

Chemical Analysis Report

NW-DIST-2024-02-14-01

Florida DEP Laboratory
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DOH Accreditation E31780

Event Description: **Project Greenshores**
Request ID: **RQ-2024-02-05-32**
Customer: **NW-DIST**
Project ID: **DISTRICT**

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Certified by: Colin Wright, Program Administrator

Date Certified: 04-MAR-2024 14:26



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 group are included in this report: Nutrients.

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: Range Marker East of Bayou Texar

Collection Date/Time: 02/13/2024 10:26

Field ID: 1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468833	DEP SOP: NU-094-1	Color (true)	5.3	I	PCU	P441435	
	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P441439	
	SM 2540 D-2015	TSS	7	I	mg/L	P441903	
2468847	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P441507	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.25	I	mg N/L	P441539	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P441589	
	EPA 365.1 Rev. 2.0	Total-P	0.008	I	mg P/L	P441533	

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

Sample Location: Midpoint between Bay bridge and Muscogee Wharf

Collection Date/Time: 02/13/2024 10:38

Field ID: 2

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468834	DEP SOP: NU-094-1	Color (true)	5.9	I A	PCU	P441435	
	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P441439	
	SM 2540 D-2015	TSS	8	I	mg/L	P441903	
2468848	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P441511	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27	I	mg N/L	P441539	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.026		mg N/L	P441589	
	EPA 365.1 Rev. 2.0	Total-P	0.009	I	mg P/L	P441533	

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

Sample Location: East end of primary stormdrain

Collection Date/Time: 02/13/2024 10:47

Field ID: 3

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468835	DEP SOP: NU-094-1	Color (true)	4.6	I	PCU	P441435	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P441439	
	SM 2540 D-2015	TSS	9	I	mg/L	P441903	
2468849	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P441511	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.24	I	mg N/L	P441539	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	I	mg N/L	P441589	
	EPA 365.1 Rev. 2.0	Total-P	0.008	I	mg P/L	P441533	

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

Sample Location: South of primary stormdrain

Collection Date/Time: 02/13/2024 10:56

Field ID: 4

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468836	DEP SOP: NU-094-1	Color (true)	4.5	I	PCU	P441435	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P441439	
	SM 2540 D-2015	TSS	7	I	mg/L	P441903	
2468850	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P441511	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.28	I	mg N/L	P441539	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P441589	
	EPA 365.1 Rev. 2.0	Total-P	0.008	I	mg P/L	P441533	

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

Sample Location: End of Chase Street

Collection Date/Time: 02/13/2024 11:13

Field ID: 5

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468837	DEP SOP: NU-094-1	Color (true)	4.0	I	PCU	P441435	
	EPA 180.1 Rev. 2.0	Turbidity	1.0		NTU	P441439	
	SM 2540 D-2015	TSS	11		mg/L	P441903	
2468851	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P441511	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.29	I	mg N/L	P441557	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P441590	
	EPA 365.1 Rev. 2.0	Total-P	0.010		mg P/L	P441533	

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

Sample Location: Midpoint between Muscogee and Hawkshaw Collection Date/Time: 02/13/2024 11:20

Field ID: 6 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468838	DEP SOP: NU-094-1	Color (true)	4.0	I	PCU	P441435	
	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P441439	
	SM 2540 D-2015	TSS	9	I	mg/L	P441903	
2468852	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P441511	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.24	I	mg N/L	P441557	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	I	mg N/L	P441590	
	EPA 365.1 Rev. 2.0	Total-P	0.009	I	mg P/L	P441533	

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

Sample Location: Midpoint between Muscogee and Hawkshaw Collection Date/Time: 02/13/2024 11:23

Field ID: 6/Field Blank				Matrix: W-FIELD-BK			
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468861	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P441436	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P441440	
	SM 2540 D-2015	TSS	2	U	mg/L	P441901	
2468862	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P441578	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P441556	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P441518	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P441657	

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: Midpoint between bridge and port spoil pond

Collection Date/Time: 02/13/2024 11:33

Field ID: 7

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468839	DEP SOP: NU-094-1	Color (true)	4.3	I	PCU	P441436	
	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P441439	
	SM 2540 D-2015	TSS	12		mg/L	P441903	
2468853	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P441511	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26	I	mg N/L	P441557	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.015		mg N/L	P441590	
	EPA 365.1 Rev. 2.0	Total-P	0.006	I	mg P/L	P441533	

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: West of primary stormdrain

