

Chemical Analysis Report

NE-DIST-2021-06-08-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

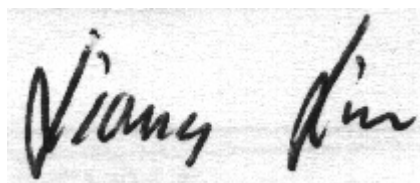
Event Description: **Palm Valley Boat**
Request ID: **RQ-2021-04-26-13**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

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

Certified by: Liang Lin, Environmental Administrator

Date Certified: 30-JUN-2021 11:23

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored background.

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: Marshall Creek 0.5 miles above mouth

Collection Date/Time: 06/07/2021 10:10

Field ID: G5NE0595

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2252716	EPA 180.1 Rev. 2.0	Turbidity	17	A	NTU	P399382	
	SM 2320 B-2011	Total Alkalinity	125		mg CaCO3/L	P399898	
	SM 2540 D-2011	TSS	102		mg/L	P399683	
	SM 4500 F-C-2011	Fluoride	1.2		mg F/L	P400025	
2252719	EPA 350.1 Rev. 2.0	Ammonia-N	0.064		mg N/L	P399516	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.92		mg N/L	P399467	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P399419	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P399583	
	SM 5310 B-2011	Organic Carbon	6.5		mg C/L	P399731	
2252722	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.042		mg P/L	P399369	

Ref. Method and Comment:

SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: CAPO CREEK 300M ABOVE MOUTH

Collection Date/Time: 06/07/2021 10:45

Field ID: 27010019

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2252717	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P399381	
	SM 2320 B-2011	Total Alkalinity	122		mg CaCO3/L	P399898	
	SM 2540 D-2011	TSS	40		mg/L	P399683	
	SM 4500 F-C-2011	Fluoride	1.2		mg F/L	P400025	
2252720	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P399905	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.94		mg N/L	P399467	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P399419	
	EPA 365.1 Rev. 2.0	Total-P	0.091		mg P/L	P399583	
	SM 5310 B-2011	Organic Carbon	5.6		mg C/L	P399731	
2252723	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.025		mg P/L	P399369	

Ref. Method and Comment:

SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: DEEP CREEK 270M ABOVE ICW

Collection Date/Time: 06/07/2021 11:35

Field ID: 27010165

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2252718	EPA 180.1 Rev. 2.0	Turbidity	24		NTU	P399381	
	SM 2320 B-2011	Total Alkalinity	123		mg CaCO3/L	P399898	
	SM 2540 D-2011	TSS	105		mg/L	P399683	
	SM 4500 F-C-2011	Fluoride	1.2		mg F/L	P400025	
2252721	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P399905	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.87		mg N/L	P399467	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P399419	
	EPA 365.1 Rev. 2.0	Total-P	0.094		mg P/L	P399583	
	SM 5310 B-2011	Organic Carbon	6.3		mg C/L	P399731	
2252724	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.029		mg P/L	P399369	

Ref. Method and Comment:

SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Non-Conformance Report

NCR ID: 8888

<u>Event(s)</u>	<u>Job(s)</u>	<u>Sample(s)</u>	<u>Test(s)</u>
NE-DIST-2021-06-08-01	TLH-2021-06-08-12	2252716	
NE-DIST-2021-06-08-01	TLH-2021-06-08-12	2252717	
NE-DIST-2021-06-08-01	TLH-2021-06-08-12	2252718	

NCR Type: SHIPPING/RECEIVING

NCR Category: Receiving

Observation: LIMS IDs switched during the container labeling process.

Resolution: The incorrect LIMS labels were crossed out and the correct LIMS ID labels were affixed to the appropriate containers. Corrected on: 06/15/2021 at 14:05; any data generated before this date/time will need to be switched in LIMS and/ or log books.

Authorized by/Date: Joshua Ayres 6/28/2021

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: EPA 180.1 Rev. 2.0
Batch ID: P399381

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P399382

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399516

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399905

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399467

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P399419

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P399583

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P399369

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

Reference Method: SM 2320 B-2011
Batch ID: P399898

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P399683

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P400025

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P399731

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399516

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399905

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399467

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P399419

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P399583

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P399369

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

Reference Method: SM 2320 B-2011
Batch ID: P399898

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.5		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P400025

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P399731

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2251252	Ammonia-N	100	99.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2252720	Ammonia-N	102	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399467

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2251613	Kjeldahl Nitrogen	109	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P399419

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2252719	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P399583

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2251870	Total-P	97.8	96.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P399369

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2252722	O-Phosphate-P	99.3	100	P/P	90 - 110

Reference Method: SM 5310 B-2011
Batch ID: P399731

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2252393	Organic Carbon	98.8	98.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P399381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2252584	Turbidity	4.66	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P399382

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2252716	Turbidity	1.75	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2251252	Ammonia-N	0.374	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2252720	Ammonia-N	1.76	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399467

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2251613	Kjeldahl Nitrogen	2.27	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P399419

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2252719	NO2NO3-N	0.499	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P399583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2251870	Total-P	1.84	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P399369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2252722	O-Phosphate-P	0.635	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P399898

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253306	Total Alkalinity	0.670	Sample	P	0 - 5.2

