



**NATIONAL WATER QUALITY LABORATORY
TOWER HILL
FREETOWN**

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MINISTRY OF WATER RESOURCES
TOWER HILL
FREETOWN**



Water Quality Monitoring Report Sheet

Water Authority:.....ECOWATER Company.....

District:... W/Area..... Chiefdom:..... Town:...Jui..... Date:...26/10/15.....

Sample:...01..... Location:...Jui..... Type: of Source:...Bore Hole.....Time:.....

Parameters		Measured Values	WHO recommended Permissible Limits
1.	Water Temperature (°C)	26.7	No. Value
2.	pH	5.7	6.5 – 8.5
3.	Turbidity (NTU)	40	<5.0
4.	Conductivity (µS/Cm)	6.0mS	<450 µS
5.	TDS (ppm)	3.0	<248
6.	Salinity (ppt)	-	<0.4
7.	Residual Chlorine (mg/l)	0.00	0.3-0.5 after 30min. disinfection
8.	Aluminum (mg/l)	0.20	<0.2
9.	Ammonia (mg/l)	0.29	No. Value
10.	Bromine (mg/l)	-	No. value
11.	Calcium Hardness (mg/l)	950	<250
12.	Copper (mg/l)	0.234	<1.0
13.	Fluoride (mg/l)	-1.79	<1.5
14.	Iron (mg/l)	1.33	<0.3
15.	Magnesium (mg/l)	-	<200
16.	Manganese (mg/l)	0.058	<0.1
17.	Molybdenum (mg/l)	0.27	0.25
18.	Nitrite (mg/l)	0.006	3.0
19.	Nitrate-Nitrogen (mg/l)	1.5	<10
20.	Potassium (mg/l)	10.0	<6.0
21.	Phosphate (mg/l)	5.32	<20

22.	Silica (mg/l)	0.154	<15
23.	Sulphate (mg/l)	-	<400
24.	Sulphide (mg/l)	3.5	<0.5
25.	Sulphite (mg/l)	-	No. Value
26.	Chloride (mg/l)	50	<250
27.	Arsenic	0.00	0.01
28.	Chromium	0.016	<0.05
29.	Bicarbonate (mg/l)	0	No. Value
30.	Zinc (mg/l)	0.12	<5.0
31.	E. Coli	-	Zero
32.	Faecal Coliforms	Nil	Zero
33.	Non – Faecal Coliforms	Nil	10
34.	Vibro-parahaemolyticus	-	Zero
35.	Salmonella sp.	-	Zero

RECOMMENDATIONS:- The physico/chemical analysis of this source indicate that some of the parameters are within the WHO standard, and other are above the limit. The above are; Turbidity, Iron, Potassium, and Sulphide.

pH is below its limits shows acidity.

The Conductivity change to miliseamen means, thousand times. And the water is not good for human consumption

Bacteriological analysis shows that this source is free from faecal bacteria. However, chlorination process is necessary with a free chlorine content of 0.3mg/l – 0.5mg/l which is the WHO guideline for Potable Water.

Signed:.....

(Technician)



(Supervisor)

Date:.....