Chemical Analysis Report

NE-DIST-2022-03-30-01

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-2022-03-28-13**
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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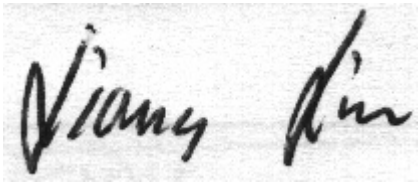
Certified by: Liang Lin, Environmental Administrator

Date Certified: 27-APR-2022 13:47



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 10M N Eagles Nest Rd approx. 0.5mi E US1 **Collection Date/Time: 03/29/2022 13:25**

Field ID: 27010078 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315335	DEP SOP: NU-094-1	Color (true)**	780		PCU	P411757	
	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P411772	
	EPA 300.0 Rev. 2.1	Chloride	43		mg Cl/L	P411906	
		Sulfate	1.2		mg SO4/L	P411909	
	SM 2320 B-2011	Total Alkalinity	15		mg CaCO3/L	P411967	
	SM 2540 C-2011	TDS	218		mg/L	P412029	
	SM 2540 D-2011	TSS	2	I	mg/L	P411901	
	SM 4500-F- C-2011	Fluoride	0.056	I	mg F/L	P411971	
2315336	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P411976	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7	J	mg N/L	P412172	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P411799	
	EPA 365.1 Rev. 2.0	Total-P	0.043		mg P/L	P411938	
	SM 5310 B-2011	Organic Carbon	59		mg C/L	P411832	
2315345	EPA 8321B	2,4-D	0.0020	U	ug/L	P411856	
		Acesulfame K	0.10	U	ug/L	P411836	
		2,4,5-T	0.0040	U	ug/L	P411856	
		AMPA	0.10	U	ug/L	P411836	
		Acetaminophen	0.0080	U	ug/L	P411856	
		Acetamiprid	0.0020	U	ug/L	P411856	
		Endothall	0.25	U	ug/L	P411836	
		Glufosinate	0.10	U	ug/L	P411836	
		Glyphosate	0.10	U	ug/L	P411836	
		Afidopyropen	0.0020	U	ug/L	P411856	
		Bentazon	8.0E-04	U	ug/L	P411856	
		Sucralose	0.010	U	ug/L	P411836	
		Benzovindiflupyr	0.0020	U	ug/L	P411856	
		Carbamazepine	8.0E-04	U	ug/L	P411856	
		Clothianidin	0.0020	U	ug/L	P411856	
		Dinotefuran	0.0020	U	ug/L	P411856	
		Diuron	0.0020	U	ug/L	P411856	
		Fenuron	0.016	U	ug/L	P411856	
		Fluridone	8.0E-04	U	ug/L	P411856	
		Imazapyr	0.020		ug/L	P411856	
		Hydrocodone	0.0020	U	ug/L	P411856	
		Ibuprofen	0.020	U	ug/L	P411856	
		Imidacloprid	0.0020	U	ug/L	P411856	
		Linuron	0.0040	U	ug/L	P411856	
		Mandestrobin	0.0020	U	ug/L	P411856	
		MCPP	0.0020	U	ug/L	P411856	
		Naproxen	0.0080	U	ug/L	P411856	
		Primidone	0.0040	U	ug/L	P411856	RPD
		Pyraclostrobin	0.0020	U	ug/L	P411856	
		Silvex	0.0040	U	ug/L	P411856	

Field ID: 27010078 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315345	EPA 8321B	Thiamethoxam	0.0020	U	ug/L	P411856	
		Tolfenpyrad	0.0020	U	ug/L	P411856	
		Triclopyr	0.0040	U	ug/L	P411856	

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: Result may be biased because of particulate matter in sample.

Sample Location: Unnamed Drain @ Eagles Nest Rd **Collection Date/Time: 03/29/2022 13:40**

