

Chemical Analysis Report

SE-DIST-2024-03-21-01

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

Event Description: **SMP - Sebastian (w/ blank)**
Request ID: **RQ-2024-03-04-67**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Andrew Luering

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

Certified by: Marek Topolski, Environmental Administrator

Date Certified: 10-APR-2024 10:03

A handwritten signature in black ink, appearing to read "Marek Topolski", with a stylized flourish at the end.

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: C 54 1700M WEST OF 1 95

Collection Date/Time: 03/20/2024 09:05

Field ID: G5SE0062

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476821	DEP SOP: NU-094-1	Color (true)	86		PCU	P443149	
	EPA 180.1 Rev. 2.0	Turbidity	2.9		NTU	P443156	
	EPA 300.0 Rev. 2.1	Chloride	90		mg Cl/L	P443474	
		Sulfate	48		mg SO4/L	P443477	
	SM 2320 B-2011	Total Alkalinity	161		mg CaCO3/L	P443289	
	SM 2540 C-2015	TDS	423	J	mg/L	P443618	
	SM 2540 D-2015	TSS	2	I	mg/L	P443491	
2476822	SM 4500-F- C-2011	Fluoride	0.20		mg F/L	P443290	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.068		mg N/L	P443278	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P443234	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.089		mg N/L	P443295	
	EPA 365.1 Rev. 2.0	Total-P	0.050		mg P/L	P443269	
2476871	SM 5310 B-2014	Organic Carbon	17		mg C/L	P443518	
	EPA 8321B	2,4-D	0.0020	U	ug/L	P443101	
		Acesulfame K	0.10	U	ug/L	P443106	
		2,4,5-T	0.0040	U	ug/L	P443101	
		AMPA	0.10	U	ug/L	P443106	
		Acetaminophen	0.0080	U	ug/L	P443101	
		Acetamiprid	0.0020	U	ug/L	P443101	
		Endothall	0.25	U	ug/L	P443106	
		Glufosinate	0.10	U	ug/L	P443106	
		Glyphosate	0.10	U	ug/L	P443106	
		Afidopyropen	0.0020	U	ug/L	P443101	
		Bentazon	8.0E-04	U	ug/L	P443101	
		Sucralose	0.010	U	ug/L	P443106	
		Benzovindiflupyr	0.0020	U	ug/L	P443101	
		Carbamazepine	8.0E-04	U	ug/L	P443101	
		Clothianidin	0.0020	U	ug/L	P443101	
		Dinotefuran	0.0020	U	ug/L	P443101	
		Diuron	0.0020	U	ug/L	P443101	
		Fenuron	0.032	U	ug/L	P443101	
		Fluridone	8.0E-04	U	ug/L	P443101	
		Imazapyr	0.11		ug/L	P443101	
		Hydrocodone	0.0020	U	ug/L	P443101	
		Ibuprofen	0.080	U	ug/L	P443101	
		Imidacloprid	0.0020	U	ug/L	P443101	
		Linuron	0.0040	U	ug/L	P443101	
		Mandestrobin	0.0020	U	ug/L	P443101	
		MCPP	0.0020	U	ug/L	P443101	
		Naproxen	0.0080	U	ug/L	P443101	RPD
		Primidone	0.0040	U	ug/L	P443101	
		Pyraclostrobin	0.0020	U	ug/L	P443101	
		Silvex	0.0040	U	ug/L	P443101	
		Thiamethoxam	0.0020	U	ug/L	P443101	

Field ID: G5SE0062

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476871	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P443101	
		Triclopyr	0.0040	U	ug/L	P443101	

Ref. Method and Comment:
SM 2540 C-2015: Constant dry weight was not attained.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: NORTH PRONG SEBASTIAN NEAR WILDEN RD Collection Date/Time: 03/20/2024 09:55

Field ID: G5SE0147 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476819	DEP SOP: NU-094-1	Color (true)	67		PCU	P443149	
	EPA 180.1 Rev. 2.0	Turbidity	5.4		NTU	P443156	
	EPA 300.0 Rev. 2.1	Chloride	140		mg Cl/L	P443474	
		Sulfate	36		mg SO4/L	P443477	
	SM 2320 B-2011	Total Alkalinity	213		mg CaCO3/L	P443235	
	SM 2540 C-2015	TDS	559		mg/L	P443618	
	SM 2540 D-2015	TSS	5	I	mg/L	P443491	
	SM 4500-F- C-2011	Fluoride	0.27		mg F/L	P443240	
2476820	EPA 350.1 Rev. 2.0	Ammonia-N	0.046		mg N/L	P443278	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.95		mg N/L	P443234	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.066		mg N/L	P443295	
	EPA 365.1 Rev. 2.0	Total-P	0.079		mg P/L	P443269	
	SM 5310 B-2014	Organic Carbon	16		mg C/L	P443518	
2476870	EPA 8321B	2,4-D	0.0096		ug/L	P443101	
		Acesulfame K	0.10	U	ug/L	P443106	
		2,4,5-T	0.0040	U	ug/L	P443101	
		AMPA	0.15	I	ug/L	P443106	
		Acetaminophen	0.0080	U	ug/L	P443101	
		Acetamiprid	0.0020	U	ug/L	P443101	
		Endothall	0.25	U	ug/L	P443106	
		Glufosinate	0.10	U	ug/L	P443106	
		Glyphosate	0.34	I	ug/L	P443106	
		Afidopyropen	0.0020	U	ug/L	P443101	
		Bentazon	0.0048		ug/L	P443101	
		Sucralose	1.6		ug/L	P443106	
		Benzovindiflupyr	0.0020	U	ug/L	P443101	
		Carbamazepine	0.0030	I	ug/L	P443101	
		Clothianidin	0.0020	U	ug/L	P443101	
		Dinotefuran	0.0020	U	ug/L	P443101	
		Diuron	0.0020	U	ug/L	P443101	
		Fenuron	0.032	U	ug/L	P443101	
		Fluridone	0.0037		ug/L	P443101	
		Imazapyr	0.12		ug/L	P443101	
		Hydrocodone	0.0020	U	ug/L	P443101	
		Ibuprofen	0.080	U	ug/L	P443101	
		Imidacloprid	0.0020	I	ug/L	P443101	
		Linuron	0.0040	U	ug/L	P443101	
		Mandestrobin	0.0020	U	ug/L	P443101	
		MCPP	0.0020	U	ug/L	P443101	
		Naproxen	0.0080	U	ug/L	P443101	RPD
		Primidone	0.020		ug/L	P443101	
		Pyraclostrobin	0.0020	U	ug/L	P443101	
		Silvex	0.0040	U	ug/L	P443101	
		Thiamethoxam	0.0020	U	ug/L	P443101	

Field ID: G5SE0147

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476870	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P443101	
		Triclopyr	0.0040	U	ug/L	P443101	

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: SOUTH PRONG SEBASTIAN TRIBUTARY NEAR ROSELAND RD Collection Date/Time: 03/20/2024 10:30

Field ID: G5SE0145

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476827	DEP SOP: NU-094-1	Color (true)	89		PCU	P443152	
	EPA 180.1 Rev. 2.0	Turbidity	17		NTU	P443156	
	EPA 300.0 Rev. 2.1	Chloride	110		mg Cl/L	P443666	
		Sulfate	24		mg SO4/L	P443669	
	SM 2320 B-2011	Total Alkalinity	76		mg CaCO3/L	P443235	
	SM 2540 C-2015	TDS	402		mg/L	P443618	
	SM 2540 D-2015	TSS	43		mg/L	P443491	
2476828	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P443240	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.044		mg N/L	P443278	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.91		mg N/L	P443234	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.19		mg N/L	P443295	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P443292	
2476874	SM 5310 B-2014	Organic Carbon	19		mg C/L	P443517	
	EPA 8321B	2,4-D	0.0041	I	ug/L	P443101	
		Acesulfame K	0.10	U	ug/L	P443106	
		2,4,5-T	0.0040	U	ug/L	P443101	
		AMPA	0.10	U	ug/L	P443106	
		Acetaminophen	0.0080	U	ug/L	P443101	
		Acetamiprid	0.0020	U	ug/L	P443101	
		Endothall	0.25	U	ug/L	P443106	
		Glufosinate	0.10	U	ug/L	P443106	
		Glyphosate	0.24	I	ug/L	P443106	
		Afidopyropen	0.0020	U	ug/L	P443101	
		Bentazon	0.27		ug/L	P443101	
		Sucralose	2.5		ug/L	P443106	
		Benzovindiflupyr	0.0020	U	ug/L	P443101	
		Carbamazepine	0.0085		ug/L	P443101	
		Clothianidin	0.0020	U	ug/L	P443101	
		Dinotefuran	0.0020	U	ug/L	P443101	
		Diuron	0.0058	I	ug/L	P443101	
		Fenuron	0.032	U	ug/L	P443101	
		Fluridone	0.0021	I	ug/L	P443101	
		Imazapyr	1.8		ug/L	P443101	
		Hydrocodone	0.0020	U	ug/L	P443101	
		Ibuprofen	0.080	U	ug/L	P443101	
		Imidacloprid	0.0055	I	ug/L	P443101	
		Linuron	0.0040	U	ug/L	P443101	
		Mandestrobin	0.0020	U	ug/L	P443101	
		MCPP	0.0029	I	ug/L	P443101	
		Naproxen	0.0080	U	ug/L	P443101	RPD
		Primidone	0.0065	I	ug/L	P443101	
		Pyraclostrobin	0.0020	U	ug/L	P443101	
		Silvex	0.0040	U	ug/L	P443101	

Field ID: G5SE0145

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476874	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	P443101	
		Tolfenpyrad	0.0020	U	ug/L	P443101	
		Triclopyr	0.0040	U	ug/L	P443101	

Ref. Method and Comment:
DEP SOP: NU-094-1: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: SOUTH PRONG SEBASTIAN NEAR CANOE
LAUNCH

Collection Date/Time: 03/20/2024 11:40

Field ID: G5SE0151

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476825	DEP SOP: NU-094-1	Color (true)	24		PCU	P443150	
	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P443156	
	EPA 300.0 Rev. 2.1	Chloride	530		mg Cl/L	P443474	
		Sulfate	130		mg SO4/L	P443477	
	SM 2320 B-2011	Total Alkalinity	176		mg CaCO3/L	P443235	
	SM 2540 C-2015	TDS	1.21E+03	J	mg/L	P443618	
	SM 2540 D-2015	TSS	6	I	mg/L	P443491	
	SM 4500-F- C-2011	Fluoride	0.45		mg F/L	P443497	
2476826	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P443278	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.64		mg N/L	P443234	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.064		mg N/L	P443295	
	EPA 365.1 Rev. 2.0	Total-P	0.081		mg P/L	P443292	
	SM 5310 B-2014	Organic Carbon	8.7		mg C/L	P443518	
2476873	EPA 8321B	2,4-D	0.0020	U	ug/L	P443101	
		Acesulfame K	0.10	U	ug/L	P443106	
		2,4,5-T	0.0040	U	ug/L	P443101	
		AMPA	0.10	U	ug/L	P443106	
		Acetaminophen	0.0080	U	ug/L	P443101	
		Acetamiprid	0.0020	U	ug/L	P443101	
		Endothall	0.25	U	ug/L	P443106	
		Glufosinate	0.10	U	ug/L	P443106	
		Glyphosate	0.11	I	ug/L	P443106	
		Afidopyropen	0.0020	U	ug/L	P443101	
		Bentazon	0.0077		ug/L	P443101	
		Sucralose	0.093		ug/L	P443106	
		Benzovindiflupyr	0.0020	U	ug/L	P443101	
		Carbamazepine	8.0E-04	U	ug/L	P443101	
		Clothianidin	0.0020	U	ug/L	P443101	
		Dinotefuran	0.0020	U	ug/L	P443101	
		Diuron	0.0020	U	ug/L	P443101	
		Fenuron	0.032	U	ug/L	P443101	
		Fluridone	8.0E-04	U	ug/L	P443101	
		Imazapyr	0.050		ug/L	P443101	
		Hydrocodone	0.0020	U	ug/L	P443101	
		Ibuprofen	0.080	U	ug/L	P443101	
		Imidacloprid	0.0020	U	ug/L	P443101	
		Linuron	0.0040	U	ug/L	P443101	
		Mandestrobin	0.0020	U	ug/L	P443101	
		MCPP	0.0020	U	ug/L	P443101	
		Naproxen	0.0080	U	ug/L	P443101	RPD
		Primidone	0.0040	U	ug/L	P443101	
		Pyraclostrobin	0.0020	U	ug/L	P443101	
		Silvex	0.0040	U	ug/L	P443101	

