

Chemical Analysis Report

SE-DIST-2024-01-26-01

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

Event Description: **SMP - Turkey Creek**
Request ID: **RQ-2024-01-08-30**
Customer: **SE-DIST**
Project ID: **SMP**

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FL Dept. of Environmental Protection
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 12-FEB-2024 10:29



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: 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: NORTH DITCH NEAR BOTTLEBRUSH DR

Collection Date/Time: 01/25/2024 10:15

Field ID: G5SE0135

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463663	DEP SOP: NU-094-1	Color (true)	98		PCU	P440543	
	EPA 180.1 Rev. 2.0	Turbidity	19		NTU	P440548	
	EPA 300.0 Rev. 2.1	Chloride	120		mg Cl/L	P440894	
		Sulfate	25		mg SO4/L	P440897	
	SM 2320 B-2011	Total Alkalinity	67		mg CaCO3/L	P440915	
	SM 2540 C-2015	TDS	346		mg/L	P440999	
	SM 2540 D-2015	TSS	10		mg/L	P440831	
2463664	SM 4500-F- C-2011	Fluoride	0.072	I	mg F/L	P440920	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.14		mg N/L	P441067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P440823	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P440707	
	EPA 365.1 Rev. 2.0	Total-P	0.068		mg P/L	P440687	
2463713	SM 5310 B-2014	Organic Carbon	20		mg C/L	P440632	
	EPA 8321B	2,4-D	0.0020	U	ug/L	P440597	
		Acesulfame K	0.10	U	ug/L	P440425	
		2,4,5-T	0.0040	U	ug/L	P440597	
		AMPA	0.21	I	ug/L	P440425	
		Acetaminophen	0.0080	U	ug/L	P440597	
		Acetamiprid	0.0020	U	ug/L	P440597	
		Endothall	0.25	U	ug/L	P440425	
		Glufosinate	0.10	U	ug/L	P440425	
		Glyphosate	0.97		ug/L	P440425	
		Afidopyropen	0.0020	U	ug/L	P440597	RPD
		Sucralose	0.16		ug/L	P440425	
		Bentazon	0.035		ug/L	P440597	MS
		Benzovindiflupyr	0.0020	U	ug/L	P440597	
		Carbamazepine	8.0E-04	U	ug/L	P440597	
		Clothianidin	0.0020	U	ug/L	P440597	
		Dinotefuran	0.0020	U	ug/L	P440597	
		Diuron	0.0045	I	ug/L	P440597	
		Fenuron	0.032	U	ug/L	P440597	
		Fluridone	8.0E-04	U	ug/L	P440597	
		Imazapyr	0.081		ug/L	P440597	
		Hydrocodone	0.0020	U	ug/L	P440597	
		Ibuprofen	0.080	U	ug/L	P440597	
		Imidacloprid	0.010		ug/L	P440597	
		Linuron	0.0040	U	ug/L	P440597	
		Mandestrobin	0.0020	U	ug/L	P440597	
		MCPP	0.0021	I	ug/L	P440597	
		Naproxen	0.0080	U	ug/L	P440597	
		Primidone	0.0040	U	ug/L	P440597	
		Pyraclostrobin	0.0020	U	ug/L	P440597	
		Silvex	0.0040	U	ug/L	P440597	
		Thiamethoxam	0.0020	U	ug/L	P440597	

Field ID: G5SE0135

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463713	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440597	
		Triclopyr	0.0040	U	ug/L	P440597	

Ref. Method and Comment:
EPA 8321B: MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: NORTH PRONG TURKEY CREEK TURKEY
CREEK TRAIL

Collection Date/Time: 01/25/2024 10:30

Field ID: G5SE0136

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463667	DEP SOP: NU-094-1	Color (true)	94		PCU	P440540	
	EPA 180.1 Rev. 2.0	Turbidity	8.7		NTU	P440549	
	EPA 300.0 Rev. 2.1	Chloride	160		mg Cl/L	P440894	
		Sulfate	31		mg SO4/L	P440897	
	SM 2320 B-2011	Total Alkalinity	121		mg CaCO3/L	P440916	
	SM 2540 C-2015	TDS	453		mg/L	P440999	
	SM 2540 D-2015	TSS	7	I	mg/L	P440831	
2463668	SM 4500-F- C-2011	Fluoride	0.13		mg F/L	P440921	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.26		mg N/L	P441067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P440823	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.56		mg N/L	P440707	
	EPA 365.1 Rev. 2.0	Total-P	0.27		mg P/L	P440688	
2463715	SM 5310 B-2014	Organic Carbon	16		mg C/L	P440632	
	EPA 8321B	2,4-D	0.0037	I	ug/L	P440597	
		Acesulfame K	0.10	U	ug/L	P440425	
		2,4,5-T	0.0040	U	ug/L	P440597	
		AMPA	0.20	I	ug/L	P440425	
		Acetaminophen	0.0080	U	ug/L	P440597	
		Acetamiprid	0.0020	U	ug/L	P440597	
		Endothall	0.25	U	ug/L	P440425	
		Glufosinate	0.10	U	ug/L	P440425	
		Glyphosate	0.60		ug/L	P440425	
		Afidopyropen	0.0020	U	ug/L	P440597	RPD
		Sucralose	3.4		ug/L	P440425	
		Bentazon	0.030		ug/L	P440597	MS
		Benzovindiflupyr	0.0020	U	ug/L	P440597	
		Carbamazepine	0.0071		ug/L	P440597	
		Clothianidin	0.0020	U	ug/L	P440597	
		Dinotefuran	0.012		ug/L	P440597	
		Diuron	0.0034	I	ug/L	P440597	
		Fenuron	0.032	U	ug/L	P440597	
		Fluridone	0.0069		ug/L	P440597	
		Imazapyr	0.076		ug/L	P440597	
		Hydrocodone	0.0020	U	ug/L	P440597	
		Ibuprofen	0.080	U	ug/L	P440597	
		Imidacloprid	0.011		ug/L	P440597	
		Linuron	0.0040	U	ug/L	P440597	
		Mandestrobin	0.0020	U	ug/L	P440597	
		MCPP	0.0020	U	ug/L	P440597	
		Naproxen	0.0080	U	ug/L	P440597	
		Primidone	0.028		ug/L	P440597	
		Pyraclostrobin	0.0020	U	ug/L	P440597	
		Silvex	0.0040	U	ug/L	P440597	

Field ID: G5SE0136

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463715	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	P440597	
		Tolfenpyrad	0.0020	U	ug/L	P440597	
		Triclopyr	0.0040	U	ug/L	P440597	

Ref. Method and Comment:
EPA 8321B: MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: DITCH NEAR PALM BAY WWTP