Field ID: 27010079 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315346	EPA 8321B	2,4-D	0.0020	U	ug/L	P411856	
		Acesulfame K	0.10	U	ug/L	P411836	
		2,4,5-T	0.0040	U	ug/L	P411856	
		AMPA	0.10	U	ug/L	P411836	
		Acetaminophen	0.0080	U	ug/L	P411856	
		Acetamiprid	0.0020	U	ug/L	P411856	
		Endothall	0.25	U	ug/L	P411836	
		Glufosinate	0.10	U	ug/L	P411836	
		Glyphosate	0.10	U	ug/L	P411836	
		Afidopyropen	0.0020	U	ug/L	P411856	
		Bentazon	8.0E-04	U	ug/L	P411856	
		Sucralose	0.017	I	ug/L	P411836	
		Benzovindiflupyr	0.0020	U	ug/L	P411856	
		Carbamazepine	8.0E-04	U	ug/L	P411856	
		Clothianidin	0.0020	U	ug/L	P411856	
		Dinotefuran	0.0020	U	ug/L	P411856	
		Diuron	0.0020	U	ug/L	P411856	
		Fenuron	0.016	U	ug/L	P411856	
		Fluridone	8.0E-04	U	ug/L	P411856	
		Imazapyr	0.018		ug/L	P411856	
		Hydrocodone	0.0020	U	ug/L	P411856	
		Ibuprofen	0.020	U	ug/L	P411856	
		Imidacloprid	0.0020	U	ug/L	P411856	
		Linuron	0.0040	U	ug/L	P411856	
		Mandestrobin	0.0020	U	ug/L	P411856	
		MCPP	0.0020	U	ug/L	P411856	
		Naproxen	0.0080	U	ug/L	P411856	
		Primidone	0.0040	U	ug/L	P411856	RPD
		Pyraclostrobin	0.0020	U	ug/L	P411856	
		Silvex	0.0040	U	ug/L	P411856	
		Thiamethoxam	0.0020	U	ug/L	P411856	
		Tolfenpyrad	0.0020	U	ug/L	P411856	
		Triclopyr	0.0040	U	ug/L	P411856	

Sample Location: Unnamed Drain South Entrance **Collection Date/Time: 03/29/2022 12:00**

Field ID: G5NE0591 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315333	EPA 180.1 Rev. 2.0	Turbidity	9.9	A	NTU	P411772	
	SM 2320 B-2011	Total Alkalinity	116		mg CaCO3/L	P412056	
	SM 2540 D-2011	TSS	16		mg/L	P411894	
	SM 4500-F- C-2011	Fluoride	1.1		mg F/L	P412058	
2315334	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P411977	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.34	I	mg N/L	P412166	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P411829	
	EPA 365.1 Rev. 2.0	Total-P	0.057		mg P/L	P411947	
	SM 5310 B-2011	Organic Carbon	6.5		mg C/L	P412109	

Ref. Method and Comment:
SM 2540 D-2011: 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: P411757

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P411772

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411906

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411909

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411976

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411977

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412166

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412172

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411799

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: P411829

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411938

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411947

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

Reference Method: EPA 8321B
Batch ID: P411836

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: P411856

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	0.016	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	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P411856

Component	Result	Code	Units
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P411967

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

Reference Method: SM 2320 B-2011
Batch ID: P412056

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

Reference Method: SM 2540 C-2011
Batch ID: P412029

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P411894

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P411901

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P411971

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P412058

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P411832

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P412109

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: P411757

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P411772

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411906

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411909

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411976

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411977

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412166

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: P412172

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411799

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411829

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411938

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411947

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

Reference Method: EPA 8321B
Batch ID: P411836

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	79.5		P	40 - 150
AMPA	122		P	40 - 150
Endothall	65.7		P	40 - 150
Glufosinate	108		P	40 - 150
Glyphosate	120		P	40 - 150
Sucralose	88.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P411856

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	65.5		P	30 - 160
2,4,5-T	56.7		P	30 - 160
Acetaminophen	57.6		P	30 - 150
Acetamiprid	85.4		P	30 - 160
Afidopyropen	50.0		P	30 - 160
Bentazon	132		P	30 - 150
Benzovindiflupyr	83.3		P	30 - 160
Carbamazepine	77.8		P	30 - 160
Clothianidin	96.5		P	30 - 160
Dinotefuran	85.7		P	30 - 160
Diuron	75.6		P	30 - 160
Fenuron	117		P	30 - 160
Fluridone	77.6		P	30 - 160
Hydrocodone	89.3		P	30 - 160
Ibuprofen	80.7		P	30 - 160
Imazapyr	92.7		P	30 - 160
Imidacloprid	97.4		P	30 - 160
Linuron	63.1		P	30 - 160
Mandestrobin	82.6		P	30 - 160
MCPP	74.2		P	30 - 160
Naproxen	52.2		P	30 - 160
Primidone	101		P	30 - 160
Pyraclostrobin	73.1		P	30 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P411856

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Silvex	52.8		P	30 - 160
Thiamethoxam	85.0		P	30 - 160
Tolfenpyrad	49.2		P	30 - 160
Triclopyr	57.9		P	30 - 160

