

Chemical Analysis Report

SE-DIST-2024-01-25-01

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

Event Description: **SMP - Sebastian**
Request ID: **RQ-2024-01-29-17**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
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Certified by: Marek Topolski, Environmental Specialist III

Date Certified: 16-FEB-2024 14:29

A handwritten signature in black ink, appearing to read "Marek Topolski", with a stylized, flowing script.

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 I 95

Collection Date/Time: 01/24/2024 10:00

Field ID: G5SE0062

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463281	DEP SOP: NU-094-1	Color (true)	150		PCU	P440450	
	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P440459	
	EPA 300.0 Rev. 2.1	Chloride	51		mg Cl/L	P440678	
		Sulfate	27		mg SO4/L	P440681	
	SM 2320 B-2011	Total Alkalinity	107		mg CaCO3/L	P440872	
	SM 2540 C-2015	TDS	267		mg/L	P440997	
	SM 2540 D-2015	TSS	3	I	mg/L	P440828	
	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P440875	
2463282	EPA 350.1 Rev. 2.0	Ammonia-N	0.027		mg N/L	P440793	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.76		mg N/L	P440952	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.079		mg N/L	P440704	
	EPA 365.1 Rev. 2.0	Total-P	0.048		mg P/L	P440658	
	SM 5310 B-2014	Organic Carbon	18		mg C/L	P440787	
2463316	EPA 8321B	2,4-D	0.0020	U	ug/L	P440426	
		Acesulfame K	0.10	U	ug/L	P440425	
		2,4,5-T	0.0040	U	ug/L	P440426	
		AMPA	0.13	I	ug/L	P440425	
		Acetaminophen	0.0080	U	ug/L	P440426	
		Acetamiprid	0.0020	U	ug/L	P440426	
		Endothall	0.25	U	ug/L	P440425	
		Glufosinate	0.10	U	ug/L	P440425	
		Glyphosate	0.39	I	ug/L	P440425	
		Afidopyropen	0.0020	U	ug/L	P440426	
		Bentazon	8.0E-04	U	ug/L	P440426	
		Sucralose	0.010	U	ug/L	P440425	
		Benzovindiflupyr	0.0020	U	ug/L	P440426	
		Carbamazepine	8.0E-04	U	ug/L	P440426	
		Clothianidin	0.0020	U	ug/L	P440426	
		Dinotefuran	0.0020	U	ug/L	P440426	
		Diuron	0.0020	U	ug/L	P440426	
		Fenuron	0.032	U	ug/L	P440426	
		Fluridone	8.0E-04	U	ug/L	P440426	
		Imazapyr	0.041		ug/L	P440426	
		Hydrocodone	0.0020	U	ug/L	P440426	
		Ibuprofen	0.080	U	ug/L	P440426	
		Imidacloprid	0.0020	U	ug/L	P440426	
		Linuron	0.0040	U	ug/L	P440426	
		Mandestrobin	0.0020	U	ug/L	P440426	
		MCPP	0.0020	U	ug/L	P440426	
		Naproxen	0.0080	U	ug/L	P440426	
		Primidone	0.0040	U	ug/L	P440426	
		Pyraclostrobin	0.0020	U	ug/L	P440426	
		Silvex	0.0040	U	ug/L	P440426	
		Thiamethoxam	0.0020	U	ug/L	P440426	

Field ID: G5SE0062

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463316	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440426	
		Triclopyr	0.0040	U	ug/L	P440426	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high 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.

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

Sample Location: North Prong Sebastian Near Wilden Rd

Collection Date/Time: 01/24/2024 10:40

Field ID: G5SE0147

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463279	DEP SOP: NU-094-1	Color (true)	150		PCU	P440450	
	EPA 180.1 Rev. 2.0	Turbidity	7.6		NTU	P440459	
	EPA 300.0 Rev. 2.1	Chloride	86		mg Cl/L	P440678	
		Sulfate	20		mg SO4/L	P440681	
	SM 2320 B-2011	Total Alkalinity	124		mg CaCO3/L	P440872	
	SM 2540 C-2015	TDS	322		mg/L	P440997	
	SM 2540 D-2015	TSS	5	I	mg/L	P440828	
	SM 4500-F- C-2011	Fluoride	0.17		mg F/L	P440875	
2463280	EPA 350.1 Rev. 2.0	Ammonia-N	0.048		mg N/L	P440976	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.82		mg N/L	P440558	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P440704	
	EPA 365.1 Rev. 2.0	Total-P	0.066		mg P/L	P440658	
	SM 5310 B-2014	Organic Carbon	18		mg C/L	P440787	
2463315	EPA 8321B	2,4-D	0.015	V	ug/L	P440426	
		Acesulfame K	0.10	U	ug/L	P440425	
		2,4,5-T	0.0040	U	ug/L	P440426	
		AMPA	0.10	U	ug/L	P440425	
		Acetaminophen	0.0080	U	ug/L	P440426	
		Acetamiprid	0.0020	U	ug/L	P440426	
		Endothall	0.25	U	ug/L	P440425	
		Glufosinate	0.10	U	ug/L	P440425	
		Glyphosate	0.21	I	ug/L	P440425	
		Afidopyropen	0.0020	U	ug/L	P440426	
		Bentazon	0.0028	I	ug/L	P440426	
		Sucralose	0.77		ug/L	P440425	
		Benzovindiflupyr	0.0020	U	ug/L	P440426	
		Carbamazepine	0.0010	I	ug/L	P440426	
		Clothianidin	0.0020	U	ug/L	P440426	
		Dinotefuran	0.0020	U	ug/L	P440426	
		Diuron	0.0021	I	ug/L	P440426	
		Fenuron	0.032	U	ug/L	P440426	
		Fluridone	0.0056		ug/L	P440426	
		Imazapyr	0.15		ug/L	P440426	
		Hydrocodone	0.0020	U	ug/L	P440426	
		Ibuprofen	0.080	U	ug/L	P440426	
		Imidacloprid	0.0059	I	ug/L	P440426	
		Linuron	0.0040	U	ug/L	P440426	
		Mandestrobin	0.0020	U	ug/L	P440426	
		MCPP	0.0020	U	ug/L	P440426	
		Naproxen	0.0080	U	ug/L	P440426	
		Primidone	0.0078	I	ug/L	P440426	
		Pyraclostrobin	0.0020	U	ug/L	P440426	
		Silvex	0.0040	U	ug/L	P440426	
		Thiamethoxam	0.0020	U	ug/L	P440426	

Field ID: G5SE0147

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463315	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440426	
		Triclopyr	0.0040	U	ug/L	P440426	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high 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.

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample. Analyte 2,4-D was detected in the sample and method blank. The result was confirmed in re-extraction.

Sample Location: South Prong Sebastian Tributary Near
Roseland Rd

Collection Date/Time: 01/24/2024 11:15

Field ID: G5SE0145

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463287	DEP SOP: NU-094-1	Color (true)	180		PCU	P440451	
	EPA 180.1 Rev. 2.0	Turbidity	3.1		NTU	P440459	
	EPA 300.0 Rev. 2.1	Chloride	95		mg Cl/L	P440893	
		Sulfate	21		mg SO4/L	P440896	
	SM 2320 B-2011	Total Alkalinity	76		mg CaCO3/L	P440872	
	SM 2540 C-2015	TDS	320		mg/L	P440997	
	SM 2540 D-2015	TSS	2	I	mg/L	P440828	
	SM 4500-F- C-2011	Fluoride	0.13		mg F/L	P440875	
2463288	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P440793	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.93		mg N/L	P440558	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.34		mg N/L	P440704	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P440659	
	SM 5310 B-2014	Organic Carbon	22		mg C/L	P440787	
2463319	EPA 8321B	2,4-D	0.010	V	ug/L	P440426	
		Acesulfame K	0.25	I	ug/L	P440425	
		2,4,5-T	0.0040	U	ug/L	P440426	
		AMPA	0.10	U	ug/L	P440425	
		Acetaminophen	0.0080	U	ug/L	P440426	
		Acetamiprid	0.0020	U	ug/L	P440426	
		Endothall	0.25	U	ug/L	P440425	
		Glufosinate	0.10	U	ug/L	P440425	
		Glyphosate	0.25	I	ug/L	P440425	
		Afidopyropen	0.0020	U	ug/L	P440426	
		Bentazon	0.13		ug/L	P440426	
		Sucralose	2.6		ug/L	P440425	
		Benzovindiflupyr	0.0020	U	ug/L	P440426	
		Carbamazepine	0.0088		ug/L	P440426	
		Clothianidin	0.0021	I	ug/L	P440426	
		Dinotefuran	0.0020	U	ug/L	P440426	
		Diuron	0.0028	I	ug/L	P440426	
		Fenuron	0.032	U	ug/L	P440426	
		Fluridone	0.0021	I	ug/L	P440426	
		Imazapyr	0.40		ug/L	P440426	
		Hydrocodone	0.0020	U	ug/L	P440426	
		Ibuprofen	0.080	U	ug/L	P440426	
		Imidacloprid	0.069		ug/L	P440426	
		Linuron	0.0040	U	ug/L	P440426	
		Mandestrobin	0.0020	U	ug/L	P440426	
		MCP	0.0040	I	ug/L	P440426	
		Naproxen	0.0080	U	ug/L	P440426	
		Primidone	0.0072	I	ug/L	P440426	
		Pyraclostrobin	0.0020	U	ug/L	P440426	
		Silvex	0.0040	U	ug/L	P440426	

Field ID: G5SE0145

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463319	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	P440426	
		Tolfenpyrad	0.0020	U	ug/L	P440426	
		Triclopyr	0.0040	U	ug/L	P440426	

Ref. Method and Comment:

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

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample. Analyte 2,4-D was detected in the sample and method blank. The result was confirmed in re-extraction.

