

Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

22E0222

Maryland Department of the Environment

Project Name: Back River Bacteria

Ron Wicks 1800 Washington BLVD STE 510 Project / PO Number: N/A Received: 05/04/2022

Baltimore, MD 21230

Reported: 05/06/2022

Analytical Testing Parameters

Client Sample ID: BRB1

Sample Matrix: Wastewater 22E0222-01 Lab Sample ID:

Collected By: John Lynch / Gilbert Lookingland

05/04/2022 8:58 **Collection Date:**

Microbiology	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: Enterolert Enterococcus	34		1.0 N	IPN/100mL		05/04/22 1600	05/05/22 1845	NMN
Method: SM 9223 B (Colilert Quanti-Tray)-1997 Escherichia coli	140		1.0 N	IPN/100mL		05/04/22 1610	05/05/22 1400	NMN

Client Sample ID: BRB2

Sample Matrix: Wastewater

Lab Sample ID: 22E0222-02 Collected By: John Lynch / Gilbert Lookingland

Collection Date: 05/04/2022 9:10

Microbiology	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: Enterolert								
Enterococcus	31		1.0	MPN/100mL		05/04/22 1600	05/05/22 1845	NMN
Method: SM 9223 B (Colilert Quanti-Tray)-1997								
Escherichia coli	52		1.0 N	MPN/100mL		05/04/22 1610	05/05/22 1400	NMN

BRB3 Client Sample ID: Sample Matrix:

Lab Sample ID:

Wastewater

22E0222-03

Collected By: **Collection Date:** John Lynch / Gilbert Lookingland

05/04/2022 9:20

Microbiology	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: Enterolert								
Enterococcus	36		1.0 N	/IPN/100mL		05/04/22 1600	05/05/22 1845	NMN
Method: SM 9223 B (Colilert Quanti-Tray)-1997								
Escherichia coli	26		1.0 N	/IPN/100mL		05/04/22 1610	05/05/22 1400	NMN



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

22E0222

Client Sample ID: BRB4

Sample Matrix: Wastewater Collected By: John Lynch / Gilbert Lookingland

Lab Sample ID: 22E0222-04 **Collection Date:** 05/04/2022 9:30

Microbiology	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: Enterolert Enterococcus	7.5		1.0 M	IPN/100mL		05/04/22 1600	05/05/22 1845	NMN
Method: SM 9223 B (Colilert Quanti-Tray)-1997 Escherichia coli	1.0		1.0 M	1PN/100mL		05/04/22 1610	05/05/22 1400	NMN

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

MPN/100mL Most Probable Number per 100 Milliliters

RL: Reporting Limit

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at https://www.microbac.com/standard-terms-conditions.

Reviewed and Approved By:

Brittany Spraker Project Manager

Reported: 05/06/2022 10:29

Microbac Laboratories, Inc.

Sampled by (PRINT): John Lynch

Lookingland

Project: Back River Bacteria

Send Report via:

Telephone No.: 4435621770

city, State, Zip: Balto, MD 21230

Address: 1800 Washington Blud

Address:

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Client Name: SAME invoice Address

client Name: Mary land Department of the

Prys Conment

Lab Report Address

Client Sample ID

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Preservative Types: (1) HNO3, (2) H2SO4, (3) HCL (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

* Matrix Types: Soit/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (BW), Surface Water (SW), Waste Water (WW), Other (specify)

Sampler Signature: ANNEX

dennis, cos musses & maryland, gov PO No.:

Telephone No.: SAVE Contact: SAME City, State, Zip: SRハモ

22E0222

回 Dispose as appropriate []] Return []] Archive

Sample Disposition

rev.12/26/2017

Relinquished By (signature)

Date/Time

shed By (signature)

1.32 1037

Date/Time

Possible Hazard Identification

Hazardous [Non-Hazardous] Radioactive

2101 Van Deman Street

Baltimore, MD 21224

(410) 633-1800

Menutine (5 to 7 business days)
☐ RUSH* (notify lab)