Collection Date/Time: 01/25/2024 11:04

Field ID: G5SE0134

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463661	DEP SOP: NU-094-1	Color (true)	130		PCU	P440540	
	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P440548	
	EPA 300.0 Rev. 2.1	Chloride	48		mg Cl/L	P440894	
		Sulfate	13		mg SO4/L	P440897	
	SM 2320 B-2011	Total Alkalinity	58		mg CaCO3/L	P440915	
	SM 2540 C-2015	TDS	192		mg/L	P440999	
	SM 2540 D-2015	TSS	2	U	mg/L	P440831	
2463662	SM 4500-F- C-2011	Fluoride	0.085	I	mg F/L	P440920	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P441067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.58		mg N/L	P440823	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.093		mg N/L	P440707	
	EPA 365.1 Rev. 2.0	Total-P	0.026		mg P/L	P440687	
2463712	SM 5310 B-2014	Organic Carbon	15		mg C/L	P440632	
	EPA 8321B	2,4-D	0.0020	U	ug/L	P440597	
		Acesulfame K	0.10	U	ug/L	P440425	
		2,4,5-T	0.0040	U	ug/L	P440597	
		AMPA	0.11	I	ug/L	P440425	
		Acetaminophen	0.0080	U	ug/L	P440597	
		Acetamiprid	0.0020	U	ug/L	P440597	
		Endothall	0.25	U	ug/L	P440425	
		Glufosinate	0.10	U	ug/L	P440425	
		Glyphosate	0.14	I	ug/L	P440425	
		Afidopyropen	0.0020	UJ	ug/L	P440597	RPD
		Sucralose	0.61		ug/L	P440425	
		Bentazon	0.0072	J	ug/L	P440597	MS
		Benzovindiflupyr	0.0020	U	ug/L	P440597	
		Carbamazepine	8.0E-04	U	ug/L	P440597	
		Clothianidin	0.0020	U	ug/L	P440597	
		Dinotefuran	0.0020	U	ug/L	P440597	
		Diuron	0.017		ug/L	P440597	
		Fenuron	0.032	U	ug/L	P440597	
		Fluridone	0.0029	I	ug/L	P440597	
		Imazapyr	0.14		ug/L	P440597	
		Hydrocodone	0.0020	U	ug/L	P440597	
		Ibuprofen	0.080	U	ug/L	P440597	
		Imidacloprid	0.0058	I	ug/L	P440597	
		Linuron	0.0040	U	ug/L	P440597	
		Mandestrobin	0.0020	U	ug/L	P440597	
		MCPP	0.0020	U	ug/L	P440597	
		Naproxen	0.0080	U	ug/L	P440597	
		Primidone	0.0040	U	ug/L	P440597	
		Pyraclostrobin	0.0020	U	ug/L	P440597	
		Silvex	0.0040	U	ug/L	P440597	
		Thiamethoxam	0.0020	U	ug/L	P440597	

Field ID: G5SE0134

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463712	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440597	
		Triclopyr	0.0040	U	ug/L	P440597	

Ref. Method and Comment:
EPA 8321B: MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: TURKEY CREEK CLEARMONT ST

Collection Date/Time: 01/25/2024 11:25

Field ID: G5SE0131

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463659	DEP SOP: NU-094-1	Color (true)	95		PCU	P440540	
	EPA 180.1 Rev. 2.0	Turbidity	5.5		NTU	P440548	
	EPA 300.0 Rev. 2.1	Chloride	140		mg Cl/L	P440894	
		Sulfate	27		mg SO4/L	P440897	
	SM 2320 B-2011	Total Alkalinity	117		mg CaCO3/L	P440915	
	SM 2540 C-2015	TDS	425		mg/L	P440999	
	SM 2540 D-2015	TSS	3	I	mg/L	P440831	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P440920	
2463660	EPA 350.1 Rev. 2.0	Ammonia-N	0.076		mg N/L	P441067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P440823	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.52		mg N/L	P440707	
	EPA 365.1 Rev. 2.0	Total-P	0.21		mg P/L	P440687	
	SM 5310 B-2014	Organic Carbon	16		mg C/L	P440632	
2463711	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	0.20	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	0.50		ug/L	P440425	
		Afidopyropen	0.0020	U	ug/L	P440426	
		Bentazon	0.023		ug/L	P440426	
		Sucralose	3.9		ug/L	P440425	
		Benzovindiflupyr	0.0020	U	ug/L	P440426	
		Carbamazepine	0.0053		ug/L	P440426	
		Clothianidin	0.0020	U	ug/L	P440426	
		Dinotefuran	0.0093		ug/L	P440426	
		Diuron	0.0049	I	ug/L	P440426	
		Fenuron	0.032	U	ug/L	P440426	
		Fluridone	0.0075		ug/L	P440426	
		Imazapyr	0.071		ug/L	P440426	
		Hydrocodone	0.0020	U	ug/L	P440426	
		Ibuprofen	0.080	U	ug/L	P440426	
		Imidacloprid	0.0082		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	0.022		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: G5SE0131

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463711	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440426	
		Triclopyr	0.0040	U	ug/L	P440426	

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

Sample Location: TURKEY CREEK PORT MALABAR BRIDGE

Collection Date/Time: 01/25/2024 11:45

Field ID: G5SE0132

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463665	DEP SOP: NU-094-1	Color (true)	67		PCU	P440540	
	EPA 180.1 Rev. 2.0	Turbidity	7.6	A	NTU	P440549	
	EPA 300.0 Rev. 2.1	Chloride	120		mg Cl/L	P440894	
		Sulfate	31		mg SO4/L	P440897	
	SM 2320 B-2011	Total Alkalinity	186		mg CaCO3/L	P440915	
	SM 2540 C-2015	TDS	454		mg/L	P440999	
	SM 2540 D-2015	TSS	5	I	mg/L	P440831	
	SM 4500-F- C-2011	Fluoride	0.18		mg F/L	P440920	
2463666	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P441067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.65		mg N/L	P440823	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P440707	
	EPA 365.1 Rev. 2.0	Total-P	0.053		mg P/L	P440687	
	SM 5310 B-2014	Organic Carbon	12		mg C/L	P440632	
2463714	EPA 8321B	2,4-D	0.063		ug/L	P440597	
		Acesulfame K	0.23	I	ug/L	P440425	
		2,4,5-T	0.0040	U	ug/L	P440597	
		AMPA	0.35	I	ug/L	P440425	
		Acetaminophen	0.0080	U	ug/L	P440597	
		Acetamiprid	0.0020	U	ug/L	P440597	
		Endothall	0.25	U	ug/L	P440425	
		Glufosinate	0.10	U	ug/L	P440425	
		Glyphosate	0.97		ug/L	P440425	
		Afidopyropen	0.0020	U	ug/L	P440597	RPD
		Sucralose	1.2		ug/L	P440425	
		Bentazon	0.039		ug/L	P440597	MS
		Benzovindiflupyr	0.0020	U	ug/L	P440597	
		Carbamazepine	0.0066		ug/L	P440597	
		Clothianidin	0.0020	U	ug/L	P440597	
		Dinotefuran	0.0020	U	ug/L	P440597	
		Diuron	0.0020	U	ug/L	P440597	
		Fenuron	0.032	U	ug/L	P440597	
		Fluridone	0.023		ug/L	P440597	
		Imazapyr	0.088		ug/L	P440597	
		Hydrocodone	0.0020	U	ug/L	P440597	
		Ibuprofen	0.080	U	ug/L	P440597	
		Imidacloprid	0.019		ug/L	P440597	
		Linuron	0.0040	U	ug/L	P440597	
		Mandestrobin	0.0020	U	ug/L	P440597	
		MCPP	0.0036	I	ug/L	P440597	
		Naproxen	0.0080	U	ug/L	P440597	
		Primidone	0.0068	I	ug/L	P440597	
		Pyraclostrobin	0.0020	U	ug/L	P440597	
		Silvex	0.0040	U	ug/L	P440597	
		Thiamethoxam	0.0020	U	ug/L	P440597	

Field ID: G5SE0132

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463714	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440597	
		Triclopyr	0.0040	U	ug/L	P440597	

Ref. Method and Comment:
EPA 8321B: MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: TURKEY CREEK RESIDENTIAL CANAL

