Dear authors		
is	anks for the detailed responses to my comments and observations. The a better than the first version, especially in terms of writing and arifications. I enjoyed reading it and analyzing the results.	article
still missin	k some aspects of the CFD implementation and description in the articl g or need more clarification in the text (some are well explained in t Also, some comments were not addressed, but the response said they wer	the
	the flume experiment of Zhang et al" In that article there is more th g "the" is incorrect here.	han
but (new) li "in the flum	ne 96 says: e experiment of Zhang et al. (2020)"	
This is just	an example, but this happens in other parts too.	
	oncerns are related to the CFD implementation and the impacts that it results, especially in the magnitudes of the variables. The following rize this:	
schemes. The variable, es justify this advection we stability fo only provide While it is this setup. advantage ra in any simul The problem	ete paper is constructed around the results of highly diffusive numeri y are first order in all cases and impact the magnitude of every single pecially those related to forces and turbulence. The authors tried to in line 578 saying: "The RNG k- ε turbulence model and first-order mom re applied in the CFD simulation. Such settings ensured the computation r the flow over the highly complex bed surface of a step-pool unit but time-averaged results" true that the configuration will be more stable, the results are impact This should be acknowledged in the paper. As it is now, it seems to be ther than a loss in accuracy. For CFD studies, we want second order act ation. with first-order accuracy is that we don't know if the magnitudes are mated (most likely underestimated because velocity fluctuations almost	le mentum onal t could cted by e an ccuracy under
is (based on simulation. inlet of a s Thompson (20 adding 2 to simulating s first unit a to calculate structure in fact that th grains upstr is a result	sed in the first review, the distance between the inlet and the first the figures) 10 to 20 cm. Boundary conditions are critical in a CFD A short distance with a uniform velocity profile does not represent th tep-pool unit. The authors justify this by mentioning the work of Wohl 00), but they had developed turbulence when working in the field. Also 5 cm is still not enough. I mentioned this because I have experience tep-pool sequences using LES and noticed that the flow variables in th re different than the 2nd and 3rd. Actually, the first unit may not be average properties because it is the one that helps in developing the the subsequent units. Then the authors said that "This is supported be e streaky coherent structures already formed at the downstream of prot eam of the step in this study". This is not an accurate statement because of the model. You will always have some flow structure, but you can on it is valid if you have measurements.	he l and o, he e used e flow oy the truding ause it
	only one step-pool unit in the experiment. This is not representative use they are sequences most of the time.	of
configuratio	sidering the cumulative effects of the different experimental hs, 1st order + boundary conditions + single step-pool unit, I don't ts are a good representation of what was happening in the actual exper	
T believe al	I these three points must be acknowledged and explained earlier in the	2

I believe all these three points must be acknowledged and explained earlier in the article and not leave them for a small discussion at the end of the text. I would place them in section 2. This is a good study and will certainly be a reference for future studies, so these simplifications and decisions must be highlighted. Subsequent studies can identify these gaps and improve upon them. There are no problem by saying that simplifications have been done, actually that would be an advantage because they can be clearly identified.

- 30 Finally, some responses are very useful but were only included in the line by line responses and not in the actual article. For example, the comment about convergence criteria, boundary conditions for k and epsilon, etc. Make sure that the answers are included in the text too. My comments are intended for the general audience.