



SDI Review Form 1.6

PART 1:

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2013_BJAST_3918
Title of the Manuscript:	The molecular succession of bacterial community of crude oil polluted soil and water samples from the Niger Delta, 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 7 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)
Compulsory REVISION comments	Line 103 – Measurement of degradative activity is too scanty. Provide details of to show that growth was actually due to hydrocarbons and not contaminants. How was bacterial purity assured? See also line 150. Line 146 - Need to demonstrate hydrocarbon utilization for growth. Lines 178-185 – Need to demonstrate that OD of bacterial growth is actually due to growth on hydrocarbons. - Provide results for each of the isolates tested and compare with results of tests with bacterial communities so that conclusion in line 262 can be fully substantiated.	Growth was actually due to hydrocarbon degrading bacteria because when plated on BHA, there were growths not contaminants. In addition, bacterial purity was assured by working under aseptic condition. Increase in cell numbers during incubation indicates that the cells were able to multiply, thereby utilizing the oil for their growth and development. (Aneja, 2007). The study for each of the isolates is not included in this research work but below are some of the results obtained for each isolates tested: <i>Bacillus sphaericus</i> - 22.92 ± 2.3 Units/mL/Hr <i>Lactobacillus acidophilus</i> - 4.4 ± 2.3 Units/mL/Hr <i>Ewingella Americana</i> - 80.92 ± 1.3 Units/mL/Hr <i>Micrococcus varians</i> - 10 ± 3.2 Units/mL/Hr <i>Clostridium sporogenes</i> - 12.92 ± 2.8 Units/mL/Hr
Minor REVISION comments	- Include Awoye, Mese and Oluwa villages in sampling sites in line 14 of Abstract. - Lines 100 & 101 - How were screw-capped containers and cellophane bags sterilized? - Line 104 – What is BHB?	This article is written from my Ph.D thesis. In this article, I am only reporting on the samples from Rivers State. The bacterial community study did not actually include Awoye, Mese and Oluwa. This was a mistake. It has been expunged from Line 98. Thanks for the observation. Autoclave was used for the sterilization. The cellophane bags were wrapped with foil paper.



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		BHB is Bushnell-Haas broth.
<u>Optional/General</u> comments	Abstract is okay as written apart from minor comment above	