Collection Date/Time: 02/13/2024 11:02

Field ID: 8

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468840	DEP SOP: NU-094-1	Color (true)	3.4	I	PCU	P441436	
	EPA 180.1 Rev. 2.0	Turbidity	0.95	I	NTU	P441439	
	SM 2540 D-2015	TSS	10		mg/L	P441903	
2468854	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P441512	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.24	I	mg N/L	P441557	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.028		mg N/L	P441590	
	EPA 365.1 Rev. 2.0	Total-P	0.009	I	mg P/L	P441629	

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: West of Hawkshaw Lagoon

Collection Date/Time: 02/13/2024 12:03

Field ID: 9

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468841	DEP SOP: NU-094-1	Color (true)	3.0	I	PCU	P441436	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P441439	
	SM 2540 D-2015	TSS	8	I	mg/L	P441903	
2468855	EPA 350.1 Rev. 2.0	Ammonia-N	0.010		mg N/L	P441512	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.28	I	mg N/L	P441557	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.040		mg N/L	P441590	
	EPA 365.1 Rev. 2.0	Total-P	0.008	I	mg P/L	P441534	

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: South of Bayfront stormdrain

Collection Date/Time: 02/13/2024 11:56

Field ID: 10

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468842	DEP SOP: NU-094-1	Color (true)	3.6	I	PCU	P441436	
	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P441439	
	SM 2540 D-2015	TSS	13		mg/L	P441903	
2468856	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P441512	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23	I	mg N/L	P441557	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.015		mg N/L	P441590	
	EPA 365.1 Rev. 2.0	Total-P	0.009	I	mg P/L	P441534	

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: Seville Marina Inlet

Collection Date/Time: 02/13/2024 11:50

Field ID: 11

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468843	DEP SOP: NU-094-1	Color (true)	4.9	I	PCU	P441436	
	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P441440	
	SM 2540 D-2015	TSS	6	IA	mg/L	P441903	
2468857	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P441512	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27	I	mg N/L	P441557	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.052		mg N/L	P441590	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P441534	

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: East of Port Spoil pond

Collection Date/Time: 02/13/2024 11:39

Field ID: 12

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468844	DEP SOP: NU-094-1	Color (true)	4.9	I	PCU	P441436	
	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P441440	
	SM 2540 D-2015	TSS	10		mg/L	P441903	
2468858	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P441512	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27	I	mg N/L	P441557	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P441590	
	EPA 365.1 Rev. 2.0	Total-P	0.008	I	mg P/L	P441534	

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: Hawkshaw Lagoon at Memorial bridge

Collection Date/Time: 02/13/2024 12:20

Field ID: 13

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468845	DEP SOP: NU-094-1	Color (true)	10	A	PCU	P441436	
	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P441440	
	SM 2540 D-2015	TSS	10		mg/L	P441903	
2468859	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P441512	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.34	I	mg N/L	P441557	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P441590	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P441534	

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: 150ft. South of Hawkshaw Lagoon East stormdrain

Collection Date/Time: 02/13/2024 12:35

Field ID: 14

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468846	DEP SOP: NU-094-1	Color (true)	4.2	I	PCU	P441436	
	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P441440	
	SM 2540 D-2015	TSS	10	I	mg/L	P441903	
2468860	EPA 350.1 Rev. 2.0	Ammonia-N	0.009		mg N/L	P441512	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.33	I	mg N/L	P441557	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.018		mg N/L	P441590	
	EPA 365.1 Rev. 2.0	Total-P	0.014		mg P/L	P441534	

Ref. Method and Comment:
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: P441435

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P441436

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441439

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441440

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441507

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441511

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441512

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441578

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441539

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: P441556

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441557

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441518

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441589

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441590

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441533

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441534

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441629

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441657

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P441901

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P441903

Component	Result	Code	Units
TSS	3	U	mg/L

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P441435

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P441436

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.3		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441439

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441440

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441507

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441511

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441512

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441578

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441539

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.9		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441556

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441557

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441518

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441589

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: P441590

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: P441533

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441534

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441629

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441657

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2540 D-2015
Batch ID: P441901

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

Reference Method: SM 2540 D-2015
Batch ID: P441903

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

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441507

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468847	Ammonia-N	96.8	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468848	Ammonia-N	98.4	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441512

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468854	Ammonia-N	98.2	99.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441578

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468870	Ammonia-N	95.4	95.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441539

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468598	Kjeldahl Nitrogen	98.9	95.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441556

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468767	Kjeldahl Nitrogen	99.2	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441557

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468855	Kjeldahl Nitrogen	96.0	99.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441518

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2466919	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441589

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468551	NO2NO3-N	99.0	98.5	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441590

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468851	NO2NO3-N	100	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441533

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468847	Total-P	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441534

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468858	Total-P	101	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441629

