eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 400-194719-1
Client Project/Site: NWROC SMP
Revision: 1

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

Attn: Kara Sprague

Noël Savoie

Authorized for release by:
11/25/2020 4:20:23 PM

Noel Savoie, Project Manager I
(850)254-0107
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Job ID: 400-194719-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
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Comments
Revision created to correct the incubation end time.

Receipt
The sample was received on 10/21/2020 1:20 PM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0º 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

Job ID: 400-194719-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-194719-1	G3NW0151 EAGLE CREEK	Water	10/21/20 11:17	10/21/20 13:20	

Client Sample Results

Client: DEP - Bureau of Labs Biology Section
Job ID: 400-194719-1
Project/Site: NWROC SMP

Client Sample ID: G3NW0151 EAGLE CREEK
Lab Sample ID: 400-194719-1
Date Collected: 10/21/20 11:17
Matrix: Water
Date Received: 10/21/20 13:20

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	76.0		1.33	1.33	CFU/100mL			10/21/20 17:00	1.333

Definitions/Glossary

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194719-1

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

Job ID: 400-194719-1

Biology

Analysis Batch: 508010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-194719-1	G3NW0151 EAGLE CREEK	Total/NA	Water	SM 9222D	
MB 400-508010/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-508010/2	Lab Control Sample	Total/NA	Water	SM 9222D	

KMM 10-21-20

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

Batch: _____ TALS Batch: _____ mFC Lot #: ~~A20085~~ A0227 Expiration Date: ~~11-Mar-2021~~ Aug-21

Analyst Setting: KMM Date: 10.21.20 Analyst Reading: MF Date: 10/22/20

Dilution Water Lot #: 5117614 *E. coli* Lot #: 465-145-5 Membrane Filter Lot #: FOCB26848

Loop ID: 19101160 Pipette ~~0.5~~2mL ID: _____ Pipette ~~5~~10mL ID: _____ Pipette 25mL ID: _____

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	Res Cl (Y/N)	Sample Size (ml)	Set Time/Temp (hr:min/°C)	Read Time/Temp (hr:min/°C)	# colonies	Colonies/ 100ml	Confirmed ("X")
Blank	Dilution H_2O	N	100	11:08 / 44.5	11:00 / 44.5	0	0	
LCS: *E.Coli* (+ & +)	QC	N	1/100	/	/	760	6000	
I 007	water	N	50	/	/	0	0	
I 007 DU	water	N	50	/	/	0	0	
TOWN	water	N	100	/	/	0	0	
EB	QC	N	100	/	/	0	0	
KMM 10.21.20 + ECV. 1947191A1		—	10	17:00 / 44.5	17:48 / 44.5	5	7294	
		—	25	/	/	24		
		—	50	/	/	33		
1947181A1 SC		+	50	/	/	0	0	
End MB		—	100	/	/	0	0	
				/	/			
				/	/			
				/	/			
				/	/			
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				/	/			
				/	/			

- *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.

1st Level Reviewer: _____ Date: _____ 2nd Level Reviewer: _____ Date: _____

Coliform Calculations

Sample # 194719	Colonies #	Sample Size (mL)	CFU/100 mL
			#DIV/0!
Total	0	0	#DIV/0!

Sample #	Colonies #	Sample Size (mL)	CFU/100 mL
8			
8			
8			
8			
Total	0	0	#DIV/0!

1	24	25	
1	33	50	
Total	57	75	76

9			
9			
9			
9			
Total	0	0	#DIV/0!

2			
2			
2			
2			
Total	0	0	#DIV/0!

10			
10			
10			
10			
Total	0	0	#DIV/0!

4			
4			
4			
4			
Total	0	0	#DIV/0!

11			
11			
11			
11			
Total	0	0	#DIV/0!

5			
5			
5			
5			
Total	0	0	#DIV/0!

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

6			
6			
6			
6			
Total	0	0	#DIV/0!

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

7			
7			
7			
7			
Total	0	0	#DIV/0!

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

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194719-1

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

Lab Sample ID: MB 400-508010/1
Matrix: Water
Analysis Batch: 508010

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			10/21/20 11:08	1

Lab Chronicle

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194719-1

Client Sample ID: G3NW0151 EAGLE CREEK

Lab Sample ID: 400-194719-1

Date Collected: 10/21/20 11:17

Matrix: Water

Date Received: 10/21/20 13:20

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		1.333			508010		MAF	TAL PEN
								(Start) 10/21/20 17:00		
								(End) 10/22/20 17:40		

Client Sample ID: Method Blank

Lab Sample ID: MB 400-508010/1

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			508010		MAF	TAL PEN
								(Start) 10/21/20 11:08		
								(End) 10/22/20 11:00		

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-508010/2

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			508010		MAF	TAL PEN
								(Start) 10/21/20 11:08		
								(End) 10/22/20 11:00		

Laboratory References:

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

Method Summary

Client: DEP - Bureau of Labs Biology Section
Project/Site: NWROC SMP

Job ID: 400-194719-1

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
Job ID: 400-194719-1
Project/Site: NWROC SMP

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

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514-7045
phone 850.474.1001 fax 850.474.4789 or 850.478.2671

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:TMDL

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	**Project Manager: Kara Sprague**		
Florida Department of Environmental Protection	Email: dep-overflowmicro@dep.state.fl.us	**Contact: Stopher Slade**	**Date: 10/21/2020**
2600 Blair Stone Rd.	**Tel/Fax: 850-245-8826**	**Contact #: 850-595-0567**	**Carrier: Hand delivered**
Tallahassee, FL 32301	**Analysis Turnaround Time**		
Phone	☑ CALENDAR DAYS ☐ WORKING DAYS		
FAX	TAT if different from Below _____		
Project Name: NWROC SMP **RQ-2020**-09-21-23	☑ 2 weeks		
Site: Eagle Creek	☐ 1 week		
P O # B7CCF3	☐ 2 days		
	☐ 1 day		

COC No: 660-90793-29403.1
__1__ of __1__ COCs
Sampler: M. Clark; H. Schmuki
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

400-194719 COC

Sample Identification	Sample Date	Sample Time (CTZ)	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	9222D- Fecal Coliforms (Membrane Filter)	Sample Specific Notes:
G3NW0151 Eagle Creek	10/21/20	1117	G	W	1	N		1	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

2.0 °C IR7

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by: H Schmuki	Company: **FDEP**	Date/Time: 13:20 10/21/20	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Kathy Clancy	Company: ETA	Date/Time: 10.21.20 1320

Login Sample Receipt Checklist

Client: DEP - Bureau of Labs Biology Section

Job Number: 400-194719-1

Login Number: 194719
List Number: 1
Creator: Perez, Trina M

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	2.0°C IR-7
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	