

**Review Form 1.7**

Journal Name:	<b>International Journal of Environment and Climate Change</b>
Manuscript Number:	<b>Ms_IJECC_117251</b>
Title of the Manuscript:	<b>Physicochemical Qualities of Water in the Reservoir of Bontanga Irrigation Dam in the Guinea Savannah Agro-Ecological Zone of Ghana</b>
Type of the Article	

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**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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><b>1. Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p><b>2. Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p><b>3. Is the abstract of the article comprehensive?</b></p> <p><b>4. Are subsections and structure of the manuscript appropriate?</b></p> <p><b>5. Do you think the manuscript is scientifically correct?</b></p> <p><b>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p>	<p>The manuscript holds significant potential for the scientific community, specifically for academics, policymakers, and practitioners involved in agriculture, water resource management, and environmental water.</p> <p>This study offers significant knowledge on the physicochemical characteristics of water in a particular irrigation dam, Water in the Reservoir, providing information about its appropriateness for irrigation. This information can enhance the ability to make well-informed decisions about managing water resources, implementing sustainable agricultural practices, and devising solutions to preserve and enhance water quality in comparable situations.</p> <p>Moreover, the study's methodology and findings can be used as a point of reference for future research conducted in similar settings or for comparative studies in other countries with comparable difficulties.</p> <p>The title is suitable.</p> <p>The abstract offers a thorough synopsis of the study, encompassing crucial elements such as the objective, methods, results. The text explicitly outlines the goal of evaluating the physicochemical characteristics of water in the Bontanga irrigation dam and highlights the need of upholding sustainable irrigation methods. The abstract provides a concise description of the sample methodology, the parameters that were analysed, and the overall findings, which indicate that the majority of parameters met acceptable limits. Furthermore, it examines the possible impact of agricultural practices on the quality of water and finishes by confirming that the water from the dam is appropriate for irrigation.</p> <p>The manuscript's structure and subsections are suitable.</p> <p>The manuscript is scientifically accurate, in my opinion.</p> <p>Although the references seem varied and thorough, it is crucial to verify that they are up-to-date and accurately represent the current understanding in the subject. Although older references may still have useful information, it is recommended to prioritise new publications whenever feasible to ensure the incorporation of the most current study findings and methodology.</p>	
<p><b>Minor</b> REVISION comments</p> <p><b>1. Is language/English quality of the article suitable for scholarly communications?</b></p>	<p>The article's language and English proficiency are typically appropriate for scholarly communication. The essay exhibits a well-organized structure and employs a lucid and formal language style, which is fitting for academic writing.</p>	
<p><b>Optional/General</b> comments</p>	<p>This article only provides water quality monitoring results, which are not convincing enough to be published in an international newspaper. In my opinion, to meet the requirements for publishing international articles, it is necessary to continue to supplement and complete the manuscript as follows:</p> <ul style="list-style-type: none"> <li>- Objectives of the study</li> <li>- Limitations of the study and future research directions</li> <li>- Research content and methods (modern, reliable) need to be supplemented based on these monitoring results. For example, water quality modeling methods, machine learning methods, remote sensing methods...</li> <li>- The author needs to add the following content in the section "Declarations": Ethics approval</li> </ul>	

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	<p>and consent to participate; Competing interests; Funding; Authors' contributions; Acknowledgements.</p> <ul style="list-style-type: none"><li>- The charts should include additional lines representing the acceptable limit values set by FAO and WHO. This will allow users to readily assess and enhance the information provided in the water quality chart.</li><li>- Figure 1, needs more clarity on the geographical location of the study</li><li>- It is necessary to supplement a map of clear water quality monitoring locations with geographical coordinates of each location</li></ul>	
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**PART 2:**

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

**Reviewer Details:**

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