Therm ID (

TO BE COMPLETED BY MICROBAC

Temperature Upon Receipt (°C

instructions on back

CHAIN OF CUSTODY RECORD

Tumaround Time

四Mail 「Ffax | Xe-mail (address) くりつ、いてとら をいるりしなつようない Send Invoice via: 阿Mail 「Ffax 目e-mail (address)

Report Type (needed by)

Samples Received on Ice? M Yes 🖂 No 🖂 N/A Holding Time

Custody Seals Intact? TYes TNO TN/A

Compliance Monitoring? In Yes No

Agency/Program

Sampler Phone No.: 410 419 2709

REQUESTED ANALYSIS

Additional Notes

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Microbac Laboratories, Inc., Baltimore Division Control # 606-03 Effective Date: 11/30/2016 Page 1 of 1

Number of Coolers Received:	Receipt Date / Time: 5-4-22 1034						
Client: M1)E	Work Order # 22 F @ 222						
Form Completed By: Omlett Frelegisma	^/						
Shipper:	☐ Microbac ☐ Client ☐ UPS ☐ FedEx						
Custody Tape Intact:	YES / NO (NA)						
Containers Intact:	XES/NO						
Sample Received on Ice or refrigerated:	YES NO / NA						
-	Infrared (IR) Temperature: \ \(\tilde{D} \) °C						
Chain of Custody Present with shipment:	YES/NO						
Sample Bottle IDs agree with COC:	YES/NO						
Preservation requirements met:	YES / NO / Not Checked						
Correct Number of Containers / Sample Volume:							
Headspace in container:	YES / NO (If No. contact client immediately)						
Type of Sample:	YES NO NA						
Type of Sample.	Water Soil Wipes Oil Filter Solid						
Course To 10	Sludge Food Swab Other						
Container Type / Quantity: A Unpreserved H2SO4 HNO3 HCI NaOH_	NoOH/Assorbis Asida Ye						
B- Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid: If preserved pH <2, pH >10 NaOH/Ascorbic Acid If preserved pH <2, pH >10						
CUnpreserved H2SO4 HNO3	NaOH/Ascorbic Acid If preserved pH <2, pH >10 NaOH/Ascorbic Acid If preserved pH <2, pH >10						
D- Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10						
EUnpreservedH2SO4HNO3HClNaOH _	NaOH/Ascorbic Acid If preserved pH <2 pH >10						
H - Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10						
KUnpreserved H2SO4 HNO3 HCI NaOH L- Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10						
	NaOH/Ascorbic Acid If preserved pH <2, pH >10						
M-	NaOH/Ascorbic Acid If preserved pH < 2, pH > 10						
WUnpreservedH2SO4HNO3HCINaOH_	NaOH/Ascorbic Acid If preserved pH <2 , pH >10 NaOH/Ascorbic Acid If preserved pH <2 , pH >10						
l Parakatan kendua kataban katabatan kendua kendua kataban kalendaran kendua kendua kendua di balangan berbaia	NaOH/Ascorbic Acid If preserved pH <2, pH >10 I/NaTHIO (Checked at time of Analysis)						
F - Unpreserved NaTHIO (Checked at time of Analysis)							
SUnpreserved R NaTHIO (Checked at time of Analysis)							
SNUnpreservedNaTHIONaTHIO/EDTA (Checked	at time of Analysis)						
UnpreservedH2SO4HNO3HCl NaOH	_NaOH/Ascorbic Acid If preserved pH <2, pH >10						
Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid If preserved pH <2 , pH >10						
UnpreservedH2SO4HNO3HClNaOH	NaOH/Ascorbic Acid If preserved pH <2, pH >10						
Describe preservation requirements not met:							
All Acid preserved < 2 pH NaOH preserved > 12 pH Sample ID: HSO, HNO, NaOH	All others >2 and <10 (usually 4-8)						
12,504 111103 114011	mls added mls added						
Sample ID: H ₂ SO ₄ HNO ₃ NaOH	mis added						
Sample ID: H ₂ SO ₄ HNO ₃ NaOH	mls added						
H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydro	oxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate						
Describe Anomalies:							
Contact information / Summary of Actions:							
Date / Time: Contact:	Contact By:						
Comments:	Control by.						