

Chemical Analysis Report

NE-DIST-2022-02-01-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **unnamed run boat**
Request ID: **RQ-2022-01-31-13**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 23-FEB-2022 11:12

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first name.

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: Unnamed Drain South Entrance

Collection Date/Time: 01/31/2022 11:30

Field ID: G5NE0591

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302702	EPA 180.1 Rev. 2.0	Turbidity	4.2		NTU	P409273	
	SM 2320 B-2011	Total Alkalinity	118		mg CaCO3/L	P409434	
	SM 2540 D-2011	TSS	7	IA	mg/L	P409811	
	SM 4500 F-C-2011	Fluoride	1.2		mg F/L	P409437	
2302703	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P409634	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.32	I	mg N/L	P409355	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P409319	
	EPA 365.1 Rev. 2.0	Total-P	0.025		mg P/L	P409294	
	SM 5310 B-2011	Organic Carbon	2.8		mg C/L	P410104	
2302704	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P409262	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Unnamed Drain 10M N Eagles Nest Rd. approx. 0.5MI E US1 **Collection Date/Time: 01/31/2022 12:50**

Field ID: 27010078

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302705	DEP SOP: NU-094-1	Color (true)**	210		PCU	P409259	
	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P409273	
	EPA 300.0 Rev. 2.1	Chloride	51	A	mg Cl/L	P409477	
		Sulfate	3.6	A	mg SO4/L	P409479	
	SM 2320 B-2011	Total Alkalinity	101		mg CaCO3/L	P409433	
	SM 2540 C-2011	TDS	268	A	mg/L	P409805	
	SM 2540 D-2011	TSS	3	IA	mg/L	P409807	
2302706	SM 4500 F-C-2011	Fluoride	0.062	I	mg F/L	P409436	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P409637	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P409304	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.021		mg N/L	P409515	
	EPA 365.1 Rev. 2.0	Total-P	0.080		mg P/L	P409296	
2302707	SM 5310 B-2011	Organic Carbon	28		mg C/L	P409975	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.063		mg P/L	P409261	
2302716	EPA 8321B	2,4-D	0.0020	U	ug/L	P409301	
		Acesulfame K	0.10	U	ug/L	P409131	
		2,4,5-T	0.0040	U	ug/L	P409301	
		AMPA	0.10	U	ug/L	P409131	
		Acetaminophen	0.0080	U	ug/L	P409301	
		Acetamiprid	0.0020	U	ug/L	P409301	
		Endothall	0.25	U	ug/L	P409131	MS
		Glufosinate	0.10	U	ug/L	P409131	
		Glyphosate	0.10	U	ug/L	P409131	
		Afidopyropen	0.0020	U	ug/L	P409301	MS
		Bentazon	8.0E-04	U	ug/L	P409301	
		Sucralose	0.010	U	ug/L	P409131	
		Benzovindiflupyr	0.0020	U	ug/L	P409301	
		Carbamazepine	8.0E-04	U	ug/L	P409301	
		Clothianidin	0.0020	U	ug/L	P409301	
		Dinotefuran	0.0020	U	ug/L	P409301	
		Diuron	0.0020	U	ug/L	P409301	
		Fenuron	0.016	U	ug/L	P409301	
		Fluridone	8.0E-04	U	ug/L	P409301	
		Imazapyr	0.11		ug/L	P409301	
		Hydrocodone	0.0020	U	ug/L	P409301	
		Ibuprofen	0.020	U	ug/L	P409301	
		Imidacloprid	0.0020	U	ug/L	P409301	
		Linuron	0.0040	U	ug/L	P409301	
		Mandestrobin	0.0020	U	ug/L	P409301	
		MCP	0.0040	U	ug/L	P409301	
		Naproxen	0.0080	U	ug/L	P409301	
		Primidone	0.0040	U	ug/L	P409301	

