

Chemical Analysis Report

SO-DIST-2024-02-13-01

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

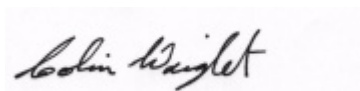
Event Description: **SCCF ALGAL DYNAMICS STUDY**
Request ID: **RQ-2024-01-08-34**
Customer: **SO-DIST**
Project ID: **DISCRTNARY**

Send Reports to:
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FLDEP South District Office
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Certified by: Colin Wright, Program Administrator

Date Certified: 06-MAR-2024 07:55



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical 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: 26.64467, -81.87899

Collection Date/Time: 02/12/2024 09:45

Field ID: CLEW04

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468582	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P441501	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P441342	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.090		mg N/L	P441515	
	EPA 365.1 Rev. 2.0	Total-P	0.058		mg P/L	P441536	
2468587	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.014		mg N/L	P441578	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.89		mg N/L	P441651	
2468592	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.029		mg P/L	P441370	

Sample Location: 26.69315, 81.79630

Collection Date/Time: 02/12/2024 11:20

Field ID: ORANGE

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468583	EPA 350.1 Rev. 2.0	Ammonia-N	0.017		mg N/L	P441501	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.95		mg N/L	P441342	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P441515	
	EPA 365.1 Rev. 2.0	Total-P	0.059		mg P/L	P441536	
2468588	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.017		mg N/L	P441510	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.96		mg N/L	P441651	
2468593	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.039		mg P/L	P441370	

Sample Location: 26.70324, 81.80525

Collection Date/Time: 02/12/2024 11:50

Field ID: POPASH

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468584	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P441501	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.88		mg N/L	P441526	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.065		mg N/L	P441515	
	EPA 365.1 Rev. 2.0	Total-P	0.063		mg P/L	P441536	
2468589	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.013		mg N/L	P441510	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.82		mg N/L	P441651	
2468594	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.045		mg P/L	P441370	

Sample Location: 26.65737, 81.89425

Collection Date/Time: 02/12/2024 12:45

Field ID: HANCOCK

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468585	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P441502	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P441526	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10		mg N/L	P441515	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P441536	
2468590	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.011		mg N/L	P441510	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.88		mg N/L	P441651	
2468595	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.060		mg P/L	P441370	

Sample Location: 26.64467, -81.87899

Collection Date/Time: 02/12/2024 13:10

Field ID: CLEW07				Matrix: W-SURF-FRH				
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2468586	EPA 350.1 Rev. 2.0	Ammonia-N	0.029		mg N/L	P441502		
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P441526	MS	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.20		mg N/L	P441515		
	EPA 365.1 Rev. 2.0	Total-P	0.097		mg P/L	P441537		
2468591	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.026		mg N/L	P441578		
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.90		mg N/L	P441651		
2468596	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.057		mg P/L	P441370		

Sample Location: FB_02122024

Collection Date/Time: 02/12/2024 13:50

Field ID: FB_02122024				Matrix: W-FIELD-BK				
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2468609	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P441751		MS
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P441526		
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P441515		
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P441537		
2468610	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.002	U	mg N/L	P441510		
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.080	U	mg N/L	P441651		
2468611	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P441370		

Sample Location: 26.57761, -81.89881

Collection Date/Time: 02/12/2024 10:15

Field ID: WHISKEY

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468597	EPA 350.1 Rev. 2.0	Ammonia-N	0.052		mg N/L	P441504	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.87		mg N/L	P441539	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.046		mg N/L	P441589	
	EPA 365.1 Rev. 2.0	Total-P	0.085		mg P/L	P441486	
2468601	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.063		mg N/L	P441511	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.69		mg N/L	P441613	
2468605	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.053		mg P/L	P441371	

Sample Location: 26.54335, -81.94011

Collection Date/Time: 02/12/2024 10:59

Field ID: CLEW09

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468598	EPA 350.1 Rev. 2.0	Ammonia-N	0.019		mg N/L	P441504	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.91		mg N/L	P441539	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.075		mg N/L	P441589	
	EPA 365.1 Rev. 2.0	Total-P	0.062		mg P/L	P441486	
2468602	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.017		mg N/L	P441511	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.56		mg N/L	P441613	
2468606	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.043		mg P/L	P441371	