Reference Method: SM 2320 B-2011
Batch ID: P411967

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

Reference Method: SM 2320 B-2011
Batch ID: P412056

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.1		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P411971

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	93 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P412058

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.9		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P411832

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.2		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P412109

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.0		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315182	Chloride	99.8		P	90 - 110
2315234	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411909

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315182	Sulfate	98.2		P	90 - 110
2315234	Sulfate	97.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411976

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315408	Ammonia-N	96.8	98.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411977

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315618	Ammonia-N	101	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412166

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315013	Kjeldahl Nitrogen	103	96.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412172

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315207	Kjeldahl Nitrogen	93.7	93.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411799

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315351	NO2NO3-N	97.5	97.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411829

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315012	NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411938

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315351	Total-P	104	104	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411947

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315014	Total-P	93.7	93.4	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P411836

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315345	Acesulfame K	125	120	P/P	40 - 150
2315345	AMPA	86.9	109	P/P	40 - 150
2315345	Endothall	87.6	86.5	P/P	40 - 150
2315345	Glufosinate	98.7	112	P/P	40 - 150
2315345	Glyphosate	77.4	86.5	P/P	40 - 150
2315345	Sucralose	96.1	90.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P411856

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315310	2,4-D	71.1	73.6	P/P	30 - 160
2315310	2,4,5-T	60.7	56.7	P/P	30 - 160
2315310	Acetaminophen	96.2	92.4	P/P	30 - 150
2315310	Acetamiprid	87.8	103	P/P	30 - 160
2315310	Afidopyropen	61.1	69.5	P/P	30 - 160
2315310	Bentazon	108	124	P/P	30 - 150
2315310	Benzovindiflupyr	81.0	86.5	P/P	30 - 160
2315310	Carbamazepine	92.8	92.6	P/P	30 - 160
2315310	Clothianidin	106	111	P/P	30 - 160
2315310	Dinotefuran	109	115	P/P	30 - 160
2315310	Diuron	69.9	82.1	P/P	30 - 160
2315310	Fenuron	117	126	P/P	30 - 160
2315310	Fluridone	74.7	80.3	P/P	30 - 160
2315310	Hydrocodone	95.7	113	P/P	30 - 160
2315310	Ibuprofen	48.2	48.1	P/P	30 - 160
2315310	Imazapyr	82.7	105	P/P	30 - 160
2315310	Imidacloprid	101	123	P/P	30 - 160
2315310	Linuron	75.8	81.4	P/P	30 - 160
2315310	Mandestrobin	82.5	90.0	P/P	30 - 160
2315310	MCPP	79.6	80.9	P/P	30 - 160
2315310	Naproxen	66.2	63.1	P/P	30 - 160
2315310	Primidone	66.6	123	P/P	30 - 160
2315310	Pyraclostrobin	72.4	77.3	P/P	30 - 160
2315310	Silvex	58.0	61.7	P/P	30 - 160
2315310	Thiamethoxam	100	124	P/P	30 - 160
2315310	Tolfenpyrad	46.2	38.0	P/P	30 - 160
2315310	Triclopyr	66.6	71.9	P/P	30 - 160

Reference Method: SM 4500-F- C-2011
Batch ID: P411971

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315236	Fluoride	100	99.9	P/P	92 - 107

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P412058

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315608	Fluoride	93.4	95.6	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P411832

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315351	Organic Carbon	92.9	90.0	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P412109

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315572	Organic Carbon	94.1	97.0	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P411757

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315446	Color (true)	0.152	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P411772

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315333	Turbidity	1.41	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315182	Chloride	0.973	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315182	Sulfate	1.17	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411976

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315408	Ammonia-N	1.85	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411977

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315618	Ammonia-N	1.66	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412166

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315013	Kjeldahl Nitrogen	5.83	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412172

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315207	Kjeldahl Nitrogen	0.491	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411799

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315351	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315012	NO2NO3-N	1.43	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411938

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315351	Total-P	0.317	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411947

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315014	Total-P	0.240	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P411836

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315345	Acesulfame K	4.09	Spike	P	0 - 30
2315345	AMPA	22.9	Spike	P	0 - 30
2315345	Endothall	1.27	Spike	P	0 - 30
2315345	Glufosinate	12.6	Spike	P	0 - 30
2315345	Glyphosate	11.1	Spike	P	0 - 30
2315345	Sucralose	5.56	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P411856