Field ID: 27010078

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302716	EPA 8321B	Pyraclostrobin	0.0020	U	ug/L	P409301	
		Silvex	0.0040	U	ug/L	P409301	
		Thiamethoxam	0.0020	U	ug/L	P409301	
		Tolfenpyrad	0.0020	U	ug/L	P409301	
		Triclopyr	0.0040	U	ug/L	P409301	

Ref. Method and Comment:

SM 2540 D-2011: 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: Unnamed Drain @ Eagles Nest Rd

Collection Date/Time: 01/31/2022 13:05

Field ID: 27010079

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2302717	EPA 8321B	Acesulfame K	0.10	U	ug/L	P409131	
		2,4-D	0.0020	U	ug/L	P409301	
		AMPA	10	U	ug/L	P409131	
		2,4,5-T	0.0040	U	ug/L	P409301	
		Acetaminophen	0.0080	U	ug/L	P409301	
		Acetamiprid	0.0020	U	ug/L	P409301	
		Endothall	0.25	U	ug/L	P409131	MS
		Glufosinate	10	U	ug/L	P409131	
		Glyphosate	10	U	ug/L	P409131	
		Afidopyropen	0.0020	U	ug/L	P409301	MS
		Sucralose	0.010	U	ug/L	P409131	
		Bentazon	8.0E-04	U	ug/L	P409301	
		Benzovindiflupyr	0.0020	U	ug/L	P409301	
		Carbamazepine	8.0E-04	U	ug/L	P409301	
		Clothianidin	0.0020	U	ug/L	P409301	
		Dinotefuran	0.0020	U	ug/L	P409301	
		Diuron	0.0020	U	ug/L	P409301	
		Fenuron	0.016	U	ug/L	P409301	
		Fluridone	8.0E-04	U	ug/L	P409301	
		Imazapyr	0.048		ug/L	P409301	
		Hydrocodone	0.0020	U	ug/L	P409301	
		Ibuprofen	0.020	U	ug/L	P409301	
		Imidacloprid	0.0020	U	ug/L	P409301	
		Linuron	0.0040	U	ug/L	P409301	
		Mandestrobin	0.0020	U	ug/L	P409301	
		MCPP	0.0040	U	ug/L	P409301	
		Naproxen	0.0080	U	ug/L	P409301	
		Primidone	0.0040	U	ug/L	P409301	
		Pyraclostrobin	0.0020	U	ug/L	P409301	
		Silvex	0.0040	U	ug/L	P409301	
		Thiamethoxam	0.0020	U	ug/L	P409301	
		Tolfenpyrad	0.0020	U	ug/L	P409301	
		Triclopyr	0.0040	U	ug/L	P409301	

Ref. Method and Comment:
EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P409259

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409273

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409477

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409479

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409634

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409637

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409304

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409355

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409319

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409515

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409294

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409296

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409261

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409262

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8321B
Batch ID: P409131

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: P409301

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: P409301

Component	Result	Code	Units
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	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	0.0040	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: P409433

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2320 B-2011
Batch ID: P409434

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P409805

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P409807

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P409811

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P409436

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500 F-C-2011
Batch ID: P409437

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P409975

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

Reference Method: SM 5310 B-2011
Batch ID: P410104

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: P409259

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.7		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409273

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	95.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409477

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409479

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409634

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409637

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	90.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409304

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409355

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409319

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P409515

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409294

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: P409296

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409261

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409262

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

Reference Method: EPA 8321B

Batch ID: P409131

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	75.4		P	40 - 150
AMPA	104		P	40 - 150
Endothall	97.4		P	40 - 150
Glufosinate	92.0		P	40 - 150
Glyphosate	87.3		P	40 - 150
Sucralose	95.1		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P409301

