

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/26/2023 12:11:11 PM Revision 1

JOB DESCRIPTION

NWROC SMP

JOB NUMBER

660-131910-1

Eurofins Tampa

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
10/26/2023 12:11:11 PM
Revision 1

Authorized for release by
Noel Savoie, Project Manager I
Noel.Savoie@et.eurofinsus.com
(850)254-0107

Table of Contents

Cover Page	1
Table of Contents	3
Sample Summary	4
Case Narrative	5
Definitions/Glossary	6
Detection Summary	7
Client Sample Results	8
QC Association Summary	9
Lab Chronicle	12
Method Summary	13
Certification Summary	14
Chain of Custody	15
Receipt Checklists	16



Sample Summary

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

Job ID: 660-131910-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-131910-1	G1SW0060	Water	09/27/23 09:00	09/27/23 13:35
660-131910-2	G2SW0157	Water	09/27/23 09:50	09/27/23 13:35
660-131910-3	G2SW0158	Water	09/27/23 10:35	09/27/23 13:35
660-131910-4	G2SW0143	Water	09/27/23 10:55	09/27/23 13:35
660-131910-5	G1SW0136	Water	09/27/23 11:35	09/27/23 13:35
660-131910-6	G1SW0146	Water	09/27/23 12:10	09/27/23 13:35

Case Narrative

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

Job ID: 660-131910-1

Job ID: 660-131910-1

Laboratory: Eurofins Tampa

Narrative

Job Narrative 660-131910-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Revision

The report being provided is a revision of the original report sent on 10/14/2023. The report (revision 1) is being revised due to: client requested modification to case narrative.

Receipt

The samples were received on 9/27/2023 1:35 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 time was 7.0°C 

Receipt Exceptions

The following samples were canceled for Entero by the client on 09/28/2023: G1SW0060 (660-131910-1), G2SW0157 (660-131910-2), G2SW0158 (660-131910-3), G2SW0143 (660-131910-4), G1SW0136 (660-131910-5),  G1SW0146 (660-131910-6) and G1SW0137 (660-131910-7) due to insufficient time to get the sample to Orlando in hold.

General Chemistry

Method QuantiTray2000: Samples were received in client provided containers for this analysis and were transferred into a 100 ml container per Tampa SOP ID: OR-BA-001, Rev. 2. G1SW0060 (660-131910-1), G2SW0157 (660-131910-2), G2SW0158 (660-131910-3), G2SW0143 (660-131910-4), G1SW0136 (660-131910-5) and G1SW0146 (660-131910-6)

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

Definitions/Glossary

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

Job ID: 660-131910-1

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

Detection Summary

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

Job ID: 660-131910-1

Client Sample ID: G1SW0060

Lab Sample ID: 660-131910-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	179		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

Client Sample ID: G2SW0157

Lab Sample ID: 660-131910-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	2420		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

Client Sample ID: G2SW0158

Lab Sample ID: 660-131910-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	>2420		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

Client Sample ID: G2SW0143

Lab Sample ID: 660-131910-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	980		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

Client Sample ID: G1SW0136

Lab Sample ID: 660-131910-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	>2420		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

Client Sample ID: G1SW0146

Lab Sample ID: 660-131910-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Escherichia coli	140		1.00	1.00	MPN/100mL	1		SM QT2000	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Tampa

Client Sample Results

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

Job ID: 660-131910-1

Client Sample ID: G1SW0060

Lab Sample ID: 660-131910-1

Date Collected: 09/27/23 09:00

Matrix: Water

Date Received: 09/27/23 13:35

Method: SM QT2000 - Coliforms, Total (Quanti Tray)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	179		1.00	1.00	MPN/100mL			09/27/23 14:45	1

Client Sample ID: G2SW0157

Lab Sample ID: 660-131910-2

Date Collected: 09/27/23 09:50

Matrix: Water

Date Received: 09/27/23 13:35

Method: SM QT2000 - Coliforms, Total (Quanti Tray)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	2420		1.00	1.00	MPN/100mL			09/27/23 14:45	1

Client Sample ID: G2SW0158

Lab Sample ID: 660-131910-3

Date Collected: 09/27/23 10:35

Matrix: Water

Date Received: 09/27/23 13:35

Method: SM QT2000 - Coliforms, Total (Quanti Tray)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	>2420		1.00	1.00	MPN/100mL			09/27/23 14:45	1