Sample Location: Elkhamp Waterway Near Periwinkle Dr

Collection Date/Time: 01/24/2024 11:40

Field ID: G5SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463277	DEP SOP: NU-094-1	Color (true)	110		PCU	P440450	
	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P440459	
	EPA 300.0 Rev. 2.1	Chloride	67		mg Cl/L	P440678	
		Sulfate	18		mg SO4/L	P440681	
	SM 2320 B-2011	Total Alkalinity	122		mg CaCO3/L	P440872	
	SM 2540 C-2015	TDS	277		mg/L	P440997	
	SM 2540 D-2015	TSS	5	I	mg/L	P440828	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P440875	
2463278	EPA 350.1 Rev. 2.0	Ammonia-N	0.087		mg N/L	P440976	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P440558	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P440704	
	EPA 365.1 Rev. 2.0	Total-P	0.068		mg P/L	P440685	
	SM 5310 B-2014	Organic Carbon	17		mg C/L	P440787	
2463314	EPA 8321B	2,4-D	0.0076	IV	ug/L	P440426	
		Acesulfame K	0.26	I	ug/L	P440425	
		2,4,5-T	0.0040	U	ug/L	P440426	
		AMPA	0.10	U	ug/L	P440425	
		Acetaminophen	0.0080	U	ug/L	P440426	
		Acetamiprid	0.0020	U	ug/L	P440426	
		Endothall	0.25	U	ug/L	P440425	
		Glufosinate	0.10	U	ug/L	P440425	
		Glyphosate	0.10	U	ug/L	P440425	
		Afidopyropen	0.0020	U	ug/L	P440426	
		Bentazon	0.070		ug/L	P440426	
		Sucralose	2.1		ug/L	P440425	
		Benzovindiflupyr	0.0020	U	ug/L	P440426	
		Carbamazepine	0.0065		ug/L	P440426	
		Clothianidin	0.0034	I	ug/L	P440426	
		Dinotefuran	0.0020	U	ug/L	P440426	
		Diuron	0.0020	U	ug/L	P440426	
		Fenuron	0.032	U	ug/L	P440426	
		Fluridone	8.0E-04	U	ug/L	P440426	
		Imazapyr	0.15		ug/L	P440426	
		Hydrocodone	0.0020	U	ug/L	P440426	
		Ibuprofen	0.080	U	ug/L	P440426	
		Imidacloprid	0.034		ug/L	P440426	
		Linuron	0.0040	U	ug/L	P440426	
		Mandestrobin	0.0020	U	ug/L	P440426	
		MCPP	0.0029	I	ug/L	P440426	
		Naproxen	0.0080	U	ug/L	P440426	
		Primidone	0.0090	I	ug/L	P440426	
		Pyraclostrobin	0.0020	U	ug/L	P440426	
		Silvex	0.0040	U	ug/L	P440426	
		Thiamethoxam	0.0020	U	ug/L	P440426	

Field ID: G5SE0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463314	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440426	
		Triclopyr	0.0040	U	ug/L	P440426	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high 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.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample. Analyte 2,4-D was detected in the sample and method blank. The result was confirmed in re-extraction.

Sample Location: South Prong Sebastian Near Canoe Launch

Collection Date/Time: 01/24/2024 12:05

Field ID: G5SE0151

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463285	DEP SOP: NU-094-1	Color (true)	96	A	PCU	P440451	
	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P440459	
	EPA 300.0 Rev. 2.1	Chloride	250		mg Cl/L	P440893	
		Sulfate	63		mg SO4/L	P440896	
	SM 2320 B-2011	Total Alkalinity	155		mg CaCO3/L	P440872	
	SM 2540 C-2015	TDS	672		mg/L	P440997	
	SM 2540 D-2015	TSS	4	I	mg/L	P440828	
	SM 4500-F- C-2011	Fluoride	0.32		mg F/L	P440875	
2463286	EPA 350.1 Rev. 2.0	Ammonia-N	0.046		mg N/L	P440793	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.74		mg N/L	P440558	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P440704	
	EPA 365.1 Rev. 2.0	Total-P	0.076		mg P/L	P440659	
	SM 5310 B-2014	Organic Carbon	14		mg C/L	P440787	
2463318	EPA 8321B	2,4-D	0.0028	IV	ug/L	P440426	
		Acesulfame K	0.10	U	ug/L	P440425	
		2,4,5-T	0.0040	U	ug/L	P440426	
		AMPA	0.10	U	ug/L	P440425	
		Acetaminophen	0.0080	U	ug/L	P440426	
		Acetamiprid	0.0020	U	ug/L	P440426	
		Endothall	0.25	U	ug/L	P440425	
		Glufosinate	0.10	U	ug/L	P440425	
		Glyphosate	0.10	U	ug/L	P440425	
		Afidopyropen	0.0020	U	ug/L	P440426	
		Bentazon	0.015		ug/L	P440426	
		Sucralose	0.32		ug/L	P440425	
		Benzovindiflupyr	0.0020	U	ug/L	P440426	
		Carbamazepine	0.0017	I	ug/L	P440426	
		Clothianidin	0.0020	U	ug/L	P440426	
		Dinotefuran	0.0020	U	ug/L	P440426	
		Diuron	0.0020	U	ug/L	P440426	
		Fenuron	0.032	U	ug/L	P440426	
		Fluridone	8.7E-04	I	ug/L	P440426	
		Imazapyr	0.16		ug/L	P440426	
		Hydrocodone	0.0020	U	ug/L	P440426	
		Ibuprofen	0.080	U	ug/L	P440426	
		Imidacloprid	0.0062	I	ug/L	P440426	
		Linuron	0.0040	U	ug/L	P440426	
		Mandestrobin	0.0020	U	ug/L	P440426	
		MCPP	0.0020	U	ug/L	P440426	
		Naproxen	0.0080	U	ug/L	P440426	
		Primidone	0.0040	U	ug/L	P440426	
		Pyraclostrobin	0.0020	U	ug/L	P440426	
		Silvex	0.0040	U	ug/L	P440426	
		Thiamethoxam	0.0020	U	ug/L	P440426	

Field ID: G5SE0151

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463318	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440426	
		Triclopyr	0.0040	U	ug/L	P440426	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample. Analyte 2,4-D was detected in the sample and method blank. The result was confirmed in re-extraction.

Sample Location: South Prong Sebastian at Park Dock

Collection Date/Time: 01/24/2024 12:50

Field ID: G5SE0079

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463283	DEP SOP: NU-094-1	Color (true)	160		PCU	P440450	
	EPA 180.1 Rev. 2.0	Turbidity	4.6		NTU	P440459	
	EPA 300.0 Rev. 2.1	Chloride	390		mg Cl/L	P440678	
		Sulfate	69		mg SO4/L	P440681	
	SM 2320 B-2011	Total Alkalinity	119		mg CaCO3/L	P440873	
	SM 2540 C-2015	TDS	824		mg/L	P440997	
	SM 2540 D-2015	TSS	6	I	mg/L	P440828	
	SM 4500-F- C-2011	Fluoride	0.24		mg F/L	P440876	RPD
2463284	EPA 350.1 Rev. 2.0	Ammonia-N	0.041		mg N/L	P440793	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.95		mg N/L	P440558	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P440704	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P440658	
	SM 5310 B-2014	Organic Carbon	18		mg C/L	P440787	
2463307	EPA 8270E	Aldrin	0.66	U	ng/L	P440412	
		Alpha-BHC	0.10	U	ng/L	P440412	
		Alpha-Chlordane	0.20	U	ng/L	P440412	
		PCB-1016	2.0	U	ng/L	P440412	
		Beta-BHC	0.10	U	ng/L	P440412	
		PCB-1221	2.0	U	ng/L	P440412	
		Beta-Cyfluthrin	1.3	U	ng/L	P440412	
		PCB-1232	2.0	U	ng/L	P440412	
		Bifenthrin	0.51	U	ng/L	P440412	
		PCB-1242	2.0	U	ng/L	P440412	
		PCB-1248	2.0	U	ng/L	P440412	
		Chlorothalonil	3.7	U	ng/L	P440412	
		PCB-1254	2.0	U	ng/L	P440412	
		Cis-Nonachlor	0.20	U	ng/L	P440412	
		PCB-1260	2.0	U	ng/L	P440412	
		Cypermethrin	1.5	U	ng/L	P440412	
		Dacthal	0.15	U	ng/L	P440412	
		DDD-p,p'	0.26	U	ng/L	P440412	
		DDE-p,p'	0.20	U	ng/L	P440412	
		DDT-p,p'	0.82	U	ng/L	P440412	
		Delta-BHC	0.41	U	ng/L	P440412	
		Deltamethrin	1.3	U	ng/L	P440412	
		Dichlobenil	0.26	U	ng/L	P440412	
		Dicofol	1.3	U	ng/L	P440412	
		Diieldrin	0.41	U	ng/L	P440412	
		Endosulfan I	0.41	U	ng/L	P440412	MS, RPD
		Endosulfan II	0.92	U	ng/L	P440412	
		Endosulfan Sulfate	0.31	UJ	ng/L	P440412	LCS, MS
		Endrin	0.92	U	ng/L	P440412	
		Endrin Aldehyde	0.77	U	ng/L	P440412	
		Endrin Ketone	0.41	U	ng/L	P440412	

