

ANALYTICAL REPORT

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

Laboratory Job ID: 400-216023-1

Client Project/Site: NWROC SMP

For:

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

Attn: Reporting Group



Authorized for release by:
3/11/2022 10:36:17 AM

Noel Savoie, Project Manager I
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Definitions/Glossary

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

Job ID: 400-216023-1

Qualifiers

Biology

Qualifier	Qualifier Description
B	Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts.
Q	Sample held beyond the accepted holding time.
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.
α	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

Case Narrative

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

Job ID: 400-216023-1

Job ID: 400-216023-1

Laboratory: Eurofins Pensacola

Narrative

Job Narrative 400-216023-1

Comments

No additional comments.

Receipt

The samples were received on 2/24/2022 2:21 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 1.9° C.

General Chemistry

Method SM 9222D: The following samples were analyzed outside of analytical holding time due to heavy micro load at time of set up. G3NW0185 Mack Bayou (400-216023-2) and G3NW0233 Buck Bayou (400-216023-3).

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

Client Sample Results

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

Job ID: 400-216023-1

Client Sample ID: G3NW0152 Hogtown Bayou

Lab Sample ID: 400-216023-1

Date Collected: 02/24/22 11:30

Matrix: Water

Date Received: 02/24/22 14:21

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	10.0	B	10.0	10.0	CFU/100mL			02/24/22 17:14	10

Client Sample ID: G3NW0185 Mack Bayou

Lab Sample ID: 400-216023-2

Date Collected: 02/24/22 09:55

Matrix: Water

Date Received: 02/24/22 14:21

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	60.0	Q B	10.0	10.0	CFU/100mL			02/24/22 17:14	10

Client Sample ID: G3NW0233 Buck Bayou

Lab Sample ID: 400-216023-3

Date Collected: 02/24/22 09:30

Matrix: Water

Date Received: 02/24/22 14:21

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	100	Q B	50.0	50.0	CFU/100mL			02/24/22 17:14	50

Client Sample ID: G3N0218 Hewett Bayou

Lab Sample ID: 400-216023-4

Date Collected: 02/24/22 10:30

Matrix: Water

Date Received: 02/24/22 14:21

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	10.0	B	10.0	10.0	CFU/100mL			02/24/22 17:14	10

Client Sample ID: G3NW0234 Mussett Bayou

Lab Sample ID: 400-216023-5

Date Collected: 02/24/22 10:50

Matrix: Water

Date Received: 02/24/22 14:21

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	20.0	B	10.0	10.0	CFU/100mL			02/24/22 17:14	10

Client Sample ID: G3NW0235 Churchill Bayou

Lab Sample ID: 400-216023-6

Date Collected: 02/24/22 11:15

Matrix: Water

Date Received: 02/24/22 14:21

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	10.0	B	10.0	10.0	CFU/100mL			02/24/22 17:14	10

QC Sample Results

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

Job ID: 400-216023-1

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

Lab Sample ID: MB 400-568146/1

Matrix: Water

Analysis Batch: 568146

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			02/24/22 17:14	1

Lab Sample ID: LCS 400-568146/2

Matrix: Water

Analysis Batch: 568146

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

QC Association Summary

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

Job ID: 400-216023-1

Biology

Analysis Batch: 568146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-216023-1	G3NW0152 Hogtown Bayou	Total/NA	Water	SM 9222D	
400-216023-2	G3NW0185 Mack Bayou	Total/NA	Water	SM 9222D	
400-216023-3	G3NW0233 Buck Bayou	Total/NA	Water	SM 9222D	
400-216023-4	G3N0218 Hewett Bayou	Total/NA	Water	SM 9222D	
400-216023-5	G3NW0234 Mussett Bayou	Total/NA	Water	SM 9222D	
400-216023-6	G3NW0235 Churchill Bayou	Total/NA	Water	SM 9222D	
MB 400-568146/1	Method Blank	Total/NA	Water	SM 9222D	
LCS 400-568146/2	Lab Control Sample	Total/NA	Water	SM 9222D	

Lab Chronicle

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

Job ID: 400-216023-1

Client Sample ID: G3NW0152 Hogtown Bayou

Lab Sample ID: 400-216023-1

Date Collected: 02/24/22 11:30

Matrix: Water

Date Received: 02/24/22 14:21

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			568146		RRC	TAL PEN
							(Start)	02/24/22 17:14		
							(End)	02/25/22 16:35		

Client Sample ID: G3NW0185 Mack Bayou

Lab Sample ID: 400-216023-2

Date Collected: 02/24/22 09:55

Matrix: Water

Date Received: 02/24/22 14:21

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			568146		RRC	TAL PEN
							(Start)	02/24/22 17:14		
							(End)	02/25/22 16:35		

Client Sample ID: G3NW0233 Buck Bayou

Lab Sample ID: 400-216023-3

Date Collected: 02/24/22 09:30

Matrix: Water

Date Received: 02/24/22 14:21

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		50			568146		RRC	TAL PEN
							(Start)	02/24/22 17:14		
							(End)	02/25/22 16:35		

Client Sample ID: G3N0218 Hewett Bayou

Lab Sample ID: 400-216023-4

Date Collected: 02/24/22 10:30

Matrix: Water

Date Received: 02/24/22 14:21

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			568146		RRC	TAL PEN
							(Start)	02/24/22 17:14		
							(End)	02/25/22 16:35		

Client Sample ID: G3NW0234 Mussett Bayou

Lab Sample ID: 400-216023-5

Date Collected: 02/24/22 10:50

Matrix: Water

Date Received: 02/24/22 14:21

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			568146		RRC	TAL PEN
							(Start)	02/24/22 17:14		
							(End)	02/25/22 16:35		

