

Determination of clogging during managed aquifer recharge operation by laboratory experiments and mathematical models

J. Ringleb, T. Fichtner, C. Stefan

*Department of Hydrosociences, Technische Universität Dresden, Germany

- Clogging (infiltration capacity reduction) of infiltration ponds and basins reduces efficiency
- Determination and prediction of clogging often a challenge as different processes interact and influence its extent
- Laboratory tank experiments (river water, wet-dry cycles)
- Comparison of different clogging estimation techniques

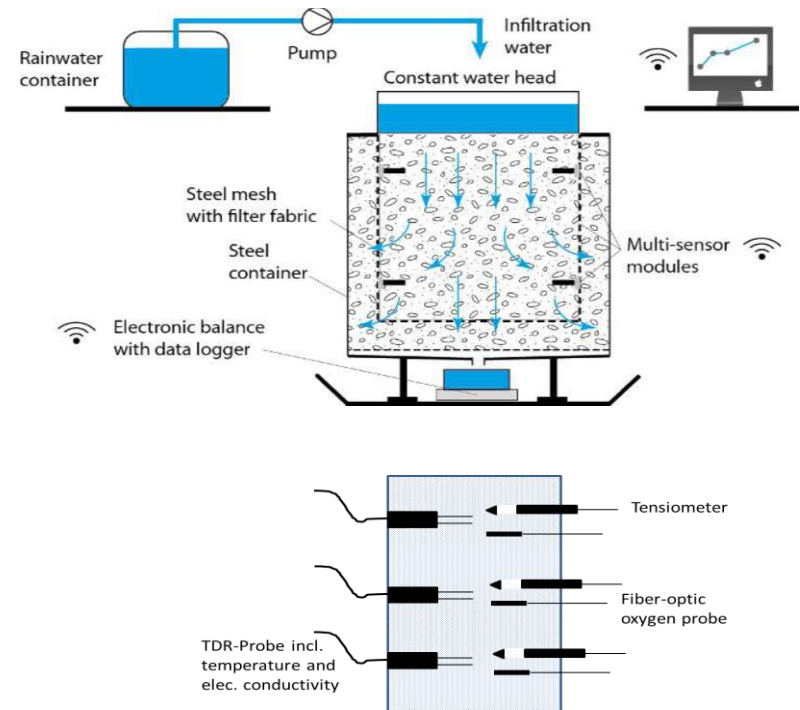


Fig. 1. Setup of laboratory tank experiment: top profile view and low top view including measurement devices.

Reduction of hydraulic conductivity over time:

