

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_126192
Title of the Manuscript:	Impacts of anthropogenic activities on the physicochemical quality of water from the Ouangolodougou dam
Type of the Article	Original Research Article

General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This manuscript is valuable to the scientific community as it addresses the pressing issue of water quality degradation due to anthropogenic activities, focusing on the Ouangolodougou dam. Its thorough analysis of physicochemical parameters and pollution indices contributes essential insights into the environmental impact of agriculture, artisanal activities, and household waste on water resources. The study's approach, comparing seasonal variations in pollution, provides a comprehensive view of the water quality challenges faced by the local population. I appreciate this manuscript because it highlights the need for awareness and regulatory action, emphasizing both environmental and public health implications.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, the title, "Impacts of Anthropogenic Activities on the Physicochemical Quality of Water from the Ouangolodougou Dam," is suitable as it accurately reflects the study's content. It clearly conveys the study's focus on the effects of human activities on water quality in a specific location.	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract is generally comprehensive, providing a summary of the study's aim, methodology, and key findings. However, adding specific values for pollutant concentrations (e.g., levels of iron, arsenic, pesticides) would enhance clarity and allow readers to quickly grasp the severity of contamination. Additionally, briefly mentioning potential health implications due to pollutant levels could strengthen the abstract's relevance and urgency. This would give readers a more immediate understanding of the study's impact on public health and the environment.	
Are subsections and structure of the manuscript appropriate?	Yes, the subsections and structure of the manuscript are appropriate. The organization allows for a logical flow, guiding readers from the study's background through methodology, results, and discussion. Each section is well-defined, making it easier to follow the research process and understand the findings. This structure effectively supports the manuscript's objectives and scientific rigor.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The manuscript demonstrates scientific correctness by employing established methods for water quality assessment, including standard physicochemical analyses and pollution indices, which align with WHO guidelines. The data collection and sampling approach across two different seasons adds depth and reliability to the findings, capturing variations in water quality under different environmental conditions. Statistical methods, such as Principal Component Analysis, are appropriately applied to interpret correlations among variables, providing insights into the sources of contamination. Overall, the study is technically sound, with a well-structured methodology that enhances the credibility and relevance of its conclusions for environmental management.	

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<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>-</p>	<p>The references in this manuscript are generally sufficient, relevant, and recent. However, including more recent studies on the health impacts of pesticide contamination in water, particularly in similar agricultural and industrial settings, would add further depth. This would strengthen the discussion on potential health risks associated with contaminants found in the dam water.</p>	
<p><u>Minor REVISION</u> comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Yes, the language and English quality of the article are generally suitable for scholarly communication. However, minor grammatical adjustments and improvements in phrasing could enhance readability and clarity. Overall, the language is appropriate for conveying the scientific content effectively.</p>	
<p><u>Optional/General</u> comments</p>	<p>The manuscript provides a valuable contribution to understanding the environmental impacts of anthropogenic activities on water quality. Adding a brief section on recommendations for local policymakers could strengthen its practical implications, offering solutions to mitigate pollution in the dam area. Additionally, incorporating a visual summary or flowchart of the study's methodology would enhance reader comprehension. Expanding on potential health risks associated with specific contaminants could also enrich the discussion section, emphasizing the study's relevance to public health. Overall, the study is well-executed and informative.</p>	

PART 2:

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

Reviewer Details:

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