

Chemical Analysis Report

SE-DIST-2024-06-12-01

Florida DEP Laboratory
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DOH Accreditation E31780

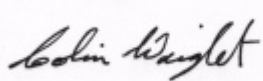
Event Description: **SMP - Goat Creek/Micco**
Request ID: **RQ-2024-05-13-19**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 02-JUL-2024 08:55



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: GOAT CREEK AT GRADICK

Collection Date/Time: 06/11/2024 09:00

Field ID: G5SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493088	DEP SOP: NU-094-1	Color (true)	64		PCU	P446397	
	EPA 180.1 Rev. 2.0	Turbidity	7.0		NTU	P446411	
	EPA 300.0 Rev. 2.1	Chloride	450		mg Cl/L	P446560	
		Sulfate	61		mg SO4/L	P446563	
	SM 2320 B-2011	Total Alkalinity	227		mg CaCO3/L	P446598	
	SM 2540 C-2015	TDS	1.17E+03		mg/L	P446882	RPD
	SM 2540 D-2015	TSS	6	I	mg/L	P446841	
	SM 4500-F- C-2011	Fluoride	0.40		mg F/L	P446601	RPD
2493089	EPA 350.1 Rev. 2.0	Ammonia-N	0.034		mg N/L	P446755	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.73		mg N/L	P446616	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.18		mg N/L	P446477	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P446444	
	SM 5310 B-2014	Organic Carbon	14		mg C/L	P446792	
2493121	EPA 8321B	2,4-D	0.0020	U	ug/L	P446387	
		Acesulfame K	0.27	I	ug/L	P446270	
		2,4,5-T	0.0040	U	ug/L	P446387	
		AMPA	0.67		ug/L	P446270	
		Acetaminophen	0.0080	U	ug/L	P446387	
		Acetamiprid	0.0020	U	ug/L	P446387	
		Endothall	0.25	U	ug/L	P446270	
		Glufosinate	0.10	U	ug/L	P446270	
		Glyphosate	3.1		ug/L	P446270	
		Afidopyropen	0.0020	U	ug/L	P446387	
		Bentazon	9.4E-04	I	ug/L	P446387	
		Sucralose	0.19		ug/L	P446270	
		Benzovindiflupyr	0.0020	U	ug/L	P446387	
		Carbamazepine	0.0024	I	ug/L	P446387	
		Clothianidin	0.0020	U	ug/L	P446387	
		Dinotefuran	0.0020	U	ug/L	P446387	
		Diuron	0.0020	U	ug/L	P446387	
		Fenuron	0.032	U	ug/L	P446387	
		Fluridone	4.0E-04	U	ug/L	P446387	
		Imazapyr	0.50		ug/L	P446387	
		Hydrocodone	0.0020	U	ug/L	P446387	
		Ibuprofen	0.080	U	ug/L	P446387	
		Imidacloprid	0.0020	U	ug/L	P446387	
		Linuron	0.0020	U	ug/L	P446387	
		Mandestrobin	0.0020	U	ug/L	P446387	
		MCP	0.0020	U	ug/L	P446387	
		Naproxen	0.0080	U	ug/L	P446387	
		Primidone	0.0040	U	ug/L	P446387	
		Pyraclostrobin	0.0020	U	ug/L	P446387	
		Silvex	0.0040	U	ug/L	P446387	
		Thiamethoxam	0.0020	U	ug/L	P446387	

Field ID: G5SE0080

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493121	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P446387	RPD
		Triclopyr	0.0040	U	ug/L	P446387	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: FB

Collection Date/Time: 06/11/2024 09:15

Field ID: FB_06112024

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493100	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P446398	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P446411	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P446560	
		Sulfate	0.20	U	mg SO4/L	P446563	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P446598	
	SM 2540 C-2015	TDS	15	U	mg/L	P446882	RPD
	SM 2540 D-2015	TSS	2	U	mg/L	P446841	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P446601	RPD
2493101	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P446755	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P446617	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P446478	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P446446	
	SM 5310 B-2014	Organic Carbon	0.50	U	mg C/L	P446792	
2493127	EPA 8321B	2,4-D	0.0020	U	ug/L	P446387	
		Acesulfame K	0.10	U	ug/L	P446270	
		2,4,5-T	0.0040	U	ug/L	P446387	
		AMPA	0.10	U	ug/L	P446270	
		Acetaminophen	0.0080	U	ug/L	P446387	
		Acetamiprid	0.0020	U	ug/L	P446387	
		Endothall	0.25	U	ug/L	P446270	
		Glufosinate	0.10	U	ug/L	P446270	
		Glyphosate	0.10	U	ug/L	P446270	
		Afidopyropen	0.0020	U	ug/L	P446387	
		Bentazon	8.0E-04	U	ug/L	P446387	
		Sucralose	0.010	U	ug/L	P446270	
		Benzovindiflupyr	0.0020	U	ug/L	P446387	
		Carbamazepine	8.0E-04	U	ug/L	P446387	
		Clothianidin	0.0020	U	ug/L	P446387	
		Dinotefuran	0.0020	U	ug/L	P446387	
		Diuron	0.0020	U	ug/L	P446387	
		Fenuron	0.032	U	ug/L	P446387	
		Fluridone	4.0E-04	U	ug/L	P446387	
		Imazapyr	0.0040	U	ug/L	P446387	
		Hydrocodone	0.0020	U	ug/L	P446387	
		Ibuprofen	0.080	U	ug/L	P446387	
		Imidacloprid	0.0020	U	ug/L	P446387	
		Linuron	0.0020	U	ug/L	P446387	
		Mandestrobin	0.0020	U	ug/L	P446387	
		MCPP	0.0020	U	ug/L	P446387	
		Naproxen	0.0080	U	ug/L	P446387	
		Primidone	0.0040	U	ug/L	P446387	
		Pyraclostrobin	0.0020	U	ug/L	P446387	
		Silvex	0.0040	U	ug/L	P446387	
		Thiamethoxam	0.0020	U	ug/L	P446387	

Field ID: FB_06112024

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493127	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P446387	RPD
		Triclopyr	0.0040	U	ug/L	P446387	

