



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	MS: 2012/BJAST/1818
Title of the Manuscript:	Investigation of Variation in Resistivity with Depth and Soil Compaction in parts of River State, Southern Nigeria.

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
Just some minor remarks or suggestions In captions of Fig 1: Location map of the study area showing the 7 sounding points (VES 1-to-7; from [15]. Fig 2; Variation of dielectric constant with density of different soil samples And be careful to density in abscissa Fig 3: Lithologic Log and interpreted geoelectric log for the borehole. In table 2, may be lack of unit for dielectric constant In table 3 you indicate 8 VES but only 7 are located on the fig 1. VES 8 = ? And two suggestions for page 8 The study reveals an average soil dielectric constant of 5.35, 8.20 and 4.17 Er for clayey loamy, sandy clay and loamy sand respectively. Since dielectric constant govern rock formations response to high alternating current (heat) flow, it implies that high conductive samples have higher dielectric constants. Such soils might be more suitable for agricultural farming in tropical areas especially during dry season. The laboratory and field studies of rock electrical properties show that both the dielectric constant and soil resistivity increases with depth and density. Comparing the borehole log data with the generalized geoelectric section from the study area (Fig. 3) confirms the reliability of the field survey in spite of minor differences between the real and apparent depths. Both the borehole log and the geoelectric results indicate a shallow water table of less than 4m, which is in agreement with the geology of the study area. 4. CONCLUSION It's OK for me to publication.	This has been effected as highlighted in yellow. This has been effected as highlighted in yellow. This has been effected as highlighted in yellow. The dielectric constant has no unit. It is just a characteristic of a given material. The data for VES 8 which was not reflected in Fig. 1 has been deleted from table 3. These corrections highlighted by the reviewer have been effected on the manuscript.