Reference Method: SM 2540 D-2011
Batch ID: P399683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2252822	TSS	6.67	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P400025

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2255537	Fluoride	0.457	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P399731

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2252393	Organic Carbon	0.289	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: A105940
Included Lab Sample IDs: 2252722, 2252723, 2252724

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A105945
Included Lab Sample IDs: 2252716, 2252717, 2252718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	97.0	99.0	P/P	95 - 105
Turbidity	99.0	99.5	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A105963
Included Lab Sample IDs: 2252719, 2252720, 2252721

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A105993
Included Lab Sample IDs: 2252719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.1	97.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A106020
Included Lab Sample IDs: 2252719, 2252720, 2252721

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	97.4	P/P	90 - 110
Kjeldahl Nitrogen	97.9	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A106039
Included Lab Sample IDs: 2252719, 2252720, 2252721

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	99.0	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A106083
Included Lab Sample IDs: 2252719, 2252720, 2252721

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.8	98.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A106146
Included Lab Sample IDs: 2252720, 2252721

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A106146

Included Lab Sample IDs: 2252720, 2252721

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	98.1	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A106152

Included Lab Sample IDs: 2252716, 2252717, 2252718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.7	99.2	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A106203

Included Lab Sample IDs: 2252716, 2252717, 2252718

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	104	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		LCS	Precision	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					4.66	
	Turbidity					1.75	
EPA 350.1 Rev. 2.0	Ammonia-N	99.0	100	99.8			0.374
	Ammonia-N	98.4	102	100			1.76
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	109	106			2.27
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.0	100	100			0.499
EPA 365.1 Rev. 2.0	Total-P	106	97.8	96.0			1.84
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	99.3	100			0.635
SM 2320 B-2011	Total Alkalinity	99.5				0.670	
SM 2540 D-2011	TSS					6.67	
SM 4500 F-C-2011	Fluoride	99.8					0.457
SM 5310 B-2011	Organic Carbon	99.8	98.8	98.4			0.289

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2252716, 2252717, 2252718
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2252719, 2252720, 2252721
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2252719, 2252720, 2252721
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2252719, 2252720, 2252721
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2252719, 2252720, 2252721
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2252722, 2252723, 2252724
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2252716, 2252717, 2252718
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2252716, 2252717, 2252718
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2252716, 2252717, 2252718
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2252719, 2252720, 2252721

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	06/08/2021			06/08/2021 16:44	Yen Ta	2252716, 2252717, 2252718
EPA 350.1 Rev. 2.0	06/08/2021			06/10/2021 13:13	Roberta Tatti	2252719
	06/08/2021			06/17/2021 14:58	Roberta Tatti	2252720
	06/08/2021			06/17/2021 15:06	Roberta Tatti	2252721
EPA 351.2 Rev. 2.0	06/08/2021	06/09/2021 13:07	Benjamin T. Nordmann	06/10/2021 12:19	Virginia P. Brown	2252719
	06/08/2021	06/09/2021 13:07	Benjamin T. Nordmann	06/10/2021 12:24	Virginia P. Brown	2252720
	06/08/2021	06/09/2021 13:07	Benjamin T. Nordmann	06/10/2021 12:26	Virginia P. Brown	2252721
EPA 353.2 Rev. 2.0	06/08/2021			06/09/2021 09:57	Beverly Y. Sanders	2252719
	06/08/2021			06/09/2021 10:03	Beverly Y. Sanders	2252720
	06/08/2021			06/09/2021 10:04	Beverly Y. Sanders	2252721
EPA 365.1 Rev. 2.0	06/08/2021	06/11/2021 14:33	Madeline Gruver	06/14/2021 11:40	Shengyu Ding	2252719
	06/08/2021	06/11/2021 14:33	Madeline Gruver	06/14/2021 11:41	Shengyu Ding	2252720
	06/08/2021	06/11/2021 14:33	Madeline Gruver	06/14/2021 11:42	Shengyu Ding	2252721
EPA 365.1 Rev. 2.0 dissolved	06/08/2021			06/08/2021 14:18	Lipi Saha	2252722
	06/08/2021			06/08/2021 14:21	Lipi Saha	2252723
	06/08/2021			06/08/2021 14:22	Lipi Saha	2252724
SM 2320 B-2011	06/08/2021			06/18/2021 00:12	Dale L. Simmons	2252716
	06/08/2021			06/18/2021 00:27	Dale L. Simmons	2252717
	06/08/2021			06/18/2021 00:42	Dale L. Simmons	2252718
SM 2540 D-2011	06/08/2021			06/11/2021 15:27	Yijie Li	2252716, 2252717, 2252718
SM 4500 F-C-2011	06/08/2021			06/22/2021 03:05	Patrick M. Roche	2252716
	06/08/2021			06/22/2021 03:10	Patrick M. Roche	2252717
	06/08/2021			06/22/2021 03:15	Patrick M. Roche	2252718
SM 5310 B-2011	06/08/2021			06/15/2021 14:25	Madeline Gruver	2252719
	06/08/2021			06/15/2021 14:40	Madeline Gruver	2252720
	06/08/2021			06/15/2021 14:55	Madeline Gruver	2252721