

Interactive comment on “Spatial and temporal distribution of drainage and solute leaching in heterogeneous urban vegetation environments” by H. Nouri et al.

Anonymous Referee #2

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The manuscript presents a study aimed at understanding temporal and spatial patterns of drainage and leaching in a urban park irrigated with recycled wastewater.

Although the topic might be of interest to the readers of HESS, the study in its present form presents several limitations that do not allow the Authors to address the issues presented as research questions in the manuscript.

I have listed below specific comments.

- Introduction: some parts of the introduction belong to the methods (e.g., P6698, L1-L5; P6698, L20-L28.

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- Methods: the spatial (2 location) and temporal (monthly) resolutions are not enough to achieve the goals stated in the title and introduction.
- P6700, L3-L6: I would specify the period used to calculate the averages.
- P6702, L1-L22: this should be in the section on the methods.
- P6703, L17-L23: this is rather well known.
- P6704, L1: '...monthly and seasonally...'. Aren't these the same?
- P6704, L15-L20: move to methods.
- P6704, L21-L29: this is well known. These comments are speculative and are drawn from the experiment presented here.
- Tables 1, 2: I would specify somewhere which months are associated to the different seasons. Also, I would report first rainfall, then irrigation and lastly drainage.
- Table 4; Figure 7: TDS is not a nutrient. Also, I don't think nitrite and nitrate are nutrients.
- Figure 1: add a map of Australia to show where Adelaide is located.
- Figure 3: not useful.
- Figure 6: the unit in the vertical axis are not correct. For example, pH, SAR, and EC are not in mg/L.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 10, 6695, 2013.

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