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Urban water usages in Egbeda area of Oyo State, Nigeria

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SNAP-SHOTS

One of the important components of any area is the development of water resources for various uses

This work is aimed at evaluating water usage in communities within Egbeda LGA.

Total surface water in Nigeria: 224 trillion litre/yr (Hanidu, 1990)
Groundwater- 50m trillion litre/yr (Akujieze et al., 2003)

Abundant of fresh water resources in Nigeria, particularly in the south-western region of the country



SNAP-SHOTS

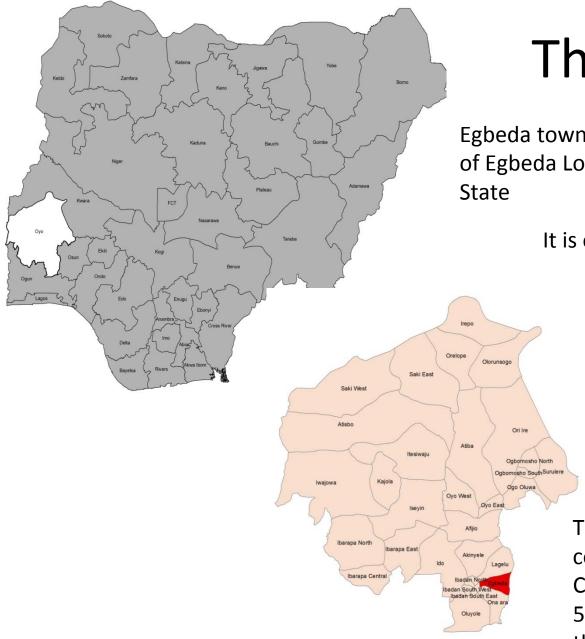
UNDP- Human Development Index placed Nigeria 159 among 177 countries assessed for unavailability of safe water and also among the 30 nations with poorest quality of life worldwide (Ifabiyi, 2012)

In a nutshell, millions of Nigerians have no access to safe water and sanitation- just like their fellows in other parts of the developing countries

The water service level in urban cities in Nigeria have been bedevilled by

-breakdown of water infrastructural facilities

-geometric urban population increases as a result of rural-urban migration influx and the high birth rates which have placed so much demand on the limited urban water infrastructural facilities



The Study Area

Egbeda town is the current political headquarter of Egbeda Local Government Area (LGA) of Oyo State

It is one of the 33 LGAs of the state

The current population figure of Egbeda area at the 2006 Housing and Population Census is 281,573 (National Population Commission- NPC, 2006)

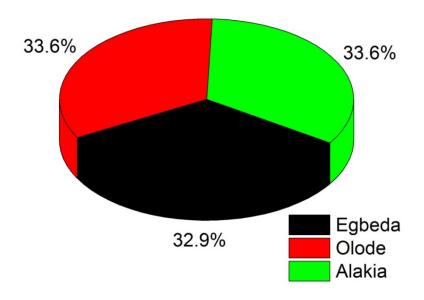
The earlier population figure of the community was 128,998 in 1991 Census. This indicates an increase of 54.2% in the total population within the space of 14 years



Materials and Methods

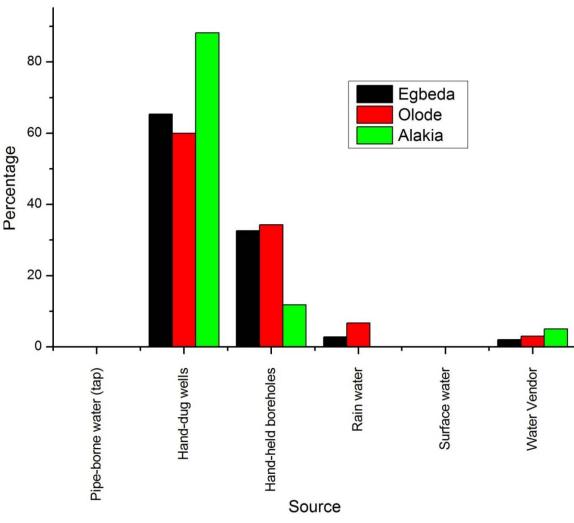
A set of questionnaires was used to collect information from the communities on their water usages.

