



Can water quality modify water quantity?



Project Description

Water quality affects microbial gas production, which in turn may result in blocking of pores in soils and a reduction of hydraulic conductivity. Changes in water quality may therefore ask for large modifications in water management. However, as the relation between water quality – hydraulic conductivity is unknown, it is impossible to adapt water management on changing water quality.

Methodology

- 1) Develop a new method to regulate the bubble content in soils
- 2) Explore the relation between water quality, bubble content, and hydraulic conductivity in controlled conditions (lab) and in the field.

Specific:

- Use of the soil physics laboratories
- Close cooperation with B-WARE/Radboud University (Nijmegen) for biogeochemical

Host institute: Wageningen University, B-WARE (Nijmegen), Radboud University (Nijmegen)

Country: The Netherlands

Starting date: any time

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