

Review Form 1.7

Journal Name:	Asian Journal of Geological Research
Manuscript Number:	Ms_AJGER_112013
Title of the Manuscript:	Effects of Urban Activities on Levels of Physicochemical Parameters in Water Samples From Qua Iboe River, Ikot Ekpene Stretch, Akwa Ibom State, Nigeria
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"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>Yes, it is important because it is related to preparing scenarios for efforts to minimize the impact of river water quality pollution due to anthropogenic activities</p> <p>In my opinion, this title is more appropriate only for Analysis/Investigation of the Quality of Physicochemical Parameters, because the methods used to analyze the effects of urban activities cannot be accepted without a statistical approach.</p> <p>The abstract has been prepared well. However, there are several sentences listed in the abstract regarding *significance* that do not explain the methods (statistics) and results. What % confidence interval is used and what is the p-value?</p> <p>In general, the sub-chapters are appropriate. However, it is necessary to add a new sub-chapter to the discussion sub-chapter so that it is easier for readers to understand.</p> <p>Without major corrections, the manuscript cannot be scientifically accepted.</p> <p>There are only 2 recent references (2020). The author can add several recent references to support the discussion.</p>	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> Is language/English quality of the article suitable for scholarly communications? 	<p>Yes, but you need to check the grammar used as a whole</p>	
<p>Optional/General comments</p>	<p>Overall, improve the paragraph rules in the manuscript. Many sentences in several paragraphs are incomplete. Please check it thoroughly and tidy it up again.</p> <p>All tables and figures need to be mentioned in the explanation to make it easier for readers to read the journal.</p> <p>Abstract Be careful in providing conclusions from research. Sentences like:</p> <ul style="list-style-type: none"> The levels of physicochemical parameters determined across the sampling locations were significantly higher in location (Afaha Ikot Ebak) with tremendous human activities and lowest at location (Uwa) with least human activities (Have you analyzed using a statistical approach?) Physicochemical parameters obtained across the sampling locations showed significant positive relationship with increase in levels of human activities across the sampling locations (Have you analyzed using a statistical approach? How do you conclude that the results are significant). <p>Introduction</p> <ol style="list-style-type: none"> Ensure consistency of writing style, especially in writing references and citing. For example, the format for writing references for the research mentioned (Ayanwu, 2012; Nsi, 2020) and (Abowei and George 2010) is different. Make sure all references follow the same format. Please also check the Methodology, Results and Discussion. In the background it is explained about trace metals. Does this research also analyze trace metals parameters? If not, please focus on the explanation. In the results (Table 1-4), I did not find any type of trace metals. 	

