2478015
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2478019
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2478001, 2478003, 2478004, 2478007
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2478020, 2478021
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2478001, 2478003, 2478004, 2478007

Reference Method Descriptions

Method	Description	Associated Samples
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2478001, 2478003, 2478004, 2478007
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2478001, 2478003, 2478004, 2478007
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2478002, 2478005, 2478006, 2478008

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	03/28/2024			03/28/2024 14:52	Jessica K Wilks	2478001, 2478003
	03/28/2024			03/28/2024 14:53	Jessica K Wilks	2478004
	03/28/2024			03/28/2024 14:54	Jessica K Wilks	2478007
EPA 180.1 Rev. 2.0	03/28/2024			03/28/2024 13:27	Samantha L Bates	2478001
	03/28/2024			03/28/2024 13:28	Samantha L Bates	2478003
	03/28/2024			03/28/2024 13:30	Samantha L Bates	2478004
EPA 200.7 Rev. 4.4	03/28/2024			03/28/2024 13:34	Samantha L Bates	2478007
	03/28/2024	03/29/2024 11:35	George D Taylor	04/01/2024 14:49	Chase Roberts	2478020
	03/28/2024	03/29/2024 11:35	George D Taylor	04/01/2024 15:04	Chase Roberts	2478021
EPA 200.8 Rev. 5.4	03/28/2024	03/29/2024 11:35	George D Taylor	04/03/2024 00:38	McKinley C Carter	2478020
	03/28/2024	03/29/2024 11:35	George D Taylor	04/03/2024 00:47	McKinley C Carter	2478021
EPA 300.0 Rev. 2.1	03/28/2024			04/02/2024 06:21	Samantha L Bates	2478001
	03/28/2024			04/02/2024 06:36	Samantha L Bates	2478003
	03/28/2024			04/02/2024 06:51	Samantha L Bates	2478004
	03/28/2024			04/02/2024 07:06	Samantha L Bates	2478007
	03/28/2024			04/05/2024 15:49	James L Waggeberby	2478004
EPA 350.1 Rev. 2.0	03/28/2024			04/09/2024 17:28	James L Waggeberby	2478007
	03/28/2024			04/01/2024 11:37	Khloe J Berg	2478005
	03/28/2024			04/01/2024 11:38	Khloe J Berg	2478006
	03/28/2024			04/01/2024 12:53	Khloe J Berg	2478002
	03/28/2024			04/01/2024 12:54	Khloe J Berg	2478008
EPA 351.2 Rev. 2.0	03/28/2024	03/28/2024 14:46	Simonne.V. Calhoun	04/02/2024 11:25	Robyn Blevins	2478005
	03/28/2024	03/28/2024 14:46	Simonne.V. Calhoun	04/02/2024 11:26	Robyn Blevins	2478006
	03/28/2024	03/28/2024 14:46	Simonne.V. Calhoun	04/02/2024 11:41	Robyn Blevins	2478002
	03/28/2024	03/28/2024 14:46	Simonne.V. Calhoun	04/02/2024 11:45	Robyn Blevins	2478008
EPA 353.2 Rev. 2.0	03/28/2024			04/01/2024 14:37	Fadila Guebre	2478005
	03/28/2024			04/01/2024 14:44	Fadila Guebre	2478006
	03/28/2024			04/04/2024 14:16	Fadila Guebre	2478002
	03/28/2024			04/04/2024 14:18	Fadila Guebre	2478008
EPA 365.1 Rev. 2.0	03/28/2024	03/29/2024 13:35	Josephine W Gitau	04/01/2024 11:10	James L Waggeberby	2478002
	03/28/2024	03/29/2024 13:35	Josephine W Gitau	04/01/2024 11:30	James L Waggeberby	2478005
	03/28/2024	03/29/2024 13:35	Josephine W Gitau	04/02/2024 11:16	James L Waggeberby	2478008
	03/28/2024	03/29/2024 13:35	Josephine W Gitau	04/02/2024 11:31	James L Waggeberby	2478006
EPA 8270E	03/28/2024	04/02/2024 08:10	Rasheda Ghaffari	04/03/2024 21:00	Kenedi Mills	2478015
	03/28/2024	04/02/2024 08:10	Rasheda Ghaffari	04/04/2024 02:05	Kenedi Mills	2478015
EPA 8276	03/28/2024	04/02/2024 08:10	Rasheda Ghaffari	04/05/2024 10:14	Arthur Maknenko	2478015
EPA 8321B	03/28/2024	03/28/2024 13:00	Hoor Shaik	04/09/2024 02:58	Juyoung Kim	2478019
	03/28/2024	03/28/2024 13:30	Samatha Luckman	03/28/2024 20:22	Samatha Luckman	2478019
	03/28/2024	03/28/2024 13:30	Samatha Luckman	03/29/2024 16:54	Samatha Luckman	2478019
SM 2320 B-2011	03/28/2024			04/02/2024 05:03	Dale L. Simmons	2478001

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-2011	03/28/2024			04/02/2024 05:13	Dale L. Simmons	2478007
	03/28/2024			04/02/2024 12:07	Dale L. Simmons	2478004
	03/28/2024			04/02/2024 13:36	Dale L. Simmons	2478003
SM 2340 B-2011	03/28/2024			04/01/2024 14:49	Chase Roberts	2478020
	03/28/2024			04/01/2024 15:04	Chase Roberts	2478021
SM 2540 C-2015	03/28/2024			04/01/2024 14:16	Ping Hua	2478001, 2478004, 2478007
	03/28/2024			04/02/2024 15:07	Yijie Li	2478003
SM 2540 D-2015	03/28/2024			04/01/2024 14:16	Ping Hua	2478001, 2478004, 2478007
	03/28/2024			04/02/2024 15:07	Yijie Li	2478003
SM 4500-F- C-2011	03/28/2024			04/02/2024 05:03	Dale L. Simmons	2478001
	03/28/2024			04/02/2024 05:13	Dale L. Simmons	2478007
	03/28/2024			04/05/2024 13:02	Dale L. Simmons	2478004
	03/28/2024			04/10/2024 23:18	Dale L. Simmons	2478003
SM 5310 B-2014	03/28/2024			03/30/2024 09:56	Jessica K Wilks	2478005
	03/28/2024			04/02/2024 01:58	Jessica K Wilks	2478002
	03/28/2024			04/02/2024 03:03	Jessica K Wilks	2478006
	03/28/2024			04/02/2024 03:18	Jessica K Wilks	2478008