Collection Date/Time: 01/25/2024 12:00

Field ID: G5SE0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463655	DEP SOP: NU-094-1	Color (true)	68		PCU	P440540	
	EPA 180.1 Rev. 2.0	Turbidity	8.5		NTU	P440548	
	EPA 300.0 Rev. 2.1	Chloride	170		mg Cl/L	P440894	
		Sulfate	36		mg SO4/L	P440897	
	SM 2320 B-2011	Total Alkalinity	151		mg CaCO3/L	P440915	
	SM 2540 C-2015	TDS	493		mg/L	P440998	RPD
	SM 2540 D-2015	TSS	10		mg/L	P440829	
	SM 4500-F- C-2011	Fluoride	0.15		mg F/L	P440920	
2463656	EPA 350.1 Rev. 2.0	Ammonia-N	0.080		mg N/L	P441066	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.87		mg N/L	P440823	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.097		mg N/L	P440707	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P440687	
	SM 5310 B-2014	Organic Carbon	12		mg C/L	P440631	
2463709	EPA 8321B	2,4-D	0.013		ug/L	P440692	
		Acesulfame K	0.11	I	ug/L	P440425	
		2,4,5-T	0.0040	U	ug/L	P440692	
		AMPA	0.25	I	ug/L	P440425	
		Acetaminophen	0.0080	U	ug/L	P440692	
		Acetamiprid	0.0020	U	ug/L	P440692	
		Endothall	0.25	U	ug/L	P440425	
		Glufosinate	0.10	U	ug/L	P440425	
		Glyphosate	0.63		ug/L	P440425	
		Afidopyropen	0.0020	U	ug/L	P440692	
		Bentazon	0.026		ug/L	P440692	
		Sucralose	0.54		ug/L	P440425	
		Benzovindiflupyr	0.0020	U	ug/L	P440692	
		Carbamazepine	0.0028	I	ug/L	P440692	
		Clothianidin	0.0020	U	ug/L	P440692	
		Dinotefuran	0.0020	U	ug/L	P440692	
		Diuron	0.0024	I	ug/L	P440692	
		Fenuron	0.032	U	ug/L	P440692	
		Fluridone	0.015		ug/L	P440692	
		Imazapyr	0.050		ug/L	P440692	
		Hydrocodone	0.0020	U	ug/L	P440692	
		Ibuprofen	0.080	U	ug/L	P440692	
		Imidacloprid	0.020		ug/L	P440692	
		Linuron	0.0040	U	ug/L	P440692	
		Mandestrobin	0.0020	U	ug/L	P440692	
		MCPP	0.0034	I	ug/L	P440692	
		Naproxen	0.0080	U	ug/L	P440692	
		Primidone	0.0040	U	ug/L	P440692	
		Pyraclostrobin	0.0020	U	ug/L	P440692	
		Silvex	0.0040	U	ug/L	P440692	
		Thiamethoxam	0.0020	U	ug/L	P440692	

Field ID: G5SE0133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463709	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440692	
		Triclopyr	0.0040	U	ug/L	P440692	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 5310 B-2014: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: TURKEY CREEK NEAR BRIAR CREEK BLVD

Collection Date/Time: 01/25/2024 12:30

Field ID: G5SE0146

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463657	DEP SOP: NU-094-1	Color (true)	160		PCU	P440540	
	EPA 180.1 Rev. 2.0	Turbidity	11		NTU	P440548	
	EPA 300.0 Rev. 2.1	Chloride	220		mg Cl/L	P440894	
		Sulfate	29		mg SO4/L	P440897	
	SM 2320 B-2011	Total Alkalinity	99		mg CaCO3/L	P440915	
	SM 2540 C-2015	TDS	596	A	mg/L	P440999	
	SM 2540 D-2015	TSS	28	A	mg/L	P440831	
2463658	SM 4500-F- C-2011	Fluoride	0.17		mg F/L	P440920	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.029		mg N/L	P441066	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P440823	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P440707	
	EPA 365.1 Rev. 2.0	Total-P	0.054		mg P/L	P440687	
2463710	SM 5310 B-2014	Organic Carbon	21		mg C/L	P440631	
	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	0.10	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	0.19	I	ug/L	P440425	
		Afidopyropen	0.0020	U	ug/L	P440426	
		Bentazon	0.012		ug/L	P440426	
		Sucralose	0.29		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	0.017		ug/L	P440426	
		Hydrocodone	0.0020	U	ug/L	P440426	
		Ibuprofen	0.080	U	ug/L	P440426	
		Imidacloprid	0.0060	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: G5SE0146

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463710	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440426	
		Triclopyr	0.0040	U	ug/L	P440426	

Ref. Method and Comment:
SM 5310 B-2014: Batch matrix spike recoveries are unavailable because of high 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: LITTLE TURKEY CREEK NEAR FALLON BLVD Collection Date/Time: 01/25/2024 13:05

Field ID: G5SE0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463669	DEP SOP: NU-094-1	Color (true)	110		PCU	P440540	
	EPA 180.1 Rev. 2.0	Turbidity	7.8		NTU	P440549	
	EPA 300.0 Rev. 2.1	Chloride	110		mg Cl/L	P440894	
		Sulfate	23		mg SO4/L	P440897	
	SM 2320 B-2011	Total Alkalinity	137		mg CaCO3/L	P440916	
	SM 2540 C-2015	TDS	405		mg/L	P440999	
	SM 2540 D-2015	TSS	8	I	mg/L	P440831	
2463670	SM 4500-F- C-2011	Fluoride	0.13		mg F/L	P440921	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P441067	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.94		mg N/L	P440823	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P440707	
	EPA 365.1 Rev. 2.0	Total-P	0.067		mg P/L	P440688	
2463716	SM 5310 B-2014	Organic Carbon	18		mg C/L	P440632	
	EPA 8321B	2,4-D	0.55		ug/L	P440597	
		Acesulfame K	0.34	I	ug/L	P440425	
		2,4,5-T	0.0040	U	ug/L	P440597	
		AMPA	0.36	I	ug/L	P440425	
		Acetaminophen	0.0080	U	ug/L	P440597	
		Acetamiprid	0.0020	U	ug/L	P440597	
		Endothall	0.25	U	ug/L	P440425	
		Glufosinate	0.10	U	ug/L	P440425	
		Glyphosate	2.3		ug/L	P440425	
		Afidopyropen	0.0020	U	ug/L	P440597	RPD
		Sucralose	1.5		ug/L	P440425	
		Bentazon	0.015		ug/L	P440597	MS
		Benzovindiflupyr	0.0020	U	ug/L	P440597	
		Carbamazepine	0.0084		ug/L	P440597	
		Clothianidin	0.0020	U	ug/L	P440597	
		Dinotefuran	0.0041	I	ug/L	P440597	
		Diuron	0.0020	U	ug/L	P440597	
		Fenuron	0.032	U	ug/L	P440597	
		Fluridone	0.0029	I	ug/L	P440597	
		Imazapyr	0.095		ug/L	P440597	
		Hydrocodone	0.0020	U	ug/L	P440597	
		Ibuprofen	0.080	U	ug/L	P440597	
		Imidacloprid	0.0047	I	ug/L	P440597	
		Linuron	0.0040	U	ug/L	P440597	
		Mandestrobin	0.0020	U	ug/L	P440597	
		MCPP	0.0020	U	ug/L	P440597	
		Naproxen	0.0080	U	ug/L	P440597	
		Primidone	0.0040	U	ug/L	P440597	
		Pyraclostrobin	0.0020	U	ug/L	P440597	
		Silvex	0.0064	I	ug/L	P440597	
		Thiamethoxam	0.0020	U	ug/L	P440597	

Field ID: G5SE0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2463716	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P440597	
		Triclopyr	0.0040	U	ug/L	P440597	

Ref. Method and Comment:
EPA 8321B: MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P440540

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P440543

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440548

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440549

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440894

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440897

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441066

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441067

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440823

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440707

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440687

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440688

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P440426

Component	Result	Code	Units
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: P440597

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P440692

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P440692

Component	Result	Code	Units
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: P440915

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

Reference Method: SM 2320 B-2011
Batch ID: P440916

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

Reference Method: SM 2540 C-2015
Batch ID: P440998

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P440999

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P440829

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P440831

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P440920

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P440921

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P440631

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

Reference Method: SM 5310 B-2014
Batch ID: P440632

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: P440540

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P440543

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440548

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440549

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440894

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440897

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441066

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441067

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440823

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440707

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440687

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: P440688

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

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
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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P440426

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Silvex	92.1		P	40 - 150
Thiamethoxam	108		P	40 - 150
Tolfenpyrad	61.8		P	30 - 150
Triclopyr	116		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440597

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	94.2		P	40 - 150
2,4,5-T	98.2		P	40 - 150
Acetaminophen	87.7		P	30 - 150
Acetamiprid	76.9		P	40 - 150
Afidopyropen	65.7		P	30 - 150
Bentazon	82.8		P	30 - 150
Benzovindiflupyr	78.3		P	40 - 150
Carbamazepine	82.7		P	40 - 150
Clothianidin	87.9		P	40 - 150
Dinotefuran	93.9		P	40 - 150
Diuron	84.2		P	40 - 150
Fenuron	89.7		P	40 - 150
Fluridone	81.8		P	40 - 150
Hydrocodone	91.5		P	40 - 150
Ibuprofen	87.2		P	40 - 150
Imazapyr	88.5		P	40 - 150
Imidacloprid	84.6		P	40 - 150
Linuron	77.6		P	40 - 150
Mandestrobin	88.1		P	40 - 150
MCPP	84.4		P	40 - 150
Naproxen	69.2		P	40 - 150
Primidone	82.4		P	40 - 150
Pyraclostrobin	82.7		P	40 - 150
Silvex	85.9		P	40 - 150
Thiamethoxam	92.9		P	40 - 150
Tolfenpyrad	47.2		P	30 - 150
Triclopyr	107		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440692

