

Review Form 1.7

Journal Name:	Asian Journal of Environment & Ecology
Manuscript Number:	Ms_AJEE_119023
Title of the Manuscript:	Characterization of Microplastics from Otammiri River Imo State, Nigeria.
Type of the Article	

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

(<https://www.journalajee.com/index.php/AJEE/editorial-policy>)

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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> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>1. Yes, the manuscript is important for the scientific community. It provides critical data on microplastic pollution in the Otammiri River, contributing to the understanding of regional variations. The study's use of NOAA protocols and FTIR techniques demonstrates a replicable and standardized methodology. Its findings have significant environmental and health implications, informing policymakers and public awareness. Additionally, the research offers a foundation for further studies and comparative analysis in other freshwater systems.</p> <p>2. Yes, the title of the article is suitable.</p> <p>3. Yes, the abstract of the article is comprehensive.</p> <p>4. Yes, the subsections and structure of the manuscript are appropriate. The manuscript is well-organized, with clearly defined sections including the Introduction, Methodology, Results, Discussion, and Conclusion.</p> <p>5. Yes, the manuscript appears to be scientifically correct. It follows established protocols, such as the NOAA protocol for sampling and FTIR analysis for microplastics identification, but FTIR is potential limitations or the need for complementary techniques if possible (like Raman spectroscopy, Thermal Desorption-Gas Chromatography-Mass Spectrometry (TD-GC-MS), Visual Microscopy and Density Separation and Fluorescence Microscopy) could strengthen this section.</p> <p>6. Additionally five to six references provided in the manuscript appear to be relevant and recent, covering various aspects of microplastic pollution, sampling techniques, and environmental impact. However, for further enrichment, the manuscript could benefit from including recent studies that explore the effects of microplastics on aquatic ecosystems, advancements in microplastic detection methods, and global trends in plastic pollution management.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	English quality of the article seem to be adequate for scholarly communications.	
<p>Optional/General comments</p>	Expand on the discussion of findings, particularly in relation to environmental and human health impacts of microplastics. Consider discussing the broader ecological implications and suggesting potential mitigation strategies.	

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>	

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