Client Sample ID: G2SW0143

Lab Sample ID: 660-131910-4

Date Collected: 09/27/23 10:55

Matrix: Water

Date Received: 09/27/23 13:35

Method: SM QT2000 - Coliforms, Total (Quanti Tray)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	980		1.00	1.00	MPN/100mL			09/27/23 14:45	1

Client Sample ID: G1SW0136

Lab Sample ID: 660-131910-5

Date Collected: 09/27/23 11:35

Matrix: Water

Date Received: 09/27/23 13:35

Method: SM QT2000 - Coliforms, Total (Quanti Tray)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	>2420		1.00	1.00	MPN/100mL			09/27/23 14:45	1

Client Sample ID: G1SW0146

Lab Sample ID: 660-131910-6

Date Collected: 09/27/23 12:10

Matrix: Water

Date Received: 09/27/23 13:35

Method: SM QT2000 - Coliforms, Total (Quanti Tray)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	140		1.00	1.00	MPN/100mL			09/27/23 14:45	1

Eurofins Tampa

QC Association Summary

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

Job ID: 660-131910-1

Biology

Analysis Batch: 259480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-131910-1	G1SW0060	Total/NA	Water	SM QT2000	
660-131910-2	G2SW0157	Total/NA	Water	SM QT2000	
660-131910-3	G2SW0158	Total/NA	Water	SM QT2000	
660-131910-4	G2SW0143	Total/NA	Water	SM QT2000	
660-131910-5	G1SW0136	Total/NA	Water	SM QT2000	
660-131910-6	G1SW0146	Total/NA	Water	SM QT2000	

Setup Analyst: SK
Incubator#: INC 005
Start Time: 1545
Date In: 9/27/23
Time In: 1600
Corr. Temp. In: 35.2°C
Corr. Temp. after 30 min: 35.2°C

Read Analyst: SK
Thermometer ID#: MICRO10
Date Out: 9/28/23
Time Out: 1000
Corr. Temp. Out: 35.1°C

Quanti-Tray 2000 (MPN) SM9223B-1997 Logbook
Batch ID#: 259480
Corr. Factor: 0
Comparator TALS ID: LH 334
Residual Chlorine Strip TALS ID: 3120
Dilution Water TALS ID: NA
Reagent TALS ID: EW900
Tray TALS ID: DW 101J

Exp Date: 11/18/23
Exp Date: 11/20/24
Exp Date: NA
Exp Date: 9/23/24

Log Number / Sample ID	Dilution Factor	Chlorine Check (+/-)	Added Media	Poured into QT (incl tray#) and sealed	Hours		Visible Results Yellow		Visible Results Fluorescence		Total Coliform MPN/100mL	E. coli MPN/100mL	Final Total Coliform MPN/100mL	Final E. coli MPN/100mL	Vessel ID	NCM / Comments
					18	28	#Lg Wells	#Sm Wells	#Lg Wells	#Sm Wells						
MB / Buffer H ₂ O	1	N/A	✓													
131892-A1	1	-	✓	✓	✓	NA	0	0	0	0	0	0	0	0		
A2	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
A3	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		yellow tint
A4	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
A5	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
131910-A1	1	-	✓	✓	✓		21	7	0	0	35.9	6	35.9	0		
A2	1	-	✓	✓	✓		49	48	47	13	>2419.6	178.5	>2419.6	178.5		yellow tint
A3	1	-	✓	✓	✓		49	48	49	47	>2419.6	2419.6	>2419.6	2419.6		
A4	1	-	✓	✓	✓		49	48	49	48	>2419.6	>2419.6	>2419.6	>2419.6		
A5	1	-	✓	✓	✓		49	48	49	38	>2419.6	980.4	>2419.6	980.4		
131918-A1	1	-	✓	✓	✓		49	48	49	48	>2419.6	>2419.6	>2419.6	>2419.6		
-A2	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
-A3	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
-A4	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
-A5	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
-A6	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
-A7	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
-A8	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
-A9	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
-A10	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		

(con't on page 41)

