



FACTORS DETERMINING QUALITY OF WATER IN MOMBASA ISLAND

INTRODUCTION

Water is essential for all forms of life, and the ocean and rivers are two of the most important sources of water on Earth. However, the quality of water in these bodies can vary greatly, many of which contain harmful bacteria resulting in the spread of many water borne diseases like typhoid fever, cholera through the use and consumption of contaminated water. Water is contaminated by disease-spreading microbes and pathogens that are a result of human activity. Water is contaminated through the release of water and chemicals from fertilizers and pesticides from farms, sewage from households and greenhouse gases from industries. It is important to understand the factors that contribute to this variability in order to protect and preserve these vital resources.

TEACHER COACHES:
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DATA COLLECTION METHODS

We collected water samples from the above locations and visited the Coast Water Works Development Agency Laboratory in Mombasa to test the water samples pH, conductivity, turbidity, alkalinity, chloride, total hardness, calcium hardness and bacteria in accordance with the GLOBE Water Quality Protocol Bundle focusing on the Hydrosphere.

Conductivity:
The Wagtech Con 700 is used to measure the conductivity levels of our water samples. Machine probe is cleaned using distilled water and inserted into the water sample. A reading is displayed indicating conductivity levels.

