Interactive comment on "The effect of initial water distribution and spatial resolution on the interpretation of ERT monitoring of water infiltration in a landfill cover" *by* Gaël Dumont et al.

Gaël Dumont et al.

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Dear referees,

First, we would like to thank the two reviewers for the time they spend reading and commenting the manuscript, and for their constructive feedbacks. We greatly appreciated the different remarks and we will take them into account for a future submission in order to substantially improve the paper.

However, considering the comments from the second reviewer, we believe that the

paper will benefit from a thorough rewrite work. Firstly, the data are now 6 years old and the project ended more than 2 years ago. It is therefore logistically difficult and scientifically irrelevant to go to the field for ground truth data. Secondly, as highlighted by the second reviewer, the paper main topic is more about ERT interpretation limits or pitfalls, than about water infiltration trough a landfill cover layer.

These are the reasons why we would like to rewrite the paper completely. The unifying idea of the paper would then be the potential pitfalls encountered when interpreting ERT data in a complex environment. These would be highlighted with numerical simulations. The field case would then be mentioned as an illustration of the interpretation challenge.

As a full rewrite is considered, we asked the editor for more time for the reviewing procedure, or be authorized for a resubmission in the following months. We also inform you that I end my contract with the University of Liège / Gembloux at the end of September. The lead of the rewrite / resubmission work will be undertaken by Mrs Garré, last author of the present submission.

Sincerely,

For the authors,

Gaël Dumont