Sample Location: 26.52328, -82.00864

Collection Date/Time: 02/12/2024 11:37

Field ID: CLEW10

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468599	EPA 350.1 Rev. 2.0	Ammonia-N	0.020		mg N/L	P441504	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.47		mg N/L	P441539	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.037		mg N/L	P441589	
	EPA 365.1 Rev. 2.0	Total-P	0.042		mg P/L	P441486	
2468603	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.017		mg N/L	P441511	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.53		mg N/L	P441666	
2468607	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.030		mg P/L	P441371	

Sample Location: 26.47219, -82.01621

Collection Date/Time: 02/12/2024 12:17

Field ID: CLEW11

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2468600	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P441504	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.35	I	mg N/L	P441539	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P441589	
	EPA 365.1 Rev. 2.0	Total-P	0.026		mg P/L	P441486	
2468604	EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	0.009		mg N/L	P441511	
	EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	0.24	I	mg N/L	P441666	
2468608	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P441371	

Quality Assurance Report

Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441501

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441502

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441504

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441751

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

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P441510

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

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

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

Reference Method: EPA 350.1 Rev. 2.0 dissolved
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: P441342

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441526

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: P441539

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

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P441613

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

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P441651

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

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P441666

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441515

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 365.1 Rev. 2.0
Batch ID: P441486

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441536

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441537

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P441370

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P441371

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441501

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441502

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441504

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441751

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P441510

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

Reference Method: EPA 350.1 Rev. 2.0 dissolved
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 dissolved
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: P441342

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	106		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441526

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

Quality Assurance Report
Laboratory Control Sample Accuracy

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

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P441613

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

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P441651

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

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P441666

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441515

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 365.1 Rev. 2.0
Batch ID: P441486

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: P441536

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: P441537

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P441370

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P441371

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441501

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468533	Ammonia-N	98.6	99.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441502

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468648	Ammonia-N	99.6	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441504

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467285	Ammonia-N	97.8	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441751

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2469155	Ammonia-N	95.8	96.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P441510

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468767	Ammonia-N	97.6	97.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0 dissolved
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 dissolved
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: P441342

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468532	Kjeldahl Nitrogen	106	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441526

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2467711	Kjeldahl Nitrogen	113	112	F/F	90 - 110

Quality Assurance Report Matrix Spike Accuracy

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 dissolved
Batch ID: P441613

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468601	Kjeldahl Nitrogen	106	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P441651

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468588	Kjeldahl Nitrogen	103	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P441666

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468603	Kjeldahl Nitrogen	95.1	95.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441515

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468582	NO2NO3-N	101	102	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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441486

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468600	Total-P	98.1	98.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441536

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468534	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441537

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468677	Total-P	106	109	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P441370

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468596	O-Phosphate-P	98.5	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P441371

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2468607	O-Phosphate-P	99.7	99.4	P/P	90 - 110

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441501

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468533	Ammonia-N	0.657	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441502

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468648	Ammonia-N	2.50	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441504

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467285	Ammonia-N	2.60	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P441751

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2469155	Ammonia-N	0.765	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0 dissolved
Batch ID: P441510

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468767	Ammonia-N	0.182	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0 dissolved
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 dissolved
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: P441342

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468532	Kjeldahl Nitrogen	0.321	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P441526

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2467711	Kjeldahl Nitrogen	1.04	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

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P441613

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468601	Kjeldahl Nitrogen	1.41	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P441651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468588	Kjeldahl Nitrogen	0.174	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0 dissolved
Batch ID: P441666

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468603	Kjeldahl Nitrogen	0.101	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P441515

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468582	NO2NO3-N	0.683	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 365.1 Rev. 2.0
Batch ID: P441486

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468600	Total-P	0.122	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441536

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468534	Total-P	0.0727	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P441537

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468677	Total-P	2.04	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P441370

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468596	O-Phosphate-P	0.707	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P441371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2468607	O-Phosphate-P	0.232	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A124135

Included Lab Sample IDs: 2468592, 2468593, 2468594, 2468595, 2468596, 2468605, 2468606, 2468607, 2468608, 2468611