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

Sample Location: GOAT CREEK NEAR TADLOCK AVE

Collection Date/Time: 06/11/2024 09:25

Field ID: G5SE0130

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493090	DEP SOP: NU-094-1	Color (true)	53		PCU	P446397	
	EPA 180.1 Rev. 2.0	Turbidity	2.6		NTU	P446411	
	EPA 300.0 Rev. 2.1	Chloride	6.0E+03		mg Cl/L	P446560	
		Sulfate	820		mg SO4/L	P446563	
	SM 2320 B-2011	Total Alkalinity	169		mg CaCO3/L	P446607	
	SM 2540 C-2015	TDS	1.14E+04		mg/L	P446882	RPD
	SM 2540 D-2015	TSS	6	IA	mg/L	P446844	
	SM 4500-F- C-2011	Fluoride	0.59		mg F/L	P446602	RPD
2493091	EPA 350.1 Rev. 2.0	Ammonia-N	0.037		mg N/L	P446753	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.88		mg N/L	P446716	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	I	mg N/L	P446683	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P446581	
	SM 5310 B-2014	Organic Carbon	11		mg C/L	P446795	
2493122	EPA 8321B	Acesulfame K	0.13	I	ug/L	P446270	
		2,4-D	0.0020	U	ug/L	P446387	
		AMPA	1.0	U	ug/L	P446270	
		2,4,5-T	0.0040	U	ug/L	P446387	
		Acetaminophen	0.0080	U	ug/L	P446387	
		Endothall	0.25	U	ug/L	P446270	
		Acetamiprid	0.0020	U	ug/L	P446387	
		Glufosinate	1.0	U	ug/L	P446270	
		Glyphosate	1.0	U	ug/L	P446270	
		Afidopyropen	0.0020	U	ug/L	P446387	
		Sucralose	0.25		ug/L	P446270	
		Bentazon	0.0070		ug/L	P446387	
		Benzovindiflupyr	0.0020	U	ug/L	P446387	
		Carbamazepine	0.0013	I	ug/L	P446387	
		Clothianidin	0.0020	U	ug/L	P446387	
		Dinotefuran	0.0020	U	ug/L	P446387	
		Diuron	0.0020	U	ug/L	P446387	
		Fenuron	0.032	U	ug/L	P446387	
		Fluridone	4.6E-04	I	ug/L	P446387	
		Imazapyr	0.28		ug/L	P446387	
		Hydrocodone	0.0020	U	ug/L	P446387	
		Ibuprofen	0.080	U	ug/L	P446387	
		Imidacloprid	0.0020	U	ug/L	P446387	
		Linuron	0.0020	U	ug/L	P446387	
		Mandestrobin	0.0020	U	ug/L	P446387	
		MCPP	0.0020	U	ug/L	P446387	
		Naproxen	0.0080	U	ug/L	P446387	
		Primidone	0.0040	U	ug/L	P446387	
		Pyraclostrobin	0.0020	U	ug/L	P446387	
		Silvex	0.0040	U	ug/L	P446387	
		Thiamethoxam	0.0020	U	ug/L	P446387	

Field ID: G5SE0130

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493122	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P446387	RPD
		Triclopyr	0.0040	U	ug/L	P446387	

Ref. Method and Comment:
SM 2540 C-2015: The reported result is consistent with the conductivity measured in the laboratory, 19280 umhos/cm.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

Sample Location: KID CREEK AT OLD DIXIE HIGHWAY

Collection Date/Time: 06/11/2024 09:45

Field ID: G5SE0050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493092	DEP SOP: NU-094-1	Color (true)	40		PCU	P446397	
	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P446411	
	EPA 300.0 Rev. 2.1	Chloride	92		mg Cl/L	P446560	
		Sulfate	12		mg SO4/L	P446563	
	SM 2320 B-2011	Total Alkalinity	93		mg CaCO3/L	P446598	
	SM 2540 C-2015	TDS	308	AJ	mg/L	P446882	RPD
	SM 2540 D-2015	TSS	3	IA	mg/L	P446841	
	SM 4500-F- C-2011	Fluoride	0.057	I	mg F/L	P446601	RPD
2493093	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P446755	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.37		mg N/L	P446617	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.040		mg N/L	P446477	
	EPA 365.1 Rev. 2.0	Total-P	0.065		mg P/L	P446444	
	SM 5310 B-2014	Organic Carbon	7.5		mg C/L	P446792	
2493123	EPA 8321B	2,4-D	0.0020	U	ug/L	P446387	
		Acesulfame K	0.25	I	ug/L	P446270	
		2,4,5-T	0.0040	U	ug/L	P446387	
		AMPA	0.10	U	ug/L	P446270	
		Acetaminophen	0.0080	U	ug/L	P446387	
		Acetamiprid	0.0020	U	ug/L	P446387	
		Endothall	0.25	U	ug/L	P446270	
		Glufosinate	0.10	U	ug/L	P446270	
		Glyphosate	0.10	U	ug/L	P446270	
		Afidopyropen	0.0020	U	ug/L	P446387	
		Bentazon	0.029		ug/L	P446387	
		Sucralose	0.28		ug/L	P446270	
		Benzovindiflupyr	0.0020	U	ug/L	P446387	
		Carbamazepine	8.0E-04	U	ug/L	P446387	
		Clothianidin	0.0020	U	ug/L	P446387	
		Dinotefuran	0.0020	U	ug/L	P446387	
		Diuron	0.0020	U	ug/L	P446387	
		Fenuron	0.032	U	ug/L	P446387	
		Fluridone	4.0E-04	U	ug/L	P446387	
		Imazapyr	0.023		ug/L	P446387	
		Hydrocodone	0.0020	U	ug/L	P446387	
		Ibuprofen	0.080	U	ug/L	P446387	
		Imidacloprid	0.0020	U	ug/L	P446387	
		Linuron	0.0020	U	ug/L	P446387	
		Mandestrobin	0.0020	U	ug/L	P446387	
		MCPP	0.0020	U	ug/L	P446387	
		Naproxen	0.0080	U	ug/L	P446387	
		Primidone	0.0040	U	ug/L	P446387	
		Pyraclostrobin	0.0020	U	ug/L	P446387	
		Silvex	0.0040	U	ug/L	P446387	
		Thiamethoxam	0.0020	U	ug/L	P446387	

Field ID: G5SE0050

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493123	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P446387	RPD
		Triclopyr	0.0040	U	ug/L	P446387	

Ref. Method and Comment:

SM 2540 C-2015: Refer to the Lab Analysis Report for an explanation of QC Codes.

