

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-202344-1

Client Project/Site: NWROC SMP RQ-2021-04-19-33

For:

DEP - Bureau of Labs Biology Section
Twin Towers Lab Complex A Rm 216 6515
2600 Blirstone Rd MS
Tallahassee, Florida 32399

Attn: Kara Sprague



Authorized for release by:
4/27/2021 11:14:08 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Sample Summary	4
Client Sample Results	5
Definitions	6
QC Association	7
QC Sample Results	8
Chronicle	9
Method Summary	14
Certification Summary	15
Chain of Custody	16
Receipt Checklists	17



Case Narrative

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP RQ-2021-04-19-33

Job ID: 400-202344-1

Job ID: 400-202344-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-202344-1

Comments

No additional comments.

Receipt

The samples were received on 4/21/2021 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.9° C.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP RQ-2021-04-19-33

Job ID: 400-202344-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-202344-1	G3NW0215 Twin Lake	Water	04/21/21 10:10	04/21/21 13:45	
400-202344-2	G3NW0448 Twin Lake	Water	04/21/21 10:25	04/21/21 13:45	
400-202344-3	G3NW0449 Twin Lake	Water	04/21/21 10:50	04/21/21 13:45	
400-202344-4	G3NW0216 Coleman Lake	Water	04/21/21 11:25	04/21/21 13:45	
400-202344-5	G3NW0217 Kell-Aire Lake	Water	04/21/21 11:35	04/21/21 13:45	

Client Sample Results

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP RQ-2021-04-19-33

Job ID: 400-202344-1

Client Sample ID: G3NW0215 Twin Lake

Lab Sample ID: 400-202344-1

Date Collected: 04/21/21 10:10

Matrix: Water

Date Received: 04/21/21 13:45

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	230		10.0	10.0	CFU/100mL			04/21/21 16:17	10

Client Sample ID: G3NW0448 Twin Lake

Lab Sample ID: 400-202344-2

Date Collected: 04/21/21 10:25

Matrix: Water

Date Received: 04/21/21 13:45

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	62.0		2.00	2.00	CFU/100mL			04/21/21 16:17	2

Client Sample ID: G3NW0449 Twin Lake

Lab Sample ID: 400-202344-3

Date Collected: 04/21/21 10:50

Matrix: Water

Date Received: 04/21/21 13:45

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	52.0		2.00	2.00	CFU/100mL			04/21/21 16:17	2

Client Sample ID: G3NW0216 Coleman Lake

Lab Sample ID: 400-202344-4

Date Collected: 04/21/21 11:25

Matrix: Water

Date Received: 04/21/21 13:45

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	240		2.86	2.86	CFU/100mL			04/21/21 16:17	2.86

Client Sample ID: G3NW0217 Kell-Aire Lake

Lab Sample ID: 400-202344-5

Date Collected: 04/21/21 11:35

Matrix: Water

Date Received: 04/21/21 13:45

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	52.0		2.00	2.00	CFU/100mL			04/21/21 16:17	2

Definitions/Glossary

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP RQ-2021-04-19-33

Job ID: 400-202344-1

Qualifiers

Biology

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP RQ-2021-04-19-33

Job ID: 400-202344-1

Biology

Analysis Batch: 528765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-202344-1	G3NW0215 Twin Lake	Total/NA	Water	SM 9222D	
400-202344-2	G3NW0448 Twin Lake	Total/NA	Water	SM 9222D	
400-202344-3	G3NW0449 Twin Lake	Total/NA	Water	SM 9222D	
400-202344-4	G3NW0216 Coleman Lake	Total/NA	Water	SM 9222D	
400-202344-5	G3NW0217 Kell-Aire Lake	Total/NA	Water	SM 9222D	
MB 400-528765/14	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-528765/2	Lab Control Sample	Total/NA	Water	SM 9222D	

QC Sample Results

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP RQ-2021-04-19-33

Job ID: 400-202344-1

Method: SM 9222D - Coliforms, Fecal (Membrane Filter)

Lab Sample ID: MB 400-528765/14

Matrix: Water

Analysis Batch: 528765

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	1.00	U	1.00	1.00	CFU/100mL			04/21/21 16:17	1