Field ID: G5SE0079

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2463307	EPA 8270E	Esfenvalerate	0.77	U	ng/L	P440412		
		Ethalfuralin	0.15	U	ng/L	P440412		
		Fenpropathrin	0.26	U	ng/L	P440412		
		Gamma-BHC	0.13	U	ng/L	P440412		
		Gamma-Chlordane	0.20	U	ng/L	P440412		
		Heptachlor	0.20	U	ng/L	P440412		
		Heptachlor Epoxide	0.26	U	ng/L	P440412	MS, RPD	
		Hexachlorobenzene**	1.0	U	ng/L	P440412		
		Kepone	14	U	ng/L	P440412		
		Lambda-Cyhalothrin	0.77	U	ng/L	P440412		
		Methoprene	0.77	U	ng/L	P440412		
		Methoxychlor	0.31	U	ng/L	P440412		
		MGK-264	0.20	UJ	ng/L	P440412	LCS, MS	
		Mirex	0.36	U	ng/L	P440412		
		Oxychlordane	0.31	U	ng/L	P440412	MS, RPD	
		Permethrin	1.6	U	ng/L	P440412		
		Phenothrin	0.92	U	ng/L	P440412		
		Piperonyl Butoxide	8.3		ng/L	P440412		
		Prallethrin	2.0	U	ng/L	P440412		
		Tau-Fluvalinate	0.26	U	ng/L	P440412		
		Tetramethrin	0.77	U	ng/L	P440412		
		Trans-Nonachlor	0.20	U	ng/L	P440412	MS	
		Triclosan Methyl	0.15	U	ng/L	P440412	MS, RPD	
		Trifluralin	0.20	U	ng/L	P440412		
		EPA 8276	Chlordane	2.0	U	ng/L	P440412	
			Toxaphene	15	U	ng/L	P440412	
2463317	EPA 8321B	2,4-D	0.0036	IV	ug/L	P440426		
		Acesulfame K	0.10	U	ug/L	P440425		
		2,4,5-T	0.0040	U	ug/L	P440426		
		AMPA	0.10	U	ug/L	P440425		
		Acetaminophen	0.0080	U	ug/L	P440426		
		Acetamiprid	0.0020	U	ug/L	P440426		
		Endothall	0.25	U	ug/L	P440425		
		Glufosinate	0.10	U	ug/L	P440425		
		Glyphosate	0.10	U	ug/L	P440425		
		Afidopyropen	0.0020	U	ug/L	P440426		
		Bentazon	0.010		ug/L	P440426		
		Sucralose	0.28		ug/L	P440425		
		Benzovindiflupyr	0.0020	U	ug/L	P440426		
		Carbamazepine	0.0014	I	ug/L	P440426		
		Clothianidin	0.0020	U	ug/L	P440426		
		Dinotefuran	0.0020	U	ug/L	P440426		
		Diuron	0.0020	U	ug/L	P440426		
		Fenuron	0.032	U	ug/L	P440426		
		Fluridone	0.0022	I	ug/L	P440426		

Field ID: G5SE0079

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463317	EPA 8321B	Imazapyr	0.15		ug/L	P440426	
		Hydrocodone	0.0020	U	ug/L	P440426	
		Ibuprofen	0.080	U	ug/L	P440426	
		Imidacloprid	0.0073	I	ug/L	P440426	
		Linuron	0.0040	U	ug/L	P440426	
		Mandestrobin	0.0020	U	ug/L	P440426	
		MCPP	0.0020	U	ug/L	P440426	
		Naproxen	0.0080	U	ug/L	P440426	
		Primidone	0.0040	U	ug/L	P440426	
		Pyraclostrobin	0.0020	U	ug/L	P440426	
		Silvex	0.0040	U	ug/L	P440426	
		Thiamethoxam	0.0020	U	ug/L	P440426	
		Tolfenpyrad	0.0020	U	ug/L	P440426	
		Triclopyr	0.0040	U	ug/L	P440426	
2463327	EPA 200.7 Rev. 4.4	Calcium	70.6		mg/L	P440528	
		Iron	690		ug/L	P440528	
		Magnesium	33.2		mg/L	P440528	
		Potassium	7.9		mg/L	P440528	
		Sodium	203		mg/L	P440528	
		Strontium	2.43E+03		ug/L	P440528	
		Tin	3.0	U	ug/L	P440528	
		Titanium	0.98	I	ug/L	P440528	
		Vanadium	2.0	U	ug/L	P440528	
		Zinc	8.2	I	ug/L	P440528	
	EPA 200.8 Rev. 5.4	Aluminum	152		ug/L	P440528	
		Antimony	0.071	I	ug/L	P440528	
		Arsenic	0.70		ug/L	P440528	
		Barium	25.0		ug/L	P440528	
		Beryllium	0.021	I	ug/L	P440528	
		Boron	106		ug/L	P440528	
		Cadmium	0.020	U	ug/L	P440528	
		Chromium	0.69	I	ug/L	P440528	
		Cobalt	0.105		ug/L	P440528	
		Copper	1.98		ug/L	P440528	
		Lead	0.20	U	ug/L	P440528	
		Manganese	8.16		ug/L	P440528	
		Molybdenum	1.04		ug/L	P440528	
		Nickel	0.50	U	ug/L	P440528	
		Selenium	0.23	I	ug/L	P440528	
	SM 2340 B-2011	Silver	0.010	U	ug/L	P440528	
		Thallium	0.10	U	ug/L	P440528	
		Hardness	313		mg/L	P440528	

Field ID: G5SE0079

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high 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.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample. Analyte 2,4-D was detected in the sample and method blank. The result was confirmed in re-extraction.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P440450

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P440451

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440459

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440528

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440528

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440678

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440681

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440893

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440896

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440793

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440976

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440558

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440952

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440704

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: P440658

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440659

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440685

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

Reference Method: EPA 8270E
Batch ID: P440412

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: P440412

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: P440412

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

Reference Method: EPA 8321B
Batch ID: P440425

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P440426

Component	Result	Code	Units
2,4-D	0.0048	I	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P440426

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

Reference Method: SM 2320 B-2011

Batch ID: P440872

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

Reference Method: SM 2320 B-2011

Batch ID: P440873

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

Reference Method: SM 2540 C-2015

Batch ID: P440997

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P440828

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P440875

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P440876

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P440787

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: P440450

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P440451

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440459

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440528

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	112		P	85 - 115
Iron	112		P	85 - 115
Magnesium	112		P	85 - 115
Potassium	102		P	85 - 115
Sodium	105		P	85 - 115
Strontium	97.0		P	85 - 115
Tin	95.7		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	97.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440528

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	98.5		P	85 - 115
Arsenic	99.4		P	85 - 115
Barium	99.5		P	85 - 115
Beryllium	94.8		P	85 - 115
Boron	106		P	85 - 115
Cadmium	99.1		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	98.9		P	85 - 115
Copper	99.4		P	85 - 115
Lead	93.7		P	85 - 115
Manganese	98.2		P	85 - 115
Molybdenum	96.9		P	85 - 115
Nickel	98.1		P	85 - 115
Selenium	100		P	85 - 115
Silver	96.2		P	85 - 115
Thallium	98.2		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440678

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440681

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440893

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440896

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440793

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440976

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440558

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440952

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440704

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: P440658

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440659

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440685

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

Reference Method: EPA 8270E
Batch ID: P440412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	64.4		P	30 - 96.0
Alpha-BHC	81.4		P	70 - 109
Alpha-Chlordane	103		P	45 - 107
Beta-BHC	96.5		P	64 - 138
Beta-Cyfluthrin	108		P	17 - 141
Bifenthrin	37.3		P	10 - 113
Chlorothalonil	102		P	26 - 180
Cis-Nonachlor	57.0		P	37 - 102
Cypermethrin	58.2		P	20 - 133
Dacthal	95.5		P	69 - 114
DDD-p,p'	57.7		P	42 - 105
DDE-p,p'	57.7		P	42 - 106
DDT-p,p'	71.4		P	42 - 107
Delta-BHC	71.7		P	67 - 144
Deltamethrin	125		P	15 - 149
Dichlobenil	90.0		P	46 - 117
Dicofol	72.7		P	34 - 114
Dieldrin	85.1		P	50 - 108
Endosulfan I	88.0		P	55 - 104
Endosulfan II	86.2		P	51 - 111
Endosulfan Sulfate	127		F	56 - 121
Endrin	94.5		P	10 - 106
Endrin Aldehyde	93.1		P	34 - 114
Endrin Ketone	101		P	63 - 177
Esfenvalerate	103		P	29 - 143
Ethalfuralin	91.6		P	46 - 96.0
Fenpropathrin	41.9		P	28 - 115
Gamma-BHC	80.4		P	65 - 121
Gamma-Chlordane	62.5		P	39 - 103
Heptachlor	47.6		P	39 - 94.0
Heptachlor Epoxide	101		P	54 - 104
Hexachlorobenzene	48.8		P	36 - 100
Kepone	129		P	10 - 225
Lambda-Cyhalothrin	67.9		P	10 - 135

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P440412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methoprene	38.5		P	10 - 109
Methoxychlor	64.7		P	52 - 112
MGK-264	129		F	44 - 117
Mirex	36.8		P	20 - 90.0
Oxychlordane	83.4		P	44 - 102
PCB-1016	73.3		P	45 - 107
PCB-1260	77.4		P	40 - 118
Permethrin	97.2		P	18 - 135
Phenothrin	71.1		P	10 - 102
Piperonyl Butoxide	105		P	28 - 156
Prallethrin	110		P	28 - 113
Tau-Fluvalinate	51.9		P	10 - 123
Tetramethrin	103		P	18 - 158
Trans-Nonachlor	78.6		P	39 - 104
Triclosan Methyl	94.2		P	54 - 108
Trifluralin	92.1		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P440412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	101		P	52 - 117
Toxaphene	110		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P440425

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	102		P	40 - 150
AMPA	98.6		P	40 - 160
Endothall	89.9		P	40 - 160
Glufosinate	94.0		P	40 - 160
Glyphosate	101		P	40 - 160
Sucralose	88.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440426

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	123		P	40 - 150
2,4,5-T	105		P	40 - 150
Acetaminophen	92.3		P	30 - 150
Acetamiprid	95.2		P	40 - 150
Afidopyropen	75.3		P	30 - 150
Bentazon	96.0		P	30 - 150
Benzovindiflupyr	92.6		P	40 - 150
Carbamazepine	87.5		P	40 - 150
Clothianidin	99.1		P	40 - 150
Dinotefuran	108		P	40 - 150
Diuron	86.0		P	40 - 150
Fenuron	100		P	40 - 150
Fluridone	96.7		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P440426