Field ID: G5SE0151

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476873	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	P443101	
		Tolfenpyrad	0.0020	U	ug/L	P443101	
		Triclopyr	0.0040	U	ug/L	P443101	

Ref. Method and Comment:
SM 2540 C-2015: Constant dry weight was not attained.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: SOUTH PRONG SEBASTIAN AT PARK DOCK Collection Date/Time: 03/20/2024 12:15

Field ID: G5SE0079

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476823	DEP SOP: NU-094-1	Color (true)	35		PCU	P443150	
	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P443156	
	EPA 300.0 Rev. 2.1	Chloride	9.2E+03		mg Cl/L	P443666	
		Sulfate	1.3E+03		mg SO4/L	P443669	
	SM 2320 B-2011	Total Alkalinity	149		mg CaCO3/L	P443340	
	SM 2540 C-2015	TDS	1.68E+04		mg/L	P443620	
	SM 2540 D-2015	TSS	3	U	mg/L	P443765	RPD
2476824	SM 4500-F- C-2011	Fluoride	0.72		mg F/L	P443342	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P443272	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.59		mg N/L	P443238	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P443358	
	EPA 365.1 Rev. 2.0	Total-P	0.075		mg P/L	P443230	
2476861	SM 5310 B-2014	Organic Carbon	9.4		mg C/L	P443564	
	EPA 8270E	Aldrin	0.66	U	ng/L	P443187	
		Alpha-BHC	0.10	U	ng/L	P443187	
		Alpha-Chlordane	0.20	U	ng/L	P443187	
		PCB-1016	2.0	U	ng/L	P443187	
		Beta-BHC	0.10	U	ng/L	P443187	
		PCB-1221	2.0	U	ng/L	P443187	
		Beta-Cyfluthrin	1.3	U	ng/L	P443187	
		PCB-1232	2.0	U	ng/L	P443187	
		Bifenthrin	0.51	U	ng/L	P443187	
		PCB-1242	2.0	U	ng/L	P443187	
		PCB-1248	2.0	U	ng/L	P443187	
		Chlorothalonil	3.7	U	ng/L	P443187	
		PCB-1254	2.0	U	ng/L	P443187	
		Cis-Nonachlor	0.20	U	ng/L	P443187	
		PCB-1260	2.0	U	ng/L	P443187	
		Cypermethrin	1.5	U	ng/L	P443187	
		Dacthal	0.15	U	ng/L	P443187	
		DDD-p,p'	0.37	I	ng/L	P443187	
		DDE-p,p'	0.20	U	ng/L	P443187	
		DDT-p,p'	0.92	I	ng/L	P443187	
		Delta-BHC	0.41	U	ng/L	P443187	
		Deltamethrin	1.3	U	ng/L	P443187	
		Dichlobenil	0.26	U	ng/L	P443187	
		Dicofol	1.3	U	ng/L	P443187	
		Diieldrin	0.41	U	ng/L	P443187	
		Endosulfan I	0.41	U	ng/L	P443187	
		Endosulfan II	0.92	U	ng/L	P443187	
		Endosulfan Sulfate	0.31	U	ng/L	P443187	
		Endrin	0.92	U	ng/L	P443187	
		Endrin Aldehyde	0.77	U	ng/L	P443187	
		Endrin Ketone	0.41	U	ng/L	P443187	

Field ID: G5SE0079

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476861	EPA 8270E	Esfenvalerate	0.77	U	ng/L	P443187	
		Ethalfuralin	0.15	U	ng/L	P443187	
		Fenpropathrin	0.26	U	ng/L	P443187	
		Gamma-BHC	0.13	U	ng/L	P443187	
		Gamma-Chlordane	0.20	U	ng/L	P443187	
		Heptachlor	0.20	U	ng/L	P443187	
		Heptachlor Epoxide	0.26	U	ng/L	P443187	
		Hexachlorobenzene**	1.0	U	ng/L	P443187	
		Kepone	14	U	ng/L	P443187	
		Lambda-Cyhalothrin	0.77	U	ng/L	P443187	
		Methoprene	0.77	U	ng/L	P443187	
		Methoxychlor	0.31	U	ng/L	P443187	
		MGK-264	0.20	U	ng/L	P443187	
		Mirex	0.36	U	ng/L	P443187	
		Oxychlordane	0.31	U	ng/L	P443187	
		Permethrin	1.6	U	ng/L	P443187	
		Phenothrin	0.92	U	ng/L	P443187	
		Piperonyl Butoxide	0.15	U	ng/L	P443187	
		Prallethrin	2.0	U	ng/L	P443187	
		Tau-Fluvalinate	0.26	U	ng/L	P443187	
		Tetramethrin	0.77	U	ng/L	P443187	
		Trans-Nonachlor	0.20	U	ng/L	P443187	
		Triclosan Methyl	0.15	U	ng/L	P443187	
		Trifluralin	0.20	U	ng/L	P443187	
	EPA 8276	Chlordane	2.0	U	ng/L	P443187	
		Toxaphene	15	U	ng/L	P443187	
		Acesulfame K	0.10	U	ug/L	P443106	
2476872	EPA 8321B	2,4-D	0.0020	U	ug/L	P443101	
		AMPA	1.0	U	ug/L	P443106	
		2,4,5-T	0.0040	U	ug/L	P443101	
		Acetaminophen	0.0080	U	ug/L	P443101	
		Endothall	0.25	U	ug/L	P443106	
		Acetamiprid	0.0020	U	ug/L	P443101	
		Glufosinate	1.0	U	ug/L	P443106	
		Glyphosate	1.0	U	ug/L	P443106	
		Afidopyropen	0.0020	U	ug/L	P443101	
		Sucralose	0.11		ug/L	P443106	
		Bentazon	0.017		ug/L	P443101	
		Benzovindiflupyr	0.0020	U	ug/L	P443101	
		Carbamazepine	8.0E-04	U	ug/L	P443101	
		Clothianidin	0.0020	U	ug/L	P443101	
		Dinotefuran	0.0020	U	ug/L	P443101	
		Diuron	0.0020	U	ug/L	P443101	
		Fenuron	0.032	U	ug/L	P443101	
		Fluridone	9.0E-04	I	ug/L	P443101	

Field ID: G5SE0079

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476872	EPA 8321B	Imazapyr	0.21		ug/L	P443101	
		Hydrocodone	0.0020	U	ug/L	P443101	
		Ibuprofen	0.080	U	ug/L	P443101	
		Imidacloprid	0.0020	U	ug/L	P443101	
		Linuron	0.0040	U	ug/L	P443101	
		Mandestrobin	0.0020	U	ug/L	P443101	
		MCP	0.0020	U	ug/L	P443101	
		Naproxen	0.0080	U	ug/L	P443101	RPD
		Primidone	0.0040	U	ug/L	P443101	
		Pyraclostrobin	0.0020	U	ug/L	P443101	
		Silvex	0.0040	U	ug/L	P443101	
		Thiamethoxam	0.0020	U	ug/L	P443101	
		Tolfenpyrad	0.0020	U	ug/L	P443101	
2476881	EPA 200.7 Rev. 4.4	Triclopyr	0.0040	U	ug/L	P443101	
		Calcium	237		mg/L	P443299	
		Chromium	3.0	U	ug/L	P443299	
		Iron	100	I	ug/L	P443299	
		Magnesium	584		mg/L	P443299	
		Potassium	169		mg/L	P443299	
		Sodium	4.70E+03		mg/L	P443299	
		Strontium	6.53E+03		ug/L	P443299	
		Tin	9.0	U	ug/L	P443299	
		Titanium	3.8	I	ug/L	P443299	
		Vanadium	6.0	U	ug/L	P443299	
		Zinc	15	U	ug/L	P443299	
	EPA 200.8 Rev. 5.4	Aluminum	72	I	ug/L	P443299	
		Antimony	0.20	U	ug/L	P443299	
		Arsenic	1.20		ug/L	P443299	
		Barium	39.4		ug/L	P443299	
		Beryllium	0.040	U	ug/L	P443299	
		Boron	2.07E+03		ug/L	P443299	
		Cadmium	0.080	U	ug/L	P443299	
		Cobalt	0.12	I	ug/L	P443299	
		Copper	1.6	U	ug/L	P443299	
		Lead	0.80	U	ug/L	P443299	
		Manganese	11.4		ug/L	P443299	
		Molybdenum	6.3		ug/L	P443299	
		Nickel	2.0	U	ug/L	P443299	
		Selenium	0.80	U	ug/L	P443299	
		Silver	0.040	U	ug/L	P443299	
		Thallium	0.40	U	ug/L	P443299	
	SM 2340 B-2011	Hardness	3.00E+03		mg/L	P443299	

Ref. Method and Comment:
EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium, potassium and sodium are unavailable because of high analyte concentration in the QC sample.

Sample Location: FB

Collection Date/Time: 03/20/2024 12:30

Field ID: FB_03202024

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476829	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P443150	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P443156	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P443474	
		Sulfate	0.20	U	mg SO4/L	P443477	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P443235	
	SM 2540 C-2015	TDS	15	U	mg/L	P443618	
	SM 2540 D-2015	TSS	2	U	mg/L	P443491	
2476830	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P443240	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P443278	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P443234	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P443295	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P443292	
2476875	SM 5310 B-2014	Organic Carbon	0.50	U	mg C/L	P443517	
	EPA 8321B	2,4-D	0.0020	U	ug/L	P443101	
		Acesulfame K	0.10	U	ug/L	P443106	
		2,4,5-T	0.0040	U	ug/L	P443101	
		AMPA	0.10	U	ug/L	P443106	
		Acetaminophen	0.0080	U	ug/L	P443101	
		Acetamiprid	0.0020	U	ug/L	P443101	
		Endothall	0.25	U	ug/L	P443106	
		Glufosinate	0.10	U	ug/L	P443106	
		Glyphosate	0.10	U	ug/L	P443106	
		Afidopyropen	0.0020	U	ug/L	P443101	
		Bentazon	8.0E-04	U	ug/L	P443101	
		Sucralose	0.010	U	ug/L	P443106	
		Benzovindiflupyr	0.0020	U	ug/L	P443101	
		Carbamazepine	8.0E-04	U	ug/L	P443101	
		Clothianidin	0.0020	U	ug/L	P443101	
		Dinotefuran	0.0020	U	ug/L	P443101	
		Diuron	0.0020	U	ug/L	P443101	
		Fenuron	0.032	U	ug/L	P443101	
		Fluridone	8.0E-04	U	ug/L	P443101	
		Imazapyr	0.0040	U	ug/L	P443101	
		Hydrocodone	0.0020	U	ug/L	P443101	
		Ibuprofen	0.080	U	ug/L	P443101	
		Imidacloprid	0.0020	U	ug/L	P443101	
		Linuron	0.0040	U	ug/L	P443101	
		Mandestrobin	0.0020	U	ug/L	P443101	
		MCPP	0.0020	U	ug/L	P443101	
		Naproxen	0.0080	U	ug/L	P443101	RPD
		Primidone	0.0040	U	ug/L	P443101	
		Pyraclostrobin	0.0020	U	ug/L	P443101	
		Silvex	0.0040	U	ug/L	P443101	
		Thiamethoxam	0.0020	U	ug/L	P443101	