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	93.9		P	40 - 150
2,4,5-T	103		P	40 - 150
Acetaminophen	86.4		P	30 - 150
Acetamiprid	84.1		P	40 - 150
Afidopyropen	68.1		P	30 - 150
Bentazon	81.9		P	30 - 150
Benzovindiflupyr	81.9		P	40 - 150
Carbamazepine	84.7		P	40 - 150
Clothianidin	91.9		P	40 - 150
Dinotefuran	100		P	40 - 150
Diuron	77.7		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P440692

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fenuron	93.3		P	40 - 150
Fluridone	90.3		P	40 - 150
Hydrocodone	101		P	40 - 150
Ibuprofen	70.8		P	40 - 150
Imazapyr	86.6		P	40 - 150
Imidacloprid	89.6		P	40 - 150
Linuron	77.8		P	40 - 150
Mandestrobin	88.7		P	40 - 150
MCPP	83.4		P	40 - 150
Naproxen	70.5		P	40 - 150
Primidone	88.0		P	40 - 150
Pyraclostrobin	87.5		P	40 - 150
Silvex	82.1		P	40 - 150
Thiamethoxam	97.9		P	40 - 150
Tolfenpyrad	56.4		P	30 - 150
Triclopyr	112		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P440915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P440916

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	94.3		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P440998

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	93.2		P	85 - 115

Reference Method: SM 2540 C-2015
Batch ID: P440999

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

Reference Method: SM 2540 D-2015
Batch ID: P440829

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.4		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P440831

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.8		P	85 - 115

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P440920

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

Reference Method: SM 4500-F- C-2011
Batch ID: P440921

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P440631

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.8		P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P440632

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440894

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463628	Chloride	100		P	90 - 110
2463671	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440897

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463628	Sulfate	98.5		P	90 - 110
2463671	Sulfate	99.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463593	Ammonia-N	98.6	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441067

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463662	Ammonia-N	95.4	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440823

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463670	Kjeldahl Nitrogen	104	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463599	NO2NO3-N	93.4	94.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463656	Total-P	105	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440688

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463727	Total-P	106	107	P/P	90 - 110

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P440425

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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
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: EPA 8321B
Batch ID: P440597

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463712	2,4-D	98.6	90.1	P/P	40 - 150
2463712	2,4,5-T	84.0	83.3	P/P	40 - 150
2463712	Acetaminophen	94.7	96.2	P/P	30 - 150
2463712	Acetamiprid	69.9	76.6	P/P	40 - 150
2463712	Afidopyropen	31.3	59.0	P/P	30 - 150
2463712	Bentazon	35.3	23.8	P/F	30 - 150
2463712	Benzovindiflupyr	85.3	86.6	P/P	40 - 150
2463712	Carbamazepine	76.3	80.3	P/P	40 - 150
2463712	Clothianidin	92.6	93.7	P/P	40 - 150
2463712	Dinotefuran	99.6	105	P/P	40 - 150
2463712	Diuron	79.8	78.4	P/P	40 - 150
2463712	Fenuron	84.1	84.7	P/P	40 - 150
2463712	Fluridone	84.3	79.1	P/P	40 - 150
2463712	Hydrocodone	89.6	86.1	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P440597

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463712	Ibuprofen	67.5	74.4	P/P	40 - 150
2463712	Imidacloprid	115	116	P/P	40 - 150
2463712	Linuron	73.7	70.2	P/P	40 - 150
2463712	Mandestrobin	89.9	91.0	P/P	40 - 150
2463712	MCP	77.8	77.5	P/P	40 - 150
2463712	Naproxen	95.1	94.3	P/P	40 - 150
2463712	Primidone	99.2	92.1	P/P	40 - 150
2463712	Pyraclostrobin	83.2	84.7	P/P	40 - 150
2463712	Silvex	73.8	81.5	P/P	40 - 150
2463712	Thiamethoxam	105	105	P/P	40 - 150
2463712	Tolfenpyrad	60.0	53.6	P/P	30 - 150
2463712	Triclopyr	86.2	83.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P440692

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463994	2,4-D	93.5	106	P/P	40 - 150
2463994	2,4,5-T	89.0	103	P/P	40 - 150
2463994	Acetaminophen	99.9	103	P/P	30 - 150
2463994	Acetamiprid	84.9	88.7	P/P	40 - 150
2463994	Afidopyrophen	77.2	60.6	P/P	30 - 150
2463994	Bentazon	42.0	44.8	P/P	30 - 150
2463994	Benzovindiflupyr	93.9	95.3	P/P	40 - 150
2463994	Carbamazepine	91.1	91.6	P/P	40 - 150
2463994	Clothianidin	109	110	P/P	40 - 150
2463994	Dinotefuran	116	118	P/P	40 - 150
2463994	Diuron	84.3	78.9	P/P	40 - 150
2463994	Fenuron	88.8	90.6	P/P	40 - 150
2463994	Fluridone	90.7	92.8	P/P	40 - 150
2463994	Hydrocodone	103	107	P/P	40 - 150
2463994	Ibuprofen	85.9	82.4	P/P	40 - 150
2463994	Imazapyr	107	110	P/P	40 - 150
2463994	Imidacloprid	126	128	P/P	40 - 150
2463994	Linuron	89.6	83.5	P/P	40 - 150
2463994	Mandestrobin	101	104	P/P	40 - 150
2463994	MCP	90.1	91.6	P/P	40 - 150
2463994	Naproxen	78.2	67.1	P/P	40 - 150
2463994	Primidone	100	105	P/P	40 - 150
2463994	Pyraclostrobin	96.0	95.9	P/P	40 - 150
2463994	Silvex	85.3	92.8	P/P	40 - 150
2463994	Thiamethoxam	116	120	P/P	40 - 150
2463994	Tolfenpyrad	58.9	65.7	P/P	30 - 150
2463994	Triclopyr	95.7	103	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P440920

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463672	Fluoride	99.5	100	P/P	94 - 106

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P440921

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2464008	Fluoride	99.7	99.7	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P440632

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2463660	Organic Carbon	98.8	99.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P440540

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463672	Color (true)	1.23	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P440543

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463559	Color (true)	1.82	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463519	Turbidity	18.8	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P440549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463665	Turbidity	10.5	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463628	Chloride	0.335	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P440897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463628	Sulfate	0.472	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463593	Ammonia-N	0.317	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441067

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463662	Ammonia-N	1.66	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P440823

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463670	Kjeldahl Nitrogen	2.33	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P440707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463599	NO2NO3-N	1.02	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463656	Total-P	1.62	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P440688

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463727	Total-P	0.632	Spike	P	0 - 20

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

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P440426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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: EPA 8321B
Batch ID: P440597