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	91.8		P	40 - 150
2,4,5-T	73.8		P	40 - 150
Acetaminophen	87.0		P	30 - 150
Acetamiprid	94.5		P	40 - 150
Afidopyropen	75.7		P	40 - 150
Bentazon	101		P	30 - 150
Benzovindiflupyr	85.1		P	40 - 150
Carbamazepine	84.1		P	40 - 150
Clothianidin	86.7		P	40 - 150
Dinotefuran	90.6		P	40 - 150
Diuron	102		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P409301

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fenuron	94.9		P	40 - 150
Fluridone	88.9		P	40 - 150
Hydrocodone	93.5		P	40 - 150
Ibuprofen	80.5		P	40 - 150
Imazapyr	96.2		P	40 - 150
Imidacloprid	94.7		P	40 - 150
Linuron	76.0		P	40 - 150
Mandestrobin	96.6		P	40 - 150
MCPP	92.2		P	40 - 150
Naproxen	60.9		P	40 - 150
Primidone	118		P	40 - 150
Pyraclostrobin	79.5		P	40 - 150
Silvex	69.8		P	40 - 150
Thiamethoxam	91.1		P	40 - 150
Tolfenpyrad	59.2		P	30 - 150
Triclopyr	75.3		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P409433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.6		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P409434

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.6		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P409436

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.7		P	93 - 104

Reference Method: SM 4500 F-C-2011
Batch ID: P409437

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P409975

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

Reference Method: SM 5310 B-2011
Batch ID: P410104

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409477

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302705	Chloride	92.6		P	90 - 110
2302862	Chloride	94.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409479

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302705	Sulfate	94.5		P	90 - 110
2302862	Sulfate	94.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409634

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2301967	Ammonia-N	97.8	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409637

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302706	Ammonia-N	96.8	95.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409355

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302703	Kjeldahl Nitrogen	92.9	96.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409319

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302359	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409515

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302669	NO2NO3-N	100	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409294

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302359	Total-P	92.6	92.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302718	Total-P	105	106	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409261

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302754	O-Phosphate-P	97.8	98.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409262

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302745	O-Phosphate-P	96.8	99.3	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P409131

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302159	Acesulfame K	111	114	P/P	40 - 150
2302159	AMPA	90.2	101	P/P	40 - 150
2302159	Endothall	145	157	P/F	40 - 150
2302159	Glufosinate	91.2	89.6	P/P	40 - 150
2302159	Glyphosate	70.5	77.8	P/P	40 - 150
2302159	Sucralose	107	112	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P409301

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302437	2,4-D	96.7	108	P/P	40 - 150
2302437	2,4,5-T	77.3	77.0	P/P	40 - 150
2302437	Acetaminophen	93.1	103	P/P	30 - 150
2302437	Acetamiprid	95.7	94.3	P/P	40 - 150
2302437	Afidopyropen	37.0	46.4	F/P	40 - 150
2302437	Bentazon	62.6	66.8	P/P	30 - 150
2302437	Benzovindiflupyr	76.4	95.6	P/P	40 - 150
2302437	Carbamazepine	88.4	89.6	P/P	40 - 150
2302437	Clothianidin	91.2	103	P/P	40 - 150
2302437	Dinotefuran	109	116	P/P	40 - 150
2302437	Diuron	72.3	90.8	P/P	40 - 150
2302437	Fenuron	83.6	91.1	P/P	40 - 150
2302437	Fluridone	78.6	88.9	P/P	40 - 150
2302437	Hydrocodone	89.3	75.4	P/P	40 - 150
2302437	Ibuprofen	68.3	72.9	P/P	40 - 150
2302437	Imazapyr	80.1	89.8	P/P	40 - 150
2302437	Imidacloprid	140	148	P/P	40 - 150
2302437	Linuron	83.3	81.3	P/P	40 - 150
2302437	Mandestrobin	88.5	92.8	P/P	40 - 150
2302437	MCPP	87.2	115	P/P	40 - 150
2302437	Naproxen	78.5	73.3	P/P	40 - 150
2302437	Primidone	108	109	P/P	40 - 150
2302437	Pyraclostrobin	80.8	91.6	P/P	40 - 150
2302437	Silvex	67.1	76.3	P/P	40 - 150
2302437	Thiamethoxam	105	115	P/P	40 - 150
2302437	Tolfenpyrad	43.9	50.5	P/P	30 - 150
2302437	Triclopyr	77.0	70.7	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P409436