Field ID: FB_03202024

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476875	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P443101	
		Triclopyr	0.0040	U	ug/L	P443101	
2476882	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P443200	
		Chromium	1.0	U	ug/L	P443200	
		Iron	30	U	ug/L	P443200	
		Magnesium	0.040	U	mg/L	P443200	
		Potassium	0.30	U	mg/L	P443200	
		Sodium	0.50	U	mg/L	P443200	
		Strontium	2.0	U	ug/L	P443200	
		Tin	3.0	U	ug/L	P443200	
		Titanium	0.75	U	ug/L	P443200	
		Vanadium	2.0	U	ug/L	P443200	
		Zinc	5.0	U	ug/L	P443200	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P443200	
		Antimony	0.050	U	ug/L	P443200	
		Arsenic	0.050	U	ug/L	P443200	
		Barium	0.20	U	ug/L	P443200	
		Beryllium	0.010	U	ug/L	P443200	
		Boron	2.0	U	ug/L	P443200	
		Cadmium	0.020	U	ug/L	P443200	
		Cobalt	0.020	U	ug/L	P443200	
		Copper	0.40	U	ug/L	P443200	
		Lead	0.20	U	ug/L	P443200	
		Manganese	0.10	U	ug/L	P443200	
		Molybdenum	0.15	U	ug/L	P443200	
		Nickel	0.50	U	ug/L	P443200	
		Selenium	0.20	U	ug/L	P443200	
		Silver	0.010	U	ug/L	P443200	
		Thallium	0.10	U	ug/L	P443200	

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: ELKHAM WATERWAY NEAR PERIWINKLE DR Collection Date/Time: 03/20/2024 11:00

Field ID: G5SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476817	DEP SOP: NU-094-1	Color (true)	77		PCU	P443149	
	EPA 180.1 Rev. 2.0	Turbidity	4.7		NTU	P443156	
	EPA 300.0 Rev. 2.1	Chloride	79		mg Cl/L	P443474	
		Sulfate	21		mg SO4/L	P443477	
	SM 2320 B-2011	Total Alkalinity	156		mg CaCO3/L	P443235	
	SM 2540 C-2015	TDS	392	A	mg/L	P443618	
	SM 2540 D-2015	TSS	4	IA	mg/L	P443491	
2476818	SM 4500-F- C-2011	Fluoride	0.17		mg F/L	P443240	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P443278	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P443234	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.021		mg N/L	P443298	
	EPA 365.1 Rev. 2.0	Total-P	0.082		mg P/L	P443269	
2476869	SM 5310 B-2014	Organic Carbon	17		mg C/L	P443518	
	EPA 8321B	2,4-D	0.0040	I	ug/L	P443101	
		Acesulfame K	0.26	I	ug/L	P443106	
		2,4,5-T	0.0040	U	ug/L	P443101	
		AMPA	0.10	U	ug/L	P443106	
		Acetaminophen	0.0080	U	ug/L	P443101	
		Acetamiprid	0.0020	U	ug/L	P443101	
		Endothall	0.25	U	ug/L	P443106	
		Glufosinate	0.10	U	ug/L	P443106	
		Glyphosate	0.10	U	ug/L	P443106	
		Afidopyropen	0.0020	U	ug/L	P443101	
		Bentazon	0.25		ug/L	P443101	
		Sucralose	2.7		ug/L	P443106	
		Benzovindiflupyr	0.0020	U	ug/L	P443101	
		Carbamazepine	0.010		ug/L	P443101	
		Clothianidin	0.0026	I	ug/L	P443101	
		Dinotefuran	0.0020	U	ug/L	P443101	
		Diuron	0.0020	U	ug/L	P443101	
		Fenuron	0.032	U	ug/L	P443101	
		Fluridone	8.0E-04	U	ug/L	P443101	
		Imazapyr	0.69		ug/L	P443101	
		Hydrocodone	0.0020	U	ug/L	P443101	
		Ibuprofen	0.080	U	ug/L	P443101	
		Imidacloprid	0.0058	I	ug/L	P443101	
		Linuron	0.0040	U	ug/L	P443101	
		Mandestrobin	0.0020	U	ug/L	P443101	
		MCPP	0.0023	I	ug/L	P443101	
		Naproxen	0.0080	U	ug/L	P443101	RPD
		Primidone	0.012	I	ug/L	P443101	
		Pyraclostrobin	0.0020	U	ug/L	P443101	
		Silvex	0.0040	U	ug/L	P443101	
		Thiamethoxam	0.0020	U	ug/L	P443101	

Field ID: G5SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2476869	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P443101	
		Triclopyr	0.0040	U	ug/L	P443101	

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

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P443149

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P443150

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P443152

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P443156

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P443200

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Chromium	1.0	U	ug/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 200.7 Rev. 4.4
Batch ID: P443299

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Chromium	1.0	U	ug/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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P443200

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
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 200.8 Rev. 5.4
Batch ID: P443299

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
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: P443474

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443477

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443666

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443669

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443272

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443278

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443234

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443238

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443295

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443298

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443358

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: P443230

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443269

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443292

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

Reference Method: EPA 8270E
Batch ID: P443187

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P443187

Component	Result	Code	Units
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
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: P443187

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

Reference Method: EPA 8321B

Batch ID: P443101

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P443101

Component	Result	Code	Units
MCPPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P443106

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: P443235

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

Reference Method: SM 2320 B-2011
Batch ID: P443289

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

Reference Method: SM 2320 B-2011
Batch ID: P443340

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

Reference Method: SM 2540 C-2015
Batch ID: P443618

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P443620

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P443491

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P443765

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P443240

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P443290

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P443342

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P443497

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P443517

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

Reference Method: SM 5310 B-2014
Batch ID: P443518

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

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

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: P443149

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P443150

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P443152

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.3		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P443156

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P443200

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	100		P	85 - 115
Chromium	101		P	85 - 115
Iron	105		P	85 - 115
Magnesium	108		P	85 - 115
Potassium	103		P	85 - 115
Sodium	105		P	85 - 115
Strontium	102		P	85 - 115
Tin	101		P	85 - 115
Titanium	100		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	106		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P443299

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	101		P	85 - 115
Chromium	99.7		P	85 - 115
Iron	104		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	97.4		P	85 - 115
Sodium	98.0		P	85 - 115
Strontium	98.9		P	85 - 115
Tin	100		P	85 - 115
Titanium	98.7		P	85 - 115
Vanadium	98.8		P	85 - 115
Zinc	103		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P443200

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	104		P	85 - 115
Antimony	104		P	85 - 115
Arsenic	104		P	85 - 115
Barium	105		P	85 - 115
Beryllium	99.5		P	85 - 115
Boron	106		P	85 - 115
Cadmium	103		P	85 - 115
Cobalt	106		P	85 - 115
Copper	103		P	85 - 115
Lead	97.0		P	85 - 115
Manganese	103		P	85 - 115
Molybdenum	102		P	85 - 115
Nickel	103		P	85 - 115
Selenium	105		P	85 - 115
Silver	103		P	85 - 115
Thallium	99.3		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P443299

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	104		P	85 - 115
Arsenic	102		P	85 - 115
Barium	104		P	85 - 115
Beryllium	96.1		P	85 - 115
Boron	106		P	85 - 115
Cadmium	102		P	85 - 115
Cobalt	102		P	85 - 115
Copper	99.2		P	85 - 115
Lead	96.2		P	85 - 115
Manganese	102		P	85 - 115
Molybdenum	100		P	85 - 115
Nickel	100		P	85 - 115
Selenium	103		P	85 - 115
Silver	99.8		P	85 - 115
Thallium	95.9		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443474

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443477

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443666

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443669

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443272

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	92.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443278

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443234

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443238

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443295

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443298

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443358

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443230

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: P443269

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443292

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

Reference Method: EPA 8270E
Batch ID: P443187

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	44.2		P	30 - 96.0
Alpha-BHC	71.2		P	70 - 109
Alpha-Chlordane	48.0		P	45 - 107
Beta-BHC	86.1		P	64 - 138
Beta-Cyfluthrin	59.1		P	17 - 141
Bifenthrin	50.1		P	10 - 113
Chlorothalonil	60.2		P	26 - 180
Cis-Nonachlor	48.9		P	37 - 102
Cypermethrin	72.6		P	20 - 133
Dacthal	74.6		P	69 - 114
DDD-p,p'	51.7		P	42 - 105
DDE-p,p'	48.3		P	42 - 106
DDT-p,p'	59.4		P	42 - 107
Delta-BHC	88.2		P	67 - 144
Deltamethrin	69.9		P	15 - 149
Dichlobenil	50.6		P	46 - 117
Dicofol	50.6		P	34 - 114
Dieldrin	51.7		P	50 - 108
Endosulfan I	68.2		P	55 - 104
Endosulfan II	54.9		P	51 - 111
Endosulfan Sulfate	59.9		P	56 - 121
Endrin	53.1		P	10 - 106
Endrin Aldehyde	52.9		P	34 - 114
Endrin Ketone	64.7		P	63 - 177
Esfenvalerate	70.8		P	29 - 143
Ethalfuralin	58.9		P	46 - 96.0
Fenpropathrin	56.2		P	28 - 115
Gamma-BHC	80.3		P	65 - 121
Gamma-Chlordane	60.1		P	39 - 103
Heptachlor	42.7		P	39 - 94.0
Heptachlor Epoxide	54.6		P	54 - 104
Hexachlorobenzene	38.4		P	36 - 100
Kepone	109		P	10 - 225
Lambda-Cyhalothrin	63.4		P	10 - 135

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P443187

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methoprene	44.8		P	10 - 109
Methoxychlor	67.2		P	52 - 112
MGK-264	56.5		P	44 - 117
Mirex	42.5		P	20 - 90.0
Oxychlordane	51.0		P	44 - 102
PCB-1016	80.2		P	45 - 107
PCB-1260	81.7		P	40 - 118
Permethrin	58.7		P	18 - 135
Phenothrin	48.3		P	10 - 102
Piperonyl Butoxide	72.7		P	28 - 156
Prallethrin	57.5		P	28 - 113
Tau-Fluvalinate	59.1		P	10 - 123
Tetramethrin	85.0		P	18 - 158
Trans-Nonachlor	67.8		P	39 - 104
Triclosan Methyl	80.3		P	54 - 108
Trifluralin	58.8		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P443187

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	91.2		P	52 - 117
Toxaphene	98.7		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P443101

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	109		P	40 - 150
2,4,5-T	97.7		P	40 - 150
Acetaminophen	74.4		P	30 - 150
Acetamiprid	80.1		P	40 - 150
Afidopyropen	54.4		P	30 - 150
Bentazon	115		P	30 - 150
Benzovindiflupyr	76.5		P	40 - 150
Carbamazepine	76.6		P	40 - 150
Clothianidin	80.9		P	40 - 150
Dinotefuran	94.6		P	40 - 150
Diuron	83.1		P	40 - 150
Fenuron	85.2		P	40 - 150
Fluridone	85.5		P	40 - 150
Hydrocodone	88.5		P	40 - 150
Ibuprofen	75.4		P	40 - 150
Imazapyr	88.2		P	40 - 150
Imidacloprid	83.1		P	40 - 150
Linuron	78.6		P	40 - 150
Mandestrobin	84.6		P	40 - 150
MCPP	90.5		P	40 - 150
Naproxen	84.5		P	40 - 150
Primidone	79.0		P	40 - 150
Pyraclostrobin	75.4		P	40 - 150
Silvex	88.8		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P443101

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Thiamethoxam	85.5		P	40 - 150
Tolfenpyrad	51.5		P	30 - 150
Triclopyr	98.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P443106

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	117		P	40 - 150
AMPA	103		P	40 - 160
Endothall	102		P	40 - 160
Glufosinate	101		P	40 - 160
Glyphosate	92.5		P	40 - 160
Sucralose	96.9		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P443235

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.9		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P443289

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.9		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P443340

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.1		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P443618

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	100		P	85 - 115

Reference Method: SM 2540 C-2015
Batch ID: P443620

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	103		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P443491

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P443765

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	110		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P443240

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.5		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P443290

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.1		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P443342

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.7		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P443497

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.9		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P443517

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

Reference Method: SM 5310 B-2014
Batch ID: P443518

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

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P443200

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476772	Calcium	99.6		P	80 - 120
2476772	Chromium	99.2	99.4	P/P	80 - 120
2476772	Iron	104	104	P/P	80 - 120
2476772	Magnesium	104	105	P/P	80 - 120
2476772	Potassium	102	101	P/P	80 - 120
2476772	Sodium	103	102	P/P	80 - 120
2476772	Strontium	99.8	100	P/P	80 - 120
2476772	Tin	99.0	99.4	P/P	80 - 120
2476772	Titanium	101	102	P/P	80 - 120
2476772	Vanadium	104	106	P/P	80 - 120
2476772	Zinc	103	105	P/P	80 - 120
2476910	Calcium	104		P	80 - 120
2476910	Chromium	99.7		P	80 - 120
2476910	Iron	103		P	80 - 120
2476910	Magnesium	105		P	80 - 120
2476910	Potassium	97.1		P	80 - 120
2476910	Sodium	99.6		P	80 - 120
2476910	Strontium	99.3		P	80 - 120
2476910	Tin	99.5		P	80 - 120
2476910	Titanium	98.1		P	80 - 120
2476910	Vanadium	101		P	80 - 120
2476910	Zinc	103		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P443299

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477282	Chromium	100	98.8	P/P	80 - 120
2477282	Iron	103	102	P/P	80 - 120
2477282	Strontium	96.1	97.4	P/P	80 - 120
2477282	Tin	91.2	89.7	P/P	80 - 120
2477282	Titanium	93.7	92.0	P/P	80 - 120
2477282	Vanadium	103	103	P/P	80 - 120
2477282	Zinc	106	105	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P443200

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476772	Aluminum	103	102	P/P	80 - 120
2476772	Antimony	105	106	P/P	80 - 120
2476772	Arsenic	103	103	P/P	80 - 120
2476772	Barium	104	105	P/P	80 - 120
2476772	Beryllium	103	101	P/P	80 - 120
2476772	Boron	105	109	P/P	80 - 120
2476772	Cadmium	105	105	P/P	80 - 120
2476772	Cobalt	104	102	P/P	80 - 120
2476772	Copper	98.4	99.0	P/P	80 - 120
2476772	Lead	96.5	97.2	P/P	80 - 120
2476772	Manganese	103	102	P/P	80 - 120
2476772	Molybdenum	104	104	P/P	80 - 120
2476772	Nickel	100	100	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P443200

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476772	Selenium	103	105	P/P	80 - 120
2476772	Silver	102	102	P/P	80 - 120
2476772	Thallium	100	102	P/P	80 - 120
2476910	Aluminum	106		P	80 - 120
2476910	Antimony	104		P	80 - 120
2476910	Arsenic	103		P	80 - 120
2476910	Barium	105		P	80 - 120
2476910	Beryllium	104		P	80 - 120
2476910	Boron	111		P	80 - 120
2476910	Cadmium	103		P	80 - 120
2476910	Cobalt	105		P	80 - 120
2476910	Copper	103		P	80 - 120
2476910	Lead	98.6		P	80 - 120
2476910	Manganese	107		P	80 - 120
2476910	Molybdenum	103		P	80 - 120
2476910	Nickel	104		P	80 - 120
2476910	Selenium	102		P	80 - 120
2476910	Silver	102		P	80 - 120
2476910	Thallium	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P443299

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477282	Aluminum	106	105	P/P	70 - 130
2477282	Antimony	105	103	P/P	70 - 130
2477282	Arsenic	112	110	P/P	70 - 130
2477282	Barium	104	103	P/P	70 - 130
2477282	Beryllium	90.6	91.4	P/P	70 - 130
2477282	Boron	91.7	83.5	P/P	70 - 130
2477282	Cadmium	100	95.1	P/P	70 - 130
2477282	Cobalt	105	103	P/P	70 - 130
2477282	Copper	103	105	P/P	70 - 130
2477282	Lead	100	99.3	P/P	70 - 130
2477282	Manganese	94.1	91.7	P/P	70 - 130
2477282	Molybdenum	112	110	P/P	70 - 130
2477282	Nickel	105	103	P/P	70 - 130
2477282	Selenium	104	101	P/P	70 - 130
2477282	Silver	91.1	90.0	P/P	70 - 130
2477282	Thallium	97.5	99.5	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443474

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476788	Chloride	102		P	90 - 110
2476980	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443477

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443477

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476788	Sulfate	103		P	90 - 110
2476980	Sulfate	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443666

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2478221	Chloride	104		P	90 - 110
2478222	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443669

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2478221	Sulfate	105		P	90 - 110
2478222	Sulfate	106		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443272

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476561	Ammonia-N	98.6	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443278

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476807	Ammonia-N	96.0	95.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443234

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476850	Kjeldahl Nitrogen	103	98.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443238

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476824	Kjeldahl Nitrogen	105	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443295

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476820	NO2NO3-N	97.0	96.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443298

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476948	NO2NO3-N	95.5	96.0	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443358

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476824	NO2NO3-N	93.5	94.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443230

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476628	Total-P	97.5	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443269

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476779	Total-P	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443292

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476859	Total-P	103	102	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P443187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476760	Aldrin	59.9	54.4	P/P	24 - 81.0
2476760	Alpha-BHC	78.3	84.4	P/P	65 - 110
2476760	Alpha-Chlordane	62.7	58.6	P/P	43 - 119
2476760	Beta-BHC	122	119	P/P	54 - 165
2476760	Beta-Cyfluthrin	71.8	66.2	P/P	27 - 165
2476760	Bifenthrin	59.3	49.6	P/P	17 - 117
2476760	Chlorothalonil	63.5	27.6	P/P	10 - 255
2476760	Cis-Nonachlor	63.0	56.7	P/P	34 - 98.0
2476760	Cypermethrin	90.3	80.2	P/P	25 - 143
2476760	Dacthal	101	102	P/P	55 - 139
2476760	DDD-p,p'	62.4	60.3	P/P	30 - 109
2476760	DDE-p,p'	64.1	59.0	P/P	35 - 106
2476760	DDT-p,p'	76.9	72.5	P/P	41 - 101
2476760	Delta-BHC	125	121	P/P	58 - 165
2476760	Deltamethrin	86.8	77.3	P/P	10 - 194
2476760	Dichlobenil	59.5	52.1	P/P	22 - 114
2476760	Dicofol	59.4	59.5	P/P	17 - 133
2476760	Dieldrin	65.7	64.6	P/P	45 - 129
2476760	Endosulfan I	90.1	90.3	P/P	49 - 104
2476760	Endosulfan II	67.4	70.1	P/P	37 - 117
2476760	Endosulfan Sulfate	78.3	81.1	P/P	38 - 128
2476760	Endrin	68.2	67.0	P/P	35 - 116
2476760	Endrin Aldehyde	64.4	68.5	P/P	19 - 108
2476760	Endrin Ketone	85.5	89.6	P/P	44 - 134
2476760	Esfenvalerate	90.0	79.4	P/P	27 - 176
2476760	Ethalfuralin	88.3	76.1	P/P	49 - 100
2476760	Fenpropathrin	70.6	60.7	P/P	34 - 117
2476760	Gamma-BHC	108	110	P/P	59 - 129

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P443187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476760	Gamma-Chlordane	73.2	71.8	P/P	33 - 107
2476760	Heptachlor	55.4	51.3	P/P	37 - 94.0
2476760	Heptachlor Epoxide	66.8	65.9	P/P	38 - 118
2476760	Hexachlorobenzene	45.5	44.6	P/P	35 - 97.0
2476760	Kepone	133	129	P/P	10 - 221
2476760	Lambda-Cyhalothrin	76.7	69.5	P/P	23 - 190
2476760	Methoprene	50.3	44.6	P/P	21 - 109
2476760	Methoxychlor	86.1	82.4	P/P	46 - 118
2476760	MGK-264	82.4	84.3	P/P	39 - 122
2476760	Mirex	50.1	43.5	P/P	25 - 90.0
2476760	Oxychlordane	66.3	62.7	P/P	42 - 100
2476760	Permethrin	72.8	69.3	P/P	33 - 181
2476760	Phenothrin	56.9	49.8	P/P	12 - 125
2476760	Piperonyl Butoxide	95.0	98.4	P/P	10 - 178
2476760	Prallethrin	74.1	71.0	P/P	24 - 122
2476760	Tau-Fluvalinate	70.8	59.6	P/P	13 - 151
2476760	Tetramethrin	117	113	P/P	16 - 172
2476760	Trans-Nonachlor	87.7	78.5	P/P	39 - 100
2476760	Triclosan Methyl	109	103	P/P	43 - 110
2476760	Trifluralin	90.9	73.4	P/P	45 - 94.0
2477375	PCB-1016	65.4	61.8	P/P	45 - 107
2477375	PCB-1260	62.9	59.8	P/P	40 - 112

Reference Method: EPA 8276

Batch ID: P443187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477375	Chlordane	74.8	72.4	P/P	43 - 123
2477375	Toxaphene	82.2	83.2	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P443101

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476812	2,4-D	84.6	90.0	P/P	40 - 150
2476812	2,4,5-T	83.6	82.1	P/P	40 - 150
2476812	Acetaminophen	84.7	86.1	P/P	30 - 150
2476812	Acetamiprid	61.0	73.5	P/P	40 - 150
2476812	Afidopyropen	67.3	79.6	P/P	30 - 150
2476812	Bentazon	66.6	66.6	P/P	30 - 150
2476812	Benzovindiflupyr	84.0	87.0	P/P	40 - 150
2476812	Carbamazepine	70.6	70.7	P/P	40 - 150
2476812	Clothianidin	75.8	72.9	P/P	40 - 150
2476812	Dinotefuran	82.0	84.6	P/P	40 - 150
2476812	Diuron	71.5	73.0	P/P	40 - 150
2476812	Fenuron	64.1	65.6	P/P	40 - 150
2476812	Fluridone	78.4	84.8	P/P	40 - 150
2476812	Hydrocodone	68.8	70.2	P/P	40 - 150
2476812	Ibuprofen	83.9	83.2	P/P	40 - 150
2476812	Imazapyr	98.3	106	P/P	40 - 150
2476812	Imidacloprid	91.7	94.7	P/P	40 - 150
2476812	Linuron	67.3	72.5	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P443101

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476812	Mandestrobin	86.1	89.0	P/P	40 - 150
2476812	MCP	83.9	82.4	P/P	40 - 150
2476812	Naproxen	51.2	84.2	P/P	40 - 150
2476812	Primidone	87.0	87.5	P/P	40 - 150
2476812	Pyraclostrobin	83.3	86.6	P/P	40 - 150
2476812	Silvex	88.7	82.8	P/P	40 - 150
2476812	Thiamethoxam	75.5	78.5	P/P	40 - 150
2476812	Tolfenpyrad	59.0	57.6	P/P	30 - 150
2476812	Triclopyr	82.7	80.3	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P443106

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476812	Acesulfame K	137	136	P/P	40 - 150
2476812	AMPA	92.6	91.2	P/P	40 - 160
2476812	Endothall	114	123	P/P	40 - 160
2476812	Glufosinate	79.7	89.2	P/P	40 - 160
2476812	Glyphosate	105	97.5	P/P	40 - 160
2476812	Sucralose	114	109	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P443240

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476727	Fluoride	98.0	97.5	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P443290

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477134	Fluoride	95.8	95.3	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P443342

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476853	Fluoride	97.8	98.4	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P443497

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2477611	Fluoride	102	99.9	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P443517

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476828	Organic Carbon	100	101	P/P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2014
Batch ID: P443518

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2476667	Organic Carbon	99.1	101	P/P	85 - 115

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

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P443149

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476806	Color (true)	7.75	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P443150

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476858	Color (true)	4.71	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P443156

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476806	Turbidity	8.77	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P443200

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476772	Calcium	0.278	Spike	P	0 - 20
2476772	Chromium	0.188	Spike	P	0 - 20
2476772	Iron	0.154	Spike	P	0 - 20
2476772	Magnesium	0.338	Spike	P	0 - 20
2476772	Potassium	0.250	Spike	P	0 - 20
2476772	Sodium	0.285	Spike	P	0 - 20
2476772	Strontium	0.421	Spike	P	0 - 20
2476772	Tin	0.491	Spike	P	0 - 20
2476772	Titanium	0.186	Spike	P	0 - 20
2476772	Vanadium	1.45	Spike	P	0 - 20
2476772	Zinc	0.822	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P443299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477282	Calcium	0.184	Spike	P	0 - 20
2477282	Chromium	1.55	Spike	P	0 - 20
2477282	Iron	0.812	Spike	P	0 - 20
2477282	Magnesium	0.889	Spike	P	0 - 20
2477282	Potassium	0.413	Spike	P	0 - 20
2477282	Sodium	1.69	Spike	P	0 - 20
2477282	Strontium	0.663	Spike	P	0 - 20
2477282	Tin	1.73	Spike	P	0 - 20
2477282	Titanium	1.36	Spike	P	0 - 20
2477282	Vanadium	0.640	Spike	P	0 - 20
2477282	Zinc	1.08	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P443200

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476772	Aluminum	1.08	Spike	P	0 - 20
2476772	Antimony	0.637	Spike	P	0 - 20
2476772	Arsenic	0.163	Spike	P	0 - 20
2476772	Barium	0.905	Spike	P	0 - 20
2476772	Beryllium	1.80	Spike	P	0 - 20
2476772	Boron	2.70	Spike	P	0 - 20
2476772	Cadmium	0.250	Spike	P	0 - 20
2476772	Cobalt	1.69	Spike	P	0 - 20
2476772	Copper	0.545	Spike	P	0 - 20
2476772	Lead	0.743	Spike	P	0 - 20
2476772	Manganese	0.699	Spike	P	0 - 20
2476772	Molybdenum	0.565	Spike	P	0 - 20
2476772	Nickel	0.0622	Spike	P	0 - 20
2476772	Selenium	2.18	Spike	P	0 - 20
2476772	Silver	0.402	Spike	P	0 - 20
2476772	Thallium	1.71	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P443299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477282	Aluminum	0.802	Spike	P	0 - 20
2477282	Antimony	1.94	Spike	P	0 - 20
2477282	Arsenic	1.26	Spike	P	0 - 20
2477282	Barium	1.35	Spike	P	0 - 20
2477282	Beryllium	0.893	Spike	P	0 - 20
2477282	Boron	1.28	Spike	P	0 - 20
2477282	Cadmium	5.10	Spike	P	0 - 20
2477282	Cobalt	1.89	Spike	P	0 - 20
2477282	Copper	1.48	Spike	P	0 - 20
2477282	Lead	0.749	Spike	P	0 - 20
2477282	Manganese	2.18	Spike	P	0 - 20
2477282	Molybdenum	1.63	Spike	P	0 - 20
2477282	Nickel	1.62	Spike	P	0 - 20
2477282	Selenium	2.62	Spike	P	0 - 20
2477282	Silver	1.17	Spike	P	0 - 20
2477282	Thallium	2.07	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443474

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476788	Chloride	1.53	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443477

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443477

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476788	Sulfate	2.35	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478221	Chloride	1.17	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P443669

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2478221	Sulfate	1.08	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443272

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476561	Ammonia-N	0.567	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P443278

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476807	Ammonia-N	0.138	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443234

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476850	Kjeldahl Nitrogen	2.96	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P443238

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476824	Kjeldahl Nitrogen	3.36	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443295

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476820	NO2NO3-N	0.385	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443298

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476948	NO2NO3-N	0.522	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P443358

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476824	NO2NO3-N	1.06	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443230

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476628	Total-P	0.563	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476779	Total-P	1.10	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P443292

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476859	Total-P	1.35	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P443187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476760	Aldrin	9.73	Spike	P	0 - 41
2476760	Alpha-BHC	7.43	Spike	P	0 - 25
2476760	Alpha-Chlordane	6.84	Spike	P	0 - 32
2476760	Beta-BHC	2.55	Spike	P	0 - 33
2476760	Beta-Cyfluthrin	8.10	Spike	P	0 - 43
2476760	Bifenthrin	17.8	Spike	P	0 - 52
2476760	Chlorothalonil	78.8	Spike	P	0 - 82
2476760	Cis-Nonachlor	10.4	Spike	P	0 - 33
2476760	Cypermethrin	11.9	Spike	P	0 - 51
2476760	Dacthal	1.50	Spike	P	0 - 27
2476760	DDD-p,p'	3.39	Spike	P	0 - 39
2476760	DDE-p,p'	8.34	Spike	P	0 - 31
2476760	DDT-p,p'	5.79	Spike	P	0 - 29
2476760	Delta-BHC	3.02	Spike	P	0 - 35
2476760	Deltamethrin	11.6	Spike	P	0 - 100
2476760	Dichlobenil	13.2	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P443187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476760	Dicofol	0.204	Spike	P	0 - 37
2476760	Dieldrin	1.71	Spike	P	0 - 27
2476760	Endosulfan I	0.136	Spike	P	0 - 23
2476760	Endosulfan II	3.98	Spike	P	0 - 34
2476760	Endosulfan Sulfate	3.52	Spike	P	0 - 36
2476760	Endrin	1.89	Spike	P	0 - 45
2476760	Endrin Aldehyde	6.27	Spike	P	0 - 76
2476760	Endrin Ketone	4.66	Spike	P	0 - 43
2476760	Esfenvalerate	12.5	Spike	P	0 - 51
2476760	Ethalfuralin	14.8	Spike	P	0 - 22
2476760	Fenpropathrin	15.1	Spike	P	0 - 49
2476760	Gamma-BHC	1.88	Spike	P	0 - 28
2476760	Gamma-Chlordane	1.97	Spike	P	0 - 40
2476760	Heptachlor	7.77	Spike	P	0 - 29
2476760	Heptachlor Epoxide	1.33	Spike	P	0 - 33
2476760	Hexachlorobenzene	1.88	Spike	P	0 - 36
2476760	Kepone	2.96	Spike	P	0 - 85
2476760	Lambda-Cyhalothrin	9.86	Spike	P	0 - 55
2476760	Methoprene	12.1	Spike	P	0 - 53
2476760	Methoxychlor	4.32	Spike	P	0 - 50
2476760	MGK-264	2.20	Spike	P	0 - 43
2476760	Mirex	14.2	Spike	P	0 - 40
2476760	Oxychlordane	5.61	Spike	P	0 - 31
2476760	Permethrin	4.91	Spike	P	0 - 50
2476760	Phenothrin	13.3	Spike	P	0 - 58
2476760	Piperonyl Butoxide	3.56	Spike	P	0 - 100
2476760	Prallethrin	4.18	Spike	P	0 - 39
2476760	Tau-Fluvalinate	17.2	Spike	P	0 - 54
2476760	Tetramethrin	3.09	Spike	P	0 - 51
2476760	Trans-Nonachlor	11.0	Spike	P	0 - 39
2476760	Triclosan Methyl	5.50	Spike	P	0 - 31
2476760	Trifluralin	21.3	Spike	P	0 - 22
2477375	PCB-1016	5.76	Spike	P	0 - 25
2477375	PCB-1260	4.93	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P443187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477375	Chlordane	3.26	Spike	P	0 - 28
2477375	Toxaphene	1.13	Spike	P	0 - 27

Reference Method: EPA 8321B
Batch ID: P443101

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476812	2,4-D	3.89	Spike	P	0 - 30
2476812	2,4,5-T	1.80	Spike	P	0 - 30
2476812	Acetaminophen	1.59	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P443101

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476812	Acetamiprid	18.5	Spike	P	0 - 30
2476812	Afidopyropen	16.8	Spike	P	0 - 30
2476812	Bentazon	0.0485	Spike	P	0 - 30
2476812	Benzovindiflupyr	3.55	Spike	P	0 - 30
2476812	Carbamazepine	0.0345	Spike	P	0 - 30
2476812	Clothianidin	3.19	Spike	P	0 - 30
2476812	Dinotefuran	3.08	Spike	P	0 - 30
2476812	Diuron	1.95	Spike	P	0 - 30
2476812	Fenuron	2.26	Spike	P	0 - 30
2476812	Fluridone	7.24	Spike	P	0 - 30
2476812	Hydrocodone	1.91	Spike	P	0 - 30
2476812	Ibuprofen	0.736	Spike	P	0 - 30
2476812	Imazapyr	4.19	Spike	P	0 - 30
2476812	Imidacloprid	2.77	Spike	P	0 - 30
2476812	Linuron	7.37	Spike	P	0 - 30
2476812	Mandestrobin	3.35	Spike	P	0 - 30
2476812	MCPP	1.81	Spike	P	0 - 30
2476812	Naproxen	48.7	Spike	F	0 - 30
2476812	Primidone	0.542	Spike	P	0 - 30
2476812	Pyraclostrobin	3.90	Spike	P	0 - 30
2476812	Silvex	6.85	Spike	P	0 - 30
2476812	Thiamethoxam	2.58	Spike	P	0 - 30
2476812	Tolfenpyrad	2.48	Spike	P	0 - 30
2476812	Triclopyr	2.87	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P443106

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476812	Acesulfame K	0.930	Spike	P	0 - 30
2476812	AMPA	1.22	Spike	P	0 - 30
2476812	Endothall	6.79	Spike	P	0 - 30
2476812	Glufosinate	11.2	Spike	P	0 - 30
2476812	Glyphosate	5.88	Spike	P	0 - 30
2476812	Sucralose	2.46	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P443235

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476727	Total Alkalinity	1.40	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P443289

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477134	Total Alkalinity	1.44	Sample	P	0 - 3.9

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P443340

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476853	Total Alkalinity	3.70	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P443618

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476817	TDS	1.28	Sample	P	0 - 10

Reference Method: SM 2540 C-2015
Batch ID: P443620

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476858	TDS	4.30	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P443765

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476926	TSS	13.3	Sample	F	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P443240

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476727	Fluoride	0.490	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P443290

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477134	Fluoride	0.539	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P443342

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476853	Fluoride	0.480	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P443497

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2477611	Fluoride	0.995	Spike	P	0 - 1.9

Quality Assurance Report
Precision

Reference Method: SM 5310 B-2014
Batch ID: P443517

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476828	Organic Carbon	0.372	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P443518

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2476667	Organic Carbon	1.57	Spike	P	0 - 15

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

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

Quality Assurance Report

Surrogates

Lab Sample ID: 2476861

Field Sample ID: G5SE0079

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	64.8	P	37 - 129
EPA 8270E	Decachlorobiphenyl	81.3	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	63.8	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	62.4	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	58.5	P	23 - 110
EPA 8276	PCNB	79.6	P	51 - 130

Lab Sample ID: 2476869

Field Sample ID: G5SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.3	P	30 - 160
EPA 8321B	Diuron-d6	65.2	P	30 - 160
EPA 8321B	Endothall-d6	113	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	83.9	P	30 - 160
EPA 8321B	Primidone-d5	79.3	P	30 - 160
EPA 8321B	Sucralose-d6	105	P	30 - 160

Lab Sample ID: 2476870

Field Sample ID: G5SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	78.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	78.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.3	P	30 - 160
EPA 8321B	Diuron-d6	61.3	P	30 - 160
EPA 8321B	Endothall-d6	114	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	87.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	81.6	P	30 - 160
EPA 8321B	Primidone-d5	71.5	P	30 - 160
EPA 8321B	Sucralose-d6	70.5	P	30 - 160