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463712	2,4-D	9.03	Spike	P	0 - 30
2463712	2,4,5-T	0.823	Spike	P	0 - 30
2463712	Acetaminophen	1.62	Spike	P	0 - 30
2463712	Acetamiprid	9.19	Spike	P	0 - 30
2463712	Afidopyropen	61.3	Spike	F	0 - 30
2463712	Bentazon	9.56	Spike	P	0 - 30
2463712	Benzovindiflupyr	1.45	Spike	P	0 - 30
2463712	Carbamazepine	5.11	Spike	P	0 - 30
2463712	Clothianidin	1.09	Spike	P	0 - 30
2463712	Dinotefuran	5.66	Spike	P	0 - 30
2463712	Diuron	1.46	Spike	P	0 - 30
2463712	Fenuron	0.683	Spike	P	0 - 30
2463712	Fluridone	5.40	Spike	P	0 - 30
2463712	Hydrocodone	4.02	Spike	P	0 - 30
2463712	Ibuprofen	9.75	Spike	P	0 - 30
2463712	Imazapyr	4.11	Spike	P	0 - 30
2463712	Imidacloprid	0.257	Spike	P	0 - 30
2463712	Linuron	4.80	Spike	P	0 - 30
2463712	Mandestrobin	1.19	Spike	P	0 - 30
2463712	MCPP	0.325	Spike	P	0 - 30
2463712	Naproxen	0.742	Spike	P	0 - 30
2463712	Primidone	7.42	Spike	P	0 - 30
2463712	Pyraclostrobin	1.77	Spike	P	0 - 30
2463712	Silvex	9.94	Spike	P	0 - 30
2463712	Thiamethoxam	0.314	Spike	P	0 - 30
2463712	Tolfenpyrad	11.1	Spike	P	0 - 30
2463712	Triclopyr	2.78	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P440692

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463994	2,4-D	12.1	Spike	P	0 - 30
2463994	2,4,5-T	14.7	Spike	P	0 - 30
2463994	Acetaminophen	3.07	Spike	P	0 - 30
2463994	Acetamiprid	4.38	Spike	P	0 - 30
2463994	Afidopyropen	24.0	Spike	P	0 - 30
2463994	Bentazon	6.35	Spike	P	0 - 30
2463994	Benzovindiflupyr	1.52	Spike	P	0 - 30
2463994	Carbamazepine	0.521	Spike	P	0 - 30
2463994	Clothianidin	1.23	Spike	P	0 - 30
2463994	Dinotefuran	1.37	Spike	P	0 - 30
2463994	Diuron	6.65	Spike	P	0 - 30
2463994	Fenuron	1.96	Spike	P	0 - 30
2463994	Fluridone	2.28	Spike	P	0 - 30
2463994	Hydrocodone	4.39	Spike	P	0 - 30
2463994	Ibuprofen	4.14	Spike	P	0 - 30
2463994	Imazapyr	2.06	Spike	P	0 - 30
2463994	Imidacloprid	2.00	Spike	P	0 - 30
2463994	Linuron	7.11	Spike	P	0 - 30
2463994	Mandestrobin	2.81	Spike	P	0 - 30
2463994	MCPP	1.61	Spike	P	0 - 30
2463994	Naproxen	15.3	Spike	P	0 - 30
2463994	Primidone	5.09	Spike	P	0 - 30
2463994	Pyraclostrobin	0.0905	Spike	P	0 - 30
2463994	Silvex	8.48	Spike	P	0 - 30
2463994	Thiamethoxam	2.78	Spike	P	0 - 30
2463994	Tolfenpyrad	10.9	Spike	P	0 - 30
2463994	Triclopyr	6.91	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P440915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463672	Total Alkalinity	0.302	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P440916

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464008	Total Alkalinity	1.73	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P440998

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463397	TDS	10.2	Sample	F	0 - 10

Quality Assurance Report
Precision

Reference Method: SM 2540 C-2015
Batch ID: P440999

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463657	TDS	5.87	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P440831

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463657	TSS	4.26	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P440920

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463672	Fluoride	0.473	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P440921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2464008	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P440631

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463594	Organic Carbon	1.02	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P440632

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2463660	Organic Carbon	0.830	Spike	P	0 - 15

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

Quality Assurance Report

Surrogates

Lab Sample ID: 2463709

Field Sample ID: G5SE0133

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	82.8	P	30 - 160
EPA 8321B	2,4-D-d3	86.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	92.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	76.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	81.3	P	30 - 160
EPA 8321B	Diuron-d6	72.4	P	30 - 160
EPA 8321B	Diuron-d6	61.1	P	30 - 160
EPA 8321B	Endothall-d6	98.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	95.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	55.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	65.7	P	30 - 160
EPA 8321B	Primidone-d5	83.5	P	30 - 160
EPA 8321B	Primidone-d5	88.0	P	30 - 160
EPA 8321B	Sucralose-d6	79.7	P	30 - 160

Lab Sample ID: 2463710

Field Sample ID: G5SE0146

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	64.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	69.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	70.4	P	30 - 160
EPA 8321B	Diuron-d6	53.0	P	30 - 160
EPA 8321B	Endothall-d6	97.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	53.0	P	30 - 160
EPA 8321B	Primidone-d5	66.9	P	30 - 160
EPA 8321B	Sucralose-d6	82.8	P	30 - 160

Lab Sample ID: 2463711

Field Sample ID: G5SE0131

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	76.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	75.5	P	30 - 160
EPA 8321B	Diuron-d6	63.1	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	95.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	54.5	P	30 - 160
EPA 8321B	Primidone-d5	87.6	P	30 - 160
EPA 8321B	Sucralose-d6	104	P	30 - 160

Lab Sample ID: 2463712

Field Sample ID: G5SE0134

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	88.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	80.0	P	30 - 160
EPA 8321B	Diuron-d6	72.7	P	30 - 160

Quality Assurance Report

Surrogates

Lab Sample ID: 2463712

Field Sample ID: G5SE0134

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Endothall-d6	103	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	98.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.8	P	30 - 160
EPA 8321B	Primidone-d5	88.1	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2463713

Field Sample ID: G5SE0135

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	81.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	88.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	70.8	P	30 - 160
EPA 8321B	Diuron-d6	60.8	P	30 - 160
EPA 8321B	Endothall-d6	110	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	91.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.2	P	30 - 160
EPA 8321B	Primidone-d5	83.3	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2463714

Field Sample ID: G5SE0132

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	91.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	79.7	P	30 - 160
EPA 8321B	Diuron-d6	69.3	P	30 - 160
EPA 8321B	Endothall-d6	96.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	76.4	P	30 - 160
EPA 8321B	Primidone-d5	88.5	P	30 - 160
EPA 8321B	Sucralose-d6	99.8	P	30 - 160

Lab Sample ID: 2463715

Field Sample ID: G5SE0136

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	88.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	83.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	74.8	P	30 - 160
EPA 8321B	Diuron-d6	61.3	P	30 - 160
EPA 8321B	Endothall-d6	99.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.2	P	30 - 160
EPA 8321B	Primidone-d5	85.1	P	30 - 160
EPA 8321B	Sucralose-d6	80.7	P	30 - 160

Lab Sample ID: 2463716

Field Sample ID: G5SE0150

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
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Quality Assurance Report
Surrogates

Lab Sample ID: 2463716
Field Sample ID: G5SE0150

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	89.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	90.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	73.3	P	30 - 160
EPA 8321B	Diuron-d6	64.3	P	30 - 160
EPA 8321B	Endothall-d6	98.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.6	P	30 - 160
EPA 8321B	Primidone-d5	88.8	P	30 - 160
EPA 8321B	Sucralose-d6	112	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A123860

Included Lab Sample IDs: 2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	99.8	P/P	90 - 110
Color (true)	100	100	P/P	90 - 110
Color (true)	99.2	99.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A123862

Included Lab Sample IDs: 2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669

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

Reference Method: EPA 8321B

Run ID: A123867

Included Lab Sample IDs: 2463709, 2463710, 2463711, 2463712, 2463713, 2463714, 2463715, 2463716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	125	126	P/P	60 - 160
Acesulfame K	126	137	P/P	60 - 160
Sucralose	102	98.4	P/P	60 - 160
Sucralose	88.7	102	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A123868

Included Lab Sample IDs: 2463709, 2463710, 2463711, 2463712, 2463713, 2463714, 2463715, 2463716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	96.5	92.2	P/P	60 - 160
AMPA	96.8	96.5	P/P	60 - 160
Endothall	90.9	90.4	P/P	60 - 160
Endothall	94.6	90.9	P/P	60 - 160
Glufosinate	100	95.3	P/P	60 - 160
Glufosinate	98.1	100	P/P	60 - 160
Glyphosate	101	97.9	P/P	60 - 160
Glyphosate	102	101	P/P	60 - 160

