

Chemical Analysis Report

CEN-DIST-2022-02-15-03

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

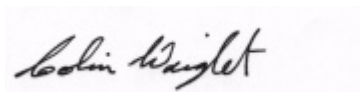
Event Description: **Run 12**
Request ID: **RQ-2022-02-14-15**
Customer: **CEN-DIST**
Project ID: **SMP**

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Certified by: Colin Wright, Program Administrator

Date Certified: 09-MAR-2022 08:44



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: Bird Lake Ditches 1.2mi W of 95

Collection Date/Time: 02/14/2022 11:11

Field ID: G3CE0046

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305609	DEP SOP: NU-094-1	Color (true)**	80		PCU	P409869	
	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P409872	
	EPA 300.0 Rev. 2.1	Chloride	540		mg Cl/L	P410028	
		Sulfate	93		mg SO4/L	P410031	
	SM 2320 B-2011	Total Alkalinity	136		mg CaCO3/L	P409941	
	SM 2540 C-2011	TDS	1.15E+03		mg/L	P410161	
	SM 2540 D-2011	TSS	3	I	mg/L	P410192	
	SM 4500 F-C-2011	Fluoride	0.25		mg F/L	P409942	
2305610	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P410408	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P409882	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.037		mg N/L	P410232	
	EPA 365.1 Rev. 2.0	Total-P	0.082		mg P/L	P409835	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P410385	
2305611	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.046		mg P/L	P409865	

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: DEP SOP: NU-094-1
Batch ID: P409869

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409872

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410028

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410031

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410408

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409882

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410232

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409835

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409865

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P409941

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P410161

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P410192

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P409942

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P410385

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P409869

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409872

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410028

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410031

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410408

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409882

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410232

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409835

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409865

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P409941

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.3		P	94 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P409942

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.8		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P410385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305323	Chloride	103		P	90 - 110
2305515	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410031

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305323	Sulfate	101		P	90 - 110
2305515	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305600	Ammonia-N	97.0	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409882

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305521	Kjeldahl Nitrogen	102	94.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410232

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305563	NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409835

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305520	Total-P	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409865

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305604	O-Phosphate-P	93.0	95.2	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P409942

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305588	Fluoride	98.8	98.1	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P410385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305518	Organic Carbon	95.7	97.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P409869

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305562	Color (true)	0.399	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409872

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305516	Turbidity	6.64	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305323	Chloride	0.231	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P410031

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305323	Sulfate	0.128	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P410408

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305600	Ammonia-N	0.905	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409882

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305521	Kjeldahl Nitrogen	6.30	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P410232

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305563	NO2NO3-N	0.494	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P409835

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305520	Total-P	0.507	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409865

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305604	O-Phosphate-P	2.10	Spike	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P409941

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305588	Total Alkalinity	0.139	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P410161

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305329	TDS	4.41	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P409942

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305588	Fluoride	0.477	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305518	Organic Carbon	1.34	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: A110421

Included Lab Sample IDs: 2305611

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.2	99.6	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A110422

Included Lab Sample IDs: 2305609

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	101	P/P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110423

Included Lab Sample IDs: 2305609

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	103	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110424

Included Lab Sample IDs: 2305609

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

Reference Method: SM 2320 B-2011

Run ID: A110447

Included Lab Sample IDs: 2305609

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.0	90.3	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110447

Included Lab Sample IDs: 2305609

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110512

Included Lab Sample IDs: 2305610

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.2	95.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110529

Included Lab Sample IDs: 2305610

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110565

Included Lab Sample IDs: 2305610

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	101	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A110636

Included Lab Sample IDs: 2305610

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.9	96.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110644

Included Lab Sample IDs: 2305610

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.1	99.5	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	
DEP SOP: NU-094-1	Color (true)	100				0.399	
EPA 180.1 Rev. 2.0	Turbidity	97.4				6.64	
EPA 300.0 Rev. 2.1	Chloride	103	103	102		0.231	
	Sulfate	102	101	101		0.128	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	97.0	98.4			0.905
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	102	94.3			6.30
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	102	101			0.494
EPA 365.1 Rev. 2.0	Total-P	102	104	105			0.507
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	93.0	95.2			2.10
SM 2320 B-2011	Total Alkalinity	98.3				0.139	
SM 2540 C-2011	TDS					4.41	
SM 4500 F-C-2011	Fluoride	98.8	98.8	98.1			0.477
SM 5310 B-2011	Organic Carbon	96.0	95.7	97.5			1.34

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2305609
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2305609
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2305609
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2305609
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2305610
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2305610
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2305610
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2305610
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2305611
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2305609
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2305609
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2305609
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2305609
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2305610

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	02/15/2022			02/15/2022 15:52	Samantha L Bates	2305609
EPA 180.1 Rev. 2.0	02/15/2022			02/15/2022 15:16	Khloe J Berg	2305609
EPA 300.0 Rev. 2.1	02/15/2022			02/17/2022 23:21	Roberta Tatti	2305609
EPA 350.1 Rev. 2.0	02/15/2022			02/25/2022 15:20	Ping Hua	2305610
EPA 351.2 Rev. 2.0	02/15/2022	02/17/2022 14:14	Samantha L Bates	02/18/2022 16:16	Alexandra J Mattheus	2305610
EPA 353.2 Rev. 2.0	02/15/2022			02/23/2022 09:04	Beverly Y. Sanders	2305610
EPA 365.1 Rev. 2.0	02/15/2022	02/16/2022 14:20	Simonne.V. Calhoun	02/17/2022 16:05	Shengyu Ding	2305610
EPA 365.1 Rev. 2.0 dissolved	02/15/2022			02/15/2022 14:52	James L Waggeberby	2305611
SM 2320 B-2011	02/15/2022			02/16/2022 19:41	Dale L. Simmons	2305609
SM 2540 C-2011	02/15/2022			02/16/2022 15:36	Yijie Li	2305609
SM 2540 D-2011	02/15/2022			02/16/2022 15:36	Yijie Li	2305609
SM 4500 F-C-2011	02/15/2022			02/16/2022 19:41	Dale L. Simmons	2305609
SM 5310 B-2011	02/15/2022			02/25/2022 13:11	Touraj Touran	2305610