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

Sample Location: UNNAMED CANAL NORTH OF SENNE
HIGHLANDS

Collection Date/Time: 06/11/2024 10:35

Field ID: G5SE0139

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493096	DEP SOP: NU-094-1	Color (true)	59		PCU	P446398	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P446411	
	EPA 300.0 Rev. 2.1	Chloride	200		mg Cl/L	P446560	
		Sulfate	31		mg SO4/L	P446563	
	SM 2320 B-2011	Total Alkalinity	45		mg CaCO3/L	P446598	
	SM 2540 C-2015	TDS	502		mg/L	P446882	RPD
	SM 2540 D-2015	TSS	3	I	mg/L	P446841	
	SM 4500-F- C-2011	Fluoride	0.096	I	mg F/L	P446601	RPD
2493097	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P446755	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.51		mg N/L	P446617	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P446477	
	EPA 365.1 Rev. 2.0	Total-P	0.024		mg P/L	P446444	
	SM 5310 B-2014	Organic Carbon	16		mg C/L	P446792	
2493125	EPA 8321B	2,4-D	0.0020	U	ug/L	P446387	
		Acesulfame K	0.10	U	ug/L	P446270	
		2,4,5-T	0.0040	U	ug/L	P446387	
		AMPA	0.16	I	ug/L	P446270	
		Acetaminophen	0.0080	U	ug/L	P446387	
		Acetamiprid	0.0020	U	ug/L	P446387	
		Endothall	0.25	U	ug/L	P446270	
		Glufosinate	0.10	U	ug/L	P446270	
		Glyphosate	0.10	U	ug/L	P446270	
		Afidopyropen	0.0020	U	ug/L	P446387	
		Bentazon	0.0037		ug/L	P446387	
		Sucralose	0.077		ug/L	P446270	
		Benzovindiflupyr	0.0020	U	ug/L	P446387	
		Carbamazepine	8.0E-04	U	ug/L	P446387	
		Clothianidin	0.024		ug/L	P446387	
		Dinotefuran	0.0020	U	ug/L	P446387	
		Diuron	0.0020	U	ug/L	P446387	
		Fenuron	0.032	U	ug/L	P446387	
		Fluridone	0.042		ug/L	P446387	
		Imazapyr	0.41		ug/L	P446387	
		Hydrocodone	0.0020	U	ug/L	P446387	
		Ibuprofen	0.080	U	ug/L	P446387	
		Imidacloprid	0.020		ug/L	P446387	
		Linuron	0.0020	U	ug/L	P446387	
		Mandestrobin	0.0020	U	ug/L	P446387	
		MCPP	0.0020	U	ug/L	P446387	
		Naproxen	0.0080	U	ug/L	P446387	
		Primidone	0.0040	U	ug/L	P446387	
		Pyraclostrobin	0.0020	U	ug/L	P446387	
		Silvex	0.0040	U	ug/L	P446387	

Field ID: G5SE0139

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493125	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	P446387	
		Tolfenpyrad	0.0020	U	ug/L	P446387	RPD
		Triclopyr	0.0040	U	ug/L	P446387	

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

Sample Location: MICCO DITCH AT BLUEBIRD DRIVE

Collection Date/Time: 06/11/2024 12:00

Field ID: G5SE0153

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493094	DEP SOP: NU-094-1	Color (true)	53		PCU	P446397	
	EPA 180.1 Rev. 2.0	Turbidity	4.7		NTU	P446411	
	EPA 300.0 Rev. 2.1	Chloride	85		mg Cl/L	P446560	
		Sulfate	11		mg SO4/L	P446563	
	SM 2320 B-2011	Total Alkalinity	56		mg CaCO3/L	P446598	
	SM 2540 C-2015	TDS	245		mg/L	P446882	RPD
	SM 2540 D-2015	TSS	10		mg/L	P446841	
	SM 4500-F- C-2011	Fluoride	0.16		mg F/L	P446601	RPD
2493095	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P446755	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P446617	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P446477	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P446444	
	SM 5310 B-2014	Organic Carbon	13		mg C/L	P446792	
2493124	EPA 8321B	2,4-D	0.017		ug/L	P446387	
		Acesulfame K	0.11	I	ug/L	P446270	
		2,4,5-T	0.0040	U	ug/L	P446387	
		AMPA	0.74		ug/L	P446270	
		Acetaminophen	0.0080	U	ug/L	P446387	
		Acetamiprid	0.0020	U	ug/L	P446387	
		Endothall	0.25	U	ug/L	P446270	
		Glufosinate	0.10	U	ug/L	P446270	
		Glyphosate	0.69		ug/L	P446270	
		Afidopyropen	0.0020	U	ug/L	P446387	
		Bentazon	0.017		ug/L	P446387	
		Sucralose	2.0		ug/L	P446270	
		Benzovindiflupyr	0.0020	U	ug/L	P446387	
		Carbamazepine	9.1E-04	I	ug/L	P446387	
		Clothianidin	0.0020	U	ug/L	P446387	
		Dinotefuran	0.0020	U	ug/L	P446387	
		Diuron	0.0063	I	ug/L	P446387	
		Fenuron	0.032	U	ug/L	P446387	
		Fluridone	0.071		ug/L	P446387	
		Imazapyr	0.0047	I	ug/L	P446387	
		Hydrocodone	0.0020	U	ug/L	P446387	
		Ibuprofen	0.080	U	ug/L	P446387	
		Imidacloprid	0.0039	I	ug/L	P446387	
		Linuron	0.0020	U	ug/L	P446387	
		Mandestrobin	0.0020	U	ug/L	P446387	
		MCPP	0.0064	I	ug/L	P446387	
		Naproxen	0.0080	U	ug/L	P446387	
		Primidone	0.019		ug/L	P446387	
		Pyraclostrobin	0.0020	U	ug/L	P446387	
		Silvex	0.0040	U	ug/L	P446387	
		Thiamethoxam	0.0020	U	ug/L	P446387	

Field ID: G5SE0153

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493124	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P446387	RPD
		Triclopyr	0.0040	U	ug/L	P446387	

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

Sample Location: UNNAMED CANAL WEST OF MICCO

Collection Date/Time: 06/11/2024 11:15

Field ID: G5SE0140

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493098	DEP SOP: NU-094-1	Color (true)	48	J	PCU	P446398	
	EPA 180.1 Rev. 2.0	Turbidity	18		NTU	P446411	
	EPA 300.0 Rev. 2.1	Chloride	240		mg Cl/L	P446560	
		Sulfate	46		mg SO4/L	P446563	
	SM 2320 B-2011	Total Alkalinity	203		mg CaCO3/L	P446598	
	SM 2540 C-2015	TDS	702		mg/L	P446882	RPD
	SM 2540 D-2015	TSS	16		mg/L	P446841	
	SM 4500-F- C-2011	Fluoride	0.33		mg F/L	P446601	RPD
2493099	EPA 350.1 Rev. 2.0	Ammonia-N	0.046		mg N/L	P446755	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P446617	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P446477	
	EPA 365.1 Rev. 2.0	Total-P	0.073		mg P/L	P446446	
	SM 5310 B-2014	Organic Carbon	14		mg C/L	P446792	
2493126	EPA 8321B	2,4-D	0.0020	U	ug/L	P446387	
		Acesulfame K	0.10	U	ug/L	P446270	
		2,4,5-T	0.0040	U	ug/L	P446387	
		AMPA	0.10	U	ug/L	P446270	
		Acetaminophen	0.0080	U	ug/L	P446387	
		Acetamiprid	0.0020	U	ug/L	P446387	
		Endothall	0.25	U	ug/L	P446270	
		Glufosinate	0.10	U	ug/L	P446270	
		Glyphosate	0.22	I	ug/L	P446270	
		Afidopyropen	0.0020	U	ug/L	P446387	
		Bentazon	9.0E-04	I	ug/L	P446387	
		Sucralose	0.040	I	ug/L	P446270	
		Benzovindiflupyr	0.0020	U	ug/L	P446387	
		Carbamazepine	8.0E-04	U	ug/L	P446387	
		Clothianidin	0.0020	U	ug/L	P446387	
		Dinotefuran	0.0020	U	ug/L	P446387	
		Diuron	0.0020	U	ug/L	P446387	
		Fenuron	0.032	U	ug/L	P446387	
		Fluridone	4.0E-04	U	ug/L	P446387	
		Imazapyr	0.063		ug/L	P446387	
		Hydrocodone	0.0020	U	ug/L	P446387	
		Ibuprofen	0.080	U	ug/L	P446387	
		Imidacloprid	0.0020	U	ug/L	P446387	
		Linuron	0.0020	U	ug/L	P446387	
		Mandestrobin	0.0020	U	ug/L	P446387	
		MCPP	0.0020	U	ug/L	P446387	
		Naproxen	0.0080	U	ug/L	P446387	
		Primidone	0.0040	U	ug/L	P446387	
		Pyraclostrobin	0.0020	U	ug/L	P446387	
		Silvex	0.0040	U	ug/L	P446387	
		Thiamethoxam	0.0020	U	ug/L	P446387	

Field ID: G5SE0140

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2493126	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P446387	RPD
		Triclopyr	0.0040	U	ug/L	P446387	

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

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P446397

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P446398

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446411

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446560

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446563

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446753

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446755

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446616

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446617

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446716

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446477

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446478

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446683

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446444

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446446

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446581

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

Reference Method: EPA 8321B
Batch ID: P446270

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P446387

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	4.0E-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	0.0020	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: P446598

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

Reference Method: SM 2320 B-2011

Batch ID: P446607

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

Reference Method: SM 2540 C-2015

Batch ID: P446882

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P446841

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P446844

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P446601

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P446602

Component	Result	Code	Units
Fluoride	0.025	U	mg C/L

Reference Method: SM 5310 B-2014
Batch ID: P446792

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

Reference Method: SM 5310 B-2014
Batch ID: P446795

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: P446397

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.7		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P446398

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446411

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446560

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446563

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446753

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446755

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446616

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446617

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446716

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446477

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446478

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446683

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446444

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446446

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446581

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

Reference Method: EPA 8321B
Batch ID: P446270

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	104		P	40 - 150
AMPA	110		P	40 - 160
Endothall	117		P	40 - 160
Glufosinate	114		P	40 - 160
Glyphosate	110		P	40 - 160
Sucralose	98.9		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P446387

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	90.9		P	40 - 150
2,4,5-T	88.3		P	40 - 150
Acetaminophen	67.5		P	30 - 150
Acetamiprid	85.0		P	40 - 150
Afidopyropen	66.9		P	30 - 150
Bentazon	79.8		P	30 - 150
Benzovindiflupyr	78.9		P	40 - 150
Carbamazepine	81.9		P	40 - 150
Clothianidin	66.6		P	40 - 150
Dinotefuran	89.7		P	40 - 150
Diuron	77.0		P	40 - 150
Fenuron	92.6		P	40 - 150
Fluridone	90.3		P	40 - 150
Hydrocodone	96.6		P	40 - 150
Ibuprofen	57.9		P	40 - 150
Imazapyr	89.8		P	40 - 150
Imidacloprid	91.6		P	40 - 150
Linuron	75.3		P	40 - 150
Mandestrobin	90.7		P	40 - 150
MCPP	93.1		P	40 - 150
Naproxen	59.1		P	40 - 150
Primidone	86.1		P	40 - 150
Pyraclostrobin	81.3		P	40 - 150
Silvex	82.3		P	40 - 150
Thiamethoxam	89.4		P	40 - 150
Tolfenpyrad	40.2		P	30 - 150
Triclopyr	76.7		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P446598

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.3		P	93 - 103

Reference Method: SM 2320 B-2011

Batch ID: P446607

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	93 - 103

Reference Method: SM 2540 C-2015

Batch ID: P446882

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	95.6		P	85 - 115

Reference Method: SM 2540 D-2015

Batch ID: P446841

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P446844

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

Reference Method: SM 4500-F- C-2011
Batch ID: P446601

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.3		P	95 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P446602

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	95 - 106

Reference Method: SM 5310 B-2014
Batch ID: P446792

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.4		P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P446795

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446560

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493044	Chloride	101		P	90 - 110
2493144	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446563

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493044	Sulfate	104		P	90 - 110
2493144	Sulfate	105		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492915	Ammonia-N	93.6	95.2	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446755

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493053	Ammonia-N	94.0	95.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446617

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493093	Kjeldahl Nitrogen	96.2	107	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446716

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493215	Kjeldahl Nitrogen	93.0	97.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446477

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492999	NO2NO3-N	98.0	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446478

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493188	NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446683

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2491742	NO2NO3-N	91.9	91.9	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446444

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493093	Total-P	101	99.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446446

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493145	Total-P	99.4	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446581

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493585	Total-P	91.8	91.4	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P446270

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492714	Acesulfame K	123	126	P/P	40 - 150
2492714	AMPA	107	110	P/P	40 - 160
2492714	Endothall	133	136	P/P	40 - 160
2492714	Glufosinate	97.5	101	P/P	40 - 160
2492714	Glyphosate	103	101	P/P	40 - 160
2492714	Sucralose	89.6	93.1	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P446387

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492543	2,4-D	116	122	P/P	40 - 150
2492543	2,4,5-T	88.8	81.5	P/P	40 - 150
2492543	Acetaminophen	85.1	91.8	P/P	30 - 150
2492543	Acetamiprid	98.6	104	P/P	40 - 150
2492543	Afidopyropen	77.8	83.0	P/P	30 - 150
2492543	Bentazon	57.9	67.7	P/P	30 - 150
2492543	Benzovindiflupyr	77.9	84.9	P/P	40 - 150
2492543	Carbamazepine	88.2	84.8	P/P	40 - 150
2492543	Clothianidin	90.3	90.6	P/P	40 - 150
2492543	Dinotefuran	102	114	P/P	40 - 150
2492543	Diuron	69.1	83.0	P/P	40 - 150
2492543	Fenuron	80.5	84.8	P/P	40 - 150
2492543	Fluridone	83.5	81.7	P/P	40 - 150
2492543	Hydrocodone	103	115	P/P	40 - 150
2492543	Ibuprofen	58.2	71.4	P/P	40 - 150
2492543	Imazapyr	109	119	P/P	40 - 150
2492543	Imidacloprid	122	114	P/P	40 - 150
2492543	Linuron	80.6	75.6	P/P	40 - 150
2492543	Mandestrobin	87.1	92.5	P/P	40 - 150
2492543	MCPP	90.5	103	P/P	40 - 150
2492543	Naproxen	83.6	69.9	P/P	40 - 150
2492543	Primidone	107	86.0	P/P	40 - 150
2492543	Pyraclostrobin	91.1	95.7	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P446387

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492543	Silvex	86.9	81.4	P/P	40 - 150
2492543	Thiamethoxam	107	99.0	P/P	40 - 150
2492543	Tolfenpyrad	58.7	40.7	P/P	30 - 150
2492543	Triclopyr	77.8	72.6	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P446601

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493187	Fluoride	95.5	98.1	P/P	95 - 107

Reference Method: SM 4500-F- C-2011
Batch ID: P446602

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2492910	Fluoride	99.1	102	P/P	95 - 107

Reference Method: SM 5310 B-2014
Batch ID: P446792

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493053	Organic Carbon	98.0	100	P/P	85 - 115

Reference Method: SM 5310 B-2014
Batch ID: P446795

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2493217	Organic Carbon	99.5	98.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P446397

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493044	Color (true)	2.33	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P446398

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493139	Color (true)	3.17	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P446411

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493044	Turbidity	3.91	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446560

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493044	Chloride	0.152	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P446563

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493044	Sulfate	0.938	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492915	Ammonia-N	1.47	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P446755

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493053	Ammonia-N	0.837	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446616

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493001	Kjeldahl Nitrogen	6.31	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446617

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493093	Kjeldahl Nitrogen	8.96	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P446716

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493215	Kjeldahl Nitrogen	4.30	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446477

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492999	NO2NO3-N	0.509	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446478

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493188	NO2NO3-N	0.494	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P446683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2491742	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446444

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493093	Total-P	0.943	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446446

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493145	Total-P	0.922	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P446581

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493585	Total-P	0.476	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P446270

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492714	Acesulfame K	2.73	Spike	P	0 - 30
2492714	AMPA	2.72	Spike	P	0 - 30
2492714	Endothall	2.34	Spike	P	0 - 30
2492714	Glufosinate	3.94	Spike	P	0 - 30
2492714	Glyphosate	1.55	Spike	P	0 - 30
2492714	Sucralose	3.84	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P446387

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492543	2,4-D	4.20	Spike	P	0 - 30
2492543	2,4,5-T	8.50	Spike	P	0 - 30
2492543	Acetaminophen	7.52	Spike	P	0 - 30
2492543	Acetamiprid	5.20	Spike	P	0 - 30
2492543	Afidopyropen	6.47	Spike	P	0 - 30
2492543	Bentazon	11.0	Spike	P	0 - 30
2492543	Benzovindiflupyr	8.66	Spike	P	0 - 30
2492543	Carbamazepine	3.88	Spike	P	0 - 30
2492543	Clothianidin	0.382	Spike	P	0 - 30
2492543	Dinotefuran	11.6	Spike	P	0 - 30
2492543	Diuron	18.4	Spike	P	0 - 30
2492543	Fenuron	5.19	Spike	P	0 - 30
2492543	Fluridone	2.08	Spike	P	0 - 30
2492543	Hydrocodone	10.8	Spike	P	0 - 30
2492543	Ibuprofen	20.3	Spike	P	0 - 30
2492543	Imazapyr	7.36	Spike	P	0 - 30
2492543	Imidacloprid	6.62	Spike	P	0 - 30
2492543	Linuron	6.42	Spike	P	0 - 30
2492543	Mandestrobin	5.97	Spike	P	0 - 30
2492543	MCPP	13.4	Spike	P	0 - 30
2492543	Naproxen	17.8	Spike	P	0 - 30
2492543	Primidone	19.1	Spike	P	0 - 30
2492543	Pyraclostrobin	4.96	Spike	P	0 - 30
2492543	Silvex	6.53	Spike	P	0 - 30
2492543	Thiamethoxam	7.84	Spike	P	0 - 30
2492543	Tolfenpyrad	36.2	Spike	F	0 - 30
2492543	Triclopyr	6.96	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P446598

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493187	Total Alkalinity	0.135	Sample	P	0 - 4.1

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P446607

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492910	Total Alkalinity	0.738	Sample	P	0 - 4.1

Reference Method: SM 2540 C-2015
Batch ID: P446882

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493092	TDS	10.0	Sample	F	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P446601

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493187	Fluoride	2.50	Spike	F	0 - 1.7

Reference Method: SM 4500-F- C-2011
Batch ID: P446602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2492910	Fluoride	1.93	Spike	F	0 - 1.7

Reference Method: SM 5310 B-2014
Batch ID: P446792

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493053	Organic Carbon	2.05	Spike	P	0 - 15

Reference Method: SM 5310 B-2014
Batch ID: P446795

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2493217	Organic Carbon	0.496	Spike	P	0 - 15

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

Quality Assurance Report

Surrogates

Lab Sample ID: 2493121

Field Sample ID: G5SE0080

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	84.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	57.1	P	30 - 160
EPA 8321B	Diuron-d6	48.0	P	30 - 160
EPA 8321B	Endothall-d6	120	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	103	P	30 - 160
EPA 8321B	Ibuprofen-d3	58.0	P	30 - 160
EPA 8321B	Primidone-d5	75.5	P	30 - 160
EPA 8321B	Sucralose-d6	48.5	P	30 - 160

