

Interactive comment on “Characterization of groundwater dynamics in landslides in varved clays” by J. E. van der Spek et al.

R. Greco (Editor)

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Dear Authors and Referees,

thank you all for the efforts you put in this discussion.

All the Referees (and myself) agree that the paper fits the scope of the Special Issue about Landslide Hydrology, and that more generally it is of interest for the readership of HESS.

My recommendation is that, after moderate revision, the manuscript will be suitable for publication in HESS.

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In fact, the issues raised by Referees #1 and #2 have been already commented by the Authors in their reply, and I understand that they are going to address most of them in the revised version of the manuscript. Adding the reference suggested by Ref #3 about air entrapment could be of help in better clarifying what raised by Referee 2# in point 4.

About the comments by Referee #3, I suggest considering his first two points (about possible alternative conceptualizations not chosen by the Authors, and about the origin of the adopted values of non-calibrated parameters) when addressing similar comments by Referee#1 and #2 in the revised manuscript.

However, I agree with the Authors when they say that a conceptual model should not necessarily account for all the involved physical processes, and that it is enough to point out what are the processes that have been excluded. Thus, I don't think that a quantitative comparison with some different modelling approach (e.g. Richards multi-domain and/or two phase flow, as suggested by Referee #3) is really worth.

I look forward to receiving the revised version of the manuscript.

Best regards,

Roberto Greco (Guest Editor)

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