

Chemical Analysis Report

NW-DIST-2023-05-17-03

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

Event Description: **Project GreenShores Quarterly Sampling**
Request ID: **RQ-2023-05-15-01**
Customer: **NW-DIST**
Project ID: **DISTRICT**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 208
Pensacola, FL 32502-5794
Attn: Myranda Butler

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 08-JUN-2023 09:01



NON-CONFORMANCE REPORT INCLUDED

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: 05/15/2023 10:12

Field ID: 1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410283	DEP SOP: NU-094-1	Color (true)	11	YAQ	PCU	P429992	
	EPA 180.1 Rev. 2.0	Turbidity	2.2	YAQ	NTU	P430008	
	SM 2540 D-2015	TSS	8	IY	mg/L	P430523	
2410297	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	IY	mg N/L	P430075	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.31	IY	mg N/L	P430051	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.01	IY	mg N/L	P430293	
	EPA 365.1 Rev. 2.0	Total-P	0.014	Y	mg P/L	P430043	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR. The sample expired upon receipt.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR. The sample expired upon receipt.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: Midpoint between bay bridge and Muscogee Wharf

Collection Date/Time: 05/15/2023 10:26

Field ID: 2

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410284	DEP SOP: NU-094-1	Color (true)	9.8	YQ	PCU	P429992	
	EPA 180.1 Rev. 2.0	Turbidity	1.5	Y	NTU	P430008	
	SM 2540 D-2015	TSS	4	IY	mg/L	P430523	
2410298	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	IY	mg N/L	P430075	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.33	IY	mg N/L	P430088	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011	Y	mg N/L	P430293	
	EPA 365.1 Rev. 2.0	Total-P	0.011	Y	mg P/L	P430044	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR. The sample expired upon receipt.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: East end of Primary Stormdrain

Collection Date/Time: 05/15/2023 10:35

Field ID: 3

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410285	DEP SOP: NU-094-1	Color (true)	6.6	YQ	PCU	P429992	
	EPA 180.1 Rev. 2.0	Turbidity	1.2	Y	NTU	P430008	
	SM 2540 D-2015	TSS	6	IY	mg/L	P430523	
2410299	EPA 350.1 Rev. 2.0	Ammonia-N	0.006	Y	mg N/L	P430075	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.37	IY	mg N/L	P430088	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012	Y	mg N/L	P430293	
	EPA 365.1 Rev. 2.0	Total-P	0.01	IY	mg P/L	P430044	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR. The sample expired upon receipt.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: South of Primary Stormdrain

Collection Date/Time: 05/15/2023 10:42

Field ID: 4

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410286	DEP SOP: NU-094-1	Color (true)	7.9	Y	PCU	P429992	
	EPA 180.1 Rev. 2.0	Turbidity	1.2	Y	NTU	P430008	
	SM 2540 D-2015	TSS	4	IY	mg/L	P430523	
2410300	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	Y	mg N/L	P430336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.31	IY	mg N/L	P430088	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.013	Y	mg N/L	P430293	
	EPA 365.1 Rev. 2.0	Total-P	0.011	Y	mg P/L	P430044	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: End of Chase Street

Collection Date/Time: 05/15/2023 10:56

Field ID: 5

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410287	DEP SOP: NU-094-1	Color (true)	8.1	Y	PCU	P429992	
	EPA 180.1 Rev. 2.0	Turbidity	1.4	Y	NTU	P430008	
	SM 2540 D-2015	TSS	5	IY	mg/L	P430523	
2410301	EPA 350.1 Rev. 2.0	Ammonia-N	0.008	Y	mg N/L	P430336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30	IY	mg N/L	P430088	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011	Y	mg N/L	P430294	
	EPA 365.1 Rev. 2.0	Total-P	0.01	IY	mg P/L	P430044	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: Midpoint between Muscogee and Hawkshaw

