

## PHYSICOCHEMICAL AND HEAVY METAL ANALYSIS OF UNDERGROUND WATER IN AMUKPE TOWN, SAPELE DELTA STATE

Mgboh Vivian Oyinyechi

Madonna University Nigeria, Elele

Corresponding Email.: mygogo4me@gmail.com

This study investigated underground water from five different communities in Amukpe Sapele Local Government Area of Delta State to determine their suitability for drinking. Physicochemical parameters analysed using standard method were pH, temperature, electrical conductivity, total hardness, total dissolved solids (TDS), total suspended solids (TSS), dissolved oxygen (DO) and Chloride. Heavy metals analysed with atomic absorption spectrophotometer (AAS) were lead, zinc, copper and cadmium. All parameters were within recommended limits for drinking water except pH and zinc. proper treatment of water before drinking is recommended.

**Citation:** Mgboh. ASFI Annual Conference and Boot Camp, 28<sup>th</sup>-30<sup>th</sup> November 2023



**Copyright:** © 2024 by the authors. Submitted for possible open access publication under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).

**Keywords:** Heavy metals, physicochemical parameters, underground water, drinking water

---