Scaling of the potable water network of the Touggourt city (Algeria)

Boualem Reminia,*, Lazhar Sayahb

aDepartment of Water Sciences, Blida University, Blida 09000, Algeria
Email: reminib@yahoo.fr
bDepartment of Hydraulic, Ouargla University, Algeria

Received 11 August 2012; Accepted 25 April 2013

ABSTRACT

With rainfall not exceeding 100 mm/y, the Touggourt region is supplied by the groundwater from the Intercalary Continental aquifer. The needs of irrigation and potable water are met by deep drillings that capture the water of the Intercalary Continental aquifer. It is a fossil water whose temperature is source around 60°C and a mineralization exceeding 2 g/L, which has led to the formation of tartar deposits in the supply network of potable water. The investigations conducted in 2004, 2005, 2007, 2009, and 2010 in the Oued Righ valley reveal the seriousness of the phenomenon of scaling and the consequences on the distribution of water in the Touggourt city.

Keywords: Touggourt; Network; Potable water; Scaling; Intercalary continental aquifer

*Corresponding author.

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