



**THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED**  
**PRODUCTION CHEMISTRY SERVICES DEPARTMENT**  
**PORT HARCOURT**  
**TEST REPORT**



**T0666**

**FROM:** UPO/G/PSSC

**TO:** Eyione Bally O (SHU/OE)

**DATE:** 22/03/2023

**SUBJECT:** Potable Water Analysis

**Sample Identification Information:**

<b>Analysis Request No.</b>	0016565	<b>Sample ID/Test Report No</b>	PHC-23MAR10-00299365
<b>Date Assigned</b>	10/03/23	<b>Location or/ Field of Sample</b>	PHC
<b>Date Sampled</b>	09/03/23	<b>Sampling Point</b>	TUNU1_FSSP
<b>Date Analysed</b>	22/03/23	<b>Sampling Conditions</b>	Atmospheric
<b>Name of Sampler</b>	Edem	<b>Preservation Method by Sampler</b>	Not Advised
<b>Quantity of Sample</b>	1.5L	<b>Sampling Procedure</b>	NOT_ADVISE
<b>Date Received in the Lab</b>	10/03/23	<b>Sample Condition During Analysis</b>	Clear colourless liquid
<b>Type of Sample Container</b>	Plastic bottle	<b>Sample Appearance / Condition</b>	Clear colourless Liquid
<b>Preservation Method By Lab</b>	Refrigeration @ about 4C	<b>Sample Description</b>	Water Treatment Plant (Water) sample, Tunu

**Test Results: (Analysis of samples carried out as received)**

PARAMETER	UNIT	METHOD	LIMITS		RESULTS (+ Uncertainty where required)
			Min.	Max.	
Odour		APHA 2150A	0	0	Odourless
Turbidity	NTU	SMEWW 2130-B	0	5	0.28
* pH @ 25 degC		SMEWW 4500-HB	6.5	8.5	6.58
Chromium mg/l	mg/l	HACH 8023	0	0.05	0.004
Colour	Pt-Co	ASTM D1209	0	15	0.00
Copper Ion	mg/l	ASTM D4691-17	0	1	0.04
Total Iron	mg/l	ASTM D4691-17	0	0.3	0.15
Zinc ion	mg/l	ASTM 4691-17	0	5	0.34
*Total Hardness	mg/l	SMEWW 2340C	0	500	2.20
TDS	mg/l	SMEWW 2540C	0	500	24.00

**Notes:**

1. Forward any comments/feedback to Approving Authority or the Team Leader within 7 days of the receipt of this result.
2. Analysis were conducted in compliance with methods stated except where deviations from, additions to or exclusions from method are Specifically indicated
3. These results apply to the items tested on sample ID Number stated in this report only.
4. This test report shall not be reproduced except with the written permission of the Team Leader, Production Chemistry



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PARAMETER	UNIT	METHOD	LIMITS		RESULTS (+ Uncertainty where required)
			Min.	Max.	
* Chloride Conc.	mg/l	SMEWW 4500-Cl-B	0	250	0.50

(\*) parameters are ISO 17025 accredited

Remarks and Recommendation:

Sample analyzed met WHO specification for the parameters tested. Send sample to medical for bacterial analysis.

Lab Supervisor:  
Iwundu Amaoge  
22/03/2023

Lab Services Lead:  
Precious Elendu  
22/03/2023

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