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	101	101	P/P	90 - 110
O-Phosphate-P	101	101	P/P	90 - 110
O-Phosphate-P	99.6	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124190

Included Lab Sample IDs: 2468582, 2468583

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	100	P/P	90 - 110
Kjeldahl Nitrogen	96.5	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A124199

Included Lab Sample IDs: 2468582, 2468583, 2468584, 2468585, 2468586, 2468597, 2468598, 2468599, 2468600

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

Reference Method: EPA 350.1 Rev. 2.0 dissolved

Run ID: A124200

Included Lab Sample IDs: 2468588, 2468589, 2468590, 2468601, 2468602, 2468603, 2468604, 2468610

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.0	100	P/P	90 - 110
Ammonia-N	99.9	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A124204

Included Lab Sample IDs: 2468582, 2468583, 2468584, 2468585, 2468586, 2468609

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

Reference Method: EPA 350.1 Rev. 2.0 dissolved

Run ID: A124224

Included Lab Sample IDs: 2468587, 2468591

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.8	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A124227

Included Lab Sample IDs: 2468597, 2468598, 2468599, 2468600

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124242

Included Lab Sample IDs: 2468584, 2468585, 2468586, 2468609

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	94.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124245

Included Lab Sample IDs: 2468582, 2468583, 2468584, 2468585

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A124246

Included Lab Sample IDs: 2468597, 2468598, 2468599, 2468600

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.8	98.6	P/P	90 - 110
Kjeldahl Nitrogen	98.3	93.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124247

Included Lab Sample IDs: 2468586

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A124261

Included Lab Sample IDs: 2468597, 2468598, 2468599, 2468600, 2468609

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	98.5	P/P	90 - 110
Total-P	98.5	98.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0 dissolved

Run ID: A124271

Included Lab Sample IDs: 2468587, 2468588, 2468589, 2468590, 2468591, 2468601, 2468602, 2468610

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	107	P/P	90 - 110
Kjeldahl Nitrogen	107	109	P/P	90 - 110
Kjeldahl Nitrogen	97.9	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0 dissolved

Run ID: A124293

Included Lab Sample IDs: 2468603, 2468604

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.9	95.7	P/P	90 - 110
Kjeldahl Nitrogen	99.1	98.9	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A124297
Included Lab Sample IDs: 2468609

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.5	98.3	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	
EPA 350.1 Rev. 2.0	Ammonia-N	98.8	98.6	99.4		0.657
	Ammonia-N	101	99.6	104		2.50
	Ammonia-N	100	97.8	101		2.60
	Ammonia-N	96.6	95.8	96.6		0.765
EPA 350.1 Rev. 2.0 dissolved	Ammonia-N	97.4	97.6	97.8		0.182
	Ammonia-N	96.8	98.4	99.0		0.575
	Ammonia-N	97.4	95.4	95.6		0.156
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106	106	106		0.321
	Kjeldahl Nitrogen	102	113	112		1.04
	Kjeldahl Nitrogen	99.9	98.9	95.1		3.04
EPA 351.2 Rev. 2.0 dissolved	Kjeldahl Nitrogen	101	106	105		1.41
	Kjeldahl Nitrogen	102	103	103		0.174
	Kjeldahl Nitrogen	95.6	95.1	95.2		0.101
EPA 353.2 Rev. 2.0	NO2NO3-N	104	101	102		0.683
	NO2NO3-N	99.5	99.0	98.5		0.282
EPA 365.1 Rev. 2.0	Total-P	102	98.1	98.2		0.122
	Total-P	102	103	103		0.0727
	Total-P	100	106	109		2.04
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	98.5	99.6		0.707
	O-Phosphate-P	103	99.7	99.4		0.232

