

SOIL Discuss., author comment AC2  
<https://doi.org/10.5194/soil-2021-45-AC2>, 2021  
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## Reply on RC2

Danielle L. Gelardi et al.

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Author comment on "Biochar alters hydraulic conductivity and inhibits nutrient leaching in two agricultural soils" by Danielle L. Gelardi et al., SOIL Discuss.,  
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We thank the reviewer for their thoughtful and in-depth analysis of our manuscript, and appreciate the time and effort that went into this review. We have addressed the reviewer's comments by restructuring the manuscript to shorten the introduction and lengthen the discussion. Those changes make our knowledge of the literature more explicit, and better situate our specific results within the ongoing work in this field. We have also made significant edits to the materials and methods section which clarify many details that were previously opaque. Finally, we have performed an additional experiment at the reviewer's suggestion, to include point of zero charge (PZC) data for the biochars included in the column studies. As there was overlap in the suggestions from each reviewer, some of our responses can also be found in the document submitted in response to reviewer #1.

Please find details of our edits in the attached PDF, and thank you for your consideration.

Please also note the supplement to this comment:

<https://soil.copernicus.org/preprints/soil-2021-45/soil-2021-45-AC2-supplement.pdf>