Lab Sample ID: 2476871

Field Sample ID: G5SE0062

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	81.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.8	P	30 - 160
EPA 8321B	Diuron-d6	60.2	P	30 - 160
EPA 8321B	Endothall-d6	117	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	89.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	85.6	P	30 - 160
EPA 8321B	Primidone-d5	79.4	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2476872
Field Sample ID: G5SE0079

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	98.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	92.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	77.5	P	30 - 160
EPA 8321B	Diuron-d6	74.7	P	30 - 160
EPA 8321B	Endothall-d6	106	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	77.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	74.6	P	30 - 160
EPA 8321B	Primidone-d5	89.9	P	30 - 160
EPA 8321B	Sucralose-d6	42.4	P	30 - 160

Lab Sample ID: 2476873
Field Sample ID: G5SE0151

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	90.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.7	P	30 - 160
EPA 8321B	Diuron-d6	59.6	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	82.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.2	P	30 - 160
EPA 8321B	Primidone-d5	81.6	P	30 - 160
EPA 8321B	Sucralose-d6	67.5	P	30 - 160

Lab Sample ID: 2476874
Field Sample ID: G5SE0145

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	84.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	87.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.2	P	30 - 160
EPA 8321B	Diuron-d6	65.0	P	30 - 160
EPA 8321B	Endothall-d6	112	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	88.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	78.5	P	30 - 160
EPA 8321B	Primidone-d5	67.9	P	30 - 160
EPA 8321B	Sucralose-d6	99.6	P	30 - 160

Lab Sample ID: 2476875
Field Sample ID: FB_03202024

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	104	P	30 - 160
EPA 8321B	Acetaminophen-d4	81.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	96.0	P	30 - 160
EPA 8321B	Diuron-d6	88.3	P	30 - 160
EPA 8321B	Endothall-d6	100	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Ibuprofen-d3	85.2	P	30 - 160
EPA 8321B	Primidone-d5	89.2	P	30 - 160
EPA 8321B	Sucralose-d6	94.8	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A124901

Included Lab Sample IDs: 2476817, 2476819, 2476821, 2476823, 2476825, 2476827, 2476829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	101	P/P	90 - 110
Color (true)	101	100	P/P	90 - 110
Color (true)	102	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A124905

Included Lab Sample IDs: 2476817, 2476819, 2476821, 2476823, 2476825, 2476827, 2476829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	99.5	P/P	95 - 105
Turbidity	99.5	99.0	P/P	95 - 105

Reference Method: SM 2320 B-2011

Run ID: A124952

Included Lab Sample IDs: 2476817, 2476819, 2476825, 2476827, 2476829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.4	97.1	P/P	90 - 110
Total Alkalinity	100	94.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A124952

Included Lab Sample IDs: 2476817, 2476819, 2476827, 2476829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.5	99.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A124957

Included Lab Sample IDs: 2476869, 2476870, 2476871, 2476872, 2476873, 2476874, 2476875

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	101	102	P/P	60 - 160
AMPA	102	96.5	P/P	60 - 160
AMPA	96.5	101	P/P	60 - 160
Endothall	93.9	97.8	P/P	60 - 160
Endothall	96.4	93.9	P/P	60 - 160
Glufosinate	86.8	93.6	P/P	60 - 160
Glufosinate	93.6	101	P/P	60 - 160
Glufosinate	98.7	86.8	P/P	60 - 160
Glyphosate	92.3	99.6	P/P	60 - 160
Glyphosate	95.9	92.3	P/P	60 - 160
Glyphosate	99.6	99.4	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A124967

Included Lab Sample IDs: 2476824

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.8	98.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A124969

Included Lab Sample IDs: 2476818, 2476820, 2476822, 2476826, 2476828, 2476830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.6	98.4	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A124971

Included Lab Sample IDs: 2476869, 2476870, 2476871, 2476872, 2476873, 2476874, 2476875

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	118	132	P/P	60 - 160
Acesulfame K	125	137	P/P	60 - 160
Sucralose	106	106	P/P	60 - 160
Sucralose	96.9	106	P/P	60 - 160

Reference Method: SM 2320 B-2011

Run ID: A124976

Included Lab Sample IDs: 2476821

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.6	97.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A124976

Included Lab Sample IDs: 2476821

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	97.0	98.5	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A124980

Included Lab Sample IDs: 2476882

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.9	104	P/P	90 - 110
Antimony	99.9	99.2	P/P	90 - 110
Arsenic	102	101	P/P	90 - 110
Barium	101	101	P/P	90 - 110
Beryllium	96.7	102	P/P	90 - 110
Boron	98.0	105	P/P	90 - 110
Cadmium	100	99.9	P/P	90 - 110
Cobalt	101	103	P/P	90 - 110
Copper	99.8	101	P/P	90 - 110
Lead	95.0	95.9	P/P	90 - 110
Manganese	96.9	98.3	P/P	90 - 110
Molybdenum	99.9	100	P/P	90 - 110
Nickel	99.6	101	P/P	90 - 110
Selenium	101	101	P/P	90 - 110
Silver	99.0	99.7	P/P	90 - 110
Thallium	100	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A124981

Included Lab Sample IDs: 2476818, 2476820, 2476822, 2476826, 2476828, 2476830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	98.5	P/P	90 - 110
NO2NO3-N	98.0	99.0	P/P	90 - 110
NO2NO3-N	99.0	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124987

Included Lab Sample IDs: 2476818, 2476820

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124993

Included Lab Sample IDs: 2476822, 2476824

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	97.5	P/P	90 - 110
Total-P	98.5	97.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A124997

Included Lab Sample IDs: 2476869, 2476870, 2476871, 2476872, 2476873, 2476874, 2476875

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	117	114	P/P	50 - 150
2,4-D	123	117	P/P	50 - 150
2,4,5-T	102	93.7	P/P	50 - 150
2,4,5-T	93.7	103	P/P	50 - 150
Acetaminophen	105	101	P/P	60 - 160
Acetaminophen	106	105	P/P	60 - 160
Acetamiprid	114	117	P/P	50 - 150
Acetamiprid	115	114	P/P	50 - 150
Afidopyropen	105	110	P/P	50 - 150
Afidopyropen	93.2	105	P/P	50 - 150
Bentazon	115	134	P/P	50 - 160
Bentazon	134	129	P/P	50 - 160
Bentazon	135	139	P/P	50 - 160
Benzovindiflupyr	101	104	P/P	50 - 150
Benzovindiflupyr	104	101	P/P	50 - 150
Carbamazepine	106	112	P/P	60 - 150
Carbamazepine	106	106	P/P	60 - 150
Clothianidin	101	105	P/P	60 - 150
Clothianidin	107	101	P/P	60 - 150
Dinotefuran	109	105	P/P	50 - 150
Dinotefuran	109	109	P/P	50 - 150
Diuron	111	116	P/P	60 - 160
Diuron	118	111	P/P	60 - 160
Fenuron	106	106	P/P	60 - 150
Fenuron	107	106	P/P	60 - 150
Fluridone	102	106	P/P	60 - 160
Fluridone	106	105	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A124997

Included Lab Sample IDs: 2476869, 2476870, 2476871, 2476872, 2476873, 2476874, 2476875

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hydrocodone	110	111	P/P	60 - 150
Hydrocodone	111	112	P/P	60 - 150
Ibuprofen	102	112	P/P	50 - 160
Ibuprofen	112	121	P/P	50 - 160
Imazapyr	105	107	P/P	50 - 150
Imazapyr	96.2	98.1	P/P	50 - 150
Imazapyr	98.1	96.7	P/P	50 - 150
Imidacloprid	104	104	P/P	60 - 150
Imidacloprid	104	102	P/P	60 - 150
Linuron	101	103	P/P	60 - 150
Linuron	103	110	P/P	60 - 150
Mandestrobin	103	107	P/P	50 - 150
Mandestrobin	107	105	P/P	50 - 150
MCPP	102	105	P/P	50 - 150
MCPP	108	102	P/P	50 - 150
Naproxen	74.7	82.7	P/P	50 - 160
Naproxen	82.7	76.5	P/P	50 - 160
Primidone	102	96.4	P/P	60 - 150
Primidone	111	102	P/P	60 - 150
Pyraclostrobin	110	112	P/P	60 - 150
Pyraclostrobin	112	111	P/P	60 - 150
Silvex	109	112	P/P	50 - 150
Silvex	97.1	109	P/P	50 - 150
Thiamethoxam	111	115	P/P	50 - 150
Thiamethoxam	115	113	P/P	50 - 150
Tolfenpyrad	104	106	P/P	60 - 150
Tolfenpyrad	106	103	P/P	60 - 150
Triclopyr	101	95.4	P/P	50 - 150
Triclopyr	95.4	98.2	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124998

Included Lab Sample IDs: 2476818, 2476820, 2476822, 2476826, 2476828, 2476830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	101	P/P	90 - 110
Kjeldahl Nitrogen	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A125000

Included Lab Sample IDs: 2476824

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A125001

Included Lab Sample IDs: 2476826, 2476828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.1	97.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A125002
Included Lab Sample IDs: 2476830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.8	96.8	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A125005
Included Lab Sample IDs: 2476823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	99.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A125005
Included Lab Sample IDs: 2476823

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.5	100	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A125008
Included Lab Sample IDs: 2476881, 2476882

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	100	P/P	95 - 105
Calcium	99.2	99.0	P/P	90 - 110
Chromium	100	100	P/P	90 - 110
Chromium	101	101	P/P	95 - 105
Iron	102	101	P/P	95 - 105
Iron	98.7	98.9	P/P	90 - 110
Magnesium	102	102	P/P	95 - 105
Magnesium	100	99.9	P/P	90 - 110
Potassium	102	100	P/P	95 - 105
Potassium	99.0	98.6	P/P	90 - 110
Sodium	99.1	97.5	P/P	95 - 105
Strontium	100	101	P/P	95 - 105
Strontium	100	99.1	P/P	90 - 110
Tin	101	100	P/P	90 - 110
Tin	102	102	P/P	95 - 105
Titanium	100	99.2	P/P	95 - 105
Titanium	98.8	99.3	P/P	90 - 110
Vanadium	102	100	P/P	95 - 105
Vanadium	99.7	99.9	P/P	90 - 110
Zinc	101	101	P/P	90 - 110
Zinc	102	102	P/P	95 - 105

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A125013
Included Lab Sample IDs: 2476881

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.5	102	P/P	90 - 110
Antimony	99.4	98.6	P/P	90 - 110
Arsenic	99.4	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A125013

Included Lab Sample IDs: 2476881

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	100	101	P/P	90 - 110
Beryllium	97.2	97.4	P/P	90 - 110
Boron	101	99.8	P/P	90 - 110
Cadmium	99.2	97.9	P/P	90 - 110
Cobalt	99.0	100	P/P	90 - 110
Copper	99.0	101	P/P	90 - 110
Lead	93.7	93.7	P/P	90 - 110
Manganese	96.6	96.7	P/P	90 - 110
Molybdenum	98.2	97.5	P/P	90 - 110
Nickel	98.0	99.9	P/P	90 - 110
Selenium	100	100	P/P	90 - 110
Silver	97.8	98.2	P/P	90 - 110
Thallium	98.8	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A125014

Included Lab Sample IDs: 2476824

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A125018

Included Lab Sample IDs: 2476817, 2476819, 2476821, 2476825, 2476829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.1	94.7	P/P	90 - 110
Chloride	99.5	99.1	P/P	90 - 110
Sulfate	100	96.0	P/P	90 - 110
Sulfate	101	100	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A125022

Included Lab Sample IDs: 2476881

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sodium	99.1	98.3	P/P	95 - 105

Reference Method: SM 4500-F- C-2011

Run ID: A125062

Included Lab Sample IDs: 2476825

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

Reference Method: SM 5310 B-2014

Run ID: A125070

Included Lab Sample IDs: 2476818, 2476820, 2476822, 2476826, 2476828, 2476830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	116	98.8	P/P	70 - 130

Quality Assurance Report
Calibration Verification

Reference Method: SM 5310 B-2014
Run ID: A125070
Included Lab Sample IDs: 2476818, 2476820, 2476822, 2476826, 2476828, 2476830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	100	P/P	85 - 115