Lab Chronicle

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

Job ID: 400-216023-1

Client Sample ID: G3NW0235 Churchill Bayou

Lab Sample ID: 400-216023-6

Date Collected: 02/24/22 11:15

Matrix: Water

Date Received: 02/24/22 14:21

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			568146		RRC	TAL PEN
							(Start)	02/24/22 17:14		
							(End)	02/25/22 16:35		

Client Sample ID: Method Blank

Lab Sample ID: MB 400-568146/1

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			568146		RRC	TAL PEN
							(Start)	02/24/22 17:14		
							(End)	02/25/22 16:35		

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 400-568146/2

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	1 mL	1 mL	568146		RRC	TAL PEN
							(Start)	02/24/22 17:14		
							(End)	02/25/22 16:35		

Laboratory References:

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

Coliform Calculations

Sample #	Colonies #	Sample Size (mL)	CFU/100 mL
216023-a-1	1	10	B
Total	1	10	10

216023-a-2	6	10	B
2			
2			
2			
Total	6	10	60

216023-a-3	2	2	B
3			
3			
3			
Total	2	2	100

216023-a-4	1	10	B
4			
4			
4			
Total	1	10	10

216023-a-5	2	10	B
5			
5			
5			
Total	2	10	20

216023-a-6	1	10	B
6			
6			
6			
Total	1	10	10

	0	10	
7			
7			
7			
Total	0	10	0

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

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

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

11			
11			
11			
11			
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!

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

TALS Batch: _____ mFC ID: _____ E. coli ID: _____
Analyst Setting: DN Date: 2/24/22 Analyst Reading: [Signature] Date: 2/25/22
Dilution Water ID: _____ Membrane Filter ID: _____ Loop ID: _____
Petri Dish ID: _____ Pipette 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	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		N	100	17:14 / 44.5	16:55 / 44.5	0	0	
LCS: E. Coli (+ & +)	QC			1/100	/	/	760	6000	
216023A1	Water			2	/	/	0	0	
DU				5	/	/	1	20	
				10	/	/	1		11.76
216023A2				2	/	/	1		
				5	/	/	1		
				10	/	/	6		47.05882
216023A3				2	/	/	2		
				5	/	/	1		23.52941
				10	/	/	1		
216023A4				2	/	/	8		
				5	/	/	8		5.8823529
				10	/	/	1		
216023A5				2	/	/	0		
				5	/	/	1		17.64706
				10	/	/	2		
216023A6				2	/	/	0		
				5	/	/	0		5.882353
				10	/	/	1		
216898F15				10	/	/	0	0	
G16				10	/	/	0	0	
F17				10	/	/	0	0	

- 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: _____ Date: _____

Accreditation/Certification Summary

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

Job ID: 400-216023-1

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E81010	06-30-22

1

2

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13

Method Summary

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

Job ID: 400-216023-1

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 Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

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

Job ID: 400-216023-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-216023-1	G3NW0152 Hogtown Bayou	Water	02/24/22 11:30	02/24/22 14:21
400-216023-2	G3NW0185 Mack Bayou	Water	02/24/22 09:55	02/24/22 14:21
400-216023-3	G3NW0233 Buck Bayou	Water	02/24/22 09:30	02/24/22 14:21
400-216023-4	G3N0218 Hewett Bayou	Water	02/24/22 10:30	02/24/22 14:21
400-216023-5	G3NW0234 Mussett Bayou	Water	02/24/22 10:50	02/24/22 14:21
400-216023-6	G3NW0235 Churchill Bayou	Water	02/24/22 11:15	02/24/22 14:21

Chain of Custody Record



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

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

Project Manager: Kara Sprague

Email: dep-overflowmicro@dep.state.fl.us

Tel/Fax: 850-245-8826

Analysis Turnaround Time

☒ CALENDAR DAYS ☐ WORKING DAYS

TAT if different from Below

☒ 2 weeks

☐ 1 week

☐ 2 days

☐ 1 day

Project Name: NWROC SMP RQ-2022-02-21-62

Site: Hogtown Bayou Run

PO # PO2529165

Phone

FAX

Contact

Florida Department of Environmental Protection

2600 Blair Stone Rd.

Tallahassee, FL 32301

Contact: Stophor Slade

Contact #: 850-595-0567

Date: 2/24/2022

Carrier: Hand delivered

COC No: 660-90793-29403.1

1 of 1 COCs

Sampler: S. Slade

For Lab Use Only:

Walk-in Client:

Lab Sampling:

Job / SDG No.:

Sample Specific Notes:

Salinity: 23 ppt

Salinity: 23 ppt

Salinity: 23 ppt

Salinity: 23 ppt

Salinity: 23 ppt

Salinity: 23 ppt

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Salinity: 23 ppt

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other
Possible Hazard Identification: NONE

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-Hazardous ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No

Relinquished by: *Stophor Slade*

Relinquished by:

Relinquished by:

Custody Seal No.:

Company: FDEP

Company:

Company:

Cooler Temp. (°C):

Obs'd:

Received by:

Received by:

Received in Laboratory by:

Therm ID No.:

Date/Time:

Date/Time:

Date/Time:

Archive for

Months

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

Return to Client

Disposal by Lab

Archive for

Months

1.9°C FRS

Company: FDEP

Company: FDEP

Company: FDEP

2/24/22 14:21

2/24/22 14:21

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2/24/22 14:21

Login Sample Receipt Checklist

Client: DEP - Bureau of Labs Biology Section

Job Number: 400-216023-1

Login Number: 216023

List Source: Eurofins Pensacola

List Number: 1

Creator: Roberts, Alexis J

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.	N/A	
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	1.9°C IR9
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	