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Hydrocodone	115		P	40 - 150
Ibuprofen	79.1		P	40 - 150
Imazapyr	97.1		P	40 - 150
Imidacloprid	97.0		P	40 - 150
Linuron	81.4		P	40 - 150
Mandestrobin	95.6		P	40 - 150
MCPP	97.9		P	40 - 150
Naproxen	72.6		P	40 - 150
Primidone	90.6		P	40 - 150
Pyraclostrobin	93.9		P	40 - 150
Silvex	92.1		P	40 - 150
Thiamethoxam	108		P	40 - 150
Tolfenpyrad	61.8		P	30 - 150
Triclopyr	116		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P440872

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.6		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P440873

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P440997

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.4		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P440828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.8		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P440875

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

Reference Method: SM 4500-F- C-2011
Batch ID: P440876

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2014
Batch ID: P440787

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.9		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463330	Calcium	111		P	80 - 120
2463330	Iron	117	117	P/P	80 - 120
2463330	Magnesium	117	116	P/P	80 - 120
2463330	Potassium	102	102	P/P	80 - 120
2463330	Sodium	104		P	80 - 120
2463330	Strontium	96.9	95.7	P/P	80 - 120
2463330	Tin	93.9	93.6	P/P	80 - 120
2463330	Titanium	99.5	98.3	P/P	80 - 120
2463330	Vanadium	104	103	P/P	80 - 120
2463330	Zinc	99.9	99.0	P/P	80 - 120
2463384	Calcium	111		P	80 - 120
2463384	Iron	116		P	80 - 120
2463384	Magnesium	115		P	80 - 120
2463384	Potassium	102		P	80 - 120
2463384	Sodium	104		P	80 - 120
2463384	Strontium	95.3		P	80 - 120
2463384	Tin	91.4		P	80 - 120
2463384	Titanium	99.3		P	80 - 120
2463384	Vanadium	101		P	80 - 120
2463384	Zinc	98.2		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463330	Aluminum	102	101	P/P	80 - 120
2463330	Antimony	99.3	99.2	P/P	80 - 120
2463330	Arsenic	98.7	98.0	P/P	80 - 120
2463330	Barium	101	101	P/P	80 - 120
2463330	Beryllium	99.7	92.8	P/P	80 - 120
2463330	Boron	108	107	P/P	80 - 120
2463330	Cadmium	99.1	99.3	P/P	80 - 120
2463330	Chromium	101	101	P/P	80 - 120
2463330	Cobalt	97.3	98.1	P/P	80 - 120
2463330	Copper	96.5	96.6	P/P	80 - 120
2463330	Lead	95.1	94.5	P/P	80 - 120
2463330	Manganese	99.0	100	P/P	80 - 120
2463330	Molybdenum	99.8	99.9	P/P	80 - 120
2463330	Nickel	97.6	95.9	P/P	80 - 120
2463330	Selenium	98.5	97.3	P/P	80 - 120
2463330	Silver	94.8	94.4	P/P	80 - 120
2463330	Thallium	101	100	P/P	80 - 120
2463384	Aluminum	98.7		P	80 - 120
2463384	Antimony	99.5		P	80 - 120
2463384	Arsenic	98.1		P	80 - 120
2463384	Barium	101		P	80 - 120
2463384	Beryllium	93.0		P	80 - 120
2463384	Boron	107		P	80 - 120
2463384	Cadmium	100		P	80 - 120
2463384	Chromium	101		P	80 - 120
2463384	Cobalt	97.2		P	80 - 120
2463384	Copper	96.7		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463384	Lead	93.9		P	80 - 120
2463384	Manganese	98.4		P	80 - 120
2463384	Molybdenum	98.2		P	80 - 120
2463384	Nickel	92.0		P	80 - 120
2463384	Selenium	97.4		P	80 - 120
2463384	Silver	94.7		P	80 - 120
2463384	Thallium	100		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440678

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463089	Chloride	102		P	90 - 110
2463137	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440681

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463089	Sulfate	98.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440893

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463312	Chloride	101		P	90 - 110
2463519	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440896

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463312	Sulfate	99.4		P	90 - 110
2463519	Sulfate	99.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440793

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463282	Ammonia-N	100	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440976

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464295	Ammonia-N	95.4	94.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440558

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463282	Kjeldahl Nitrogen	111	109	F/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464128	Kjeldahl Nitrogen	110	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440704

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463278	NO2NO3-N	96.5	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440658

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463273	Total-P	102	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440659

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463401	Total-P	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440685

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463767	Total-P	105	104	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P440412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462903	Aldrin	72.7	56.8	P/P	24 - 81.0
2462903	Alpha-BHC	65.0	70.8	P/P	65 - 110
2462903	Alpha-Chlordane	118	76.1	P/P	43 - 119
2462903	Beta-BHC	116	107	P/P	54 - 165
2462903	Beta-Cyfluthrin	106	90.1	P/P	27 - 165
2462903	Bifenthrin	48.8	46.7	P/P	17 - 117
2462903	Chlorothalonil	43.1	56.6	P/P	10 - 255
2462903	Cis-Nonachlor	69.5	72.4	P/P	34 - 98.0
2462903	Cypermethrin	74.4	58.5	P/P	25 - 143
2462903	Dacthal	73.3	95.8	P/P	55 - 139
2462903	DDD-p,p'	65.0	58.2	P/P	30 - 109
2462903	DDE-p,p'	83.2	71.0	P/P	35 - 106
2462903	DDT-p,p'	62.7	73.9	P/P	41 - 101
2462903	Delta-BHC	67.6	67.3	P/P	58 - 165
2462903	Deltamethrin	80.9	132	P/P	10 - 194
2462903	Dichlobenil	52.1	54.0	P/P	22 - 114
2462903	Dicofol	63.8	73.3	P/P	17 - 133
2462903	Dieldrin	126	109	P/P	45 - 129
2462903	Endosulfan I	109	83.3	F/P	49 - 104
2462903	Endosulfan II	99.8	96.8	P/P	37 - 117
2462903	Endosulfan Sulfate	119	134	P/F	38 - 128
2462903	Endrin	81.4	97.1	P/P	35 - 116

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P440412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462903	Endrin Aldehyde	82.9	73.5	P/P	19 - 108
2462903	Endrin Ketone	89.7	103	P/P	44 - 134
2462903	Esfenvalerate	96.4	110	P/P	27 - 176
2462903	Ethalfuralin	82.3	86.4	P/P	49 - 100
2462903	Fenpropathrin	54.0	47.6	P/P	34 - 117
2462903	Gamma-BHC	88.2	82.6	P/P	59 - 129
2462903	Gamma-Chlordane	106	94.0	P/P	33 - 107
2462903	Heptachlor	49.7	52.0	P/P	37 - 94.0
2462903	Heptachlor Epoxide	125	77.8	F/P	38 - 118
2462903	Hexachlorobenzene	45.8	47.4	P/P	35 - 97.0
2462903	Kepone	101	94.6	P/P	10 - 221
2462903	Lambda-Cyhalothrin	48.7	61.2	P/P	23 - 190
2462903	Methoprene	61.3	50.5	P/P	21 - 109
2462903	Methoxychlor	72.0	68.7	P/P	46 - 118
2462903	MGK-264	137	93.9	F/P	39 - 122
2462903	Mirex	45.7	44.7	P/P	25 - 90.0
2462903	Oxychlordane	114	82.0	F/P	42 - 100
2462903	Permethrin	83.3	92.8	P/P	33 - 181
2462903	Phenothrin	88.0	74.3	P/P	12 - 125
2462903	Piperonyl Butoxide	114	108	P/P	10 - 178
2462903	Prallethrin	108	79.3	P/P	24 - 122
2462903	Tau-Fluvalinate	47.9	74.0	P/P	13 - 151
2462903	Tetramethrin	82.2	80.8	P/P	16 - 172
2462903	Trans-Nonachlor	107	111	F/F	39 - 100
2462903	Triclosan Methyl	135	91.2	F/P	43 - 110
2462903	Trifluralin	75.0	86.7	P/P	45 - 94.0
2463408	PCB-1016	71.6	63.3	P/P	45 - 107
2463408	PCB-1260	77.6	66.6	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P440412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463408	Chlordane	94.0	85.2	P/P	43 - 123
2463408	Toxaphene	94.5	87.6	P/P	27 - 156

Reference Method: EPA 8321B
Batch ID: P440425

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463113	Acesulfame K	130	141	P/P	40 - 150
2463113	AMPA	94.3	94.9	P/P	40 - 160
2463113	Endothall	98.6	100	P/P	40 - 160
2463113	Glufosinate	99.6	100	P/P	40 - 160
2463113	Glyphosate	102	104	P/P	40 - 160
2463113	Sucralose	96.4	105	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440426

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462667	2,4,5-T	91.9	84.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P440426

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2462667	Acetamiprid	96.3	98.7	P/P	40 - 150
2462667	Afidopyropen	94.4	97.6	P/P	30 - 150
2462667	Benzovindiflupyr	91.4	106	P/P	40 - 150
2462667	Carbamazepine	87.7	93.5	P/P	40 - 150
2462667	Clothianidin	111	119	P/P	40 - 150
2462667	Dinotefuran	111	123	P/P	40 - 150
2462667	Diuron	83.3	84.7	P/P	40 - 150
2462667	Fenuron	91.8	91.6	P/P	40 - 150
2462667	Fluridone	90.7	98.5	P/P	40 - 150
2462667	Hydrocodone	98.6	116	P/P	40 - 150
2462667	Ibuprofen	81.1	74.2	P/P	40 - 150
2462667	Imazapyr	99.2	109	P/P	40 - 150
2462667	Imidacloprid	127	133	P/P	40 - 150
2462667	Linuron	84.0	85.1	P/P	40 - 150
2462667	Mandestrobin	99.4	110	P/P	40 - 150
2462667	MCPP	91.9	93.9	P/P	40 - 150
2462667	Naproxen	76.2	73.5	P/P	40 - 150
2462667	Primidone	95.9	106	P/P	40 - 150
2462667	Pyraclostrobin	86.5	99.0	P/P	40 - 150
2462667	Silvex	80.9	84.9	P/P	40 - 150
2462667	Thiamethoxam	121	118	P/P	40 - 150
2462667	Tolfenpyrad	53.1	68.2	P/P	30 - 150
2462667	Triclopyr	90.9	89.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P440875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463058	Fluoride	101	102	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P440876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463552	Fluoride	98.1	103	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P440787