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302600	Fluoride	99.2	98.5	P/P	92 - 107

Reference Method: SM 4500 F-C-2011
Batch ID: P409437

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302260	Fluoride	97.7	98.3	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P409975

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302623	Organic Carbon	97.6	94.9	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P410104

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2302353	Organic Carbon	89.0	90.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P409259

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302728	Color (true)	2.03	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409273

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302628	Turbidity	1.93	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409477

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302705	Chloride	0.974	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409479

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302705	Sulfate	1.26	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409634

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2301967	Ammonia-N	0.716	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409637

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302706	Ammonia-N	0.965	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302753	Kjeldahl Nitrogen	3.87	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409355

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302703	Kjeldahl Nitrogen	3.56	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P409319

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302359	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P409515

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302669	NO2NO3-N	0.434	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409294

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302359	Total-P	0.0810	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P409296

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302718	Total-P	0.200	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409261

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302754	O-Phosphate-P	0.683	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409262

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302745	O-Phosphate-P	2.00	Spike	P	0 - 20

Reference Method: EPA 8321B

Batch ID: P409131

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302159	Acesulfame K	3.32	Spike	P	0 - 30
2302159	AMPA	11.1	Spike	P	0 - 30
2302159	Endothall	8.15	Spike	P	0 - 30
2302159	Glufosinate	1.73	Spike	P	0 - 30
2302159	Glyphosate	9.89	Spike	P	0 - 30
2302159	Sucralose	4.04	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P409301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302437	2,4-D	7.92	Spike	P	0 - 30
2302437	2,4,5-T	0.436	Spike	P	0 - 30
2302437	Acetaminophen	10.1	Spike	P	0 - 30
2302437	Acetamiprid	1.43	Spike	P	0 - 30
2302437	Afidopyropen	22.6	Spike	P	0 - 30
2302437	Bentazon	3.89	Spike	P	0 - 30
2302437	Benzovindiflupyr	22.3	Spike	P	0 - 30
2302437	Carbamazepine	1.35	Spike	P	0 - 30
2302437	Clothianidin	11.8	Spike	P	0 - 30
2302437	Dinotefuran	5.57	Spike	P	0 - 30
2302437	Diuron	22.7	Spike	P	0 - 30
2302437	Fenuron	8.58	Spike	P	0 - 30
2302437	Fluridone	12.4	Spike	P	0 - 30
2302437	Hydrocodone	16.9	Spike	P	0 - 30
2302437	Ibuprofen	6.48	Spike	P	0 - 30
2302437	Imazapyr	8.12	Spike	P	0 - 30
2302437	Imidacloprid	5.35	Spike	P	0 - 30
2302437	Linuron	2.43	Spike	P	0 - 30
2302437	Mandestrobin	4.81	Spike	P	0 - 30
2302437	MCP	27.2	Spike	P	0 - 30
2302437	Naproxen	6.88	Spike	P	0 - 30
2302437	Primidone	0.580	Spike	P	0 - 30
2302437	Pyraclostrobin	12.4	Spike	P	0 - 30
2302437	Silvex	12.8	Spike	P	0 - 30
2302437	Thiamethoxam	7.81	Spike	P	0 - 30
2302437	Tolfenpyrad	14.1	Spike	P	0 - 30
2302437	Triclopyr	8.55	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P409433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302600	Total Alkalinity	0.518	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P409434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302260	Total Alkalinity	1.34	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P409805

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302705	TDS	2.61	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-2011
Batch ID: P409436

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302600	Fluoride	0.480	Spike	P	0 - 2.1