Collection Date/Time: 05/15/2023 11:03

Field ID: 6

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410288	DEP SOP: NU-094-1	Color (true)	9.4	Y	PCU	P429992	
	EPA 180.1 Rev. 2.0	Turbidity	1.5	Y	NTU	P430008	
	SM 2540 D-2015	TSS	4	IY	mg/L	P430523	
2410302	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	IY	mg N/L	P430336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.35	IY	mg N/L	P430088	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011	Y	mg N/L	P430294	
	EPA 365.1 Rev. 2.0	Total-P	0.011	Y	mg P/L	P430044	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: Midpoint between bridge and Port Spoil pond Collection Date/Time: 05/15/2023 11:10

Field ID: 7

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410289	DEP SOP: NU-094-1	Color (true)	9.6	Y	PCU	P429992	
	EPA 180.1 Rev. 2.0	Turbidity	1.5	Y	NTU	P430008	
	SM 2540 D-2015	TSS	5	IY	mg/L	P430523	
2410303	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	IY	mg N/L	P430336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.33	IY	mg N/L	P430088	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	IY	mg N/L	P430294	
	EPA 365.1 Rev. 2.0	Total-P	0.011	Y	mg P/L	P430044	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: West of Primary Stormdrain

Collection Date/Time: 05/15/2023 10:47

Field ID: 8

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410290	DEP SOP: NU-094-1	Color (true)	4.5	IY	PCU	P429992	
	EPA 180.1 Rev. 2.0	Turbidity	1.1	Y	NTU	P430008	
	SM 2540 D-2015	TSS	3	IY	mg/L	P430523	
2410304	EPA 350.1 Rev. 2.0	Ammonia-N	0.030	Y	mg N/L	P430336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.33	IY	mg N/L	P430088	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.022	Y	mg N/L	P430294	
	EPA 365.1 Rev. 2.0	Total-P	0.016	Y	mg P/L	P430044	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: West of Hawkshaw Lagoon

Collection Date/Time: 05/15/2023 11:36

Field ID: 9

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410291	DEP SOP: NU-094-1	Color (true)	6.6	Y	PCU	P429992	
	EPA 180.1 Rev. 2.0	Turbidity	1.2	Y	NTU	P430008	
	SM 2540 D-2015	TSS	5	IY	mg/L	P430523	
2410305	EPA 350.1 Rev. 2.0	Ammonia-N	0.020	Y	mg N/L	P430336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.48	Y	mg N/L	P430179	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.013	Y	mg N/L	P430294	
	EPA 365.1 Rev. 2.0	Total-P	0.014	Y	mg P/L	P430044	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: South of Bayfront Stormdrain

Collection Date/Time: 05/15/2023 11:30

Field ID: 10

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410292	DEP SOP: NU-094-1	Color (true)	7.6	Y	PCU	P429992	
	EPA 180.1 Rev. 2.0	Turbidity	1.7	Y	NTU	P430008	
	SM 2540 D-2015	TSS	6	IY	mg/L	P430523	
2410306	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	IY	mg N/L	P430336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.33	IY	mg N/L	P430179	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	IY	mg N/L	P430294	
	EPA 365.1 Rev. 2.0	Total-P	0.019	Y	mg P/L	P430044	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: Seville Marina Inlet

Collection Date/Time: 05/15/2023 11:22

Field ID: 11

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410293	DEP SOP: NU-094-1	Color (true)	7.3	YA	PCU	P429993	
	EPA 180.1 Rev. 2.0	Turbidity	1.4	Y	NTU	P430008	
	SM 2540 D-2015	TSS	7	IY	mg/L	P430523	
2410307	EPA 350.1 Rev. 2.0	Ammonia-N	0.010	Y	mg N/L	P430336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.33	IY	mg N/L	P430088	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.010	Y	mg N/L	P430294	
	EPA 365.1 Rev. 2.0	Total-P	0.025	Y	mg P/L	P430044	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: East of Port Spoil pond

Collection Date/Time: 05/15/2023 11:16

Field ID: 12

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410294	DEP SOP: NU-094-1	Color (true)	10	Y	PCU	P429993	
	EPA 180.1 Rev. 2.0	Turbidity	1.5	Y	NTU	P430008	
	SM 2540 D-2015	TSS	4	IY	mg/L	P430523	
2410308	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	IY	mg N/L	P430336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.36	IY	mg N/L	P430088	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	IY	mg N/L	P430294	
	EPA 365.1 Rev. 2.0	Total-P	0.009	IY	mg P/L	P430094	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: Hawkshaw Lagoon at Memorial bridge

