

Chemical Analysis Report

NE-DIST-2022-08-26-02

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

Event Description: **Palm Valley Boat 2022**
Request ID: **RQ-2022-07-25-08**
Customer: **NE-DIST**
Project ID: **SMP**

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8800 Baymeadows Way West
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 16-SEP-2022 10:18



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: Marshall Creek 0.5 miles above mouth

Collection Date/Time: 08/25/2022 10:20

Field ID: G5NE0595

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352645	EPA 180.1 Rev. 2.0	Turbidity	11		NTU	P418764	
	SM 2320 B-2011	Total Alkalinity	117		mg CaCO3/L	P418915	
	SM 2540 D-2011	TSS	15		mg/L	P419203	
	SM 4500-F- C-2011	Fluoride	0.92		mg F/L	P418918	
2352650	EPA 350.1 Rev. 2.0	Ammonia-N	0.090		mg N/L	P418992	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P418960	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.013		mg N/L	P418994	
	EPA 365.1 Rev. 2.0	Total-P	0.098		mg P/L	P419247	
	SM 5310 B-2011	Organic Carbon	9.6		mg C/L	P419164	

Ref. Method and Comment:

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

Sample Location: CAPO CREEK 300M ABOVE MOUTH

Collection Date/Time: 08/25/2022 10:55

Field ID: 27010019

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352646	EPA 180.1 Rev. 2.0	Turbidity	6.1		NTU	P418764	
	SM 2320 B-2011	Total Alkalinity	116		mg CaCO3/L	P418915	
	SM 2540 D-2011	TSS	12		mg/L	P419203	
	SM 4500-F- C-2011	Fluoride	1.0		mg F/L	P418918	
2352651	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P418992	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.74		mg N/L	P418819	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P418994	
	EPA 365.1 Rev. 2.0	Total-P	0.077		mg P/L	P419247	
	SM 5310 B-2011	Organic Carbon	7.5		mg C/L	P419164	

Ref. Method and Comment:

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

Sample Location: DEEP CREEK 270M ABOVE ICW

Collection Date/Time: 08/25/2022 11:20

Field ID: 27010165

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352647	EPA 180.1 Rev. 2.0	Turbidity	12		NTU	P418764	
	SM 2320 B-2011	Total Alkalinity	116		mg CaCO3/L	P418915	
	SM 2540 D-2011	TSS	29		mg/L	P419203	
	SM 4500-F- C-2011	Fluoride	0.96		mg F/L	P418918	
2352652	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P419005	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.89		mg N/L	P418960	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.01	I	mg N/L	P418994	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P419247	
	SM 5310 B-2011	Organic Carbon	8.3		mg C/L	P419189	

Ref. Method and Comment:

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

Sample Location: DEEP CREEK 1ST NE BEND FROM MOUTH

Collection Date/Time: 08/25/2022 11:35

Field ID: 27010069

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352648	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P418764	
	SM 2320 B-2011	Total Alkalinity	114		mg CaCO3/L	P418915	
	SM 2540 D-2011	TSS	17		mg/L	P419203	
	SM 4500-F- C-2011	Fluoride	0.91		mg F/L	P418918	
2352653	EPA 350.1 Rev. 2.0	Ammonia-N	0.023		mg N/L	P419005	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.75		mg N/L	P418960	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P418994	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P419247	
	SM 5310 B-2011	Organic Carbon	9.0		mg C/L	P419189	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418764

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418992

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419005

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418819

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418960

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418994

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419247

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

Reference Method: SM 2320 B-2011
Batch ID: P418915

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

Reference Method: SM 2540 D-2011
Batch ID: P419203

Component	Result	Code	Units
TSS	3	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P418918

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P419164

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

Reference Method: SM 5310 B-2011
Batch ID: P419189

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418764

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418992

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: P419005

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418819

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418960

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418994

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419247

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

Reference Method: SM 2320 B-2011
Batch ID: P418915

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P418918

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	96 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P419164

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.2		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P419189

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418992

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352460	Ammonia-N	98.8	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419005

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352652	Ammonia-N	101	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418819

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351887	Kjeldahl Nitrogen	108	99.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418960

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351885	Kjeldahl Nitrogen	103	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418994

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352460	NO2NO3-N	98.4	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419247

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352653	Total-P	100	103	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Batch ID: P418918

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352340	Fluoride	93.7	94.4	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419164

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352545	Organic Carbon	91.6	88.0	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P419189

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353610	Organic Carbon	91.2	89.3	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418764

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352678	Turbidity	14.3	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352460	Ammonia-N	0.158	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352652	Ammonia-N	2.48	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418819

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351887	Kjeldahl Nitrogen	6.99	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418960

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351885	Kjeldahl Nitrogen	3.23	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418994

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352460	NO2NO3-N	1.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P419247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352653	Total-P	2.51	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P418915

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352340	Total Alkalinity	1.31	Sample	P	0 - 3.8

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P418918

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352340	Fluoride	0.473	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P419164

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352545	Organic Carbon	2.83	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P419189

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353610	Organic Carbon	1.65	Spike	P	0 - 20

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114382

Included Lab Sample IDs: 2352645, 2352646, 2352647, 2352648

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

Reference Method: SM 2320 B-2011

Run ID: A114445

Included Lab Sample IDs: 2352645, 2352646, 2352647, 2352648

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.9	101	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A114445

