



**SDI Review Form 1.6**

Journal Name:	<a href="#">Journal of Geography, Environment and Earth Science International</a>
Manuscript Number:	Ms_JGEESI_44578
Title of the Manuscript:	Effect of Municipal Solid Waste (MSW) Leachate on Groundwater Quality in Port Harcourt, Nigeria
Type of the Article	

**General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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



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**PART 1: 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)
<p><b>Compulsory</b> REVISION comments</p>	<p>The manuscript "<i>Effect of Municipal Solid Waste (MSW) Leachate on Groundwater Quality in Port Harcourt, Nigeria</i>" shows a study of evaluation of the effect of municipal solid waste leachate on ground water quality in Port Harcourt, Nigeria. In particular, cross sectional study was conducted around two dumpsites in Port Harcourt on leachates and borehole water.</p> <p>pH, electrical conductivity, total dissolved solids, biochemical oxygen demand, chemical oxygen demand, nitrite, phosphate, sulphate, chloride, Cd, Pb, Zn, Fe, and Cu were determined in the leachate and borehole water.</p> <p>The results show that some parameters in the borehole water did not meet the standards of WHO and NSDWQ. Moreover, most leachates and borehole water qualities near the un-engineered dumpsites are of poor quality.</p> <p>Moreover, there is a decreasing trend in concentrations of hazardous contaminants from the leachate to nearby borehole water and eventually the distant borehole water. This shows that the leachates exert great effect on the concentrations of contaminants in the surrounding borehole waters and distant ones.</p> <p>The result indicated that the dumpsite leachate is producing many potent contaminants to the environment and to the people nearby.</p> <p>The manuscript achieves the purpose defined in the abstract, it is scientifically robust and technically sound, but it is not well structured and it is not written with care.</p> <p>I'm convinced that the research is not innovative, but the study could to increase the knowledge of the contamination in the studied sites. Moreover, the experimental results obtained by the authors could be used in future by other research groups in order to compare these data.</p> <p>Therefore, I believe, that <b>the manuscript can be accepted for publication after the following MAJOR REVISIONS.</b></p> <p><b>Keywords.</b> The authors should include 3-5 keywords.</p> <p><b>Figure 1.</b> The figure is inserted in the manuscript, but it is not mentioned in the text.</p> <p><b>Caption of Figure 2.</b> Replace "Figure showing metal and physiochemical properties in leachates and borehole water at Choba dumpsite" with "Metals and physico-chemical properties in leachates and borehole water at Choba dumpsite".</p> <p><b>Caption of Figure 3.</b> Replace "Figure showing metal and physiochemical properties in leachates and borehole water at Ada-George dumpsite" with "Metals and physico-chemical properties in leachates and borehole water at Ada-George dumpsite".</p> <p><b>Figure 2.</b> Replace "Phosphate (<math>PO_4^-</math>)" with "Phosphate (<math>PO_4^{3-}</math>)".</p> <p><b>Figure 3.</b> Replace "Phosphate (<math>PO_4^-</math>)" with "Phosphate (<math>PO_4^{3-}</math>)".</p> <p><b>Table 2, 3, 4 and 5.</b> Replace "Phosphate (<math>PO_4^-</math>)" with "Phosphate (<math>PO_4^{3-}</math>)".</p> <p><b>Table 4 and 5.</b> Replace "Ph" with "pH".</p> <p><b>Table 4, Table 5 and Table 6.</b> These tables are inserted in the manuscript, but they are not mentioned in the text.</p> <p><b>Line 8.</b> Replace "physiochemical" with "physico-chemical".</p>	



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	<p><b>Line 11.</b> Replace “Chloride ion; and heavy” with “Chloride ion and heavy”.</p> <p><b>Line 19.</b> Replace “people nearby” with “people nearby.”.</p> <p><b>Line 72.</b> Replace “(EC). Nitrite” with “(EC), Nitrite”.</p> <p><b>Line 72.</b> Replace “Phosphate (PO<sub>4</sub>)” with “Phosphate (PO<sub>4</sub><sup>3-</sup>)”.</p> <p><b>Line 84.</b> Replace “Ground water” with “ground water”.</p> <p><b>Line 148.</b> Replace “physiochemical” with “physico-chemical”.</p> <p><b>Line 152.</b> Replace “physiochemical” with “physico-chemical”.</p> <p><b>Line 172.</b> Replace “w1a=6.7” with “W1a=6.7”.</p> <p><b>Line 188.</b> Replace “0.04mg/L” with “0.04 mg/L”.</p> <p><b>Line 219.</b> Replace “200mg/L” with “200 mg/L”.</p>	
<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments		

**PART 2:**

	Reviewer’s comment	Author’s comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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