

# 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.

## Reviewer's # comments:

The authors would like to assess the quality, bacterial population, and diversity in water used for irrigation in selected areas around Minna, and they wanted to determine the general bacteria population of water used for irrigation as affected by location, determine the diversity of the bacteria population of water used for irrigation as affected by location, and correlate the physicochemical properties of irrigation water with the bacterial population. This MS is worth the publication and can be published taking into consideration the following comments:

- Please state the research aim on the first line of your abstract
- In your introduction, what is the problem at hand? The first line can highlight that issue
- The reasons why *Bacillus* spp. were quite more able to assimilate N and C sources than *E. coli* and *Salmonella* were not stated; please revise
- NMDS analysis can help on Bacteria population and diversity of water vary with location; please revise on diversity issue
- You can conduct the Shannon and Simpson analyses to get a clear picture of this
- A detailed discussion on this "its ability to use other electron acceptors other than oxygen" is required
- The references used in this research seem to be old; current research and updates are fundamental. The introduction should be incorporated with current papers.
- The materials and methods section seems to have a lot of methods, but the results are less than the methods; please discuss well the results obtained and cite current or recent research work published.
- Grammar should be revised throughout the MS.