Received in 250ml client containers. → NCM 123563

Form #: FBA004:04.06.22:12
Logbook #: NBA003:04.06.22:22

Quanti-Tray 2000 (MPN) SM9223B-1997 Logbook

pg. 2

Setup Analyst: _____
Incubator#: _____
Start Time: _____
Date In: _____
Time In: _____
Corr. Temp. In: _____
Corr. Temp. after 30 min: _____

Read Analyst: _____
Thermometer ID#: _____
Date Out: _____
Time Out: _____
Corr. Temp. Out: _____

Batch ID#: _____
Corr. Factor: _____
Comparator TALS ID: _____
Residual Chlorine Strip TALS ID: _____
Dilution Water TALS ID: _____
Reagent TALS ID: _____
Tray TALS ID: _____

Exp Date: _____
Exp Date: _____
Exp Date: _____
Exp Date: _____

See pg. 40

Log Number / Sample ID	Dilution Factor	Chlorine Check (+/-)	Added Media	Poured into QT (incl tray#) and sealed	Hours		Visible Results Yellow		Visible Results Fluorescence		Total Coliform MPN/100mL	E. coli MPN/100mL	Final Total Coliform MPN/100mL	Final E.coli MPN/100mL	Vessel ID	NCM / Comments
					18	28	#Lg Wells	#Sm Wells	#Lg Wells	#Sm Wells						
MB / Buffer H ₂ O	1	N/A				NA										
131918-A11	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
-A12	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
-A13	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
-A14	1	-	✓	✓	✓		0	0	0	0	0	0	0	0		
*131910-A6	1	-	✓	✓	✓	NA	49	48	45	11	>2419.6	139.6	>2419.6	139.6		Yellow tint

9/28/23
SK

*Received in 250ml client container. → NCM 123563

Lab Chronicle

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

Job ID: 660-131910-1

Client Sample ID: G1SW0060

Lab Sample ID: 660-131910-1

Date Collected: 09/27/23 09:00

Matrix: Water

Date Received: 09/27/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259480	SGF	EET TAM	09/27/23 14:45

Client Sample ID: G2SW0157

Lab Sample ID: 660-131910-2

Date Collected: 09/27/23 09:50

Matrix: Water

Date Received: 09/27/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259480	SGF	EET TAM	09/27/23 14:45

Client Sample ID: G2SW0158

Lab Sample ID: 660-131910-3

Date Collected: 09/27/23 10:35

Matrix: Water

Date Received: 09/27/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259480	SGF	EET TAM	09/27/23 14:45

Client Sample ID: G2SW0143

Lab Sample ID: 660-131910-4

Date Collected: 09/27/23 10:55

Matrix: Water

Date Received: 09/27/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259480	SGF	EET TAM	09/27/23 14:45

Client Sample ID: G1SW0136

Lab Sample ID: 660-131910-5

Date Collected: 09/27/23 11:35

Matrix: Water

Date Received: 09/27/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259480	SGF	EET TAM	09/27/23 14:45

Client Sample ID: G1SW0146

Lab Sample ID: 660-131910-6

Date Collected: 09/27/23 12:10

Matrix: Water

Date Received: 09/27/23 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM QT2000		1	259480	SGF	EET TAM	09/27/23 14:45

Laboratory References:

EET TAM = Eurofins Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Eurofins Tampa

Method Summary

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

Job ID: 660-131910-1

Method	Method Description	Protocol	Laboratory
SM QT2000	Coliforms, Total (Quanti Tray)	SM	EET TAM

Protocol References:

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

Laboratory References:

EET TAM = Eurofins Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Accreditation/Certification Summary

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

Job ID: 660-131910-1

Laboratory: Eurofins Tampa

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E84282	06-30-24

1

2

3

4

5

6

7

8

9

10

11

12

13

6712 Benjamin Road Suite 100
Tampa, FL 33634
Phone (813) 885-7427 Phone (813) 885-7049

RQ-2023 09-25-20

Environment Test ng

[illegible]

Loc 660
131910

660-131910 Chain of Custody

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: DEP - Bureau of Labs Biology Section

Job Number: 660-131910-1

Login Number: 131910

List Number: 1

Creator: Grohman, Tina

List Source: Eurofins Tampa

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.	True	
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	
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.	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	