Responses to Editor’s comments on “Influence of groundwater on distribution of dwarf wedgemussels (*Alasmidonta heterodon*) in the upper reaches of the Delaware River, northeastern USA” following major revision

We have modified the manuscript in response to the Editor’s comments as follows:

Thank you for uploading the revised manuscript. Before I can accept it for publication there are three very minor details to correct.

L. 281: please explain "M" and "N" at that stage. Not all readers will have the abbreviations present when going through the result section.

The revised text now reads: Median water depths measured at Site 2 during the June 2012 field visit were 0.58 m and 0.59 m for M (DWM present) and N (DWM not present) locations, respectively.

L. 330: please explain "i" at that stage. Not all readers will have the abbreviation present when going through the result section.

The revised text now reads: The single measurement of hydraulic gradient (*i*) at Site 1 during the afternoon of 26 July 2012 resulted in a value of 0.17, indicating a large potential for groundwater to discharge to the river.

L. 469: I suggest to take (7) and (8) out of the numbered list. Basically, (1) to (6) lend support to your explanation (as stated on L. 457). I then would just add that neither geophysical nor the chemical analyses could provide any further information on possible differences between the M and N locations.

We have revised as suggested and now list only 6 points. The revised text immediately following point 6 now reads:

Somewhat surprisingly, neither geophysical nor chemical methods were related to presence or absence of DWM. Although patterns were evident, geophysical data showed no clear correlation with M or N reaches. Chemistry of groundwater, water removed from in-river piezometers, and surface water was virtually identical, rendering chemistry, often a good indicator of water source, of little use to distinguish M from N reaches.

Sincerely

Christian Stamm
Editor HESS

**Please note: I was unable to upload a zip file with our final figures as something was blocking the transmission (it may be related to our tight USGS security). Therefore, I clicked the button indicating that our final submission does not include a final figure upload. Please let me know how we might resolve this.**

Thanks very much for the helpful suggestions. We look forward to the next steps for moving this manuscript forward to publication. Thanks again for all your help throughout the review process.