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468854	Total-P	96.2	93.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441657

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468865	Total-P	103	103	P/P	90 - 110

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P441436

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468845	Color (true)	19.8	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441439

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468699	Turbidity	1.21	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P441440

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468863	Turbidity	15.2	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441507

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468847	Ammonia-N	0.979	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468848	Ammonia-N	0.575	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441512

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468854	Ammonia-N	1.13	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441578

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468870	Ammonia-N	0.156	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441539

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468598	Kjeldahl Nitrogen	3.04	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441556

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468767	Kjeldahl Nitrogen	2.44	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468855	Kjeldahl Nitrogen	3.43	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441518

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2466919	NO2NO3-N	0.471	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441589

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468551	NO2NO3-N	0.282	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441590

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468851	NO2NO3-N	0.471	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441533

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468847	Total-P	0.445	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441534

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468858	Total-P	0.422	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441629

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468854	Total-P	3.03	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441657

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468865	Total-P	0.303	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A124173

Included Lab Sample IDs: 2468833, 2468834, 2468835, 2468836, 2468837, 2468838, 2468839, 2468840, 2468841, 2468842, 2468843, 2468844, 2468845, 2468846, 2468861

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	92.3	101	P/P	90 - 110
Color (true)	99.5	92.3	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A124174

Included Lab Sample IDs: 2468833, 2468834, 2468835, 2468836, 2468837, 2468838, 2468839, 2468840, 2468841, 2468842, 2468843, 2468844, 2468845, 2468846, 2468861

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A124200

Included Lab Sample IDs: 2468847, 2468848, 2468849, 2468850, 2468851, 2468852, 2468853, 2468854, 2468855, 2468856, 2468857, 2468858, 2468859, 2468860

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	100	P/P	90 - 110
Ammonia-N	99.0	100	P/P	90 - 110
Ammonia-N	99.4	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A124204

Included Lab Sample IDs: 2468862

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	105	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A124224

Included Lab Sample IDs: 2468862

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.9	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A124227

Included Lab Sample IDs: 2468847, 2468848, 2468849, 2468850, 2468851, 2468852, 2468853, 2468854, 2468855, 2468856, 2468857, 2468858, 2468859, 2468860

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110
NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124246

Included Lab Sample IDs: 2468847, 2468848, 2468849, 2468850

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.8	98.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124250

Included Lab Sample IDs: 2468851, 2468852, 2468853, 2468854, 2468855, 2468856, 2468857, 2468858, 2468859, 2468860, 2468862

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	97.3	P/P	90 - 110
Kjeldahl Nitrogen	97.3	105	P/P	90 - 110
Kjeldahl Nitrogen	97.8	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124261

Included Lab Sample IDs: 2468847, 2468848, 2468849, 2468850, 2468851, 2468852, 2468853, 2468855, 2468856, 2468857, 2468858, 2468859, 2468860

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.2	99.5	P/P	90 - 110
Total-P	98.5	98.2	P/P	90 - 110
Total-P	98.5	99.2	P/P	90 - 110
Total-P	99.5	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124275

Included Lab Sample IDs: 2468854, 2468862

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	97.0	P/P	90 - 110
Total-P	99.8	98.2	P/P	90 - 110

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	99.8					
	Color (true)	99.3				19.8	
EPA 180.1 Rev. 2.0	Turbidity	104				1.21	
	Turbidity	104				15.2	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	96.8	97.8			0.979
	Ammonia-N	96.8	98.4	99.0			0.575
	Ammonia-N	98.6	98.2	99.6			1.13
	Ammonia-N	97.4	95.4	95.6			0.156
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.9	98.9	95.1			3.04
	Kjeldahl Nitrogen	105	99.2	102			2.44
	Kjeldahl Nitrogen	102	96.0	99.6			3.43
EPA 353.2 Rev. 2.0	NO2NO3-N	104	106	106			0.471
	NO2NO3-N	99.5	99.0	98.5			0.282
	NO2NO3-N	100	100	99.8			0.471
EPA 365.1 Rev. 2.0	Total-P	105	101	101			0.445
	Total-P	105	101	100			0.422
	Total-P	98.4	96.2	93.4			3.03
	Total-P	101	103	103			0.303
SM 2540 D-2015	TSS	96.8					
	TSS	98.4					