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315310	2,4-D	3.28	Spike	P	0 - 30
2315310	2,4,5-T	6.77	Spike	P	0 - 30
2315310	Acetaminophen	3.96	Spike	P	0 - 30
2315310	Acetamiprid	15.6	Spike	P	0 - 30
2315310	Afidopyropen	12.9	Spike	P	0 - 30
2315310	Bentazon	6.07	Spike	P	0 - 30
2315310	Benzovindiflupyr	6.58	Spike	P	0 - 30
2315310	Carbamazepine	0.0807	Spike	P	0 - 30
2315310	Clothianidin	4.93	Spike	P	0 - 30
2315310	Dinotefuran	4.83	Spike	P	0 - 30
2315310	Diuron	14.6	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P411856

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315310	Fenuron	7.30	Spike	P	0 - 30
2315310	Fluridone	6.41	Spike	P	0 - 30
2315310	Hydrocodone	16.7	Spike	P	0 - 30
2315310	Ibuprofen	0.364	Spike	P	0 - 30
2315310	Imazapyr	20.7	Spike	P	0 - 30
2315310	Imidacloprid	18.9	Spike	P	0 - 30
2315310	Linuron	7.14	Spike	P	0 - 30
2315310	Mandestrobin	8.62	Spike	P	0 - 30
2315310	MCPP	1.69	Spike	P	0 - 30
2315310	Naproxen	4.70	Spike	P	0 - 30
2315310	Primidone	34.6	Spike	F	0 - 30
2315310	Pyraclostrobin	6.48	Spike	P	0 - 30
2315310	Silvex	6.03	Spike	P	0 - 30
2315310	Thiamethoxam	21.0	Spike	P	0 - 30
2315310	Tolfenpyrad	19.5	Spike	P	0 - 30
2315310	Triclopyr	7.71	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P411967

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315236	Total Alkalinity	0.837	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P412056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315608	Total Alkalinity	1.38	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P412029

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315350	TDS	0.523	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P411971

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315236	Fluoride	0.483	Spike	P	0 - 2.1

Reference Method: SM 4500-F- C-2011
Batch ID: P412058

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315608	Fluoride	1.50	Spike	P	0 - 2.1

Quality Assurance Report
Precision

Reference Method: SM 5310 B-2011
Batch ID: P411832

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315351	Organic Carbon	1.53	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P412109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315572	Organic Carbon	2.50	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2315345
Field Sample ID: 27010078

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	97.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	108	P	30 - 160
EPA 8321B	Carbamazepine-d10	82.8	P	30 - 160
EPA 8321B	Diuron-d6	50.9	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	86.8	P	30 - 160
EPA 8321B	Primidone-d5	96.3	P	30 - 160
EPA 8321B	Sucralose-d6	118	P	30 - 160

Lab Sample ID: 2315346
Field Sample ID: 27010079

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	91.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	109	P	30 - 160
EPA 8321B	Carbamazepine-d10	83.4	P	30 - 160
EPA 8321B	Diuron-d6	63.1	P	30 - 160
EPA 8321B	Endothall-d6	113	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	60.9	P	30 - 160
EPA 8321B	Primidone-d5	71.8	P	30 - 160
EPA 8321B	Sucralose-d6	116	P	30 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A111208
Included Lab Sample IDs: 2315335

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

Reference Method: DEP SOP: NU-094-1
Run ID: A111233
Included Lab Sample IDs: 2315335

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	103	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A111239
Included Lab Sample IDs: 2315333, 2315335

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A111245
Included Lab Sample IDs: 2315336

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.5	97.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A111259
Included Lab Sample IDs: 2315334

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

Reference Method: SM 5310 B-2011
Run ID: A111262
Included Lab Sample IDs: 2315336

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	98.6	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A111283
Included Lab Sample IDs: 2315345, 2315346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	107	111	P/P	60 - 160
Glufosinate	106	100	P/P	60 - 160
Glyphosate	123	104	P/P	60 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A111286
Included Lab Sample IDs: 2315345, 2315346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	94.9	102	P/P	60 - 160
Endothall	81.5	96.3	P/P	60 - 160
Sucralose	103	112	P/P	60 - 160

Reference Method: SM 2320 B-2011
Run ID: A111305
Included Lab Sample IDs: 2315335

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.3	97.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A111305
Included Lab Sample IDs: 2315335

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A111307
Included Lab Sample IDs: 2315334, 2315336

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A111344
Included Lab Sample IDs: 2315334