Collection Date/Time: 05/15/2023 11:46

Field ID: 13

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410295	DEP SOP: NU-094-1	Color (true)	14	Y	PCU	P429993	
	EPA 180.1 Rev. 2.0	Turbidity	2.3	Y	NTU	P430008	
	SM 2540 D-2015	TSS	4	IY	mg/L	P430523	
2410309	EPA 350.1 Rev. 2.0	Ammonia-N	0.011	Y	mg N/L	P430336	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.39	IY	mg N/L	P430179	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011	Y	mg N/L	P430294	
	EPA 365.1 Rev. 2.0	Total-P	0.023	Y	mg P/L	P430094	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Sample Location: 150 ft South of Hawkshaw Lagoon East Stormdrain

Collection Date/Time: 05/15/2023 11:58

Field ID: 14

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410296	DEP SOP: NU-094-1	Color (true)	7.6	Y	PCU	P429993	
	EPA 180.1 Rev. 2.0	Turbidity	1.6	Y	NTU	P430008	
	SM 2540 D-2015	TSS	8	IAY	mg/L	P430523	
2410310	EPA 350.1 Rev. 2.0	Ammonia-N	0.011	Y	mg N/L	P430337	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.40	IY	mg N/L	P430179	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.010	Y	mg N/L	P430294	
	EPA 365.1 Rev. 2.0	Total-P	0.012	Y	mg P/L	P430094	

Ref. Method and Comment:

DEP SOP: NU-094-1: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

Non-Conformance Report

NCR ID: 9876

Event(s)

Job(s)

Sample(s)

Test(s)

NW-DIST-2023-05-17-03

NCR Type: SHIPPING/RECEIVING

NCR Category: Samples arrived late

Observation: Samples arrived late, samples received outside the acceptable temperature range.

Resolution: Samples will be qualified as appropriate.
Customer contacted by phone
Biology and Chemistry were notified by email.

Authorized by/Date: Kyle Klug 5/24/2023

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P429992

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P429993

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430008

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430075

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430336

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430337

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430051

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430088

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430179

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430293

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430294

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430043

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430044

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430094

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

Reference Method: SM 2540 D-2015
Batch ID: P430523

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: P429992

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	96.5		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P429993

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	96.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430008

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430075

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430336

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430337

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	108		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430088

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: P430179

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430293

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: P430294

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430043

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430044

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: P430094

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

Reference Method: SM 2540 D-2015
Batch ID: P430523

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	103		P	85 - 106

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430075

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2407779	Ammonia-N	100	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430336

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410300	Ammonia-N	97.8	99.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430337

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410310	Ammonia-N	99.6	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410138	Kjeldahl Nitrogen	109	111	P/F	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430088

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410030	Kjeldahl Nitrogen	99.3	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430179

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410310	Kjeldahl Nitrogen	105	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430293

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2409789	NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430294

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410301	NO2NO3-N	98.5	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430043

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410297	Total-P	102	102	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430044

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410300	Total-P	98.8	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430094

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410310	Total-P	96.6	94.0	P/P	90 - 110

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P429992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410283	Color (true)	0.421	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P429993

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410293	Color (true)	3.19	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430008

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410283	Turbidity	15.7	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430075

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2407779	Ammonia-N	2.06	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430336

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410300	Ammonia-N	1.47	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430337

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410310	Ammonia-N	0.822	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410138	Kjeldahl Nitrogen	0.872	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430088

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410030	Kjeldahl Nitrogen	2.41	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430179

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410310	Kjeldahl Nitrogen	3.59	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430293

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409789	NO2NO3-N	0.473	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430294

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410301	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410297	Total-P	0.343	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430044

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410300	Total-P	1.06	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430094

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410310	Total-P	2.68	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: A119223

Included Lab Sample IDs: 2410283, 2410284, 2410285, 2410286, 2410287, 2410288, 2410289, 2410290, 2410291, 2410292, 2410293, 2410294, 2410295, 2410296