Reference Method Descriptions

Method	Description	Associated Samples
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2468582, 2468583, 2468584, 2468585, 2468586, 2468597, 2468598, 2468599, 2468600, 2468609
EPA 350.1 Rev. 2.0 dissolved	Ammonia, dissolved, in filtered, aqueous matrices as mg N/L	2468587, 2468588, 2468589, 2468590, 2468591, 2468601, 2468602, 2468603, 2468604, 2468610
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2468582, 2468583, 2468584, 2468585, 2468586, 2468597, 2468598, 2468599, 2468600, 2468609
EPA 351.2 Rev. 2.0 dissolved	Total Kjeldahl Nitrogen, dissolved, in filtered, aqueous matrices	2468587, 2468588, 2468589, 2468590, 2468591, 2468601, 2468602, 2468603, 2468604, 2468610
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2468582, 2468583, 2468584, 2468585, 2468586, 2468597, 2468598, 2468599, 2468600, 2468609
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2468582, 2468583, 2468584, 2468585, 2468586, 2468597, 2468598, 2468599, 2468600, 2468609
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2468592, 2468593, 2468594, 2468595, 2468596, 2468605, 2468606, 2468607, 2468608, 2468611

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 350.1 Rev. 2.0	02/13/2024			02/15/2024 11:43	Ping Hua	2468582
	02/13/2024			02/15/2024 11:44	Ping Hua	2468583
	02/13/2024			02/15/2024 11:46	Ping Hua	2468584
	02/13/2024			02/15/2024 12:15	Ping Hua	2468585
	02/13/2024			02/15/2024 12:16	Ping Hua	2468586
	02/13/2024			02/15/2024 13:15	Ping Hua	2468597
	02/13/2024			02/15/2024 13:16	Ping Hua	2468598
	02/13/2024			02/15/2024 13:18	Ping Hua	2468599
	02/13/2024			02/15/2024 13:19	Ping Hua	2468600
	02/13/2024			02/21/2024 11:48	Khloe J Berg	2468609
EPA 350.1 Rev. 2.0 dissolved	02/13/2024			02/15/2024 13:08	Khloe J Berg	2468610
	02/13/2024			02/15/2024 13:09	Khloe J Berg	2468588
	02/13/2024			02/15/2024 13:11	Khloe J Berg	2468589
	02/13/2024			02/15/2024 13:12	Khloe J Berg	2468590
	02/13/2024			02/15/2024 13:35	Khloe J Berg	2468601
	02/13/2024			02/15/2024 13:36	Khloe J Berg	2468602
	02/13/2024			02/15/2024 13:37	Khloe J Berg	2468603
	02/13/2024			02/15/2024 13:39	Khloe J Berg	2468604
	02/13/2024			02/16/2024 14:17	Kenneth H Lee	2468591
	02/13/2024			02/16/2024 14:27	Kenneth H Lee	2468587
EPA 351.2 Rev. 2.0	02/13/2024	02/14/2024 10:54	Ping Hua	02/15/2024 11:31	Samantha L Bates	2468582
	02/13/2024	02/14/2024 10:54	Ping Hua	02/15/2024 11:35	Samantha L Bates	2468583
	02/13/2024	02/16/2024 11:20	Samantha L Bates	02/19/2024 11:26	Samantha L Bates	2468584
	02/13/2024	02/16/2024 11:20	Samantha L Bates	02/19/2024 11:27	Samantha L Bates	2468585
	02/13/2024	02/16/2024 11:20	Samantha L Bates	02/19/2024 11:29	Samantha L Bates	2468586
	02/13/2024	02/16/2024 11:20	Samantha L Bates	02/19/2024 11:30	Samantha L Bates	2468609
	02/13/2024	02/16/2024 11:33	Simonne.V. Calhoun	02/19/2024 11:45	Samantha L Bates	2468597
	02/13/2024	02/16/2024 11:33	Simonne.V. Calhoun	02/19/2024 11:47	Samantha L Bates	2468598
	02/13/2024	02/16/2024 11:33	Simonne.V. Calhoun	02/19/2024 11:55	Samantha L Bates	2468599
	02/13/2024	02/16/2024 11:33	Simonne.V. Calhoun	02/19/2024 11:56	Samantha L Bates	2468600
EPA 351.2 Rev. 2.0 dissolved	02/13/2024	02/19/2024 10:57	Simonne.V. Calhoun	02/20/2024 13:47	Robyn Blevins	2468601
	02/13/2024	02/19/2024 10:57	Simonne.V. Calhoun	02/20/2024 13:52	Robyn Blevins	2468602
	02/13/2024	02/19/2024 10:57	Simonne.V. Calhoun	02/20/2024 14:03	Robyn Blevins	2468610
	02/13/2024	02/19/2024 10:57	Simonne.V. Calhoun	02/20/2024 14:05	Robyn Blevins	2468588
	02/13/2024	02/19/2024 10:57	Simonne.V. Calhoun	02/20/2024 14:09	Robyn Blevins	2468589
	02/13/2024	02/19/2024 10:57	Simonne.V. Calhoun	02/20/2024 14:11	Robyn Blevins	2468590
	02/13/2024	02/19/2024 10:57	Simonne.V. Calhoun	02/20/2024 14:16	Robyn Blevins	2468591
	02/13/2024	02/19/2024 10:57	Simonne.V. Calhoun	02/20/2024 14:18	Robyn Blevins	2468587
	02/13/2024	02/20/2024 09:57	Samantha L Bates	02/21/2024 11:08	Robyn Blevins	2468603
	02/13/2024	02/20/2024 09:57	Samantha L Bates	02/21/2024 11:16	Robyn Blevins	2468604