Reference Method: SM 5310 B-2014
Run ID: A125084
Included Lab Sample IDs: 2476824

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

Reference Method: EPA 8276
Run ID: A125087
Included Lab Sample IDs: 2476861

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.7		P	80 - 120
Toxaphene	105		P	80 - 120

Reference Method: EPA 8270E
Run ID: A125108
Included Lab Sample IDs: 2476861

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	103		P	80 - 120
PCB-1260	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A125129
Included Lab Sample IDs: 2476823, 2476827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.8	98.9	P/P	90 - 110
Sulfate	100	100	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A125171
Included Lab Sample IDs: 2476861

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	102		P	80 - 120
Alpha-BHC	96.8		P	80 - 120
Alpha-Chlordane	98.8		P	80 - 120
Beta-BHC	97.7		P	80 - 120
Beta-Cyfluthrin	101		P	80 - 120
Bifenthrin	101		P	80 - 120
Chlorothalonil	104		P	80 - 120
Cis-Nonachlor	104		P	80 - 120
Cypermethrin	101		P	80 - 120
Dacthal	102		P	80 - 120
DDD-p,p'	100		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A125171
Included Lab Sample IDs: 2476861

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Delta-BHC	105		P	80 - 120
Deltamethrin	103		P	80 - 120
Dichlobenil	100		P	80 - 120
Dicofol	99.7		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	97.0		P	80 - 120
Endosulfan Sulfate	99.3		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	99.5		P	80 - 120
Esfenvalerate	103		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	104		P	80 - 120
Gamma-BHC	104		P	80 - 120
Gamma-Chlordane	100		P	80 - 120
Heptachlor	104		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	95.9		P	80 - 120
Kepone	84.5		P	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoprene	102		P	80 - 120
Methoxychlor	104		P	80 - 120
MGK-264	98.7		P	80 - 120
Mirex	97.9		P	80 - 120
Oxychlordane	102		P	80 - 120
Permethrin	99.4		P	80 - 120
Phenothrin	101		P	80 - 120
Piperonyl Butoxide	104		P	80 - 120
Prallethrin	102		P	80 - 120
Tau-Fluvalinate	102		P	80 - 120
Tetramethrin	106		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	102		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	99.4				7.75	
	Color (true)	99.2				4.71	
	Color (true)	97.3					
EPA 180.1 Rev. 2.0	Turbidity	102				8.77	
EPA 200.7 Rev. 4.4	Calcium	100	99.6	104			0.278
	Calcium	101					0.184
	Chromium	101	99.2	99.4	99.7		0.188
	Chromium	99.7	100	98.8			1.55
	Iron	105	104	104	103		0.154
	Iron	104	103	102			0.812
	Magnesium	108	104	105	105		0.338
	Magnesium	101					0.889
	Potassium	103	102	101	97.1		0.250
	Potassium	97.4					0.413
	Sodium	105	103	102	99.6		0.285
	Sodium	98.0					1.69
	Strontium	102	99.8	100	99.3		0.421
	Strontium	98.9	96.1	97.4			0.663
	Tin	101	99.0	99.4	99.5		0.491
	Tin	100	91.2	89.7			1.73
	Titanium	100	101	102	98.1		0.186
	Titanium	98.7	93.7	92.0			1.36
	Vanadium	102	106	101	104		1.45
	Vanadium	98.8	103	103			0.640
	Zinc	106	103	105	103		0.822
	Zinc	103	106	105			1.08
EPA 200.8 Rev. 5.4	Aluminum	104	103	102	106		1.08
	Aluminum	101	106	105			0.802
	Antimony	104	105	106	104		0.637
	Antimony	104	105	103			1.94
	Arsenic	104	103	103	103		0.163
	Arsenic	102	112	110			1.26
	Barium	105	104	105	105		0.905
	Barium	104	104	103			1.35
	Beryllium	99.5	103	101	104		1.80
	Beryllium	96.1	91.4	90.6			0.893
	Boron	106	105	109	111		2.70
	Boron	106	91.7	83.5			1.28
	Cadmium	103	105	105	103		0.250
	Cadmium	102	100	95.1			5.10
	Cobalt	106	104	102	105		1.69
	Cobalt	102	105	103			1.89
	Copper	103	98.4	99.0	103		0.545
	Copper	99.2	103	105			1.48
	Lead	97.0	96.5	97.2	98.6		0.743
	Lead	96.2	100	99.3			0.749
	Manganese	103	103	102	107		0.699
	Manganese	102	94.1	91.7			2.18
	Molybdenum	102	104	104	103		0.565
	Molybdenum	100	112	110			1.63
	Nickel	103	100	100	104		0.0622
	Nickel	100	105	103			1.62
	Selenium	105	103	105	102		2.18
	Selenium	103	104	101			2.62

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
EPA 200.8 Rev. 5.4	Silver	103	102	102	102		0.402
	Silver	99.8	91.1	90.0			1.17
	Thallium	99.3	100	102	102		1.71
	Thallium	95.9	97.5	99.5			2.07
EPA 300.0 Rev. 2.1	Chloride	102	102	100		1.53	
	Chloride	103	104	104		1.17	
	Sulfate	103	103	101		2.35	
	Sulfate	105	105	106		1.08	
EPA 350.1 Rev. 2.0	Ammonia-N	92.8	98.6	98.0			0.567
	Ammonia-N	93.8	96.0	95.8			0.138
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.9	103	98.9			2.96
	Kjeldahl Nitrogen	103	105	101			3.36
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	97.0	96.4			0.385
	NO2NO3-N	98.0	95.5	96.0			0.522
	NO2NO3-N	98.5	93.5	94.5			1.06
EPA 365.1 Rev. 2.0	Total-P	101	97.5	98.0			0.563
	Total-P	102	102	104			1.10
	Total-P	104	103	102			1.35
EPA 8270E	Aldrin	44.2	59.9	54.4			9.73
	Alpha-BHC	71.2	78.3	84.4			7.43
	Alpha-Chlordane	48.0	62.7	58.6			6.84
	Beta-BHC	86.1	122	119			2.55
	Beta-Cyfluthrin	59.1	71.8	66.2			8.10
	Bifenthrin	50.1	59.3	49.6			17.8
	Chlorothalonil	60.2	63.5	27.6			78.8
	Cis-Nonachlor	48.9	63.0	56.7			10.4
	Cypermethrin	72.6	90.3	80.2			11.9
	Dacthal	74.6	101	102			1.50
	DDD-p,p'	51.7	62.4	60.3			3.39
	DDE-p,p'	48.3	64.1	59.0			8.34
	DDT-p,p'	59.4	76.9	72.5			5.79
	Delta-BHC	88.2	125	121			3.02
	Deltamethrin	69.9	86.8	77.3			11.6
	Dichlobenil	50.6	59.5	52.1			13.2
	Dicofol	50.6	59.4	59.5			0.204
	Dieldrin	51.7	65.7	64.6			1.71
	Endosulfan I	68.2	90.1	90.3			0.136
	Endosulfan II	54.9	67.4	70.1			3.98
	Endosulfan Sulfate	59.9	78.3	81.1			3.52
	Endrin	53.1	68.2	67.0			1.89
	Endrin Aldehyde	52.9	64.4	68.5			6.27
	Endrin Ketone	64.7	85.5	89.6			4.66
	Esfenvalerate	70.8	90.0	79.4			12.5
	Ethalfuralin	58.9	88.3	76.1			14.8
	Fenpropathrin	56.2	70.6	60.7			15.1
	Gamma-BHC	80.3	108	110			1.88
	Gamma-Chlordane	60.1	73.2	71.8			1.97
	Heptachlor	42.7	55.4	51.3			7.77
	Heptachlor Epoxide	54.6	66.8	65.9			1.33
	Hexachlorobenzene	38.4	45.5	44.6			1.88
	Kepone	109	133	129			2.96
	Lambda-Cyhalothrin	63.4	76.7	69.5			9.86
	Methoprene	44.8	50.3	44.6			12.1
	Methoxychlor	67.2	86.1	82.4			4.32

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	MGK-264	56.5	82.4	84.3			2.20
	Mirex	42.5	50.1	43.5			14.2
	Oxychlordane	51.0	66.3	62.7			5.61
	PCB-1016	80.2	65.4	61.8			5.76
	PCB-1260	81.7	62.9	59.8			4.93
	Permethrin	58.7	72.8	69.3			4.91
	Phenothrin	48.3	56.9	49.8			13.3
	Piperonyl Butoxide	72.7	95.0	98.4			3.56
	Prallethrin	57.5	74.1	71.0			4.18
	Tau-Fluvalinate	59.1	70.8	59.6			17.2
	Tetramethrin	85.0	117	113			3.09
	Trans-Nonachlor	67.8	87.7	78.5			11.0
	Triclosan Methyl	80.3	109	103			5.50
	Trifluralin	58.8	90.9	73.4			21.3
EPA 8276	Chlordane	91.2	74.8	72.4			3.26
	Toxaphene	98.7	82.2	83.2			1.13
EPA 8321B	2,4-D	109	84.6	90.0			3.89
	2,4,5-T	97.7	83.6	82.1			1.80
	Acesulfame K	117	137	136			0.930
	Acetaminophen	74.4	84.7	86.1			1.59
	Acetamiprid	80.1	61.0	73.5			18.5
	Afidopyropen	54.4	67.3	79.6			16.8
	AMPA	103	92.6	91.2			1.22
	Bentazon	115	66.6	66.6			0.0485
	Benzovindiflupyr	76.5	84.0	87.0			3.55
	Carbamazepine	76.6	70.6	70.7			0.0345
	Clothianidin	80.9	75.8	72.9			3.19
	Dinotefuran	94.6	82.0	84.6			3.08
	Diuron	83.1	71.5	73.0			1.95
	Endothall	102	114	123			6.79
	Fenuron	85.2	64.1	65.6			2.26
	Fluridone	85.5	78.4	84.8			7.24
	Glufosinate	101	79.7	89.2			11.2
	Glyphosate	92.5	105	97.5			5.88
	Hydrocodone	88.5	68.8	70.2			1.91
	Ibuprofen	75.4	83.9	83.2			0.736
	Imazapyr	88.2	98.3	106			4.19
	Imidacloprid	83.1	91.7	94.7			2.77
	Linuron	78.6	67.3	72.5			7.37
	Mandestrobin	84.6	86.1	89.0			3.35
	MCPP	90.5	83.9	82.4			1.81
	Naproxen	84.5	51.2	84.2			48.7
	Primidone	79.0	87.0	87.5			0.542
	Pyraclostrobin	75.4	83.3	86.6			3.90
	Silvex	88.8	88.7	82.8			6.85
	Sucralose	96.9	114	109			2.46
	Thiamethoxam	85.5	75.5	78.5			2.58
	Tolfenpyrad	51.5	59.0	57.6			2.48
	Triclopyr	98.9	82.7	80.3			2.87
SM 2320 B-2011	Total Alkalinity	95.9				1.40	
	Total Alkalinity	97.9				1.44	
	Total Alkalinity	98.1				3.70	
SM 2540 C-2015	TDS	100				1.28	
	TDS	103				4.30	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 2540 D-2015	TSS	102					
	TSS	110				13.3	
SM 4500-F- C-2011	Fluoride	97.5	98.0	97.5			0.490
	Fluoride	97.1	95.8	95.3			0.539
	Fluoride	97.7	97.8	98.4			0.480
	Fluoride	97.9	102	99.9			0.995
SM 5310 B-2014	Organic Carbon	98.4	100	101			0.372
	Organic Carbon	101	99.1	101			1.57
	Organic Carbon	96.6	95.4	94.0			1.10