Reference Method: SM 4500 F-C-2011
Batch ID: P409437

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302260	Fluoride	0.480	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P409975

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302623	Organic Carbon	2.02	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P410104

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2302353	Organic Carbon	1.12	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2302716

Field Sample ID: 27010078

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	97.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	125	P	30 - 160
EPA 8321B	Carbamazepine-d10	95.5	P	30 - 160
EPA 8321B	Diuron-d6	78.5	P	30 - 160
EPA 8321B	Endothall-d6	137	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	66.3	P	30 - 160
EPA 8321B	Primidone-d5	88.1	P	30 - 160
EPA 8321B	Sucralose-d6	80.6	P	30 - 160

Lab Sample ID: 2302717

Field Sample ID: 27010079

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	106	P	30 - 160
EPA 8321B	Acetaminophen-d4	120	P	30 - 160
EPA 8321B	Carbamazepine-d10	96.0	P	30 - 160
EPA 8321B	Diuron-d6	82.4	P	30 - 160
EPA 8321B	Endothall-d6	117	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	89.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	70.3	P	30 - 160
EPA 8321B	Primidone-d5	88.7	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A110150

Included Lab Sample IDs: 2302705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	101	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110151

Included Lab Sample IDs: 2302704, 2302707

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	100	P/P	90 - 110
O-Phosphate-P	99.9	99.1	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110154

Included Lab Sample IDs: 2302705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.1	98.6	P/P	90 - 110
Sulfate	98.6	98.0	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110157

Included Lab Sample IDs: 2302702, 2302705

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110171

Included Lab Sample IDs: 2302703

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

Reference Method: EPA 8321B

Run ID: A110183

Included Lab Sample IDs: 2302716, 2302717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	76.2	83.3	P/P	60 - 160
Acesulfame K	83.3	90.8	P/P	60 - 160
AMPA	89.3	96.0	P/P	60 - 160
AMPA	96.0	95.0	P/P	60 - 160
Endothall	90.4	92.5	P/P	60 - 160
Endothall	92.5	86.1	P/P	60 - 160
Glufosinate	92.0	88.9	P/P	60 - 160
Glufosinate	93.4	92.0	P/P	60 - 160
Glyphosate	78.5	88.7	P/P	60 - 160
Glyphosate	88.7	84.2	P/P	60 - 160
Sucralose	78.7	88.5	P/P	60 - 160
Sucralose	88.5	90.1	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A110225

Included Lab Sample IDs: 2302702, 2302705

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.4	95.7	P/P	90 - 110
Total Alkalinity	98.3	97.5	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110225

Included Lab Sample IDs: 2302702, 2302705

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110238

Included Lab Sample IDs: 2302706

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	104	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A110243

Included Lab Sample IDs: 2302716, 2302717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	111	106	P/P	50 - 150
2,4,5-T	103	100	P/P	50 - 150
Acetaminophen	109	109	P/P	60 - 160
Acetamiprid	103	112	P/P	50 - 150
Afidopyropen	98.2	100	P/P	50 - 150
Bentazon	85.4	105	P/P	50 - 160
Benzovindiflupyr	104	108	P/P	50 - 150
Carbamazepine	95.0	97.0	P/P	60 - 150
Clothianidin	89.8	117	P/P	60 - 150
Dinotefuran	100	104	P/P	50 - 150
Diuron	113	105	P/P	60 - 160
Fenuron	99.7	104	P/P	60 - 150
Fluridone	105	103	P/P	60 - 160
Hydrocodone	102	102	P/P	60 - 150
Ibuprofen	111	61.8	P/P	50 - 160
Imazapyr	107	83.1	P/P	50 - 150
Imidacloprid	93.5	94.2	P/P	60 - 150
Linuron	87.5	91.9	P/P	60 - 150
Mandestrobin	106	106	P/P	50 - 150
MCPP	92.2	82.0	P/P	50 - 150
Naproxen	125	89.6	P/P	50 - 160
Primidone	69.1	115	P/P	60 - 150
Pyraclostrobin	95.4	92.9	P/P	60 - 150
Silvex	107	103	P/P	50 - 150
Thiamethoxam	106	106	P/P	50 - 150
Tolfenpyrad	114	101	P/P	60 - 150
Triclopyr	93.3	89.3	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110264