Reference Method: SM 5310 B-2014

Run ID: A123895

Included Lab Sample IDs: 2463656, 2463658, 2463660, 2463662, 2463664, 2463666, 2463668, 2463670

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	111	96.9	P/P	70 - 130
Organic Carbon	96.9	94.1	P/P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A123908

Included Lab Sample IDs: 2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.3	99.8	P/P	90 - 110
Sulfate	98.4	98.9	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A123917

Included Lab Sample IDs: 2463656, 2463658, 2463660, 2463662, 2463664, 2463666, 2463668, 2463670

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A123947

Included Lab Sample IDs: 2463710, 2463711

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	118	97.5	P/P	50 - 150
2,4,5-T	76.5	79.8	P/P	50 - 150
Acetaminophen	108	106	P/P	60 - 160
Acetamiprid	114	114	P/P	50 - 150
Afidopyropen	107	129	P/P	50 - 150
Bentazon	100	93.1	P/P	50 - 160
Benzovindiflupyr	109	110	P/P	50 - 150
Carbamazepine	109	115	P/P	60 - 150
Clothianidin	109	109	P/P	60 - 150
Dinotefuran	117	115	P/P	50 - 150
Diuron	109	113	P/P	60 - 160
Fenuron	109	110	P/P	60 - 150
Fluridone	124	115	P/P	60 - 160
Hydrocodone	126	123	P/P	60 - 150
Ibuprofen	104	82.3	P/P	50 - 160
Imazapyr	77.5	76.7	P/P	50 - 150
Imidacloprid	101	101	P/P	60 - 150
Linuron	103	94.4	P/P	60 - 150
Mandestrobin	115	115	P/P	50 - 150
MCPP	86.5	88.0	P/P	50 - 150
Naproxen	66.4	95.7	P/P	50 - 160
Primidone	99.6	105	P/P	60 - 150
Pyraclostrobin	112	112	P/P	60 - 150
Silvex	79.5	84.8	P/P	50 - 150
Thiamethoxam	114	125	P/P	50 - 150
Tolfenpyrad	108	105	P/P	60 - 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: 2463656, 2463658, 2463660, 2463664, 2463668, 2463670

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	97.8	P/P	90 - 110
Total-P	97.8	99.4	P/P	90 - 110
Total-P	99.4	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A123957

Included Lab Sample IDs: 2463662, 2463666

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.8	P/P	90 - 110
Total-P	99.0	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A123970

Included Lab Sample IDs: 2463709, 2463712, 2463713, 2463714, 2463715, 2463716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	104	110	P/P	50 - 150
2,4-D	107	101	P/P	50 - 150
2,4-D	109	104	P/P	50 - 150
2,4,5-T	101	117	P/P	50 - 150
2,4,5-T	107	90.0	P/P	50 - 150
2,4,5-T	117	101	P/P	50 - 150
Acetaminophen	112	115	P/P	60 - 160
Acetaminophen	113	112	P/P	60 - 160
Acetaminophen	118	117	P/P	60 - 160
Acetamiprid	105	110	P/P	50 - 150
Acetamiprid	109	113	P/P	50 - 150
Acetamiprid	110	112	P/P	50 - 150
Afidopyropen	101	93.6	P/P	50 - 150
Afidopyropen	106	102	P/P	50 - 150
Afidopyropen	106	101	P/P	50 - 150
Bentazon	103	104	P/P	50 - 160
Bentazon	106	103	P/P	50 - 160
Bentazon	96.4	91.2	P/P	50 - 160
Benzovindiflupyr	101	102	P/P	50 - 150
Benzovindiflupyr	102	99.3	P/P	50 - 150
Benzovindiflupyr	108	109	P/P	50 - 150
Carbamazepine	109	115	P/P	60 - 150
Carbamazepine	111	111	P/P	60 - 150
Carbamazepine	111	111	P/P	60 - 150
Clothianidin	105	106	P/P	60 - 150
Clothianidin	106	110	P/P	60 - 150
Clothianidin	112	106	P/P	60 - 150
Dinotefuran	109	113	P/P	50 - 150
Dinotefuran	110	111	P/P	50 - 150
Dinotefuran	111	112	P/P	50 - 150
Diuron	112	118	P/P	60 - 160
Diuron	116	106	P/P	60 - 160
Diuron	118	112	P/P	60 - 160
Fenuron	107	108	P/P	60 - 150
Fenuron	108	107	P/P	60 - 150
Fenuron	110	111	P/P	60 - 150
Fluridone	108	113	P/P	60 - 160
Fluridone	112	119	P/P	60 - 160
Fluridone	113	107	P/P	60 - 160
Hydrocodone	112	116	P/P	60 - 150
Hydrocodone	115	112	P/P	60 - 150
Hydrocodone	127	119	P/P	60 - 150
Ibuprofen	121	84.7	P/P	50 - 160
Ibuprofen	92.2	121	P/P	50 - 160
Ibuprofen	98.7	61.9	P/P	50 - 160
Imazapyr	86.3	98.1	P/P	50 - 150
Imazapyr	93.8	94.8	P/P	50 - 150
Imazapyr	99.7	93.8	P/P	50 - 150
Imidacloprid	105	111	P/P	60 - 150
Imidacloprid	96.2	101	P/P	60 - 150
Imidacloprid	98.5	96.2	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A123970

Included Lab Sample IDs: 2463709, 2463712, 2463713, 2463714, 2463715, 2463716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Linuron	104	98.5	P/P	60 - 150
Linuron	111	105	P/P	60 - 150
Linuron	98.5	102	P/P	60 - 150
Mandestrobin	105	111	P/P	50 - 150
Mandestrobin	111	110	P/P	50 - 150
Mandestrobin	111	112	P/P	50 - 150
MCP	102	98.8	P/P	50 - 150
MCP	104	102	P/P	50 - 150
MCP	97.1	85.7	P/P	50 - 150
Naproxen	107	130	P/P	50 - 160
Naproxen	117	81.2	P/P	50 - 160
Naproxen	130	102	P/P	50 - 160
Primidone	103	98.2	P/P	60 - 150
Primidone	104	99.0	P/P	60 - 150
Primidone	99.5	103	P/P	60 - 150
Pyraclostrobin	108	107	P/P	60 - 150
Pyraclostrobin	112	108	P/P	60 - 150
Pyraclostrobin	114	111	P/P	60 - 150
Silvex	103	99.3	P/P	50 - 150
Silvex	86.2	88.3	P/P	50 - 150
Silvex	99.3	92.3	P/P	50 - 150
Thiamethoxam	108	114	P/P	50 - 150
Thiamethoxam	114	110	P/P	50 - 150
Thiamethoxam	120	122	P/P	50 - 150
Tolfenpyrad	100	101	P/P	60 - 150
Tolfenpyrad	102	106	P/P	60 - 150
Tolfenpyrad	94.6	100	P/P	60 - 150
Triclopyr	110	97.7	P/P	50 - 150
Triclopyr	111	112	P/P	50 - 150
Triclopyr	112	103	P/P	50 - 150

Reference Method: SM 2320 B-2011

Run ID: A123988

Included Lab Sample IDs: 2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.9	97.7	P/P	90 - 110
Total Alkalinity	97.5	94.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A123988

Included Lab Sample IDs: 2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A124004
Included Lab Sample IDs: 2463656, 2463658, 2463660, 2463662, 2463664, 2463666, 2463668, 2463670

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.1	95.3	P/P	90 - 110
Kjeldahl Nitrogen	93.9	93.1	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A124045
Included Lab Sample IDs: 2463656, 2463658, 2463660, 2463662, 2463664, 2463666, 2463668, 2463670