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2476817, 2476819, 2476821, 2476823, 2476825, 2476827, 2476829
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2476817, 2476819, 2476821, 2476823, 2476825, 2476827, 2476829
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2476881, 2476882
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2476881, 2476882
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2476817, 2476819, 2476821, 2476823, 2476825, 2476827, 2476829
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2476817, 2476819, 2476821, 2476823, 2476825, 2476827, 2476829
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2476818, 2476820, 2476822, 2476824, 2476826, 2476828, 2476830
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2476818, 2476820, 2476822, 2476824, 2476826, 2476828, 2476830
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2476818, 2476820, 2476822, 2476824, 2476826, 2476828, 2476830
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2476818, 2476820, 2476822, 2476824, 2476826, 2476828, 2476830
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2476861
EPA 8270E	PCBs in water matrices by GC/MS/MS	2476861
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2476861
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2476869, 2476870, 2476871, 2476872, 2476873, 2476874, 2476875
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2476817, 2476819, 2476821, 2476823, 2476825, 2476827, 2476829
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2476881
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2476817, 2476819, 2476821, 2476823, 2476825, 2476827, 2476829
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2476817, 2476819, 2476821, 2476823, 2476825, 2476827, 2476829
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2476817, 2476819, 2476821, 2476823, 2476825, 2476827, 2476829
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2476818, 2476820, 2476822, 2476824, 2476826, 2476828, 2476830

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	03/21/2024			03/21/2024 14:53	Jessica K Wilks	2476817
	03/21/2024			03/21/2024 14:54	Jessica K Wilks	2476819
	03/21/2024			03/21/2024 14:55	Jessica K Wilks	2476821
	03/21/2024			03/21/2024 14:58	Jessica K Wilks	2476823
	03/21/2024			03/21/2024 14:59	Jessica K Wilks	2476825
	03/21/2024			03/21/2024 15:00	Jessica K Wilks	2476829
	03/21/2024			03/21/2024 15:17	Jessica K Wilks	2476827
EPA 180.1 Rev. 2.0	03/21/2024			03/21/2024 13:19	Samantha L Bates	2476817
	03/21/2024			03/21/2024 13:20	Samantha L Bates	2476819
	03/21/2024			03/21/2024 13:21	Samantha L Bates	2476821
	03/21/2024			03/21/2024 13:23	Samantha L Bates	2476823
	03/21/2024			03/21/2024 13:27	Samantha L Bates	2476825
	03/21/2024			03/21/2024 13:28	Samantha L Bates	2476827
EPA 200.7 Rev. 4.4	03/21/2024			03/21/2024 13:29	Samantha L Bates	2476829
	03/21/2024	03/22/2024 13:10	George D Taylor	03/26/2024 16:03	Chase Roberts	2476882
	03/21/2024	03/26/2024 10:35	George D Taylor	03/26/2024 23:31	Chase Roberts	2476881
	03/21/2024	03/26/2024 10:35	George D Taylor	03/26/2024 23:39	Chase Roberts	2476881
	03/21/2024	03/26/2024 10:35	George D Taylor	03/27/2024 12:36	Chase Roberts	2476881
EPA 200.8 Rev. 5.4	03/21/2024	03/22/2024 13:10	George D Taylor	03/25/2024 13:53	Emily M Philpot	2476882
	03/21/2024	03/26/2024 10:35	George D Taylor	03/26/2024 21:09	McKinley C Carter	2476881
	03/21/2024	03/26/2024 10:35	George D Taylor	03/26/2024 22:25	McKinley C Carter	2476881
EPA 300.0 Rev. 2.1	03/21/2024			03/28/2024 05:00	James L Waggeberby	2476817
	03/21/2024			03/28/2024 05:15	James L Waggeberby	2476819
	03/21/2024			03/28/2024 05:30	James L Waggeberby	2476821
	03/21/2024			03/28/2024 06:00	James L Waggeberby	2476825
	03/21/2024			03/28/2024 07:01	James L Waggeberby	2476829
	03/21/2024			04/02/2024 12:54	Samantha L Bates	2476823
	03/21/2024			04/02/2024 13:11	Samantha L Bates	2476827
EPA 350.1 Rev. 2.0	03/21/2024			03/25/2024 12:28	Kenneth H Lee	2476818
	03/21/2024			03/25/2024 12:29	Kenneth H Lee	2476820
	03/21/2024			03/25/2024 12:30	Kenneth H Lee	2476822
	03/21/2024			03/25/2024 12:32	Kenneth H Lee	2476826
	03/21/2024			03/25/2024 12:33	Kenneth H Lee	2476828
	03/21/2024			03/25/2024 12:34	Kenneth H Lee	2476830
	03/21/2024			03/25/2024 12:39	Khloe J Berg	2476824
EPA 351.2 Rev. 2.0	03/21/2024	03/25/2024 14:44	Simonne.V. Calhoun	03/26/2024 16:21	Robyn Blevins	2476824
	03/21/2024	03/25/2024 18:09	Simonne.V. Calhoun	03/26/2024 13:20	Robyn Blevins	2476818
	03/21/2024	03/25/2024 18:09	Simonne.V. Calhoun	03/26/2024 13:22	Robyn Blevins	2476820
	03/21/2024	03/25/2024 18:09	Simonne.V. Calhoun	03/26/2024 13:23	Robyn Blevins	2476822
	03/21/2024	03/25/2024 18:09	Simonne.V. Calhoun	03/26/2024 13:25	Robyn Blevins	2476826

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 351.2 Rev. 2.0	03/21/2024	03/25/2024 18:09	Simonne.V. Calhoun	03/26/2024 13:30	Robyn Blevins	2476828
	03/21/2024	03/25/2024 18:09	Simonne.V. Calhoun	03/26/2024 13:31	Robyn Blevins	2476830
EPA 353.2 Rev. 2.0	03/21/2024			03/25/2024 13:45	Fadila Guebre	2476820
	03/21/2024			03/25/2024 13:51	Fadila Guebre	2476822
	03/21/2024			03/25/2024 13:54	Fadila Guebre	2476828
	03/21/2024			03/25/2024 13:55	Fadila Guebre	2476830
	03/21/2024			03/25/2024 14:58	Fadila Guebre	2476818
	03/21/2024			03/25/2024 15:14	Fadila Guebre	2476826
	03/21/2024			03/26/2024 12:14	Fadila Guebre	2476824
	03/21/2024					
EPA 365.1 Rev. 2.0	03/21/2024	03/25/2024 12:42	Adam P Silver	03/26/2024 12:20	Simonne.V. Calhoun	2476818
	03/21/2024	03/25/2024 12:42	Adam P Silver	03/26/2024 12:21	Simonne.V. Calhoun	2476820
	03/21/2024	03/25/2024 12:42	Adam P Silver	03/26/2024 13:56	Simonne.V. Calhoun	2476824
	03/21/2024	03/25/2024 12:42	Adam P Silver	03/26/2024 14:29	Simonne.V. Calhoun	2476822
	03/21/2024	03/26/2024 14:29	Josephine W Gitau	03/26/2024 16:46	Simonne.V. Calhoun	2476826
	03/21/2024	03/26/2024 14:29	Josephine W Gitau	03/26/2024 16:47	Simonne.V. Calhoun	2476828
	03/21/2024	03/26/2024 14:29	Josephine W Gitau	03/26/2024 17:33	Simonne.V. Calhoun	2476830
EPA 8270E	03/21/2024	03/27/2024 08:00	Fe-Val Siddell	03/29/2024 22:20	Kenedi Mills	2476861
	03/21/2024	03/27/2024 08:00	Fe-Val Siddell	03/30/2024 01:03	Kenedi Mills	2476861
EPA 8276	03/21/2024	03/27/2024 08:00	Fe-Val Siddell	03/30/2024 09:31	Arthur Maknenko	2476861
EPA 8321B	03/21/2024	03/22/2024 11:00	Tae K Lee	03/22/2024 12:32	Tae K Lee	2476869
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/22/2024 12:46	Tae K Lee	2476870
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/22/2024 13:00	Tae K Lee	2476871
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/22/2024 17:18	Tae K Lee	2476869
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/22/2024 17:32	Tae K Lee	2476870
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/22/2024 17:46	Tae K Lee	2476871
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/22/2024 17:59	Tae K Lee	2476872
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/22/2024 18:27	Tae K Lee	2476873
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/22/2024 18:41	Tae K Lee	2476874
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/22/2024 18:54	Tae K Lee	2476875
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/22/2024 20:58	Tae K Lee	2476872
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/25/2024 10:13	Tae K Lee	2476872
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/25/2024 10:27	Tae K Lee	2476873
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/25/2024 10:41	Tae K Lee	2476874
	03/21/2024	03/22/2024 11:00	Tae K Lee	03/25/2024 10:55	Tae K Lee	2476875
	03/21/2024	03/22/2024 13:00	Hoor Shaik	03/22/2024 19:38	Juyoung Kim	2476869
	03/21/2024	03/22/2024 13:00	Hoor Shaik	03/22/2024 19:56	Juyoung Kim	2476870
	03/21/2024	03/22/2024 13:00	Hoor Shaik	03/22/2024 20:31	Juyoung Kim	2476871
	03/21/2024	03/22/2024 13:00	Hoor Shaik	03/22/2024 20:49	Juyoung Kim	2476872
	03/21/2024	03/22/2024 13:00	Hoor Shaik	03/22/2024 21:07	Juyoung Kim	2476873
	03/21/2024	03/22/2024 13:00	Hoor Shaik	03/22/2024 21:25	Juyoung Kim	2476874

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	03/21/2024	03/22/2024 13:00	Hoor Shaik	03/22/2024 21:43	Juyoung Kim	2476875
	03/21/2024	03/22/2024 13:00	Hoor Shaik	03/25/2024 13:45	Juyoung Kim	2476869
	03/21/2024	03/22/2024 13:00	Hoor Shaik	03/25/2024 14:02	Juyoung Kim	2476874
SM 2320 B-2011	03/21/2024			03/22/2024 17:09	Adam P Silver	2476817
	03/21/2024			03/22/2024 17:23	Adam P Silver	2476819
	03/21/2024			03/22/2024 17:35	Adam P Silver	2476827
	03/21/2024			03/22/2024 17:44	Adam P Silver	2476829
	03/21/2024			03/22/2024 18:54	Adam P Silver	2476825
	03/21/2024			03/25/2024 17:39	Chandler E Cox	2476821
	03/21/2024			03/27/2024 00:36	Chandler E Cox	2476823
SM 2340 B-2011	03/21/2024			03/26/2024 23:39	Chase Roberts	2476881
SM 2540 C-2015	03/21/2024			03/25/2024 15:30	Ping Hua	2476817, 2476819, 2476821, 2476825, 2476827, 2476829
	03/21/2024			03/26/2024 13:50	Yijie Li	2476823
SM 2540 D-2015	03/21/2024			03/25/2024 15:30	Ping Hua	2476817, 2476819, 2476821, 2476825, 2476827, 2476829
	03/21/2024			03/26/2024 13:50	Yijie Li	2476823
SM 4500-F- C-2011	03/21/2024			03/22/2024 17:09	Adam P Silver	2476817
	03/21/2024			03/22/2024 17:23	Adam P Silver	2476819
	03/21/2024			03/22/2024 17:35	Adam P Silver	2476827
	03/21/2024			03/22/2024 17:44	Adam P Silver	2476829
	03/21/2024			03/25/2024 17:39	Chandler E Cox	2476821
	03/21/2024			03/26/2024 23:28	Chandler E Cox	2476823
	03/21/2024			03/28/2024 20:58	Dale L. Simmons	2476825
SM 5310 B-2014	03/21/2024			03/28/2024 17:21	Khloe J Berg	2476828
	03/21/2024			03/28/2024 19:04	Khloe J Berg	2476830
	03/21/2024			03/28/2024 23:40	Khloe J Berg	2476818
	03/21/2024			03/28/2024 23:55	Khloe J Berg	2476820
	03/21/2024			03/29/2024 00:10	Khloe J Berg	2476822
	03/21/2024			03/29/2024 00:25	Khloe J Berg	2476826
	03/21/2024			03/30/2024 08:28	Jessica K Wilks	2476824