Lab Sample ID: 2493122

Field Sample ID: G5SE0130

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	120	P	30 - 160
EPA 8321B	Acetaminophen-d4	90.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	83.1	P	30 - 160
EPA 8321B	Diuron-d6	61.7	P	30 - 160
EPA 8321B	Endothall-d6	89.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	62.6	P	30 - 160
EPA 8321B	Primidone-d5	87.9	P	30 - 160
EPA 8321B	Sucralose-d6	41.5	P	30 - 160

Lab Sample ID: 2493123

Field Sample ID: G5SE0050

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	104	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	68.3	P	30 - 160
EPA 8321B	Diuron-d6	59.6	P	30 - 160
EPA 8321B	Endothall-d6	108	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	106	P	30 - 160
EPA 8321B	Ibuprofen-d3	62.3	P	30 - 160
EPA 8321B	Primidone-d5	90.5	P	30 - 160
EPA 8321B	Sucralose-d6	105	P	30 - 160

Lab Sample ID: 2493124

Field Sample ID: G5SE0153

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	115	P	30 - 160
EPA 8321B	Acetaminophen-d4	84.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	62.0	P	30 - 160
EPA 8321B	Diuron-d6	49.5	P	30 - 160
EPA 8321B	Endothall-d6	115	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	113	P	30 - 160
EPA 8321B	Ibuprofen-d3	56.8	P	30 - 160
EPA 8321B	Primidone-d5	77.3	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2493125
Field Sample ID: G5SE0139

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	119	P	30 - 160
EPA 8321B	Acetaminophen-d4	82.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	60.2	P	30 - 160
EPA 8321B	Diuron-d6	49.4	P	30 - 160
EPA 8321B	Endothall-d6	116	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	104	P	30 - 160
EPA 8321B	Ibuprofen-d3	56.2	P	30 - 160
EPA 8321B	Primidone-d5	64.4	P	30 - 160
EPA 8321B	Sucralose-d6	90.1	P	30 - 160

Lab Sample ID: 2493126
Field Sample ID: G5SE0140

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	60.2	P	30 - 160
EPA 8321B	Diuron-d6	47.5	P	30 - 160
EPA 8321B	Endothall-d6	115	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	103	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.6	P	30 - 160
EPA 8321B	Primidone-d5	69.1	P	30 - 160
EPA 8321B	Sucralose-d6	59.7	P	30 - 160

Lab Sample ID: 2493127
Field Sample ID: FB_06112024

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	120	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	100	P	30 - 160
EPA 8321B	Diuron-d6	82.2	P	30 - 160
EPA 8321B	Endothall-d6	89.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	113	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.3	P	30 - 160
EPA 8321B	Primidone-d5	92.1	P	30 - 160
EPA 8321B	Sucralose-d6	98.2	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A126077

Included Lab Sample IDs: 2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	94.1	93.0	P/P	90 - 110
Sulfate	96.7	95.8	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A126115

Included Lab Sample IDs: 2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A126120

Included Lab Sample IDs: 2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100

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

Reference Method: EPA 8321B

Run ID: A126126

Included Lab Sample IDs: 2493121, 2493122, 2493123, 2493124, 2493125, 2493126, 2493127

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	113	115	P/P	60 - 160
AMPA	115	111	P/P	60 - 160
Endothall	117	109	P/P	60 - 160
Glufosinate	106	108	P/P	60 - 160
Glufosinate	108	103	P/P	60 - 160
Glyphosate	106	114	P/P	60 - 160
Glyphosate	106	106	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A126128

Included Lab Sample IDs: 2493121, 2493122, 2493123, 2493124, 2493125, 2493126, 2493127

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	121	124	P/P	60 - 160
Sucralose	107	102	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A126144

Included Lab Sample IDs: 2493089, 2493093, 2493095, 2493097, 2493099, 2493101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110
NO2NO3-N	99.5	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A126155

Included Lab Sample IDs: 2493099

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A126156

Included Lab Sample IDs: 2493093

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A126161

Included Lab Sample IDs: 2493097, 2493101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	98.8	P/P	90 - 110
Total-P	99.0	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A126169

Included Lab Sample IDs: 2493089, 2493095

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

Reference Method: EPA 8321B

Run ID: A126178

Included Lab Sample IDs: 2493121, 2493122, 2493123, 2493124, 2493125, 2493126, 2493127

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	84.9	102	P/P	50 - 150
2,4,5-T	75.7	82.6	P/P	50 - 150
Acetaminophen	67.4	80.7	P/P	60 - 160
Acetamiprid	111	139	P/P	50 - 150
Afidopyropen	91.4	105	P/P	50 - 150
Bentazon	68.5	92.4	P/P	50 - 160
Benzovindiflupyr	107	107	P/P	50 - 150
Carbamazepine	79.8	125	P/P	60 - 150
Clothianidin	74.7	98.1	P/P	60 - 150
Dinotefuran	79.6	95.7	P/P	50 - 150
Diuron	98.0	121	P/P	60 - 160
Fenuron	89.6	114	P/P	60 - 150
Fluridone	115	101	P/P	60 - 160
Hydrocodone	104	105	P/P	60 - 150
Ibuprofen	67.9	77.6	P/P	50 - 160
Imazapyr	85.9	86.0	P/P	50 - 150
Imidacloprid	97.1	112	P/P	60 - 150
Linuron	87.2	101	P/P	60 - 150
Mandestrobin	117	114	P/P	50 - 150
MCPP	93.1	92.0	P/P	50 - 150
Naproxen	136	70.9	P/P	50 - 160
Primidone	77.6	84.5	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A126178

Included Lab Sample IDs: 2493121, 2493122, 2493123, 2493124, 2493125, 2493126, 2493127

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	127	123	P/P	60 - 150
Silvex	77.6	98.8	P/P	50 - 150
Thiamethoxam	83.8	106	P/P	50 - 150
Tolfenpyrad	82.8	90.8	P/P	60 - 150
Triclopyr	80.8	88.6	P/P	50 - 150

Reference Method: SM 2320 B-2011

Run ID: A126180

Included Lab Sample IDs: 2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	99.6	P/P	90 - 110
Total Alkalinity	98.6	99.6	P/P	90 - 110
Total Alkalinity	99.6	98.6	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A126180

Included Lab Sample IDs: 2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	99.0	P/P	90 - 110
Fluoride	99.0	101	P/P	90 - 110
Fluoride	99.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A126202

Included Lab Sample IDs: 2493091

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A126218

Included Lab Sample IDs: 2493091

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A126238

Included Lab Sample IDs: 2493089, 2493091, 2493093, 2493095, 2493097, 2493099, 2493101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.3	97.5	P/P	90 - 110
Ammonia-N	97.6	97.8	P/P	90 - 110