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2468833, 2468834, 2468835, 2468836, 2468837, 2468838, 2468839, 2468840, 2468841, 2468842, 2468843, 2468844, 2468845, 2468846, 2468861
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2468833, 2468834, 2468835, 2468836, 2468837, 2468838, 2468839, 2468840, 2468841, 2468842, 2468843, 2468844, 2468845, 2468846, 2468861
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2468847, 2468848, 2468849, 2468850, 2468851, 2468852, 2468853, 2468854, 2468855, 2468856, 2468857, 2468858, 2468859, 2468860, 2468862
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2468847, 2468848, 2468849, 2468850, 2468851, 2468852, 2468853, 2468854, 2468855, 2468856, 2468857, 2468858, 2468859, 2468860, 2468862
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2468847, 2468848, 2468849, 2468850, 2468851, 2468852, 2468853, 2468854, 2468855, 2468856, 2468857, 2468858, 2468859, 2468860, 2468862
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2468847, 2468848, 2468849, 2468850, 2468851, 2468852, 2468853, 2468854, 2468855, 2468856, 2468857, 2468858, 2468859, 2468860, 2468862
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2468833, 2468834, 2468835, 2468836, 2468837, 2468838, 2468839, 2468840, 2468841, 2468842, 2468843, 2468844, 2468845, 2468846, 2468861

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	02/14/2024			02/14/2024 15:05	Jessica K Wilks	2468833
	02/14/2024			02/14/2024 15:07	Jessica K Wilks	2468834, 2468835
	02/14/2024			02/14/2024 15:08	Jessica K Wilks	2468836
	02/14/2024			02/14/2024 15:09	Jessica K Wilks	2468837
	02/14/2024			02/14/2024 15:10	Jessica K Wilks	2468838
	02/14/2024			02/14/2024 15:13	Jessica K Wilks	2468839
	02/14/2024			02/14/2024 15:14	Jessica K Wilks	2468840
	02/14/2024			02/14/2024 15:15	Jessica K Wilks	2468841, 2468842
	02/14/2024			02/14/2024 15:16	Jessica K Wilks	2468843
	02/14/2024			02/14/2024 15:17	Jessica K Wilks	2468844
	02/14/2024			02/14/2024 15:19	Jessica K Wilks	2468845, 2468846
	02/14/2024			02/14/2024 15:20	Jessica K Wilks	2468861
EPA 180.1 Rev. 2.0	02/14/2024			02/14/2024 14:22	Anna M. Plaviak	2468833
	02/14/2024			02/14/2024 14:24	Anna M. Plaviak	2468834
	02/14/2024			02/14/2024 14:25	Anna M. Plaviak	2468835
	02/14/2024			02/14/2024 14:27	Anna M. Plaviak	2468836
	02/14/2024			02/14/2024 14:28	Anna M. Plaviak	2468837, 2468838
	02/14/2024			02/14/2024 14:29	Anna M. Plaviak	2468839
	02/14/2024			02/14/2024 14:30	Anna M. Plaviak	2468840
	02/14/2024			02/14/2024 14:31	Anna M. Plaviak	2468841
	02/14/2024			02/14/2024 14:32	Anna M. Plaviak	2468842
	02/14/2024			02/14/2024 14:39	Anna M. Plaviak	2468843
	02/14/2024			02/14/2024 14:40	Anna M. Plaviak	2468844, 2468845
	02/14/2024			02/14/2024 14:41	Anna M. Plaviak	2468846
EPA 350.1 Rev. 2.0	02/14/2024			02/14/2024 14:42	Anna M. Plaviak	2468861
	02/14/2024			02/15/2024 11:37	Khloe J Berg	2468847
	02/14/2024			02/15/2024 13:24	Khloe J Berg	2468848
	02/14/2024			02/15/2024 13:28	Khloe J Berg	2468849
	02/14/2024			02/15/2024 13:29	Khloe J Berg	2468850
	02/14/2024			02/15/2024 13:31	Khloe J Berg	2468851
	02/14/2024			02/15/2024 13:32	Khloe J Berg	2468852
	02/14/2024			02/15/2024 13:33	Khloe J Berg	2468853
	02/14/2024			02/15/2024 13:51	Khloe J Berg	2468854
	02/14/2024			02/15/2024 13:55	Khloe J Berg	2468855
	02/14/2024			02/15/2024 13:56	Khloe J Berg	2468856
	02/14/2024			02/15/2024 13:57	Khloe J Berg	2468857
	02/14/2024			02/15/2024 13:59	Khloe J Berg	2468858
	02/14/2024			02/15/2024 14:00	Khloe J Berg	2468859
	02/14/2024			02/15/2024 14:01	Khloe J Berg	2468860
	02/14/2024			02/16/2024 12:09	Kenneth H Lee	2468862