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.9	98.0	P/P	90 - 110
Ammonia-N	98.6	97.9	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		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	99.7				1.23	
	Color (true)	99.2				1.82	
EPA 180.1 Rev. 2.0	Turbidity	104				18.8	
	Turbidity	104				10.5	
EPA 300.0 Rev. 2.1	Chloride	101	100	101		0.335	
	Sulfate	100	98.5	99.4		0.472	
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	98.6	98.0			0.317
	Ammonia-N	96.8	95.4	97.4			1.66
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103	104	101			2.33
EPA 353.2 Rev. 2.0	NO2NO3-N	101	93.4	94.4			1.02
EPA 365.1 Rev. 2.0	Total-P	102	105	103			1.62
	Total-P	101	106	107			0.632
EPA 8321B	2,4-D	123					7.56
	2,4-D	94.2	98.6	90.1			9.03
	2,4-D	93.9	93.5	106			12.1
	2,4,5-T	105	91.9	84.9			7.93
	2,4,5-T	98.2	84.0	83.3			0.823
	2,4,5-T	103	89.0	103			14.7
	Acesulfame K	102	130	141			8.00
	Acetaminophen	92.3					23.5
	Acetaminophen	87.7	94.7	96.2			1.62
	Acetaminophen	86.4	99.9	103			3.07
	Acetamiprid	95.2	96.3	98.7			2.41
	Acetamiprid	76.9	69.9	76.6			9.19
	Acetamiprid	84.1	84.9	88.7			4.38
	Afidopyropen	75.3	94.4	97.6			3.33
	Afidopyropen	65.7	31.3	59.0			61.3
	Afidopyropen	68.1	77.2	60.6			24.0
	AMPA	98.6	94.3	94.9			0.637
	Bentazon	96.0					25.4
	Bentazon	82.8	35.3	23.8			9.56
	Bentazon	81.9	42.0	44.8			6.35
	Benzovindiflupyr	92.6	91.4	106			14.4
	Benzovindiflupyr	78.3	85.3	86.6			1.45
	Benzovindiflupyr	81.9	93.9	95.3			1.52
	Carbamazepine	87.5	87.7	93.5			6.42
	Carbamazepine	82.7	76.3	80.3			5.11
	Carbamazepine	84.7	91.1	91.6			0.521
	Clothianidin	99.1	119	111			6.74
	Clothianidin	87.9	92.6	93.7			1.09
	Clothianidin	91.9	109	110			1.23
	Dinotefuran	108	123	111			9.81
	Dinotefuran	93.9	99.6	105			5.66
	Dinotefuran	100	116	118			1.37
	Diuron	86.0	83.3	84.7			1.70
	Diuron	84.2	79.8	78.4			1.46
	Diuron	77.7	84.3	78.9			6.65
	Endothall	89.9	98.6	100			1.93
	Fenuron	100	91.6	91.8			0.218
	Fenuron	89.7	84.1	84.7			0.683
	Fenuron	93.3	88.8	90.6			1.96
	Fluridone	96.7	90.7	98.5			8.18
	Fluridone	81.8	84.3	79.1			5.40
	Fluridone	90.3	90.7	92.8			2.28

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Glufosinate	94.0	99.6	100			0.579
	Glyphosate	101	102	104			2.01
	Hydrocodone	115	116	98.6			16.3
	Hydrocodone	91.5	89.6	86.1			4.02
	Hydrocodone	101	103	107			4.39
	Ibuprofen	79.1	81.1	74.2			8.87
	Ibuprofen	87.2	67.5	74.4			9.75
	Ibuprofen	70.8	85.9	82.4			4.14
	Imazapyr	97.1	99.2	109			6.61
	Imazapyr	88.5					4.11
	Imazapyr	86.6	107	110			2.06
	Imidacloprid	97.0	133	127			3.62
	Imidacloprid	84.6	115	116			0.257
	Imidacloprid	89.6	126	128			2.00
	Linuron	81.4	84.0	85.1			1.19
	Linuron	77.6	73.7	70.2			4.80
	Linuron	77.8	89.6	83.5			7.11
	Mandestrobin	95.6	99.4	110			10.2
	Mandestrobin	88.1	89.9	91.0			1.19
	Mandestrobin	88.7	101	104			2.81
	MCPP	97.9	91.9	93.9			2.08
	MCPP	84.4	77.8	77.5			0.325
	MCPP	83.4	90.1	91.6			1.61
	Naproxen	72.6	76.2	73.5			2.85
	Naproxen	69.2	95.1	94.3			0.742
	Naproxen	70.5	78.2	67.1			15.3
	Primidone	90.6	106	95.9			9.77
	Primidone	82.4	99.2	92.1			7.42
	Primidone	88.0	100	105			5.09
	Pyraclostrobin	93.9	86.5	99.0			13.5
	Pyraclostrobin	82.7	83.2	84.7			1.77
	Pyraclostrobin	87.5	96.0	95.9			0.0905
	Silvex	92.1	80.9	84.9			4.81
	Silvex	85.9	73.8	81.5			9.94
	Silvex	82.1	85.3	92.8			8.48
	Sucralose	88.4	96.4	105			8.13
	Thiamethoxam	108	118	121			1.88
	Thiamethoxam	92.9	105	105			0.314
	Thiamethoxam	97.9	116	120			2.78
	Tolfenpyrad	61.8	53.1	68.2			25.1
	Tolfenpyrad	47.2	60.0	53.6			11.1
	Tolfenpyrad	56.4	58.9	65.7			10.9
	Triclopyr	116	90.9	89.8			1.27
	Triclopyr	107	86.2	83.9			2.78
	Triclopyr	112	95.7	103			6.91
SM 2320 B-2011	Total Alkalinity	100				0.302	
	Total Alkalinity	94.3				1.73	
SM 2540 C-2015	TDS	93.2				10.2	
	TDS	102				5.87	
SM 2540 D-2015	TSS	94.4					
	TSS	96.8				4.26	
SM 4500-F- C-2011	Fluoride	97.9	99.5	100			0.473
	Fluoride	98.9	99.7	99.7			0.0
SM 5310 B-2014	Organic Carbon	97.8					1.02

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 5310 B-2014	Organic Carbon	98.4	98.8	99.9	SMP	0.830

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2463656, 2463658, 2463660, 2463662, 2463664, 2463666, 2463668, 2463670
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2463656, 2463658, 2463660, 2463662, 2463664, 2463666, 2463668, 2463670
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2463656, 2463658, 2463660, 2463662, 2463664, 2463666, 2463668, 2463670
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2463656, 2463658, 2463660, 2463662, 2463664, 2463666, 2463668, 2463670
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2463709, 2463710, 2463711, 2463712, 2463713, 2463714, 2463715, 2463716
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2463656, 2463658, 2463660, 2463662, 2463664, 2463666, 2463668, 2463670