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

Reference Method: SM 2320 B-2011
Run ID: A111357
Included Lab Sample IDs: 2315333

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.4	98.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A111357
Included Lab Sample IDs: 2315333

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.0	99.5	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A111358
Included Lab Sample IDs: 2315345, 2315346

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	90.8	86.8	P/P	50 - 150
2,4,5-T	78.7	84.7	P/P	50 - 150
Acetaminophen	95.7	91.6	P/P	60 - 160
Acetamiprid	93.7	101	P/P	50 - 150
Afidopyropen	72.2	86.4	P/P	50 - 150
Bentazon	97.3	95.8	P/P	50 - 160
Benzovindiflupyr	79.1	93.5	P/P	50 - 160
Carbamazepine	92.7	94.7	P/P	60 - 150
Clothianidin	100	79.2	P/P	60 - 150
Dinotefuran	96.2	91.5	P/P	50 - 150
Diuron	91.8	103	P/P	60 - 160
Fenuron	92.0	94.3	P/P	60 - 150
Fluridone	89.8	90.5	P/P	60 - 160
Hydrocodone	87.3	84.3	P/P	60 - 150
Ibuprofen	91.9	85.7	P/P	50 - 160
Imazapyr	97.0	100	P/P	50 - 150
Imidacloprid	84.2	90.7	P/P	60 - 150
Linuron	105	108	P/P	60 - 150
Mandestrobin	90.2	94.9	P/P	50 - 150
MCPP	76.9	83.9	P/P	50 - 150
Naproxen	124	74.0	P/P	50 - 160
Primidone	104	133	P/P	60 - 150
Pyraclostrobin	92.5	96.8	P/P	60 - 150
Silvex	92.7	101	P/P	50 - 150
Thiamethoxam	94.2	86.7	P/P	50 - 150
Tolfenpyrad	102	104	P/P	60 - 150
Triclopyr	83.4	94.4	P/P	50 - 150

Reference Method: SM 5310 B-2011
Run ID: A111373
Included Lab Sample IDs: 2315334

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.4	96.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A111389
Included Lab Sample IDs: 2315336

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A111463
Included Lab Sample IDs: 2315334

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.6	107	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A111528
Included Lab Sample IDs: 2315336

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.4	98.0	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	SMP	MS
DEP SOP: NU-094-1	Color (true)	101				0.152	
EPA 180.1 Rev. 2.0	Turbidity	97.0				1.41	
EPA 300.0 Rev. 2.1	Chloride	101	99.8	100		0.973	
	Sulfate	99.1	98.2	97.1		1.17	
EPA 350.1 Rev. 2.0	Ammonia-N	96.0	96.8	98.8			1.85
	Ammonia-N	93.4	101	99.0			1.66
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	103	96.2			5.83
	Kjeldahl Nitrogen	97.5	93.7	93.2			0.491
EPA 353.2 Rev. 2.0	NO2NO3-N	98.0	97.5	97.5			0.0
	NO2NO3-N	99.5	100	102			1.43
EPA 365.1 Rev. 2.0	Total-P	103	104	104			0.317
	Total-P	102	93.7	93.4			0.240
EPA 8321B	2,4-D	65.5	71.1	73.6			3.28
	2,4,5-T	56.7	60.7	56.7			6.77
	Acesulfame K	79.5	125	120			4.09
	Acetaminophen	57.6	96.2	92.4			3.96
	Acetamiprid	85.4	87.8	103			15.6
	Afidopyropen	50.0	61.1	69.5			12.9
	AMPA	122	86.9	109			22.9
	Bentazon	132	108	124			6.07
	Benzovindiflupyr	83.3	81.0	86.5			6.58
	Carbamazepine	77.8	92.8	92.6			0.0807
	Clothianidin	96.5	106	111			4.93
	Dinotefuran	85.7	109	115			4.83
	Diuron	75.6	69.9	82.1			14.6
	Endothall	65.7	87.6	86.5			1.27
	Fenuron	117	117	126			7.30
	Fluridone	77.6	74.7	80.3			6.41
	Glufosinate	108	98.7	112			12.6
	Glyphosate	120	77.4	86.5			11.1
	Hydrocodone	89.3	95.7	113			16.7
	Ibuprofen	80.7	48.2	48.1			0.364
	Imazapyr	92.7	82.7	105			20.7
	Imidacloprid	97.4	101	123			18.9
	Linuron	63.1	75.8	81.4			7.14
	Mandestrobin	82.6	82.5	90.0			8.62
	MCPP	74.2	79.6	80.9			1.69
	Naproxen	52.2	66.2	63.1			4.70
	Primidone	101	66.6	123			34.6
	Pyraclostrobin	73.1	72.4	77.3			6.48
	Silvex	52.8	58.0	61.7			6.03
	Sucralose	88.3	96.1	90.9			5.56
	Thiamethoxam	85.0	100	124			21.0
	Tolfenpyrad	49.2	46.2	38.0			19.5
	Triclopyr	57.9	66.6	71.9			7.71
SM 2320 B-2011	Total Alkalinity	97.5				0.837	
	Total Alkalinity	98.1				1.38	
SM 2540 C-2011	TDS					0.523	
SM 4500-F- C-2011	Fluoride	101	100	99.9			0.483
	Fluoride	96.9	93.4	95.6			1.50
SM 5310 B-2011	Organic Carbon	94.2	92.9	90.0			1.53
	Organic Carbon	99.0	94.1	97.0			2.50