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 351.2 Rev. 2.0	02/14/2024	02/16/2024 11:33	Simonne.V. Calhoun	02/19/2024 11:58	Samantha L Bates	2468847
	02/14/2024	02/16/2024 11:33	Simonne.V. Calhoun	02/19/2024 12:00	Samantha L Bates	2468848
	02/14/2024	02/16/2024 11:33	Simonne.V. Calhoun	02/19/2024 12:01	Samantha L Bates	2468849
	02/14/2024	02/16/2024 11:33	Simonne.V. Calhoun	02/19/2024 12:03	Samantha L Bates	2468850
	02/14/2024	02/16/2024 11:59	Simonne.V. Calhoun	02/19/2024 13:56	Samantha L Bates	2468862
	02/14/2024	02/16/2024 11:59	Simonne.V. Calhoun	02/19/2024 14:08	Samantha L Bates	2468851
	02/14/2024	02/16/2024 11:59	Simonne.V. Calhoun	02/19/2024 14:10	Samantha L Bates	2468852
	02/14/2024	02/16/2024 11:59	Simonne.V. Calhoun	02/19/2024 14:12	Samantha L Bates	2468853
	02/14/2024	02/16/2024 11:59	Simonne.V. Calhoun	02/19/2024 14:13	Samantha L Bates	2468854
	02/14/2024	02/16/2024 11:59	Simonne.V. Calhoun	02/19/2024 14:15	Samantha L Bates	2468855
	02/14/2024	02/16/2024 11:59	Simonne.V. Calhoun	02/19/2024 14:20	Samantha L Bates	2468856
	02/14/2024	02/16/2024 11:59	Simonne.V. Calhoun	02/19/2024 14:21	Samantha L Bates	2468857
	02/14/2024	02/16/2024 11:59	Simonne.V. Calhoun	02/19/2024 14:26	Samantha L Bates	2468858
	02/14/2024	02/16/2024 11:59	Simonne.V. Calhoun	02/19/2024 14:28	Samantha L Bates	2468859
	02/14/2024	02/16/2024 11:59	Simonne.V. Calhoun	02/19/2024 14:29	Samantha L Bates	2468860
EPA 353.2 Rev. 2.0	02/14/2024			02/15/2024 14:37	Fadila Guebre	2468862
	02/14/2024			02/16/2024 14:12	Fadila Guebre	2468847
	02/14/2024			02/16/2024 14:13	Fadila Guebre	2468848
	02/14/2024			02/16/2024 14:15	Fadila Guebre	2468849
	02/14/2024			02/16/2024 14:16	Fadila Guebre	2468850
	02/14/2024			02/16/2024 14:23	Fadila Guebre	2468851
	02/14/2024			02/16/2024 14:29	Fadila Guebre	2468852
	02/14/2024			02/16/2024 14:30	Fadila Guebre	2468853
	02/14/2024			02/16/2024 14:31	Fadila Guebre	2468854
	02/14/2024			02/16/2024 14:32	Fadila Guebre	2468855
	02/14/2024			02/16/2024 14:33	Fadila Guebre	2468856
	02/14/2024			02/16/2024 14:35	Fadila Guebre	2468857
	02/14/2024			02/16/2024 14:36	Fadila Guebre	2468858
	02/14/2024			02/16/2024 14:37	Fadila Guebre	2468859
	02/14/2024			02/16/2024 14:38	Fadila Guebre	2468860
EPA 365.1 Rev. 2.0	02/14/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 10:34	James L Waggeberby	2468847
	02/14/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 10:45	James L Waggeberby	2468848
	02/14/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 10:46	James L Waggeberby	2468849
	02/14/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 10:47	James L Waggeberby	2468850
	02/14/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 10:48	James L Waggeberby	2468851
	02/14/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 10:49	James L Waggeberby	2468852
	02/14/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 10:50	James L Waggeberby	2468853
	02/14/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 10:59	James L Waggeberby	2468858
	02/14/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 11:00	James L Waggeberby	2468855
	02/14/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 11:01	James L Waggeberby	2468856

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	02/14/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 11:02	James L Waggeberby	2468857
	02/14/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 11:04	James L Waggeberby	2468860
	02/14/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 11:49	James L Waggeberby	2468859
	02/14/2024	02/19/2024 15:27	Adam P Silver	02/20/2024 15:11	Simonne.V. Calhoun	2468854
	02/14/2024	02/19/2024 15:27	Adam P Silver	02/20/2024 16:05	Simonne.V. Calhoun	2468862
SM 2540 D-2015	02/14/2024			02/16/2024 15:01	Yijie Li	2468833, 2468834, 2468835, 2468836, 2468837, 2468838, 2468839, 2468840, 2468841, 2468842, 2468843, 2468844, 2468845, 2468846, 2468861