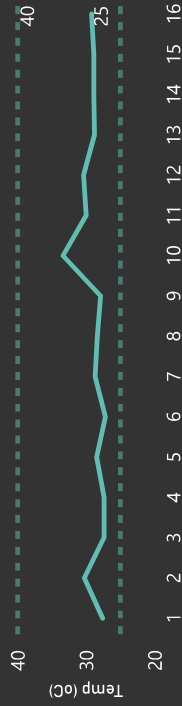




TYPICAL WATER QUALITY CONCENTRATION VALUE OF SOME COASTAL BOREHOLES ALONG BONNY RIVER ENVIRONMENT, S. NIGER DELTA.

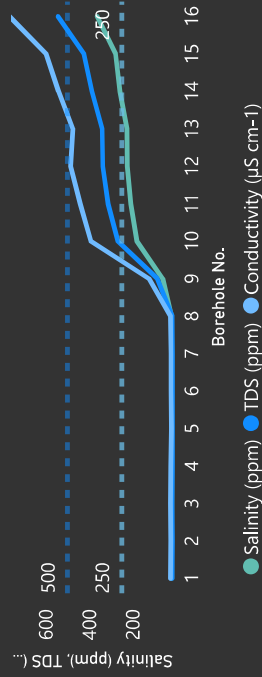
Borehole Water Temperature (oC)



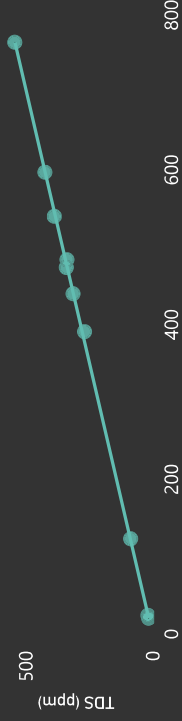
Borehole Water pH



Borehole Salinity, Conductivity and TDS Concentration

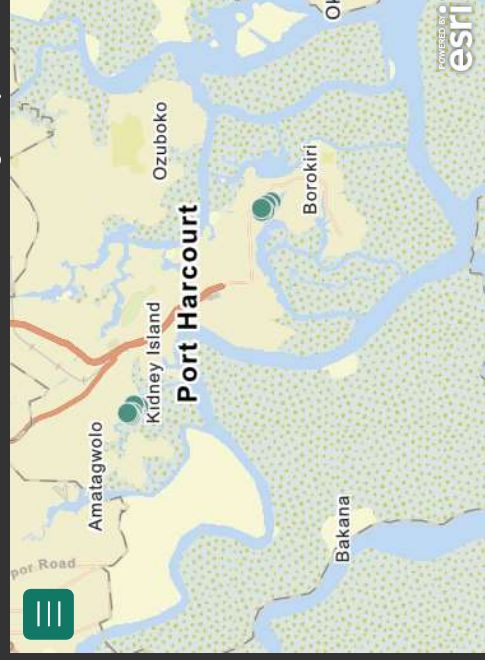


Cond (µS cm-1) Vs TDS (ppm)



Map of Study Area

Borehole locations in Coastal Communities along Bonny River



Water Quality Description

Summary:

The organoleptic (physical) properties such as taste, Odour and appearance are unobjectionable. The sampled water appeared clear and not cloudy and without observable particles. Temperature and pH values are within the acceptable limits by the WHO, with exception observed in four (4) boreholes having slightly low pH values.

Salinity (ppm) and total TDS (ppm) are positively correlated with each other. Including Conductivity values.

It can be observed that boreholes located and clustered at the SE part of the map have higher salinity, conductivity and TDS concentration values compared to the NW boreholes.

The borehole depths in this environment could range from 50m to about 90m.

The geology of the environment is mainly coastal alluvium, mangrove and freshwater swamp. To Saltwater swamp transition zone around the SE parts.

High Fa salinity and pH