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.4	98.3	P/P	90 - 110
Color (true)	98.8	98.4	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A119231

Included Lab Sample IDs: 2410283, 2410284, 2410285, 2410286, 2410287, 2410288, 2410289, 2410290, 2410291, 2410292, 2410293, 2410294, 2410295, 2410296

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A119259

Included Lab Sample IDs: 2410297, 2410298, 2410299

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.4	96.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119280

Included Lab Sample IDs: 2410297

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.7	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119283

Included Lab Sample IDs: 2410297, 2410304, 2410305, 2410306, 2410307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	100	P/P	90 - 110
Total-P	99.5	97.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119340

Included Lab Sample IDs: 2410298, 2410299, 2410300, 2410301, 2410302, 2410303, 2410308, 2410309, 2410310

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.2	P/P	90 - 110
Total-P	96.8	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119348

Included Lab Sample IDs: 2410298, 2410299, 2410300, 2410301, 2410302, 2410303, 2410304, 2410307, 2410308

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	97.2	P/P	90 - 110
Kjeldahl Nitrogen	94.4	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119353

Included Lab Sample IDs: 2410305, 2410306, 2410309, 2410310

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.1	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A119364

Included Lab Sample IDs: 2410297, 2410298, 2410299, 2410300, 2410301, 2410302, 2410303, 2410304, 2410305, 2410306, 2410307, 2410308, 2410309, 2410310

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	98.5	P/P	90 - 110
NO2NO3-N	98.5	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A119381

Included Lab Sample IDs: 2410300, 2410301, 2410302, 2410303, 2410304, 2410305, 2410306, 2410307, 2410308, 2410309, 2410310

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	98.8	P/P	90 - 110
Ammonia-N	99.5	101	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
DEP SOP: NU-094-1	Color (true)	96.5			0.421	
	Color (true)	96.7			3.19	
EPA 180.1 Rev. 2.0	Turbidity	97.6			15.7	
EPA 350.1 Rev. 2.0	Ammonia-N	96.6	103	100		2.06
	Ammonia-N	97.2	97.8	99.4		1.47
	Ammonia-N	98.2	99.6	98.6		0.822
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108	109	111		0.872
	Kjeldahl Nitrogen	101	99.3	102		2.41
	Kjeldahl Nitrogen	106	105	101		3.59
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	103	103		0.473
	NO2NO3-N	98.5	98.5	98.5		0.0
EPA 365.1 Rev. 2.0	Total-P	101	102	102		0.343
	Total-P	103	98.8	99.8		1.06
	Total-P	98.8	96.6	94.0		2.68
SM 2540 D-2015	TSS	103				

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2410283, 2410284, 2410285, 2410286, 2410287, 2410288, 2410289, 2410290, 2410291, 2410292, 2410293, 2410294, 2410295, 2410296
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2410283, 2410284, 2410285, 2410286, 2410287, 2410288, 2410289, 2410290, 2410291, 2410292, 2410293, 2410294, 2410295, 2410296
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2410297, 2410298, 2410299, 2410300, 2410301, 2410302, 2410303, 2410304, 2410305, 2410306, 2410307, 2410308, 2410309, 2410310
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2410297, 2410298, 2410299, 2410300, 2410301, 2410302, 2410303, 2410304, 2410305, 2410306, 2410307, 2410308, 2410309, 2410310
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2410297, 2410298, 2410299, 2410300, 2410301, 2410302, 2410303, 2410304, 2410305, 2410306, 2410307, 2410308, 2410309, 2410310
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2410297, 2410298, 2410299, 2410300, 2410301, 2410302, 2410303, 2410304, 2410305, 2410306, 2410307, 2410308, 2410309, 2410310
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2410283, 2410284, 2410285, 2410286, 2410287, 2410288, 2410289, 2410290, 2410291, 2410292, 2410293, 2410294, 2410295, 2410296