Reference Method: SM 5310 B-2014

Run ID: A126261

Included Lab Sample IDs: 2493089, 2493091, 2493093, 2493095, 2493097, 2493099, 2493101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2014

Run ID: A126261

Included Lab Sample IDs: 2493089, 2493091, 2493093, 2493095, 2493097, 2493099, 2493101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	106	100	P/P	70 - 130
Organic Carbon	122	101	P/P	70 - 130

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A126287

Included Lab Sample IDs: 2493089, 2493093, 2493095, 2493097, 2493099, 2493101

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A126313

Included Lab Sample IDs: 2493091

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	98.9	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		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	98.7				2.33	
	Color (true)	101				3.17	
EPA 180.1 Rev. 2.0	Turbidity	101				3.91	
EPA 300.0 Rev. 2.1	Chloride	101	101	103		0.152	
	Sulfate	105	104	105		0.938	
EPA 350.1 Rev. 2.0	Ammonia-N	95.8	93.6	95.2			1.47
	Ammonia-N	96.0	94.0	95.0			0.837
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101					6.31
	Kjeldahl Nitrogen	105	96.2	107			8.96
	Kjeldahl Nitrogen	95.4	93.0	97.7			4.30
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	98.0	98.5			0.509
	NO2NO3-N	99.5	102	101			0.494
	NO2NO3-N	99.0	91.9	91.9			0.0
EPA 365.1 Rev. 2.0	Total-P	101	101	99.9			0.943
	Total-P	98.6	99.4	101			0.922
	Total-P	99.8	91.8	91.4			0.476
EPA 8321B	2,4-D	90.9	116	122			4.20
	2,4,5-T	88.3	88.8	81.5			8.50
	Acesulfame K	104	123	126			2.73
	Acetaminophen	67.5	85.1	91.8			7.52
	Acetamiprid	85.0	98.6	104			5.20
	Afidopyropen	66.9	77.8	83.0			6.47
	AMPA	110	107	110			2.72
	Bentazon	79.8	57.9	67.7			11.0
	Benzovindiflupyr	78.9	77.9	84.9			8.66
	Carbamazepine	81.9	88.2	84.8			3.88
	Clothianidin	66.6	90.3	90.6			0.382
	Dinotefuran	89.7	102	114			11.6
	Diuron	77.0	69.1	83.0			18.4
	Endothall	117	133	136			2.34
	Fenuron	92.6	80.5	84.8			5.19
	Fluridone	90.3	83.5	81.7			2.08
	Glufosinate	114	97.5	101			3.94
	Glyphosate	110	103	101			1.55
	Hydrocodone	96.6	103	115			10.8
	Ibuprofen	57.9	58.2	71.4			20.3
	Imazapyr	89.8	109	119			7.36
	Imidacloprid	91.6	122	114			6.62
	Linuron	75.3	80.6	75.6			6.42
	Mandestrobin	90.7	87.1	92.5			5.97
	MCPP	93.1	90.5	103			13.4
	Naproxen	59.1	83.6	69.9			17.8
	Primidone	86.1	107	86.0			19.1
	Pyraclostrobin	81.3	91.1	95.7			4.96
	Silvex	82.3	86.9	81.4			6.53
	Sucralose	98.9	89.6	93.1			3.84
	Thiamethoxam	89.4	107	99.0			7.84
	Tolfenpyrad	40.2	58.7	40.7			36.2
	Triclopyr	76.7	77.8	72.6			6.96
SM 2320 B-2011	Total Alkalinity	98.3				0.135	
	Total Alkalinity	101				0.738	
SM 2540 C-2015	TDS	95.6				10.0	
SM 2540 D-2015	TSS	94.4					
	TSS	96.8					

Quality Assurance Report

Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 4500-F- C-2011	Fluoride	96.3	95.5	98.1		2.50
	Fluoride	98.3	99.1	102		1.93
SM 5310 B-2014	Organic Carbon	99.4	98.0	100		2.05
	Organic Carbon	102	99.5	98.9		0.496

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2493089, 2493091, 2493093, 2493095, 2493097, 2493099, 2493101
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2493089, 2493091, 2493093, 2493095, 2493097, 2493099, 2493101
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2493089, 2493091, 2493093, 2493095, 2493097, 2493099, 2493101
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2493089, 2493091, 2493093, 2493095, 2493097, 2493099, 2493101
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2493121, 2493122, 2493123, 2493124, 2493125, 2493126, 2493127
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2493089, 2493091, 2493093, 2493095, 2493097, 2493099, 2493101