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 353.2 Rev. 2.0	02/13/2024			02/15/2024 13:18	Fadila Guebre	2468582
	02/13/2024			02/15/2024 13:27	Fadila Guebre	2468583
	02/13/2024			02/15/2024 13:29	Fadila Guebre	2468584
	02/13/2024			02/15/2024 13:30	Fadila Guebre	2468585
	02/13/2024			02/15/2024 13:31	Fadila Guebre	2468586
	02/13/2024			02/15/2024 13:32	Fadila Guebre	2468609
	02/13/2024			02/16/2024 14:07	Fadila Guebre	2468597
	02/13/2024			02/16/2024 14:09	Fadila Guebre	2468598
	02/13/2024			02/16/2024 14:10	Fadila Guebre	2468599
	02/13/2024			02/16/2024 14:11	Fadila Guebre	2468600
EPA 365.1 Rev. 2.0	02/13/2024	02/15/2024 14:20	Adam P Silver	02/20/2024 10:25	James L Waggerby	2468600
	02/13/2024	02/15/2024 14:20	Adam P Silver	02/20/2024 10:28	James L Waggerby	2468597
	02/13/2024	02/15/2024 14:20	Adam P Silver	02/20/2024 10:29	James L Waggerby	2468598
	02/13/2024	02/15/2024 14:20	Adam P Silver	02/20/2024 10:30	James L Waggerby	2468599
	02/13/2024	02/16/2024 14:14	Adam P Silver	02/19/2024 11:51	Chandler E Cox	2468582
	02/13/2024	02/16/2024 14:14	Adam P Silver	02/19/2024 11:52	Chandler E Cox	2468583
	02/13/2024	02/16/2024 14:14	Adam P Silver	02/19/2024 11:53	Chandler E Cox	2468584
	02/13/2024	02/16/2024 14:14	Adam P Silver	02/19/2024 11:54	Chandler E Cox	2468585
	02/13/2024	02/16/2024 14:14	Adam P Silver	02/19/2024 13:47	Chandler E Cox	2468586
	02/13/2024	02/16/2024 14:14	Adam P Silver	02/20/2024 11:36	James L Waggerby	2468609
EPA 365.1 Rev. 2.0 dissolved	02/13/2024			02/13/2024 15:24	Elise M. Gillis	2468596
	02/13/2024			02/13/2024 15:26	Elise M. Gillis	2468592
	02/13/2024			02/13/2024 15:27	Elise M. Gillis	2468593
	02/13/2024			02/13/2024 15:28	Elise M. Gillis	2468594
	02/13/2024			02/13/2024 15:29	Elise M. Gillis	2468595
	02/13/2024			02/13/2024 15:30	Elise M. Gillis	2468611
	02/13/2024			02/13/2024 15:39	Elise M. Gillis	2468607
	02/13/2024			02/13/2024 15:41	Elise M. Gillis	2468605
	02/13/2024			02/13/2024 15:42	Elise M. Gillis	2468606
	02/13/2024			02/13/2024 15:47	Elise M. Gillis	2468608