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	05/17/2023			05/17/2023 10:36	Anna M. Plaviak	2410283
	05/17/2023			05/17/2023 10:37	Anna M. Plaviak	2410284
	05/17/2023			05/17/2023 10:38	Anna M. Plaviak	2410285, 2410286
	05/17/2023			05/17/2023 10:39	Anna M. Plaviak	2410287
	05/17/2023			05/17/2023 10:40	Anna M. Plaviak	2410288
	05/17/2023			05/17/2023 10:41	Anna M. Plaviak	2410289, 2410290
	05/17/2023			05/17/2023 10:42	Anna M. Plaviak	2410291
	05/17/2023			05/17/2023 10:43	Anna M. Plaviak	2410292
	05/17/2023			05/17/2023 10:47	Anna M. Plaviak	2410293
	05/17/2023			05/17/2023 10:48	Anna M. Plaviak	2410294
EPA 180.1 Rev. 2.0	05/17/2023			05/17/2023 10:49	Anna M. Plaviak	2410295, 2410296
	05/17/2023			05/17/2023 10:18	Khloe J Berg	2410283
	05/17/2023			05/17/2023 10:20	Khloe J Berg	2410284
	05/17/2023			05/17/2023 10:22	Khloe J Berg	2410285
	05/17/2023			05/17/2023 10:23	Khloe J Berg	2410286
	05/17/2023			05/17/2023 10:24	Khloe J Berg	2410287
	05/17/2023			05/17/2023 10:25	Khloe J Berg	2410288, 2410289
	05/17/2023			05/17/2023 10:26	Khloe J Berg	2410290
	05/17/2023			05/17/2023 10:27	Khloe J Berg	2410291
	05/17/2023			05/17/2023 10:28	Khloe J Berg	2410292
EPA 350.1 Rev. 2.0	05/17/2023			05/17/2023 10:30	Khloe J Berg	2410293
	05/17/2023			05/17/2023 10:31	Khloe J Berg	2410294
	05/17/2023			05/17/2023 10:32	Khloe J Berg	2410295
	05/17/2023			05/17/2023 10:34	Khloe J Berg	2410296
	05/17/2023			05/18/2023 14:34	Ping Hua	2410297
	05/17/2023			05/18/2023 14:35	Ping Hua	2410298
	05/17/2023			05/18/2023 14:37	Ping Hua	2410299
	05/17/2023			05/24/2023 12:30	Khloe J Berg	2410300
	05/17/2023			05/24/2023 12:34	Khloe J Berg	2410301
	05/17/2023			05/24/2023 12:36	Khloe J Berg	2410302
EPA 351.2 Rev. 2.0	05/17/2023			05/24/2023 12:37	Khloe J Berg	2410303
	05/17/2023			05/24/2023 12:38	Khloe J Berg	2410304
	05/17/2023			05/24/2023 12:40	Khloe J Berg	2410305
	05/17/2023			05/24/2023 12:41	Khloe J Berg	2410306
	05/17/2023			05/24/2023 12:42	Khloe J Berg	2410307
	05/17/2023			05/24/2023 12:44	Khloe J Berg	2410308
	05/17/2023			05/24/2023 12:45	Khloe J Berg	2410309
	05/17/2023			05/24/2023 12:57	Khloe J Berg	2410310
	05/17/2023	05/18/2023 11:55	Simonne.V. Calhoun	05/19/2023 13:39	Ping Hua	2410297
	05/17/2023	05/19/2023 08:44	Samantha L Bates	05/23/2023 12:02	Samantha L Bates	2410298