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	<p>c. Add an explanation of the background, which physicochemical parameters are dangerous to health and what are the dangers to health? Because it has been stated that the water in the study area is the community's water source.</p> <p>d. Add an explanation of the water in the study area, whether it is used directly by the community, or whether it is processed by a private institution (for example) before being distributed to the community.</p> <p>e. Some paragraphs could be clarified with better structure. For example, paragraphs discussing human activities and pollution on the Qua Iboe River could be better grouped to form a clear narrative flow.</p> <p>f. The aim of the research is to readjust the title after it has been corrected. The results presented in this research are more of an analysis of river water quality in 3 study areas with different characteristics.</p> <p>g. Aims can be added with the difference in concentration between the two seasons.</p> <p>h. More firmly highlights the importance of this research, especially in the context of the welfare of local communities and its impact on the environment.</p> <p>i. Some sentences could possibly be improved to improve clarity and narrative flow. For example, "It is a truism that after rain the end products and after effects of these activities..." could be stated more directly and clearly.</p> <p>Methods.</p> <p>a. Please explain the coordinates of the study area in paragraph 1 (Study Area)</p> <p>b. Map added legend</p> <p>c. Samples were collected from three sampling locations namely; Uwa, Nto Nsek Afaha and Afaha Ikot Ebak for four months covering both wet and dry seasons. In this sentence, it is necessary to add the abbreviations for the 3 study areas so that they are in sync with the map which also displays the abbreviations for each study area.</p> <p>d. Land use around the 3 study areas can be displayed quantitatively, for example with percentages so that readers can find out the dominant land use around the 3 study areas.</p> <p>e. The sentence "Apparatus employed for samples collection and analysis includes mercury in glass thermometer, pH meter, conductivity scan meter, 1 liter (L) white polyethylene bottles, BOD bottles, among others" can be moved to Sub-chapter 2.2</p> <p>f. In section 2.2, please explain which parameters are analyzed directly in the field, and which parameters are analyzed in the laboratory, before explaining the details of the measurement procedure.</p> <p>g. I didn't find any salinity analysis method. Make sure that all analyzed parameters have been described in section 2.2.</p> <p>h. 10 mL of conc. H₂SO₄. What is conc.?</p> <p>i. The absorbance was read at 470 nm with Unicam 8626 UV/VIS spectrometer (Ekiye and Zejiao, 2010). The sentence repeats itself. Restructure the methodology well by minimizing repetitive sentences.</p> <p>j. Add methods used for data analysis. Is there a statistical approach? What software is used.</p> <p>Result & Discussion</p> <p>a. The discussion on the rainy and dry seasons is separated. Create a sub-chapter specifically explaining the rainy season, and specifically the dry season, as well as a comparison of the rainy and dry seasons. In each sub-chapter, the author can explain the differences between the 3 study areas. Create sub-chapters in the discussion so that it is easy for readers to read and more interesting. Therefore, several parts of the discussion can be grouped into smaller sub-chapters to make it easier for readers to understand the flow of the discussion.</p> <p>b. Change the word salinity to salinity</p> <p>c. The data in Tables 1 to 4 is what data? Concentration \pm SD. Please mention it in the table or in the table title</p> <p>d. In table 2, the SS unit does not yet exist.</p> <p>e. Be consistent in the table, whether using the term TH or hardness</p> <p>f. Tables 1 to 4, titles added with information regarding the rainy or dry season</p> <p>g. 25.00+0.00 to 28.95+0.03 μs/cm³ and from 25+0.00 - 29.65 μs/cm³. Please make the explanation consistent with the elementary school dissertation data.</p> <p>h. Ensure consistency in data presentation in each table. Some tables use a different format</p>	
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	<p>for showing ranges or median values (example: 25.00+0.00 vs. 25+0.00). This consistency helps readers to easily compare values between parameters and locations.</p> <ul style="list-style-type: none"> i. The word organisation → organization j. Include clear references to the tables discussed. For example, "The levels of temperature...Tables 1 and 3 respectively for dry season..." - make sure the reader can easily identify the table being discussed. k. In some sections, there are attempts to explain trends or variations in physicochemical parameters. However, it needs to be strengthened with a more in-depth analysis of what factors might cause these differences. For example, what causes temperature increases from upstream to downstream? l. When comparing research results with other research results, make sure the references used are current (for example: "Levels obtained were similar to levels reported by Udosen and Benson (2006)"). Try to refer to current research to support findings. m. Focus the discussion on results that have a significant impact or results that attract attention. It helps readers to understand the essence of the research findings. n. End the discussion section with a summary of the interpretation and main conclusions. Explain how these results can contribute to further understanding of water quality in the area. <p>Conclusion</p> <ul style="list-style-type: none"> a. Please adjust the conclusions to the current objectives. b. Positive relationship sentences to get attention. Usually a dissertation with statistical results. c. The meaning of very large and low activities, please explain in the Methodology Chapter (especially in the Study Area Sub-chapter). What activity is meant? It would be better if there was a percentage value. Please indicate which study areas have the greatest activity? d. Add conclusions regarding seasonal differences in results. e. Add recommendations/suggestions for the government, community or other researchers. 	
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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:

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