Review of: "Assessment of Quality, Bacterial Population and Diversity of Irrigation Water in Selected Areas of Minna, Niger State, Nigeria"

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Potential competing interests: No potential competing interests to declare.

The research titled under the subject <Assessment of Quality, Bacterial Population and Diversity of Irrigation Water in Selected Areas of Minna, Niger State, Nigeria> is well done and important, but it lacks some main elements of the methodology of writing a scientific article. I offer some suggestions for improvement:

Let us first note that, at the level of the literature review or the state of the art, I find that the quotes that you mentioned in your document are very, very old, so I suggest that you change them with modern ones. We are in 2024, and there are thousands of papers dealing with the same subject you are working on.

It is necessary to underline the standards on which you based your physicochemical and bacteriological analyses and in what years.

You used ANOVA (analysis of variance), so my question is, do your results follow the normal distribution? Are the results parametric or non-parametric?

To better understand the correlation between bacteria and the physicochemical parameters studied, I prefer to use the factorial design map using principal component analysis instead of table 5.