

Review Form 1.7

Journal Name:	Journal of Geography, Environment and Earth Science International
Manuscript Number:	Ms_JGEESI_108439
Title of the Manuscript:	Evaluation of water quality and ecological and health risk in the Cajititlán Lagoon
Type of the Article	Original Research Article

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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>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> 1. YES 2. YES 3. YES 4. YES 5. YES 6. YES <p>This paper to estimate the physicochemical parameters and heavy metals of the water of the Cajititlán Lagoon during the period 2009-2023, to evaluate its water quality, ecological and health risks. Results appear interesting. But, in my opinion, it should be further revised and resubmitted for second review. Some suggestions are as follows:</p> <ol style="list-style-type: none"> 1. Change "Picture" to "Figure" on the title of the figure. 2. Please, numbered the equations. 3. In terms of materials and methods, the sampling technique needs to be explained in more detail. 4. In which laboratories were analyzed physico-chemical parameters and heavy metals? 5. Analytical quality control is missing. 6. Methodology of correlation analysis is missing. 7. What about PCA and cluster analysis? 8. Compare the calculated pollution indices results with those existing in the literature on similar studies. 9. The significance level of correlation matrix? 10. What are the origins of the studied heavy metals in these waters? 11. Explain the high values of TDS, Turb and pH? 12. What about the high correlation values observed in Table 2? 13. What is the difference between contamination and pollution? 14. What treatment methods could be used to improve the quality of this water, considering the high ecological risk from heavy metals? 15. Do you consider that the topic is relevant in the research area and if so, what is it? 	

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	16. In case of conclusions, you could explain what does it add to the subject area compared to other published material? 17. Please add the implications of the findings for future research. 18. Stated the limitations of the study in the conclusion section.	
Minor REVISION comments 1. Is language/English quality of the article suitable for scholarly communications?	1. YES	
Optional/General comments		

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Ayiwouo Ngounouno Mouhamed
Department, University & Country	University of Ngaoundere, School of Geology and Mining Engineering, Cameroon