Lab Sample ID: LCS 400-528765/2

Matrix: Water

Analysis Batch: 528765

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Coliform, Fecal	6000	6000		CFU/100mL		100	0 - 100

Lab Chronicle

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP RQ-2021-04-19-33

Job ID: 400-202344-1

Client Sample ID: G3NW0215 Twin Lake

Lab Sample ID: 400-202344-1

Date Collected: 04/21/21 10:10

Matrix: Water

Date Received: 04/21/21 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		10			528765		DEK	TAL PEN
							(Start)	04/21/21 16:17		
							(End)	04/22/21 15:31		

Client Sample ID: G3NW0448 Twin Lake

Lab Sample ID: 400-202344-2

Date Collected: 04/21/21 10:25

Matrix: Water

Date Received: 04/21/21 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		2			528765		DEK	TAL PEN
							(Start)	04/21/21 16:17		
							(End)	04/22/21 15:31		

Client Sample ID: G3NW0449 Twin Lake

Lab Sample ID: 400-202344-3

Date Collected: 04/21/21 10:50

Matrix: Water

Date Received: 04/21/21 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		2			528765		DEK	TAL PEN
							(Start)	04/21/21 16:17		
							(End)	04/22/21 15:31		

Client Sample ID: G3NW0216 Coleman Lake

Lab Sample ID: 400-202344-4

Date Collected: 04/21/21 11:25

Matrix: Water

Date Received: 04/21/21 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		2.86			528765		DEK	TAL PEN
							(Start)	04/21/21 16:17		
							(End)	04/22/21 15:31		

Client Sample ID: G3NW0217 Kell-Aire Lake

Lab Sample ID: 400-202344-5

Date Collected: 04/21/21 11:35

Matrix: Water

Date Received: 04/21/21 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		2			528765		DEK	TAL PEN
							(Start)	04/21/21 16:17		
							(End)	04/22/21 15:31		

Lab Chronicle

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP RQ-2021-04-19-33

Job ID: 400-202344-1

Client Sample ID: Method Blank

Lab Sample ID: MB 400-528765/14

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			528765		DEK	TAL PEN
							(Start)	04/21/21 16:17		
							(End)	04/22/21 15:31		

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-528765/2

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 9222D		1			528765		DEK	TAL PEN
							(Start)	04/21/21 15:31		
							(End)	04/22/21 13:38		

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Coliform Calculations

Sample #	Colonies #	Sample Size (mL)	CFU/100 mL
1	0	50	
1-DU	0	50	0
1			
1			
Total	0	100	0

202320-1

2	0	50	
2			
2			
2			
Total	0	50	0

202344

1	23	10	
1			
Total	23	10	230

202344

2	31	50	
2			
Total	31	50	62

202344

3	26	50	
3			
Total	26	50	52

202344

4	32	10	
4	52	25	
Total	84	35	240

202344

5	26	50	
5			
Total	26	50	52

Sample #	Colonies #	Sample Size (mL)	CFU/100 mL
Total	0	0	#DIV/0!

Total	0	0	#DIV/0!

Total	0	0	#DIV/0!

Total	0	0	#DIV/0!

12			
12			
12			
12			
Total	0	0	#DIV/0!

13			
13			
13			
13			
Total	0	0	#DIV/0!

14			
14			
14			
14			
Total	0	0	#DIV/0!

1st
4/22/21

Fecal Coliform Analysis – Method SM 9222D, 20th/SM 9222D-97

TALS Batch: 508705 mFC ID: 5414448 E. coli ID: E. coli work 00025
Analyst Setting: DK Date: 4/21/21 Analyst Reading: DK Date: 4/22/21
Dilution Water ID: 5329528 Membrane Filter ID: 5328342 Loop ID: 5344863
Petri Dish ID: 5328344 Pipette ID: 5397989

Petri dishes must be incubated for 24 ± 2 hours @ 44.5 ± 0.2°C (Instrument ID: Incubator IN004).

The analyst maintained custody of the samples during analysis and relinquished samples to the storage refrigerator.

