

Greywater treatment as an option for effective wastewater management in small communities

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ABSTRACT

This paper presents the results of four different investigations where greywater is treated with low technology as achieved a constructed wetland and a gravel and sand filter as well as with a high-tech option: the membrane bioreactor. The applications are perfectly suited to be operated in remote areas or small communities with tourist depending variation of discharged wastewater flows. The advantage in the general sustainable water management approach of each treatment option will be shown, the technologies will be compared in terms of robustness and effluent quality and first conclusion will be drawn for the field of application in small communities.

Keywords: Greywater; Reuse; Constructed wetland; Gravel filter; MBR

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