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463142	Organic Carbon	98.4	102	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P440450

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463272	Color (true)	1.05	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P440451

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463285	Color (true)	1.20	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440459

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463272	Turbidity	2.03	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P440528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463330	Calcium	1.77	Spike	P	0 - 20
2463330	Iron	0.163	Spike	P	0 - 20
2463330	Magnesium	0.487	Spike	P	0 - 20
2463330	Potassium	0.169	Spike	P	0 - 20
2463330	Sodium	1.25	Spike	P	0 - 20
2463330	Strontium	1.26	Spike	P	0 - 20
2463330	Tin	0.348	Spike	P	0 - 20
2463330	Titanium	1.16	Spike	P	0 - 20
2463330	Vanadium	0.962	Spike	P	0 - 20
2463330	Zinc	0.937	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463330	Aluminum	0.592	Spike	P	0 - 20
2463330	Antimony	0.0901	Spike	P	0 - 20
2463330	Arsenic	0.706	Spike	P	0 - 20
2463330	Barium	0.183	Spike	P	0 - 20
2463330	Beryllium	6.86	Spike	P	0 - 20
2463330	Boron	0.613	Spike	P	0 - 20
2463330	Cadmium	0.247	Spike	P	0 - 20
2463330	Chromium	0.211	Spike	P	0 - 20
2463330	Cobalt	0.861	Spike	P	0 - 20
2463330	Copper	0.0447	Spike	P	0 - 20
2463330	Lead	0.587	Spike	P	0 - 20
2463330	Manganese	0.884	Spike	P	0 - 20
2463330	Molybdenum	0.105	Spike	P	0 - 20
2463330	Nickel	1.70	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P440528

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463330	Selenium	1.30	Spike	P	0 - 20
2463330	Silver	0.413	Spike	P	0 - 20
2463330	Thallium	0.548	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440678

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463089	Chloride	0.715	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440681

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463089	Sulfate	0.167	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440893

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463312	Chloride	1.64	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440896

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463312	Sulfate	1.68	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440793

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463282	Ammonia-N	0.520	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P440976

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464295	Ammonia-N	0.745	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440558

Replicated					
Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440558

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463282	Kjeldahl Nitrogen	1.34	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464128	Kjeldahl Nitrogen	2.89	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440704

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463278	NO2NO3-N	0.562	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440658

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463273	Total-P	1.96	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463401	Total-P	1.15	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440685

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463767	Total-P	0.452	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P440412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462903	Aldrin	24.6	Spike	P	0 - 41
2462903	Alpha-BHC	8.52	Spike	P	0 - 25
2462903	Alpha-Chlordane	21.6	Spike	P	0 - 32
2462903	Beta-BHC	8.01	Spike	P	0 - 33
2462903	Beta-Cyfluthrin	16.3	Spike	P	0 - 43
2462903	Bifenthrin	4.35	Spike	P	0 - 52
2462903	Chlorothalonil	27.2	Spike	P	0 - 82
2462903	Cis-Nonachlor	4.12	Spike	P	0 - 33
2462903	Cypermethrin	24.0	Spike	P	0 - 51

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P440412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462903	Dacthal	26.6	Spike	P	0 - 27
2462903	DDD-p,p'	11.1	Spike	P	0 - 39
2462903	DDE-p,p'	15.8	Spike	P	0 - 31
2462903	DDT-p,p'	16.3	Spike	P	0 - 29
2462903	Delta-BHC	0.472	Spike	P	0 - 35
2462903	Deltamethrin	47.7	Spike	P	0 - 100
2462903	Dichlobenil	3.19	Spike	P	0 - 40
2462903	Dicofol	13.8	Spike	P	0 - 37
2462903	Dieldrin	12.5	Spike	P	0 - 27
2462903	Endosulfan I	27.2	Spike	F	0 - 23
2462903	Endosulfan II	3.05	Spike	P	0 - 34
2462903	Endosulfan Sulfate	12.1	Spike	P	0 - 36
2462903	Endrin	17.6	Spike	P	0 - 45
2462903	Endrin Aldehyde	12.0	Spike	P	0 - 76
2462903	Endrin Ketone	13.6	Spike	P	0 - 43
2462903	Esfenvalerate	13.6	Spike	P	0 - 51
2462903	Ethalfuralin	4.88	Spike	P	0 - 22
2462903	Fenpropathrin	12.6	Spike	P	0 - 49
2462903	Gamma-BHC	6.49	Spike	P	0 - 28
2462903	Gamma-Chlordane	9.46	Spike	P	0 - 40
2462903	Heptachlor	4.49	Spike	P	0 - 29
2462903	Heptachlor Epoxide	39.7	Spike	F	0 - 33
2462903	Hexachlorobenzene	3.36	Spike	P	0 - 36
2462903	Kepone	6.14	Spike	P	0 - 85
2462903	Lambda-Cyhalothrin	22.6	Spike	P	0 - 55
2462903	Methoprene	19.3	Spike	P	0 - 53
2462903	Methoxychlor	4.80	Spike	P	0 - 50
2462903	MGK-264	37.3	Spike	P	0 - 43
2462903	Mirex	2.14	Spike	P	0 - 40
2462903	Oxychlordane	32.3	Spike	F	0 - 31
2462903	Permethrin	10.8	Spike	P	0 - 50
2462903	Phenothrin	16.9	Spike	P	0 - 58
2462903	Piperonyl Butoxide	5.93	Spike	P	0 - 100
2462903	Prallethrin	30.2	Spike	P	0 - 39
2462903	Tau-Fluvalinate	42.7	Spike	P	0 - 54
2462903	Tetramethrin	1.67	Spike	P	0 - 51
2462903	Trans-Nonachlor	2.80	Spike	P	0 - 39
2462903	Triclosan Methyl	38.6	Spike	F	0 - 31
2462903	Trifluralin	14.5	Spike	P	0 - 22
2463408	PCB-1016	12.3	Spike	P	0 - 25
2463408	PCB-1260	15.3	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P440412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463408	Chlordane	9.84	Spike	P	0 - 28
2463408	Toxaphene	7.56	Spike	P	0 - 27

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P440425

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463113	Acesulfame K	8.00	Spike	P	0 - 30
2463113	AMPA	0.637	Spike	P	0 - 30
2463113	Endothall	1.93	Spike	P	0 - 30
2463113	Glufosinate	0.579	Spike	P	0 - 30
2463113	Glyphosate	2.01	Spike	P	0 - 30
2463113	Sucralose	8.13	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P440426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2462667	2,4-D	7.56	Spike	P	0 - 30
2462667	2,4,5-T	7.93	Spike	P	0 - 30
2462667	Acetaminophen	23.5	Spike	P	0 - 30
2462667	Acetamiprid	2.41	Spike	P	0 - 30
2462667	Afidopyropen	3.33	Spike	P	0 - 30
2462667	Bentazon	25.4	Spike	P	0 - 30
2462667	Benzovindiflupyr	14.4	Spike	P	0 - 30
2462667	Carbamazepine	6.42	Spike	P	0 - 30
2462667	Clothianidin	6.74	Spike	P	0 - 30
2462667	Dinotefuran	9.81	Spike	P	0 - 30
2462667	Diuron	1.70	Spike	P	0 - 30
2462667	Fenuron	0.218	Spike	P	0 - 30
2462667	Fluridone	8.18	Spike	P	0 - 30
2462667	Hydrocodone	16.3	Spike	P	0 - 30
2462667	Ibuprofen	8.87	Spike	P	0 - 30
2462667	Imazapyr	6.61	Spike	P	0 - 30
2462667	Imidacloprid	3.62	Spike	P	0 - 30
2462667	Linuron	1.19	Spike	P	0 - 30
2462667	Mandestrobin	10.2	Spike	P	0 - 30
2462667	MCPP	2.08	Spike	P	0 - 30
2462667	Naproxen	2.85	Spike	P	0 - 30
2462667	Primidone	9.77	Spike	P	0 - 30
2462667	Pyraclostrobin	13.5	Spike	P	0 - 30
2462667	Silvex	4.81	Spike	P	0 - 30
2462667	Thiamethoxam	1.88	Spike	P	0 - 30
2462667	Tolfenpyrad	25.1	Spike	P	0 - 30
2462667	Triclopyr	1.27	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P440872

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463058	Total Alkalinity	1.10	Sample	P	0 - 3.9

Quality Assurance Report
Precision

Reference Method: SM 2320 B-2011
Batch ID: P440873

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463552	Total Alkalinity	1.21	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P440997

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463133	TDS	2.76	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P440875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463058	Fluoride	0.527	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P440876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463552	Fluoride	4.51	Spike	F	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P440787

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463142	Organic Carbon	2.13	Spike	P	0 - 15

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

Quality Assurance Report

Surrogates

Lab Sample ID: 2463307

Field Sample ID: G5SE0079

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	106	P	37 - 129
EPA 8270E	Decachlorobiphenyl	57.1	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	49.2	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	80.8	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	78.4	P	23 - 110
EPA 8276	PCNB	117	P	51 - 130