Included Lab Sample IDs: 2302706

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110265

Included Lab Sample IDs: 2302703, 2302706

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110277

Included Lab Sample IDs: 2302703

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110313

Included Lab Sample IDs: 2302703, 2302706

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	94.4	94.7	P/P	90 - 110
Ammonia-N	98.8	97.3	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A110463

Included Lab Sample IDs: 2302706

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.4	91.7	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A110510

Included Lab Sample IDs: 2302703

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.4	93.0	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	MS
DEP SOP: NU-094-1	Color (true)	99.7			2.03	
EPA 180.1 Rev. 2.0	Turbidity	95.9			1.93	
EPA 300.0 Rev. 2.1	Chloride	99.1	92.6	94.5	0.974	
	Sulfate	96.9	94.5	94.5	1.26	
EPA 350.1 Rev. 2.0	Ammonia-N	95.0	97.8	99.0		0.716
	Ammonia-N	90.6	95.2	96.8		0.965
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.0				3.87
	Kjeldahl Nitrogen	101	92.9	96.8		3.56
EPA 353.2 Rev. 2.0	NO2NO3-N	100	102	102		0.0
	NO2NO3-N	100	100	99.6		0.434
EPA 365.1 Rev. 2.0	Total-P	102	92.6	92.6		0.0810
	Total-P	104	105	106		0.200
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.8	97.8	98.8		0.683
	O-Phosphate-P	102	96.8	99.3		2.00
EPA 8321B	2,4-D	91.8	96.7	108		7.92
	2,4,5-T	73.8	77.3	77.0		0.436
	Acesulfame K	75.4	111	114		3.32
	Acetaminophen	87.0	93.1	103		10.1
	Acetamiprid	94.5	95.7	94.3		1.43
	Afidopyropen	75.7	37.0	46.4		22.6
	AMPA	104	90.2	101		11.1
	Bentazon	101	62.6	66.8		3.89
	Benzovindiflupyr	85.1	76.4	95.6		22.3
	Carbamazepine	84.1	88.4	89.6		1.35
	Clothianidin	86.7	91.2	103		11.8
	Dinotefuran	90.6	109	116		5.57
	Diuron	102	72.3	90.8		22.7
	Endothall	97.4	145	157		8.15
	Fenuron	94.9	83.6	91.1		8.58
	Fluridone	88.9	78.6	88.9		12.4
	Glufosinate	92.0	91.2	89.6		1.73
	Glyphosate	87.3	70.5	77.8		9.89
	Hydrocodone	93.5	89.3	75.4		16.9
	Ibuprofen	80.5	68.3	72.9		6.48
	Imazapyr	96.2	80.1	89.8		8.12
	Imidacloprid	94.7	140	148		5.35
	Linuron	76.0	83.3	81.3		2.43
	Mandestrobin	96.6	88.5	92.8		4.81
	MCPP	92.2	87.2	115		27.2
	Naproxen	60.9	78.5	73.3		6.88
	Primidone	118	108	109		0.580
	Pyraclostrobin	79.5	80.8	91.6		12.4
	Silvex	69.8	67.1	76.3		12.8
	Sucralose	95.1	107	112		4.04
	Thiamethoxam	91.1	105	115		7.81
	Tolfenpyrad	59.2	43.9	50.5		14.1
	Triclopyr	75.3	77.0	70.7		8.55
SM 2320 B-2011	Total Alkalinity	98.6			0.518	
	Total Alkalinity	99.6			1.34	
SM 2540 C-2011	TDS				2.61	
SM 4500 F-C-2011	Fluoride	97.7	99.2	98.5		0.480
	Fluoride	98.2	97.7	98.3		0.480
SM 5310 B-2011	Organic Carbon	96.4	97.6	94.9		2.02
	Organic Carbon	94.5	89.0	90.2		1.12