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2315335
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2315333, 2315335
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2315335
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2315335
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2315334, 2315336
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2315334, 2315336
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2315334, 2315336
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2315334, 2315336
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2315345, 2315346
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2315333, 2315335
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2315335
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2315333, 2315335
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2315333, 2315335
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2315334, 2315336

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	03/30/2022			03/30/2022 15:44	Samantha L Bates	2315335
EPA 180.1 Rev. 2.0	03/30/2022			03/30/2022 14:39	Anna M. Plaviak	2315333
	03/30/2022			03/30/2022 14:48	Anna M. Plaviak	2315335
EPA 300.0 Rev. 2.1	03/30/2022			04/01/2022 22:50	Anna M. Plaviak	2315335
EPA 350.1 Rev. 2.0	03/30/2022			04/05/2022 13:13	Ping Hua	2315334
	03/30/2022			04/05/2022 13:31	Ping Hua	2315336
EPA 351.2 Rev. 2.0	03/30/2022	04/12/2022 17:00	Samantha L Bates	04/18/2022 13:13	Alexandra J Mattheus	2315336
	03/30/2022	04/12/2022 17:06	Samantha L Bates	04/13/2022 14:43	Alexandra J Mattheus	2315334
EPA 353.2 Rev. 2.0	03/30/2022			03/31/2022 10:16	Beverly Y. Sanders	2315336
	03/30/2022			03/31/2022 17:00	Nathaniel J Jones	2315334
EPA 365.1 Rev. 2.0	03/30/2022	04/05/2022 17:35	Simonne.V. Calhoun	04/06/2022 15:17	James L Waggerby	2315334
	03/30/2022	04/07/2022 10:00	Simonne.V. Calhoun	04/08/2022 11:18	James L Waggerby	2315336
EPA 8321B	03/30/2022	04/01/2022 09:30	Umesh Chiluwal	04/01/2022 11:22	Manjita Shrestha	2315345
	03/30/2022	04/01/2022 09:30	Umesh Chiluwal	04/01/2022 11:35	Manjita Shrestha	2315346
	03/30/2022	04/01/2022 09:30	Umesh Chiluwal	04/01/2022 21:28	Manjita Shrestha	2315345
	03/30/2022	04/01/2022 09:30	Umesh Chiluwal	04/01/2022 21:43	Manjita Shrestha	2315346
	03/30/2022	04/04/2022 09:30	June Rhew	04/05/2022 01:32	Juyoung Kim	2315345
	03/30/2022	04/04/2022 09:30	June Rhew	04/05/2022 02:07	Juyoung Kim	2315346
SM 2320 B-2011	03/30/2022			04/02/2022 09:59	Dale L. Simmons	2315335
	03/30/2022			04/06/2022 21:46	Dale L. Simmons	2315333
SM 2540 C-2011	03/30/2022			03/31/2022 16:15	Simonne.V. Calhoun	2315335
SM 2540 D-2011	03/30/2022			03/31/2022 15:30	Blanca Fach	2315333
	03/30/2022			03/31/2022 16:15	Simonne.V. Calhoun	2315335
SM 4500-F- C-2011	03/30/2022			04/02/2022 09:59	Dale L. Simmons	2315335
	03/30/2022			04/06/2022 18:07	Dale L. Simmons	2315333
SM 5310 B-2011	03/30/2022			03/31/2022 20:54	Khloe J Berg	2315336
	03/30/2022			04/08/2022 02:22	Khloe J Berg	2315334