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	06/12/2024			06/12/2024 13:26	Jessica K Wilks	2493088, 2493090
	06/12/2024			06/12/2024 13:27	Jessica K Wilks	2493092, 2493094
	06/12/2024			06/12/2024 13:30	Jessica K Wilks	2493096, 2493098
	06/12/2024			06/12/2024 13:31	Jessica K Wilks	2493100
EPA 180.1 Rev. 2.0	06/12/2024			06/12/2024 13:27	Jessica K Wilks	2493088
	06/12/2024			06/12/2024 13:28	Jessica K Wilks	2493090
	06/12/2024			06/12/2024 13:29	Jessica K Wilks	2493092
	06/12/2024			06/12/2024 13:30	Jessica K Wilks	2493094
	06/12/2024			06/12/2024 13:32	Jessica K Wilks	2493096
	06/12/2024			06/12/2024 13:33	Jessica K Wilks	2493098
	06/12/2024			06/12/2024 13:34	Jessica K Wilks	2493100
EPA 300.0 Rev. 2.1	06/12/2024			06/15/2024 00:25	James L Waggeberby	2493088
	06/12/2024			06/15/2024 00:40	James L Waggeberby	2493090
	06/12/2024			06/15/2024 00:55	James L Waggeberby	2493092
	06/12/2024			06/15/2024 01:10	James L Waggeberby	2493094
	06/12/2024			06/15/2024 01:25	James L Waggeberby	2493096
	06/12/2024			06/15/2024 01:40	James L Waggeberby	2493098
	06/12/2024			06/15/2024 01:55	James L Waggeberby	2493100
EPA 350.1 Rev. 2.0	06/12/2024			06/19/2024 11:59	Khloe J Berg	2493091
	06/12/2024			06/19/2024 12:51	Khloe J Berg	2493089
	06/12/2024			06/19/2024 12:52	Khloe J Berg	2493093
	06/12/2024			06/19/2024 12:53	Khloe J Berg	2493095
	06/12/2024			06/19/2024 12:55	Khloe J Berg	2493097
	06/12/2024			06/19/2024 12:56	Khloe J Berg	2493099
	06/12/2024			06/19/2024 12:57	Khloe J Berg	2493101
EPA 351.2 Rev. 2.0	06/12/2024	06/18/2024 12:07	Robyn Blevins	06/20/2024 15:28	Samantha L Bates	2493089
	06/12/2024	06/18/2024 12:07	Robyn Blevins	06/20/2024 15:36	Samantha L Bates	2493093
	06/12/2024	06/18/2024 12:07	Robyn Blevins	06/20/2024 15:41	Samantha L Bates	2493095
	06/12/2024	06/18/2024 12:07	Robyn Blevins	06/20/2024 15:43	Samantha L Bates	2493097
	06/12/2024	06/18/2024 12:07	Robyn Blevins	06/20/2024 15:44	Samantha L Bates	2493099
	06/12/2024	06/18/2024 12:07	Robyn Blevins	06/20/2024 15:46	Samantha L Bates	2493101
	06/12/2024	06/20/2024 11:52	Robyn Blevins	06/21/2024 12:52	Robyn Blevins	2493091
EPA 353.2 Rev. 2.0	06/12/2024			06/13/2024 13:56	Fadila Guebre	2493089
	06/12/2024			06/13/2024 13:59	Fadila Guebre	2493093
	06/12/2024			06/13/2024 14:00	Fadila Guebre	2493095
	06/12/2024			06/13/2024 14:01	Fadila Guebre	2493097
	06/12/2024			06/13/2024 14:02	Fadila Guebre	2493099
	06/12/2024			06/13/2024 14:16	Fadila Guebre	2493101
	06/12/2024			06/14/2024 16:01	Fadila Guebre	2493091
EPA 365.1 Rev. 2.0	06/12/2024	06/13/2024 13:13	Adam P Silver	06/14/2024 12:08	Elise M. Gillis	2493099

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	06/12/2024	06/13/2024 13:13	Adam P Silver	06/14/2024 12:42	Elise M. Gillis	2493093
	06/12/2024	06/13/2024 13:13	Adam P Silver	06/14/2024 13:53	Elise M. Gillis	2493097
	06/12/2024	06/13/2024 13:13	Adam P Silver	06/14/2024 14:14	Elise M. Gillis	2493101
	06/12/2024	06/13/2024 13:13	Adam P Silver	06/17/2024 13:05	Chandler E Cox	2493089
	06/12/2024	06/13/2024 13:13	Adam P Silver	06/17/2024 13:06	Chandler E Cox	2493095
	06/12/2024	06/17/2024 08:05	Adam P Silver	06/18/2024 11:57	Simonne.V. Calhoun	2493091
EPA 8321B	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 12:28	Hana Lee	2493121
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 12:42	Hana Lee	2493122
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 12:49	Hana Lee	2493121
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 12:56	Hana Lee	2493123
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 13:03	Hana Lee	2493122
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 13:10	Hana Lee	2493124
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 13:17	Hana Lee	2493123
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 13:23	Hana Lee	2493125
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 13:31	Hana Lee	2493124
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 13:37	Hana Lee	2493126
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 13:45	Hana Lee	2493125
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 13:51	Hana Lee	2493127
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 13:59	Hana Lee	2493126
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 14:13	Hana Lee	2493127
	06/12/2024	06/12/2024 11:40	Hana Lee	06/12/2024 15:13	Hana Lee	2493122
	06/12/2024	06/13/2024 09:00	Hoor Shaik	06/15/2024 02:35	Juyoung Kim	2493121
	06/12/2024	06/13/2024 09:00	Hoor Shaik	06/15/2024 02:53	Juyoung Kim	2493122
	06/12/2024	06/13/2024 09:00	Hoor Shaik	06/15/2024 03:10	Juyoung Kim	2493123
	06/12/2024	06/13/2024 09:00	Hoor Shaik	06/15/2024 03:28	Juyoung Kim	2493124
	06/12/2024	06/13/2024 09:00	Hoor Shaik	06/15/2024 03:46	Juyoung Kim	2493125
	06/12/2024	06/13/2024 09:00	Hoor Shaik	06/15/2024 04:04	Juyoung Kim	2493126
	06/12/2024	06/13/2024 09:00	Hoor Shaik	06/15/2024 04:21	Juyoung Kim	2493127
SM 2320 B-2011	06/12/2024			06/14/2024 09:59	Dale L. Simmons	2493092
	06/12/2024			06/14/2024 10:13	Dale L. Simmons	2493094
	06/12/2024			06/14/2024 10:27	Dale L. Simmons	2493096
	06/12/2024			06/14/2024 10:37	Dale L. Simmons	2493100
	06/12/2024			06/14/2024 12:38	Dale L. Simmons	2493098
	06/12/2024			06/14/2024 12:52	Dale L. Simmons	2493088
SM 2540 C-2015	06/12/2024			06/14/2024 17:05	Dale L. Simmons	2493090
	06/12/2024			06/17/2024 14:33	Yijie Li	2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100
SM 2540 D-2015	06/12/2024			06/17/2024 14:33	Yijie Li	2493088, 2493090, 2493092, 2493094, 2493096, 2493098, 2493100
SM 4500-F- C-2011	06/12/2024			06/14/2024 09:59	Dale L. Simmons	2493092

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	06/12/2024			06/14/2024 10:13	Dale L. Simmons	2493094
	06/12/2024			06/14/2024 10:27	Dale L. Simmons	2493096
	06/12/2024			06/14/2024 10:37	Dale L. Simmons	2493100
	06/12/2024			06/14/2024 12:38	Dale L. Simmons	2493098
	06/12/2024			06/14/2024 12:52	Dale L. Simmons	2493088
	06/12/2024			06/14/2024 15:09	Dale L. Simmons	2493090
SM 5310 B-2014	06/12/2024			06/19/2024 18:02	Jessica K Wilks	2493089
	06/12/2024			06/19/2024 18:17	Jessica K Wilks	2493093
	06/12/2024			06/19/2024 18:31	Jessica K Wilks	2493095
	06/12/2024			06/19/2024 18:46	Jessica K Wilks	2493097
	06/12/2024			06/19/2024 19:01	Jessica K Wilks	2493099
	06/12/2024			06/19/2024 19:15	Jessica K Wilks	2493101
	06/12/2024			06/20/2024 06:45	Jessica K Wilks	2493091