Lab Sample ID: 2463314

Field Sample ID: G5SE0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	80.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	71.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	71.3	P	30 - 160
EPA 8321B	Diuron-d6	59.8	P	30 - 160
EPA 8321B	Endothall-d6	96.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	62.1	P	30 - 160
EPA 8321B	Primidone-d5	75.7	P	30 - 160
EPA 8321B	Sucralose-d6	99.9	P	30 - 160

Lab Sample ID: 2463315

Field Sample ID: G5SE0147

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	70.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	73.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	68.5	P	30 - 160
EPA 8321B	Diuron-d6	54.2	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	56.4	P	30 - 160
EPA 8321B	Primidone-d5	69.9	P	30 - 160
EPA 8321B	Sucralose-d6	103	P	30 - 160

Lab Sample ID: 2463316

Field Sample ID: G5SE0062

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	76.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	75.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.1	P	30 - 160
EPA 8321B	Diuron-d6	54.4	P	30 - 160
EPA 8321B	Endothall-d6	102	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	95.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.2	P	30 - 160
EPA 8321B	Primidone-d5	74.7	P	30 - 160
EPA 8321B	Sucralose-d6	94.7	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2463317
Field Sample ID: G5SE0079

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	74.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	73.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.2	P	30 - 160
EPA 8321B	Diuron-d6	57.6	P	30 - 160
EPA 8321B	Endothall-d6	94.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	95.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.8	P	30 - 160
EPA 8321B	Primidone-d5	76.2	P	30 - 160
EPA 8321B	Sucralose-d6	63.2	P	30 - 160

Lab Sample ID: 2463318
Field Sample ID: G5SE0151

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	78.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.6	P	30 - 160
EPA 8321B	Diuron-d6	62.9	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	98.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	61.9	P	30 - 160
EPA 8321B	Primidone-d5	83.9	P	30 - 160
EPA 8321B	Sucralose-d6	63.6	P	30 - 160

Lab Sample ID: 2463319
Field Sample ID: G5SE0145

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	72.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	72.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.5	P	30 - 160
EPA 8321B	Diuron-d6	57.8	P	30 - 160
EPA 8321B	Endothall-d6	110	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	56.0	P	30 - 160
EPA 8321B	Primidone-d5	70.3	P	30 - 160
EPA 8321B	Sucralose-d6	110	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A123821

Included Lab Sample IDs: 2463277, 2463279, 2463281, 2463283, 2463285, 2463287

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A123828

Included Lab Sample IDs: 2463277, 2463279, 2463281, 2463283, 2463285, 2463287

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.5	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A123867

Included Lab Sample IDs: 2463314, 2463315, 2463316, 2463317, 2463318, 2463319

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	103	125	P/P	60 - 160
Acesulfame K	125	126	P/P	60 - 160
Sucralose	88.7	102	P/P	60 - 160
Sucralose	92.0	88.7	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A123868

Included Lab Sample IDs: 2463314, 2463315, 2463316, 2463317, 2463318, 2463319

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	94.9	96.8	P/P	60 - 160
AMPA	96.8	96.5	P/P	60 - 160
Endothall	94.6	90.9	P/P	60 - 160
Endothall	96.6	94.6	P/P	60 - 160
Glufosinate	94.7	98.1	P/P	60 - 160
Glufosinate	98.1	100	P/P	60 - 160
Glyphosate	102	101	P/P	60 - 160
Glyphosate	97.3	102	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A123888

Included Lab Sample IDs: 2463327

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.6	98.9	P/P	90 - 110
Antimony	97.8	97.8	P/P	90 - 110
Arsenic	94.4	94.9	P/P	90 - 110
Barium	97.8	96.8	P/P	90 - 110
Beryllium	96.9	95.7	P/P	90 - 110
Boron	105	103	P/P	90 - 110
Cadmium	97.0	95.9	P/P	90 - 110
Chromium	95.2	95.1	P/P	90 - 110
Cobalt	93.3	93.0	P/P	90 - 110
Copper	94.3	93.8	P/P	90 - 110
Lead	92.5	92.1	P/P	90 - 110
Manganese	94.4	95.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A123888

Included Lab Sample IDs: 2463327

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Molybdenum	96.7	96.5	P/P	90 - 110
Nickel	92.8	91.5	P/P	90 - 110
Selenium	96.3	99.1	P/P	90 - 110
Silver	97.0	96.6	P/P	90 - 110
Thallium	97.7	97.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A123893

Included Lab Sample IDs: 2463307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	95.0		P	80 - 120
PCB-1260	96.9		P	80 - 120

Reference Method: EPA 8276

Run ID: A123904

Included Lab Sample IDs: 2463307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.3		P	80 - 120
Toxaphene	98.3		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A123908

Included Lab Sample IDs: 2463277, 2463279, 2463281, 2463283, 2463285, 2463287

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110
Chloride	97.3	98.9	P/P	90 - 110
Sulfate	96.9	98.0	P/P	90 - 110
Sulfate	99.2	101	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A123912

Included Lab Sample IDs: 2463307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	92.2		P	80 - 120
Alpha-BHC	93.3		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	101		P	80 - 120
Beta-Cyfluthrin	106		P	80 - 120
Bifenthrin	107		P	80 - 120
Chlorothalonil	98.7		P	80 - 120
Cis-Nonachlor	113		P	80 - 120
Cypermethrin	105		P	80 - 120
Dacthal	92.1		P	80 - 120
DDD-p,p'	113		P	80 - 120
DDE-p,p'	113		P	80 - 120
DDT-p,p'	99.6		P	80 - 120
Delta-BHC	99.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123912
Included Lab Sample IDs: 2463307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Deltamethrin	95.8		P	80 - 120
Dichlobenil	84.5		P	80 - 120
Dicofol	103		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	95.0		P	80 - 120
Endosulfan II	97.0		P	80 - 120
Endosulfan Sulfate	106		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	93.6		P	80 - 120
Endrin Ketone	106		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	96.0		P	80 - 120
Fenpropathrin	117		P	80 - 120
Gamma-BHC	88.3		P	80 - 120
Gamma-Chlordane	94.1		P	80 - 120
Heptachlor	88.4		P	80 - 120
Heptachlor Epoxide	89.6		P	80 - 120
Hexachlorobenzene	96.4		P	80 - 120
Kepone	107		P	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoprene	95.6		P	80 - 120
Methoxychlor	117		P	80 - 120
MGK-264	100		P	80 - 120
Mirex	95.2		P	80 - 120
Oxychlordane	86.0		P	80 - 120
Permethrin	104		P	80 - 120
Phenothrin	95.2		P	80 - 120
Piperonyl Butoxide	115		P	80 - 120
Prallethrin	102		P	80 - 120
Tau-Fluvalinate	106		P	80 - 120
Tetramethrin	94.2		P	80 - 120
Trans-Nonachlor	93.5		P	80 - 120
Triclosan Methyl	87.7		P	80 - 120
Trifluralin	108		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A123913
Included Lab Sample IDs: 2463280, 2463284, 2463286, 2463288

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	101	P/P	90 - 110
Total-P	99.0	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A123917
Included Lab Sample IDs: 2463278, 2463280, 2463282, 2463284, 2463286, 2463288

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

Quality Assurance Report

Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123918

Included Lab Sample IDs: 2463282

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	102	P/P	90 - 110

Reference Method: SM 5310 B-2014

Run ID: A123942

Included Lab Sample IDs: 2463278, 2463280, 2463282, 2463284, 2463286, 2463288

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	118	96.3	P/P	70 - 130

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A123945

Included Lab Sample IDs: 2463282, 2463284, 2463286, 2463288

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	103	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A123947

Included Lab Sample IDs: 2463314, 2463315, 2463316, 2463317, 2463318, 2463319

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	117	118	P/P	50 - 150
2,4-D	118	97.5	P/P	50 - 150
2,4,5-T	76.5	79.8	P/P	50 - 150
2,4,5-T	93.8	76.5	P/P	50 - 150
Acetaminophen	108	106	P/P	60 - 160
Acetaminophen	108	108	P/P	60 - 160
Acetamiprid	113	114	P/P	50 - 150
Acetamiprid	114	114	P/P	50 - 150
Afidopyropen	107	129	P/P	50 - 150
Afidopyropen	125	107	P/P	50 - 150
Bentazon	103	100	P/P	50 - 160
Bentazon	95.9	90.4	P/P	50 - 160
Benzovindiflupyr	104	109	P/P	50 - 150
Benzovindiflupyr	109	110	P/P	50 - 150
Carbamazepine	109	115	P/P	60 - 150
Carbamazepine	111	109	P/P	60 - 150
Clothianidin	105	109	P/P	60 - 150
Clothianidin	109	109	P/P	60 - 150
Dinotefuran	105	117	P/P	50 - 150
Dinotefuran	117	115	P/P	50 - 150
Diuron	109	113	P/P	60 - 160
Diuron	111	109	P/P	60 - 160
Fenuron	109	110	P/P	60 - 150
Fenuron	109	109	P/P	60 - 150
Fluridone	109	124	P/P	60 - 160
Fluridone	124	115	P/P	60 - 160
Hydrocodone	120	126	P/P	60 - 150
Hydrocodone	126	123	P/P	60 - 150
Ibuprofen	104	82.3	P/P	50 - 160
Ibuprofen	79.1	104	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A123947