Included Lab Sample IDs: 2352645, 2352646, 2352647, 2352648

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114469

Included Lab Sample IDs: 2352651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114480

Included Lab Sample IDs: 2352650, 2352651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114483

Included Lab Sample IDs: 2352650, 2352651, 2352652, 2352653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	105	106	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114487

Included Lab Sample IDs: 2352652, 2352653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	99.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114547

Included Lab Sample IDs: 2352650, 2352652, 2352653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114547

Included Lab Sample IDs: 2352650, 2352652, 2352653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.6	98.3	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A114556

Included Lab Sample IDs: 2352650, 2352651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.5	94.3	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A114572

Included Lab Sample IDs: 2352652, 2352653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	90.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114641

Included Lab Sample IDs: 2352652, 2352653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.4	100	P/P	90 - 110
Total-P	100	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114650

Included Lab Sample IDs: 2352650, 2352651

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	99.2	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	MS
EPA 180.1 Rev. 2.0	Turbidity	96.9			14.3	
EPA 350.1 Rev. 2.0	Ammonia-N	101	98.8	99.0		0.158
	Ammonia-N	95.4	101	105		2.48
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	108	99.1		6.99
	Kjeldahl Nitrogen	95.2	103	98.8		3.23
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	106	98.4	99.4		1.01
EPA 365.1 Rev. 2.0	Total-P	109	100	103		2.51
SM 2320 B-2011	Total Alkalinity	101			1.31	
SM 4500-F- C-2011	Fluoride	99.0	93.7	94.4		0.473
SM 5310 B-2011	Organic Carbon	97.2	91.6	88.0		2.83
	Organic Carbon	96.6	91.2	89.3		1.65

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2352645, 2352646, 2352647, 2352648
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2352650, 2352651, 2352652, 2352653
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2352650, 2352651, 2352652, 2352653
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2352650, 2352651, 2352652, 2352653
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2352650, 2352651, 2352652, 2352653
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2352645, 2352646, 2352647, 2352648
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2352645, 2352646, 2352647, 2352648
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2352645, 2352646, 2352647, 2352648
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2352650, 2352651, 2352652, 2352653

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	08/26/2022			08/26/2022 13:32	Chandler E Cox	2352645
	08/26/2022			08/26/2022 13:35	Chandler E Cox	2352646
	08/26/2022			08/26/2022 13:37	Chandler E Cox	2352647
	08/26/2022			08/26/2022 13:38	Chandler E Cox	2352648
EPA 350.1 Rev. 2.0	08/26/2022			09/01/2022 10:46	Ping Hua	2352650
	08/26/2022			09/01/2022 10:47	Ping Hua	2352651
	08/26/2022			09/01/2022 13:29	Ping Hua	2352652
	08/26/2022			09/01/2022 13:33	Ping Hua	2352653
EPA 351.2 Rev. 2.0	08/26/2022	08/30/2022 14:31	Samantha L Bates	08/31/2022 16:43	Alexandra J Mattheus	2352651
	08/26/2022	09/02/2022 08:53	Samantha L Bates	09/06/2022 11:27	Samantha L Bates	2352650
	08/26/2022	09/02/2022 08:53	Samantha L Bates	09/06/2022 11:29	Samantha L Bates	2352652
	08/26/2022	09/02/2022 08:53	Samantha L Bates	09/06/2022 11:30	Samantha L Bates	2352653
EPA 353.2 Rev. 2.0	08/26/2022			09/01/2022 12:23	Judith K. Clark	2352650
	08/26/2022			09/01/2022 12:24	Judith K. Clark	2352651
	08/26/2022			09/01/2022 12:25	Judith K. Clark	2352652
	08/26/2022			09/01/2022 12:26	Judith K. Clark	2352653
EPA 365.1 Rev. 2.0	08/26/2022	09/08/2022 16:33	Adam P Silver	09/09/2022 11:40	James L Waggeberby	2352653
	08/26/2022	09/08/2022 16:33	Adam P Silver	09/09/2022 11:48	James L Waggeberby	2352652
	08/26/2022	09/08/2022 16:33	Adam P Silver	09/09/2022 13:51	James L Waggeberby	2352650
	08/26/2022	09/08/2022 16:33	Adam P Silver	09/09/2022 13:52	James L Waggeberby	2352651
SM 2320 B-2011	08/26/2022			08/31/2022 00:44	Dale L. Simmons	2352645
	08/26/2022			08/31/2022 00:59	Dale L. Simmons	2352646
	08/26/2022			08/31/2022 01:13	Dale L. Simmons	2352647
	08/26/2022			08/31/2022 01:27	Dale L. Simmons	2352648
SM 2540 D-2011	08/26/2022			08/30/2022 14:29	Yijie Li	2352645, 2352646, 2352647, 2352648
SM 4500-F- C-2011	08/26/2022			08/30/2022 20:57	Dale L. Simmons	2352645
	08/26/2022			08/30/2022 21:36	Dale L. Simmons	2352646
	08/26/2022			08/30/2022 21:41	Dale L. Simmons	2352647
	08/26/2022			08/30/2022 21:47	Dale L. Simmons	2352648
SM 5310 B-2011	08/26/2022			09/02/2022 23:21	Khloe J Berg	2352650
	08/26/2022			09/02/2022 23:40	Khloe J Berg	2352651
	08/26/2022			09/07/2022 01:32	Khloe J Berg	2352652
	08/26/2022			09/07/2022 01:53	Khloe J Berg	2352653