The second methods adopted in the research involved the evaluation of the water samples from the different sources identified during the questionnaire administration.

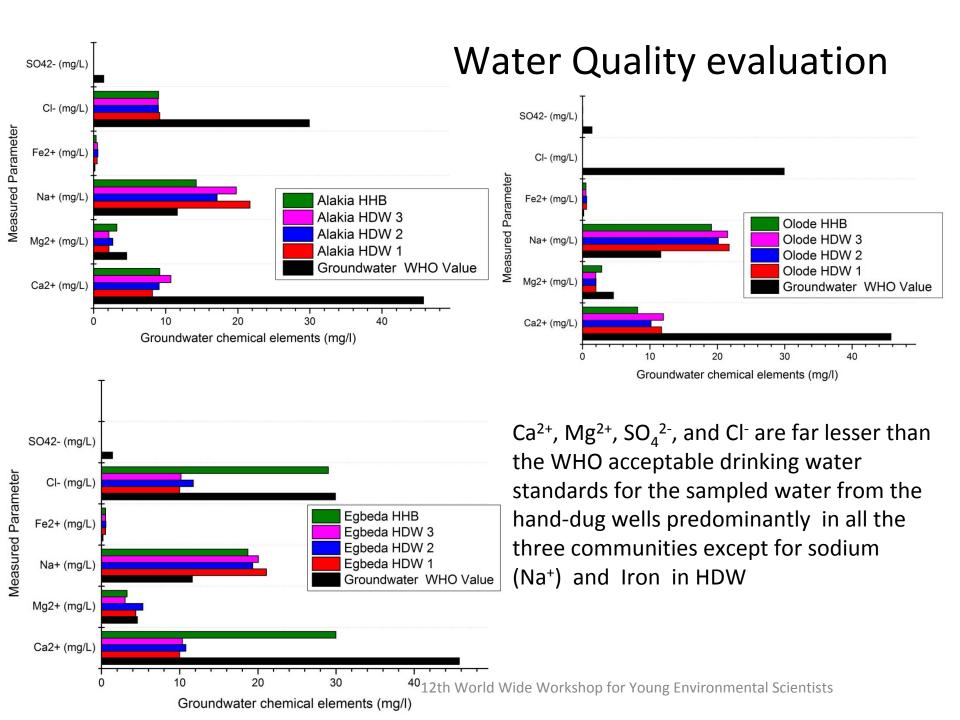


Percentage hand-dug wells protected hand-held borehol

Choice of water supply and use



Rivers, streams and unprotected springs are being utilised for car washing/laundry





The Risk of the Resource

Measured	Acceptable	Effect above/below level
Parameters	Level	
Cadmium	0.003 mg/l	Kidney damage
Chlorine	Max 200mg/l	Eye/nose irritation; stomach discomfort
Calcium	Max 200mg/l	Indigestibility of fat in the body
Magnesium	Max 150mg/l	Gastrointestinal, liver or kidney damage
Iron	0.30 mg/l	Rusting, cancer
Sulphate	Max 400 mg/l	Allergic dermatitis
Sodium	Max 200 mg/l	Increased risk of cancer

The likely effect of water ingestion above/below acceptable level

Source: WHO, 1997



Conclusion

Nigeria was ranked as one of the Guinea-worm infected countries in the last millenium (Akujieze, et al., 2003)

Typhoid fever, cholera- are prevalent in areas where people depend on streams, shallow uncovered wells, pools from drilling

The groundwater quality is far below the acceptable WHO Drinking Water Standards

Efforts will made to evaluate the other areas not covered and proper recommendation made to the Local and State Governments!

Paying attention to the issue of our water today is the saving our lives tomorrow!!!

For listening and for your attentions, I say:

Thank you!!!

