



SDI Review Form 1.6

PART 1:

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	MS: 2013_BJAST_3133
Title of the Manuscript:	Geoelectric Survey for Mapping Groundwater Flow Pattern in Okigwe District, Niger Delta Sedimentary Area of Southeastern Nigeria.

General guideline for Peer Review process is available in this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

- This form has total 9 parts. Kindly note that you should use all the parts of this review form.



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PART 2: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	- A simplified geological map of the study area need to be added to show the various geological formations /structures present and their extensions. - The resistivity values derived for the aquifers seem unrealistic taking in consideration the lithology of the aquifers - The huge variations in resistivity values derived for the same aquifer have not been discussed or justified in terms of structural features or other hydrological conditions. This is also valid for the considerable difference in thicknesses - Only one parametric sounding has been provided; since there additional 3, it could be helpful to provide their results - It's not clear what's the intended use of Fig. 3! This statistical representation might indicate inconsistency in the inversion process of VES data.	The geological map of the study area has been added. Resistivity values fall within the range of what previous Authors have obtained in their works in the area. The resistivity variations for the aquifer have been discussed in section 3, and it is due to inhomogeneous nature of the thick aquifers in the region. Two additional interpreted curves have been included. Fig. 3 gives the distribution of the aquiferous zones within the geoelectric layers.
<u>Minor</u> REVISION comments	Under "1. Introduction", line 3: consider correcting the word "portable" into "potable",	This was taken care of by the total recasting of this section.



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	• Under "2.2. Electrical Resistivity Measurements", line no. 5: consider correcting ".... 12V DC <u>supply</u> was used to supply current" into ".... 12V DC <u>battery</u> was used to supply current", • Besides the above mentioned two points, the punctuation use need to be fixed in several parts (missing periods, Caps use). • Additional spelling errors are also present such as use of "shell" instead of "shale". Some are mentioned above.	This has been corrected.
<u>Optional/General</u> comments	The topic of the article is interesting however a major revision is needed, particularly in the following areas: • Additional elaboration need to be done regarding the discussion of the results and their justification • There might be a need to make a new inversion of the VES data in order to obtain more consistent models in terms of resistivity and thicknesses of aquifers and other • editing of the text is needed	Discussion of the results has been improved upon by utilizing the bulk available data.