Included Lab Sample IDs: 2463314, 2463315, 2463316, 2463317, 2463318, 2463319

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imazapyr	77.5	76.7	P/P	50 - 150
Imazapyr	84.3	77.5	P/P	50 - 150
Imidacloprid	101	101	P/P	60 - 150
Imidacloprid	99.3	101	P/P	60 - 150
Linuron	102	103	P/P	60 - 150
Linuron	103	94.4	P/P	60 - 150
Mandestrobin	113	115	P/P	50 - 150
Mandestrobin	115	115	P/P	50 - 150
MCPP	86.5	88.0	P/P	50 - 150
MCPP	93.0	86.5	P/P	50 - 150
Naproxen	123	66.4	P/P	50 - 160
Naproxen	66.4	95.7	P/P	50 - 160
Primidone	102	99.6	P/P	60 - 150
Primidone	99.6	105	P/P	60 - 150
Pyraclostrobin	112	112	P/P	60 - 150
Pyraclostrobin	115	112	P/P	60 - 150
Silvex	103	79.5	P/P	50 - 150
Silvex	79.5	84.8	P/P	50 - 150
Thiamethoxam	113	114	P/P	50 - 150
Thiamethoxam	114	125	P/P	50 - 150
Tolfenpyrad	108	105	P/P	60 - 150
Tolfenpyrad	109	108	P/P	60 - 150
Triclopyr	89.9	91.5	P/P	50 - 150
Triclopyr	91.5	82.9	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123950

Included Lab Sample IDs: 2463278

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

Reference Method: SM 2320 B-2011

Run ID: A123977

Included Lab Sample IDs: 2463277, 2463279, 2463281, 2463283, 2463285, 2463287

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.8	95.8	P/P	90 - 110
Total Alkalinity	98.0	95.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A123977

Included Lab Sample IDs: 2463277, 2463279, 2463281, 2463283, 2463285, 2463287

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	104	P/P	90 - 110
Fluoride	104	105	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A123984
Included Lab Sample IDs: 2463278, 2463280, 2463284, 2463286, 2463288

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	96.3	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A124011
Included Lab Sample IDs: 2463278, 2463280

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A124046
Included Lab Sample IDs: 2463282

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

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A124121
Included Lab Sample IDs: 2463327

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	108	108	P/P	90 - 110
Iron	108	108	P/P	90 - 110
Magnesium	107	107	P/P	90 - 110
Potassium	103	103	P/P	90 - 110
Sodium	101	102	P/P	90 - 110
Strontium	93.8	95.6	P/P	90 - 110
Tin	99.4	98.6	P/P	90 - 110
Titanium	101	100	P/P	90 - 110
Vanadium	103	103	P/P	90 - 110
Zinc	102	103	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	100				1.05	
	Color (true)	102				1.20	
EPA 180.1 Rev. 2.0	Turbidity	104				2.03	
EPA 200.7 Rev. 4.4	Calcium	112	111	111			1.77
	Iron	112	117	117	116		0.163
	Magnesium	112	117	116	115		0.487
	Potassium	102	102	102	102		0.169
	Sodium	105	104	104			1.25
	Strontium	97.0	96.9	95.7	95.3		1.26
	Tin	95.7	93.9	93.6	91.4		0.348
	Titanium	101	99.5	98.3	99.3		1.16
	Vanadium	102	104	103	101		0.962
	Zinc	97.9	99.9	99.0	98.2		0.937
EPA 200.8 Rev. 5.4	Aluminum	102	102	101	98.7		0.592
	Antimony	98.5	99.3	99.2	99.5		0.0901
	Arsenic	99.4	98.7	98.0	98.1		0.706
	Barium	99.5	101	101	101		0.183
	Beryllium	94.8	99.7	92.8	93.0		6.86
	Boron	106	108	107	107		0.613
	Cadmium	99.1	99.1	99.3	100		0.247
	Chromium	101	101	101	101		0.211
	Cobalt	98.9	97.3	98.1	97.2		0.861
	Copper	99.4	96.5	96.6	96.7		0.0447
	Lead	93.7	95.1	94.5	93.9		0.587
	Manganese	98.2	99.0	100	98.4		0.884
	Molybdenum	96.9	99.8	99.9	98.2		0.105
	Nickel	98.1	97.6	95.9	92.0		1.70
	Selenium	100	98.5	97.3	97.4		1.30
	Silver	96.2	94.8	94.4	94.7		0.413
	Thallium	98.2	101	100	100		0.548
EPA 300.0 Rev. 2.1	Chloride	103	102	104		0.715	
	Chloride	99.6	101	101		1.64	
	Sulfate	101	98.7			0.167	
	Sulfate	98.1	99.4	99.4		1.68	
EPA 350.1 Rev. 2.0	Ammonia-N	99.2	100	101			0.520
	Ammonia-N	98.4	95.4	94.6			0.745
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	111	109			1.34
	Kjeldahl Nitrogen	101	110	104			2.89
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	96.5	97.5			0.562
EPA 365.1 Rev. 2.0	Total-P	107	102	105			1.96
	Total-P	103	104	103			1.15
	Total-P	104	105	104			0.452
EPA 8270E	Aldrin	64.4	72.7	56.8			24.6
	Alpha-BHC	81.4	65.0	70.8			8.52
	Alpha-Chlordane	103	118	76.1			21.6
	Beta-BHC	96.5	116	107			8.01
	Beta-Cyfluthrin	108	106	90.1			16.3
	Bifenthrin	37.3	48.8	46.7			4.35
	Chlorothalonil	102	43.1	56.6			27.2
	Cis-Nonachlor	57.0	69.5	72.4			4.12
	Cypermethrin	58.2	74.4	58.5			24.0
	Dacthal	95.5	73.3	95.8			26.6
	DDD-p,p'	57.7	65.0	58.2			11.1
	DDE-p,p'	57.7	83.2	71.0			15.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	DDT-p,p'	71.4	62.7	73.9			16.3
	Delta-BHC	71.7	67.6	67.3			0.472
	Deltamethrin	125	80.9	132			47.7
	Dichlobenil	90.0	52.1	54.0			3.19
	Dicofol	72.7	63.8	73.3			13.8
	Dieldrin	85.1	126	109			12.5
	Endosulfan I	88.0	109	83.3			27.2
	Endosulfan II	86.2	99.8	96.8			3.05
	Endosulfan Sulfate	127	119	134			12.1
	Endrin	94.5	81.4	97.1			17.6
	Endrin Aldehyde	93.1	82.9	73.5			12.0
	Endrin Ketone	101	89.7	103			13.6
	Esfenvalerate	103	96.4	110			13.6
	Ethalfuralin	91.6	82.3	86.4			4.88
	Fenpropathrin	41.9	54.0	47.6			12.6
	Gamma-BHC	80.4	88.2	82.6			6.49
	Gamma-Chlordane	62.5	106	94.0			9.46
	Heptachlor	47.6	49.7	52.0			4.49
	Heptachlor Epoxide	101	125	77.8			39.7
	Hexachlorobenzene	48.8	45.8	47.4			3.36
	Kepone	129	101	94.6			6.14
	Lambda-Cyhalothrin	67.9	48.7	61.2			22.6
	Methoprene	38.5	61.3	50.5			19.3
	Methoxychlor	64.7	72.0	68.7			4.80
	MGK-264	129	137	93.9			37.3
	Mirex	36.8	45.7	44.7			2.14
	Oxychlordane	83.4	114	82.0			32.3
	PCB-1016	73.3	71.6	63.3			12.3
	PCB-1260	77.4	77.6	66.6			15.3
	Permethrin	97.2	83.3	92.8			10.8
	Phenothrin	71.1	88.0	74.3			16.9
	Piperonyl Butoxide	105	114	108			5.93
	Prallethrin	110	108	79.3			30.2
	Tau-Fluvalinate	51.9	47.9	74.0			42.7
	Tetramethrin	103	82.2	80.8			1.67
	Trans-Nonachlor	78.6	107	111			2.80
	Triclosan Methyl	94.2	135	91.2			38.6
	Trifluralin	92.1	75.0	86.7			14.5
EPA 8276	Chlordane	101	94.0	85.2			9.84
	Toxaphene	110	94.5	87.6			7.56
EPA 8321B	2,4-D	123					7.56
	2,4,5-T	105	91.9	84.9			7.93
	Acesulfame K	102	130	141			8.00
	Acetaminophen	92.3					23.5
	Acetamiprid	95.2	96.3	98.7			2.41
	Afidopyropen	75.3	94.4	97.6			3.33
	AMPA	98.6	94.3	94.9			0.637
	Bentazon	96.0					25.4
	Benzovindiflupyr	92.6	91.4	106			14.4
	Carbamazepine	87.5	87.7	93.5			6.42
	Clothianidin	99.1	119	111			6.74
	Dinotefuran	108	123	111			9.81
	Diuron	86.0	83.3	84.7			1.70
	Endothall	89.9	98.6	100			1.93

Quality Assurance Report

Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Fenuron	100	91.6	91.8		0.218
	Fluridone	96.7	90.7	98.5		8.18
	Glufosinate	94.0	99.6	100		0.579
	Glyphosate	101	102	104		2.01
	Hydrocodone	115	116	98.6		16.3
	Ibuprofen	79.1	81.1	74.2		8.87
	Imazapyr	97.1	99.2	109		6.61
	Imidacloprid	97.0	133	127		3.62
	Linuron	81.4	84.0	85.1		1.19
	Mandestrobin	95.6	99.4	110		10.2
	MCPP	97.9	91.9	93.9		2.08
	Naproxen	72.6	76.2	73.5		2.85
	Primidone	90.6	106	95.9		9.77
	Pyraclostrobin	93.9	86.5	99.0		13.5
	Silvex	92.1	80.9	84.9		4.81
	Sucralose	88.4	96.4	105		8.13
	Thiamethoxam	108	118	121		1.88
	Tolfenpyrad	61.8	53.1	68.2		25.1
	Triclopyr	116	90.9	89.8		1.27
SM 2320 B-2011	Total Alkalinity	97.6			1.10	
	Total Alkalinity	101			1.21	
SM 2540 C-2015	TDS	96.4			2.76	
SM 2540 D-2015	TSS	92.8				
SM 4500-F- C-2011	Fluoride	101	101	102		0.527
	Fluoride	103	98.1	103		4.51
SM 5310 B-2014	Organic Carbon	98.9	98.4	102		2.13