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2302705
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2302702, 2302705
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2302705
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2302705
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2302703, 2302706
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2302703, 2302706
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2302703, 2302706
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2302703, 2302706
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2302704, 2302707
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2302716, 2302717
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2302702, 2302705
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2302705
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2302702, 2302705
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2302702, 2302705
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2302703, 2302706

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	02/01/2022			02/01/2022 15:06	Samantha L Bates	2302705
EPA 180.1 Rev. 2.0	02/01/2022			02/01/2022 15:26	Sarah A Nixon	2302702
	02/01/2022			02/01/2022 15:29	Sarah A Nixon	2302705
EPA 300.0 Rev. 2.1	02/01/2022			02/04/2022 13:13	James L Waggeberby	2302705
EPA 350.1 Rev. 2.0	02/01/2022			02/09/2022 11:47	Roberta Tatti	2302703
	02/01/2022			02/09/2022 14:50	Roberta Tatti	2302706
EPA 351.2 Rev. 2.0	02/01/2022	02/03/2022 10:35	Samantha L Bates	02/04/2022 13:03	Alexandra J Mattheus	2302706
	02/01/2022	02/03/2022 10:45	Samantha L Bates	02/04/2022 13:29	Alexandra J Mattheus	2302703
EPA 353.2 Rev. 2.0	02/01/2022			02/02/2022 10:44	Beverly Y. Sanders	2302703
	02/01/2022			02/07/2022 10:15	Beverly Y. Sanders	2302706
EPA 365.1 Rev. 2.0	02/01/2022	02/03/2022 14:00	Simonne.V. Calhoun	02/04/2022 11:32	Shengyu Ding	2302706
	02/01/2022	02/03/2022 14:00	Simonne.V. Calhoun	02/07/2022 14:01	Shengyu Ding	2302703
EPA 365.1 Rev. 2.0 dissolved	02/01/2022			02/01/2022 14:40	James L Waggeberby	2302707
	02/01/2022			02/01/2022 14:59	James L Waggeberby	2302704
EPA 8321B	02/01/2022	02/01/2022 12:00	Manjita Shrestha	02/01/2022 16:10	Manjita Shrestha	2302716
	02/01/2022	02/01/2022 12:00	Manjita Shrestha	02/01/2022 16:39	Manjita Shrestha	2302717
	02/01/2022	02/01/2022 12:00	Manjita Shrestha	02/01/2022 23:12	Manjita Shrestha	2302716
	02/01/2022	02/01/2022 12:00	Manjita Shrestha	02/02/2022 00:48	Manjita Shrestha	2302717
	02/01/2022	02/03/2022 08:55	Hoor Shaik	02/04/2022 01:13	Juyoung Kim	2302716
	02/01/2022	02/03/2022 08:55	Hoor Shaik	02/04/2022 01:48	Juyoung Kim	2302717
SM 2320 B-2011	02/01/2022			02/04/2022 01:37	Dale L. Simmons	2302705
	02/01/2022			02/04/2022 06:33	Dale L. Simmons	2302702
SM 2540 C-2011	02/01/2022			02/04/2022 14:55	Yijie Li	2302705
SM 2540 D-2011	02/01/2022			02/04/2022 14:55	Yijie Li	2302702, 2302705
SM 4500 F-C-2011	02/01/2022			02/04/2022 01:37	Dale L. Simmons	2302705
	02/01/2022			02/04/2022 04:26	Dale L. Simmons	2302702
SM 5310 B-2011	02/01/2022			02/16/2022 12:10	Nathaniel J Jones	2302706
	02/01/2022			02/19/2022 09:21	Khloe J Berg	2302703