

Review Form 3

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| Journal Name: | Asian Journal of Environment & Ecology |
| Manuscript Number: | Ms_AJEE_131216 |
| Title of the Manuscript: | Simulation of Solute Transport in a Finite Aquatic Ecosystem Using the Two-Dimensional Advection-Dispersion Equation in Cylindrical Coordinates: Analysis of the Impact of Emergent and Rigid Vegetation |
| Type of the Article | |

PART 1: Comments

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| | Reviewer's comment Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review. | Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
| Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part. | The presented article is very important and analytical solution of the two-dimensional linear advection-dispersion equation in cylindrical coordinates on a finite domain is developed for solute transport in a radial porous medium and a circular source subject to steady and uniform groundwater. | Noted and corrected |
| Is the title of the article suitable? (If not please suggest an alternative title) | We suggest the title “ Two-dimensional linear advection-dispersion equation in cylindrical coordinates on a finite domain: Analysis of the Impact of Emergent and Rigid Vegetation” | Revised |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | Yes, abstract of the article comprehensive, but need addition 2 sentence about the analysis of the results obtained. | Revised |
| Is the manuscript scientifically, correct? Please write here. | The manuscript is scientifically, correct, but in the introduction section must be added introduction about Two-dimensional solute transport in a porous media system with a radial geometry and where was it applied? | Noted and corrected |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | The references very sufficient and recent, but may need the following reference https://doi.org/10.1016/j.ijheatmasstransfer.2020.120569 | Noted and corrected |
| Is the language/English quality of the article suitable for scholarly communications? | Some sentences need English correction, but may be suitable for scholarly communications. | Noted and corrected |
| Optional/General comments | 1. Throughout the paper, the authors do not use the page and line numbering, so it is difficult to identify easily the lines and paragraphs. 3. the reference no [10] not found in the text. 2. In the section of results some figures for examples Fig. 7 requires more indication in comparison with other figures. | Noted and revised |

PART 2:

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| | 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? | (If yes, Kindly please write down the ethical issues here in details) | |