Technical note: The use of an interrupted-flow centrifugation method to characterise preferential flow in low permeability media

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Final response to Editors comments

Comment from the Editor:

The technical note is almost ready for publication. The authors provide a motivation for the missing data during the no-flow phase of the experiments ("To clarify, it would have been impossible to do as the Reviewer suggests as concentrations cannot be measured unless there is flow, and therefore effluent to collect for analysis"). I could not find this remark in the text, but I think it could help the reader to analyse the results and, therefore, I ask the authors to insert it in the final submission. Since this is the only change required to the technical note, there is no need for a further Editor's review.

Response:

We have added the following text to the Figure 1 caption:

"The data points represent the concentration averaged over each sampling period and the dashed line for the model output represents the raw model output time series. In the empirical experiment it was therefore not possible to measure the concentration of the effluent during the no flow phase because there was no effluent to collect for analysis. Thus due to this averaging, in the rising limb of the breakthrough curve, the first point obtained by measurement during each flow phase can be observed as consistently greater than the 'starting concentration' for the raw model output."