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2463277, 2463279, 2463281, 2463283, 2463285, 2463287
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2463277, 2463279, 2463281, 2463283, 2463285, 2463287
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2463327
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2463327
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2463277, 2463279, 2463281, 2463283, 2463285, 2463287
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2463277, 2463279, 2463281, 2463283, 2463285, 2463287
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2463278, 2463280, 2463282, 2463284, 2463286, 2463288
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2463278, 2463280, 2463282, 2463284, 2463286, 2463288
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2463278, 2463280, 2463282, 2463284, 2463286, 2463288
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2463278, 2463280, 2463282, 2463284, 2463286, 2463288
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2463307
EPA 8270E	PCBs in water matrices by GC/MS/MS	2463307
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2463307

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2463314, 2463315, 2463316, 2463317, 2463318, 2463319
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2463277, 2463279, 2463281, 2463283, 2463285, 2463287
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2463327
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2463277, 2463279, 2463281, 2463283, 2463285, 2463287
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2463277, 2463279, 2463281, 2463283, 2463285, 2463287
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2463277, 2463279, 2463281, 2463283, 2463285, 2463287
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2463278, 2463280, 2463282, 2463284, 2463286, 2463288

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	01/25/2024			01/25/2024 13:49	Chandler E Cox	2463277, 2463279
	01/25/2024			01/25/2024 13:50	Chandler E Cox	2463281
	01/25/2024			01/25/2024 13:51	Chandler E Cox	2463283
	01/25/2024			01/25/2024 13:55	Chandler E Cox	2463285
	01/25/2024			01/25/2024 13:56	Chandler E Cox	2463287
EPA 180.1 Rev. 2.0	01/25/2024			01/25/2024 13:13	Anna M. Plaviak	2463277
	01/25/2024			01/25/2024 13:15	Anna M. Plaviak	2463279
	01/25/2024			01/25/2024 13:16	Anna M. Plaviak	2463281
	01/25/2024			01/25/2024 13:17	Anna M. Plaviak	2463283
	01/25/2024			01/25/2024 13:18	Anna M. Plaviak	2463285
EPA 200.7 Rev. 4.4	01/25/2024			01/25/2024 13:19	Anna M. Plaviak	2463287
	01/25/2024	01/26/2024 11:25	George D Taylor	02/12/2024 18:13	Chase Roberts	2463327
	01/25/2024	01/26/2024 11:25	George D Taylor	02/12/2024 18:20	Chase Roberts	2463327
	01/25/2024	01/26/2024 11:25	George D Taylor	01/29/2024 18:21	Conrad Hartmann	2463327
	01/25/2024			01/30/2024 17:10	James L Waggeberby	2463277
EPA 300.0 Rev. 2.1	01/25/2024			01/30/2024 17:25	James L Waggeberby	2463279
	01/25/2024			01/30/2024 17:40	James L Waggeberby	2463281
	01/25/2024			01/30/2024 17:55	James L Waggeberby	2463283
	01/25/2024			01/31/2024 16:34	James L Waggeberby	2463285
	01/25/2024			01/31/2024 16:49	James L Waggeberby	2463287
EPA 350.1 Rev. 2.0	01/25/2024			02/01/2024 12:19	Khloe J Berg	2463282
	01/25/2024			02/01/2024 12:23	Khloe J Berg	2463284
	01/25/2024			02/01/2024 12:25	Khloe J Berg	2463286
	01/25/2024			02/01/2024 12:26	Khloe J Berg	2463288
	01/25/2024			02/06/2024 12:33	Kenneth H Lee	2463278
EPA 351.2 Rev. 2.0	01/25/2024			02/06/2024 12:35	Kenneth H Lee	2463280
	01/25/2024	01/30/2024 14:45	Simonne.V. Calhoun	02/02/2024 13:08	Samantha L Bates	2463278
	01/25/2024	01/30/2024 14:45	Simonne.V. Calhoun	02/02/2024 13:09	Samantha L Bates	2463280
	01/25/2024	01/30/2024 14:45	Simonne.V. Calhoun	02/02/2024 13:16	Samantha L Bates	2463284
	01/25/2024	01/30/2024 14:45	Simonne.V. Calhoun	02/02/2024 13:18	Samantha L Bates	2463286
EPA 353.2 Rev. 2.0	01/25/2024	01/30/2024 14:45	Simonne.V. Calhoun	02/02/2024 13:19	Samantha L Bates	2463288
	01/25/2024	02/06/2024 11:55	Samantha L Bates	02/07/2024 13:49	Samantha L Bates	2463282
	01/25/2024			01/30/2024 11:36	Anna M. Plaviak	2463278
	01/25/2024			01/30/2024 11:42	Anna M. Plaviak	2463280
	01/25/2024			01/30/2024 11:43	Anna M. Plaviak	2463282
EPA 365.1 Rev. 2.0	01/25/2024			01/30/2024 11:45	Anna M. Plaviak	2463284
	01/25/2024			01/30/2024 11:46	Anna M. Plaviak	2463286
	01/25/2024			01/30/2024 11:47	Anna M. Plaviak	2463288
	01/25/2024	01/30/2024 14:24	Adam P Silver	01/31/2024 10:57	Elise M. Gillis	2463280
	01/25/2024	01/30/2024 14:24	Adam P Silver	01/31/2024 10:59	Elise M. Gillis	2463284

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 365.1 Rev. 2.0	01/25/2024	01/30/2024 14:24	Adam P Silver	01/31/2024 11:06	Elise M. Gillis	2463286
	01/25/2024	01/30/2024 14:24	Adam P Silver	01/31/2024 11:07	Elise M. Gillis	2463288
	01/25/2024	01/30/2024 14:24	Adam P Silver	01/31/2024 12:46	Elise M. Gillis	2463282
	01/25/2024	01/31/2024 14:45	Adam P Silver	02/01/2024 12:48	Simonne.V. Calhoun	2463278
EPA 8270E	01/25/2024	01/26/2024 08:00	Fe-Val Siddell	01/30/2024 03:26	Lipi Saha	2463307
	01/25/2024	01/26/2024 08:00	Fe-Val Siddell	01/30/2024 21:48	Julie Wi	2463307
EPA 8276	01/25/2024	01/26/2024 08:00	Fe-Val Siddell	01/30/2024 20:56	Arthur Maknenko	2463307
EPA 8321B	01/25/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 14:34	Samatha Luckman	2463314
	01/25/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 14:47	Samatha Luckman	2463315
	01/25/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 15:01	Samatha Luckman	2463316
	01/25/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 15:15	Samatha Luckman	2463317
	01/25/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 15:42	Samatha Luckman	2463318
	01/25/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 15:56	Samatha Luckman	2463319
	01/25/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 03:31	Samatha Luckman	2463314
	01/25/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 03:45	Samatha Luckman	2463315
	01/25/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 03:59	Samatha Luckman	2463316
	01/25/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 04:13	Samatha Luckman	2463317
	01/25/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 10:33	Samatha Luckman	2463318
	01/25/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 10:47	Samatha Luckman	2463319
	01/25/2024	01/29/2024 08:45	Hoor Shaik	02/01/2024 01:55	Juyoung Kim	2463314
	01/25/2024	01/29/2024 08:45	Hoor Shaik	02/01/2024 02:12	Juyoung Kim	2463315
	01/25/2024	01/29/2024 08:45	Hoor Shaik	02/01/2024 02:30	Juyoung Kim	2463316
	01/25/2024	01/29/2024 08:45	Hoor Shaik	02/01/2024 02:48	Juyoung Kim	2463317
	01/25/2024	01/29/2024 08:45	Hoor Shaik	02/01/2024 03:06	Juyoung Kim	2463318
	01/25/2024	01/29/2024 08:45	Hoor Shaik	02/01/2024 03:42	Juyoung Kim	2463319
	01/25/2024	01/29/2024 08:45	Hoor Shaik	02/01/2024 12:14	Juyoung Kim	2463319
SM 2320 B-2011	01/25/2024			02/01/2024 04:40	Dale L. Simmons	2463277
	01/25/2024			02/01/2024 04:53	Dale L. Simmons	2463279
	01/25/2024			02/01/2024 05:06	Dale L. Simmons	2463281
	01/25/2024			02/01/2024 05:18	Dale L. Simmons	2463287
	01/25/2024			02/01/2024 05:46	Dale L. Simmons	2463285
	01/25/2024			02/01/2024 11:41	Dale L. Simmons	2463283
SM 2340 B-2011	01/25/2024			02/12/2024 18:13	Chase Roberts	2463327
SM 2540 C-2015	01/25/2024			01/30/2024 15:39	Yijie Li	2463277, 2463279, 2463281, 2463283, 2463285, 2463287
SM 2540 D-2015	01/25/2024			01/30/2024 15:39	Yijie Li	2463277, 2463279, 2463281, 2463283, 2463285, 2463287
SM 4500-F- C-2011	01/25/2024			02/01/2024 04:40	Dale L. Simmons	2463277
	01/25/2024			02/01/2024 04:53	Dale L. Simmons	2463279
	01/25/2024			02/01/2024 05:06	Dale L. Simmons	2463281

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500-F- C-2011	01/25/2024			02/01/2024 05:18	Dale L. Simmons	2463287
	01/25/2024			02/01/2024 05:46	Dale L. Simmons	2463285
	01/25/2024			02/01/2024 11:41	Dale L. Simmons	2463283
SM 5310 B-2014	01/25/2024			02/01/2024 07:00	Khloe J Berg	2463278
	01/25/2024			02/01/2024 07:15	Khloe J Berg	2463280
	01/25/2024			02/01/2024 07:30	Khloe J Berg	2463282
	01/25/2024			02/01/2024 07:45	Khloe J Berg	2463284
	01/25/2024			02/01/2024 08:00	Khloe J Berg	2463286
	01/25/2024			02/01/2024 08:15	Khloe J Berg	2463288