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	05/17/2023	05/19/2023 08:44	Samantha L Bates	05/23/2023 12:04	Samantha L Bates	2410299
	05/17/2023	05/19/2023 08:44	Samantha L Bates	05/23/2023 12:05	Samantha L Bates	2410300
	05/17/2023	05/19/2023 08:44	Samantha L Bates	05/23/2023 12:10	Samantha L Bates	2410301
	05/17/2023	05/19/2023 08:44	Samantha L Bates	05/23/2023 12:12	Samantha L Bates	2410302
	05/17/2023	05/19/2023 08:44	Samantha L Bates	05/23/2023 12:13	Samantha L Bates	2410303
	05/17/2023	05/19/2023 08:44	Samantha L Bates	05/23/2023 12:15	Samantha L Bates	2410304
	05/17/2023	05/19/2023 08:44	Samantha L Bates	05/23/2023 12:17	Samantha L Bates	2410307
	05/17/2023	05/19/2023 08:44	Samantha L Bates	05/23/2023 12:18	Samantha L Bates	2410308
	05/17/2023	05/22/2023 11:09	Dana G. Hughes	05/23/2023 14:34	Samantha L Bates	2410305
	05/17/2023	05/22/2023 11:09	Dana G. Hughes	05/23/2023 14:35	Samantha L Bates	2410306
	05/17/2023	05/22/2023 11:09	Dana G. Hughes	05/23/2023 14:37	Samantha L Bates	2410309
	05/17/2023	05/22/2023 11:09	Dana G. Hughes	05/23/2023 14:39	Samantha L Bates	2410310
EPA 353.2 Rev. 2.0	05/17/2023			05/24/2023 08:56	Beverly Y. Sanders	2410297
	05/17/2023			05/24/2023 08:57	Beverly Y. Sanders	2410298
	05/17/2023			05/24/2023 08:58	Beverly Y. Sanders	2410299
	05/17/2023			05/24/2023 08:59	Beverly Y. Sanders	2410300
	05/17/2023			05/24/2023 09:06	Beverly Y. Sanders	2410301
	05/17/2023			05/24/2023 09:12	Beverly Y. Sanders	2410302
	05/17/2023			05/24/2023 09:13	Beverly Y. Sanders	2410303
	05/17/2023			05/24/2023 09:15	Beverly Y. Sanders	2410304
	05/17/2023			05/24/2023 09:16	Beverly Y. Sanders	2410305
	05/17/2023			05/24/2023 09:17	Beverly Y. Sanders	2410306
	05/17/2023			05/24/2023 09:18	Beverly Y. Sanders	2410307
	05/17/2023			05/24/2023 09:19	Beverly Y. Sanders	2410308
EPA 365.1 Rev. 2.0	05/17/2023			05/24/2023 09:21	Beverly Y. Sanders	2410309
	05/17/2023			05/24/2023 09:22	Beverly Y. Sanders	2410310
	05/17/2023	05/18/2023 13:13	Adam P Silver	05/19/2023 14:39	Chandler E Cox	2410297
	05/17/2023	05/18/2023 13:13	Adam P Silver	05/19/2023 15:08	Chandler E Cox	2410304
	05/17/2023	05/18/2023 13:13	Adam P Silver	05/19/2023 15:09	Chandler E Cox	2410305
	05/17/2023	05/18/2023 13:13	Adam P Silver	05/19/2023 15:10	Chandler E Cox	2410306
	05/17/2023	05/18/2023 13:13	Adam P Silver	05/19/2023 15:11	Chandler E Cox	2410307
	05/17/2023	05/18/2023 13:13	Adam P Silver	05/23/2023 09:49	James L Waggeberby	2410300
	05/17/2023	05/18/2023 13:13	Adam P Silver	05/23/2023 09:50	James L Waggeberby	2410298
	05/17/2023	05/18/2023 13:13	Adam P Silver	05/23/2023 09:51	James L Waggeberby	2410299
	05/17/2023	05/18/2023 13:13	Adam P Silver	05/23/2023 09:52	James L Waggeberby	2410301
	05/17/2023	05/18/2023 13:13	Adam P Silver	05/23/2023 09:53	James L Waggeberby	2410302
	05/17/2023	05/18/2023 13:13	Adam P Silver	05/23/2023 09:54	James L Waggeberby	2410303
	05/17/2023	05/19/2023 11:40	Adam P Silver	05/23/2023 10:20	James L Waggeberby	2410310
	05/17/2023	05/19/2023 11:40	Adam P Silver	05/23/2023 10:21	James L Waggeberby	2410308
	05/17/2023	05/19/2023 11:40	Adam P Silver	05/23/2023 10:22	James L Waggeberby	2410309

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2540 D-2015	05/17/2023			05/19/2023 16:01	Yijie Li	2410283, 2410284, 2410285, 2410286, 2410287, 2410288, 2410289, 2410290, 2410291, 2410292, 2410293, 2410294, 2410295, 2410296