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	01/26/2024			01/26/2024 15:17	Anna M. Plaviak	2463655
	01/26/2024			01/26/2024 15:19	Anna M. Plaviak	2463659
	01/26/2024			01/26/2024 15:20	Anna M. Plaviak	2463661, 2463665
	01/26/2024			01/26/2024 15:21	Anna M. Plaviak	2463667
	01/26/2024			01/26/2024 15:22	Anna M. Plaviak	2463669
	01/26/2024			01/26/2024 15:44	Anna M. Plaviak	2463663
	01/26/2024			01/26/2024 15:55	Anna M. Plaviak	2463657
EPA 180.1 Rev. 2.0	01/26/2024			01/26/2024 12:27	Dipa Joshi	2463655
	01/26/2024			01/26/2024 12:28	Dipa Joshi	2463657
	01/26/2024			01/26/2024 12:29	Dipa Joshi	2463659
	01/26/2024			01/26/2024 12:31	Dipa Joshi	2463661
	01/26/2024			01/26/2024 12:32	Dipa Joshi	2463663
	01/26/2024			01/26/2024 12:40	Dipa Joshi	2463665
	01/26/2024			01/26/2024 12:42	Dipa Joshi	2463667
EPA 300.0 Rev. 2.1	01/26/2024			01/26/2024 12:43	Dipa Joshi	2463669
	01/26/2024			02/01/2024 02:21	James L Waggeberby	2463655
	01/26/2024			02/01/2024 02:36	James L Waggeberby	2463657
	01/26/2024			02/01/2024 02:52	James L Waggeberby	2463659
	01/26/2024			02/01/2024 03:06	James L Waggeberby	2463661
	01/26/2024			02/01/2024 03:22	James L Waggeberby	2463663
	01/26/2024			02/01/2024 03:37	James L Waggeberby	2463665
EPA 350.1 Rev. 2.0	01/26/2024			02/01/2024 03:52	James L Waggeberby	2463667
	01/26/2024			02/01/2024 04:07	James L Waggeberby	2463669
	01/26/2024			02/07/2024 11:47	Khloe J Berg	2463656
	01/26/2024			02/07/2024 11:48	Khloe J Berg	2463658
	01/26/2024			02/07/2024 12:00	Khloe J Berg	2463662
	01/26/2024			02/07/2024 12:04	Khloe J Berg	2463660
	01/26/2024			02/07/2024 12:05	Khloe J Berg	2463664
EPA 351.2 Rev. 2.0	01/26/2024			02/07/2024 12:07	Khloe J Berg	2463666
	01/26/2024			02/07/2024 12:08	Khloe J Berg	2463668
	01/26/2024			02/07/2024 12:09	Khloe J Berg	2463670
	01/26/2024	02/02/2024 12:31	Ping Hua	02/05/2024 17:46	Samantha L Bates	2463656
	01/26/2024	02/02/2024 12:31	Ping Hua	02/05/2024 17:48	Samantha L Bates	2463658
	01/26/2024	02/02/2024 12:31	Ping Hua	02/05/2024 17:49	Samantha L Bates	2463660
	01/26/2024	02/02/2024 12:31	Ping Hua	02/05/2024 17:51	Samantha L Bates	2463662
EPA 353.2 Rev. 2.0	01/26/2024	02/02/2024 12:31	Ping Hua	02/05/2024 17:52	Samantha L Bates	2463664
	01/26/2024	02/02/2024 12:31	Ping Hua	02/05/2024 17:54	Samantha L Bates	2463666
	01/26/2024	02/02/2024 12:31	Ping Hua	02/05/2024 17:59	Samantha L Bates	2463668
	01/26/2024	02/02/2024 12:31	Ping Hua	02/05/2024 18:01	Samantha L Bates	2463670
	01/26/2024			01/30/2024 12:51	Anna M. Plaviak	2463656

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 353.2 Rev. 2.0	01/26/2024			01/30/2024 12:52	Anna M. Plaviak	2463658
	01/26/2024			01/30/2024 12:53	Anna M. Plaviak	2463660
	01/26/2024			01/30/2024 12:54	Anna M. Plaviak	2463662
	01/26/2024			01/30/2024 12:55	Anna M. Plaviak	2463664
	01/26/2024			01/30/2024 12:56	Anna M. Plaviak	2463666
	01/26/2024			01/30/2024 12:58	Anna M. Plaviak	2463668
	01/26/2024			01/30/2024 12:59	Anna M. Plaviak	2463670
	01/26/2024	01/31/2024 14:45	Adam P Silver	02/01/2024 12:57	Simonne.V. Calhoun	2463656
EPA 365.1 Rev. 2.0	01/26/2024	01/31/2024 14:45	Adam P Silver	02/01/2024 13:05	Simonne.V. Calhoun	2463658
	01/26/2024	01/31/2024 14:45	Adam P Silver	02/01/2024 13:06	Simonne.V. Calhoun	2463660
	01/26/2024	01/31/2024 14:45	Adam P Silver	02/01/2024 13:08	Simonne.V. Calhoun	2463664
	01/26/2024	01/31/2024 14:45	Adam P Silver	02/01/2024 13:17	Simonne.V. Calhoun	2463668
	01/26/2024	01/31/2024 14:45	Adam P Silver	02/01/2024 13:18	Simonne.V. Calhoun	2463670
	01/26/2024	01/31/2024 14:45	Adam P Silver	02/01/2024 14:17	Simonne.V. Calhoun	2463662
	01/26/2024	01/31/2024 14:45	Adam P Silver	02/01/2024 14:25	Simonne.V. Calhoun	2463666
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 17:05	Samatha Luckman	2463709
EPA 8321B	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 17:19	Samatha Luckman	2463710
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 17:32	Samatha Luckman	2463711
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 17:46	Samatha Luckman	2463712
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 18:14	Samatha Luckman	2463713
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 18:27	Samatha Luckman	2463714
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 18:41	Samatha Luckman	2463715
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/26/2024 18:55	Samatha Luckman	2463716
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 11:57	Samatha Luckman	2463709
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 12:11	Samatha Luckman	2463710
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 12:25	Samatha Luckman	2463711
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 12:39	Samatha Luckman	2463712
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 13:07	Samatha Luckman	2463713
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 13:21	Samatha Luckman	2463714
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 13:35	Samatha Luckman	2463715
	01/26/2024	01/26/2024 12:00	Samatha Luckman	01/27/2024 13:49	Samatha Luckman	2463716
	01/26/2024	01/29/2024 08:45	Hoor Shaik	02/01/2024 05:28	Juyoung Kim	2463710
	01/26/2024	01/29/2024 08:45	Hoor Shaik	02/01/2024 05:46	Juyoung Kim	2463711
	01/26/2024	01/31/2024 09:00	Hoor Shaik	02/01/2024 17:52	Juyoung Kim	2463712
	01/26/2024	01/31/2024 09:00	Hoor Shaik	02/01/2024 18:10	Juyoung Kim	2463713
	01/26/2024	01/31/2024 09:00	Hoor Shaik	02/01/2024 18:28	Juyoung Kim	2463714
	01/26/2024	01/31/2024 09:00	Hoor Shaik	02/01/2024 18:45	Juyoung Kim	2463715
	01/26/2024	01/31/2024 09:00	Hoor Shaik	02/01/2024 19:21	Juyoung Kim	2463716
	01/26/2024	02/01/2024 09:00	Hoor Shaik	02/02/2024 13:52	Juyoung Kim	2463709
SM 2320 B-2011	01/26/2024			02/01/2024 21:07	Dale L. Simmons	2463655

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2320 B-2011	01/26/2024			02/01/2024 21:20	Dale L. Simmons	2463657
	01/26/2024			02/01/2024 21:33	Dale L. Simmons	2463659
	01/26/2024			02/01/2024 22:21	Dale L. Simmons	2463661
	01/26/2024			02/01/2024 22:33	Dale L. Simmons	2463663
	01/26/2024			02/01/2024 22:47	Dale L. Simmons	2463665
	01/26/2024			02/02/2024 00:02	Dale L. Simmons	2463667
	01/26/2024			02/02/2024 00:15	Dale L. Simmons	2463669
	01/26/2024			01/30/2024 15:39	Yijie Li	2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669
SM 2540 C-2015	01/26/2024			01/30/2024 15:39	Yijie Li	2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669
SM 2540 D-2015	01/26/2024			01/30/2024 15:39	Yijie Li	2463655, 2463657, 2463659, 2463661, 2463663, 2463665, 2463667, 2463669
SM 4500-F- C-2011	01/26/2024			02/01/2024 21:07	Dale L. Simmons	2463655
	01/26/2024			02/01/2024 21:20	Dale L. Simmons	2463657
	01/26/2024			02/01/2024 21:33	Dale L. Simmons	2463659
	01/26/2024			02/01/2024 22:21	Dale L. Simmons	2463661
	01/26/2024			02/01/2024 22:33	Dale L. Simmons	2463663
	01/26/2024			02/01/2024 22:47	Dale L. Simmons	2463665
	01/26/2024			02/02/2024 00:02	Dale L. Simmons	2463667
	01/26/2024			02/02/2024 00:15	Dale L. Simmons	2463669
SM 5310 B-2014	01/26/2024			01/29/2024 23:37	Khloe J Berg	2463656
	01/26/2024			01/29/2024 23:52	Khloe J Berg	2463658
	01/26/2024			01/30/2024 01:12	Khloe J Berg	2463660
	01/26/2024			01/30/2024 01:58	Khloe J Berg	2463662
	01/26/2024			01/30/2024 02:13	Khloe J Berg	2463664
	01/26/2024			01/30/2024 02:28	Khloe J Berg	2463666
	01/26/2024			01/30/2024 02:43	Khloe J Berg	2463668
	01/26/2024			01/30/2024 02:58	Khloe J Berg	2463670