

## Review Form 1.6

Journal Name:	<a href="#">Physical Science International Journal</a>
Manuscript Number:	2022_PSIJ_85191
Title of the Manuscript:	Assessment of Aquifer Protective Capacity Against the Surface Contamination. A Case Study of Kaduna Industrial Village, Nigeria
Type of the Article	Original Research 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:

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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)
<b>Compulsory</b> REVISION comments	<p><b>1) Pls. correct the title as (punctuation mistakes) :</b> Assessment of Aquifer Protective Capacity Against the Surface Contamination: A Case Study of Kaduna Industrial Village, Nigeria</p> <p>2) Page 1, section 1, <b>Introduction:</b> All references (i.e., 1,2,3,4,5,6,7,8,9 and 10) to be arranged in serial order and accordingly references listed on page nos. 6&amp; 7 to be renumbered. For example:</p> <p>(a) Introduction, column 1, line 6, reference no. 7 to be renumbered as 1</p> <p>(b) reference no. 2 is missing</p> <p>(c) Introduction column 1, line 25, "...which according to [3], [8], [9,], [10],...."; reference no. 4,5,6 &amp; 7 are missing/reference to be renumbered.</p> <p>(d) Introduction, column 2, line 6, reference no. [2], [6] and [10] are to be renumbered.</p> <p>(e) Introduction, column 2, line 20 &amp; 29, reference no. [3] has to be renumbered.</p> <p>3) Page 2, Fig. 2, caption is incomplete, pls. complete.</p> <p>4) Page 3, column 1, line 5, "The parameters T and S..."; T &amp; S are not shown in eqn. 5 &amp; 7, it is S<sub>L</sub> and R<sub>T</sub> shown in the equations; what author refers to T&amp;S??</p> <p>5) Page 3, column 1, line 3&amp;4, equation 6 is missing, hence, equations from 7 to 10 need to be renumbered. Accordingly, text need to be corrected.</p> <p>6) Page 3, column 1, line 17, the listed parameter R<sub>T</sub> is not shown in equation 8.</p> <p>7) Page 3, Table 1, (a) The value 0.7-4..9 need to be corrected as 0.7-4.9. (b) The value 0.5-10 need to be corrected as 5.0 -10.0.</p> <p>8) Page 3, column 2, section 5A., line 12, ".....shown in Fig. 4(a-b)..."; pls. correct as ".....shown in Fig. 4(a-d)...".</p> <p>9) Page 4, section 5B, line 4, equations no. 5-10 need to be corrected after they are renumbered.</p> <p>10) Page 5, column 2, section 5D, line 5, "....form Dark-Zarrouk parameters (Table 2 &amp;1)..."; need to be corrected as: "....from Dark-Zarrouk parameters (Table 1 &amp; 2)...".</p>	
<b>Minor</b> REVISION comments	NIL	
<b>Optional/General</b> comments	In this study, Geo-electric soundings were conducted in 22 different locations at Kaduna Refinery Petrochemical Corporation (KRPC) and White Oil and Gas Layout, Mahuta, Kaduna. The aquifer protective capacity and Hydraulic characteristics of the study area were computed from the Geoelectric parameters using Dar-Zarrouk and hydrological parameters. The results have shown that the study area aquifer is relatively protected with an average value of 0.5 mhos.2	

### PART 2:

	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)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

### Reviewer Details:

Name:	Vipin Jain
Department, University & Country	CSIR-National Physical Laboratory, Dr. K.S. Krishnan Marg, India