Sample ID	Type of Sample	Funnel #	Res CI (Y/N)	Sample Size (ml)	Set	Read	# colonies	Colonies/ 100ml	Confirmed ("X")
					Time/Temp (hr:min/°C)	Time/Temp (hr:min/°C)			
Blank	Dil H ₂ O	12	N	100	153/44.5	1338/44.8	0	0	
LCS: E. Coli (+ & +)	QC			1/100	/	/	760	6000	
202320 A1	Mixer			50	/	/	0	0	
↓ DU				50	/	/	0	0	
202332 C1				100	/	/	0	0	
202198 E1				105	/	/	0	12.22	
				10	/	/	1		
				25	/	/	4		
				50	/	/	6		
202198 E2				5	/	/	0	26.67	
				10	/	/	2		
				25	/	/	10		
				50	/	/	12		
202198 E3				5	/	/	0	66.67	
				10	/	/	1		
				25	/	/	14		
				50	/	/	45		
End Blank				100	/	/	0	0	
202344 A1		10	N	10	1617/44.5	153/44.5	83	274.12	
				25	/	/	66		
				50	/	/	144		
End					/	/			

- E. coli (LCS) must be analyzed every 10 samples.
- Dilution water blanks must be analyzed at the beginning and end of every run (i.e. when a new funnel is used).
- A new funnel must be used every 30 minutes during analysis.
- DU must be analyzed at the same sample volume as the original sample every 10 samples.

Reviewer: DK Date: 4/22/21

Fecal Coliform Analysis – Method SM 9222D, 20th/SM 9222D-97

TALS Batch: 520765 mFC ID: 541447 E. coli ID: _____

Analyst Setting: DR Date: 4/21/21 Analyst Reading: DR Date: 4/22/21

Dilution Water ID: 5329528 Membrane Filter ID: 5328342

Loop ID: 5344863

Petri Dish ID: 5328344 Pipette ID: 5397989

Petri dishes must be incubated for 24 ± 2 hours @ 44.5 ± 0.2°C (Instrument ID: Incubator IN004).

The analyst maintained custody of the samples during analysis and relinquished samples to the storage refrigerator.

Sample ID	Type of Sample	Funnel #	Res Cl (Y/N)	Sample Size (ml)	Set		Read		# colonies	Colonies/ 100ml	Confirmed ("X")			
					Time/Temp (hr:min/°C)		Time/Temp (hr:min/°C)							
Blank	Dil H ₂ O				/		/							
LCS: E.Coli (+ & +)	QC				4/24/21		/							
					/		/							
DU					/		/							
202344 A2	unw	10	N	10	16:17	144.5	15:31	144.5	4	50.59				
				25	/	/	/	/	8					
				50	/	/	/	/	31					
202344 A3				10	/	/	/	/	0	45.88				
				25	/	/	/	/	13					
				50	/	/	/	/	26					
202344 A4				10	/	/	/	/	32	250.59				
				25	/	/	/	/	52					
				50	/	/	/	/	129					
202344 A5				10	/	/	/	/	5	49.41				
				25	/	/	/	/	11					
				50	/	/	/	/	26					
End Blank								/	/	/	/	0		
								/	/	/	/			
								/	/	/	/			
								4/24/21		/				
								/		/				

- E.coli (LCS) must be analyzed every 10 samples.
- Dilution water blanks must be analyzed at the beginning and end of every run (i.e. when a new funnel is used).
- A new funnel must be used every 30 minutes during analysis.
- DU must be analyzed at the same sample volume as the original sample every 10 samples.

Reviewer: DR Date: 4/24/21

Method Summary

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP RQ-2021-04-19-33

Job ID: 400-202344-1

Method	Method Description	Protocol	Laboratory
SM 9222D	Coliforms, Fecal (Membrane Filter)	SM	TAL PEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP RQ-2021-04-19-33

Job ID: 400-202344-1

Laboratory: Eurofins TestAmerica, Pensacola

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E81010	06-30-21

1

2

3

4

5

6

7

8

9

10

11

12

13

Login Sample Receipt Checklist

Client: DEP - Bureau of Labs Biology Section

Job Number: 400-202344-1

Login Number: 202344

List Source: Eurofins TestAmerica, Pensacola

List Number: 1

Creator: Conrady, Hank W

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.9°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	