

**RESERVOIR SILTATION CAUSED BY CHANGE OF USE OF HYDRAULIC
WORKS FROM IRRIGATION ONLY TO URBAN WATER SUPPLY: OUED
BOUROUMI, ALGERIA**

**BENINA TOUAIBIA, MOHAMED TOUAIBIA, BACHIR BENLAOUKLI,
ABDELAZIZ BESSALEM , MOHAMED FEWZI SIDI MOUSSA**

Abstract:

Oued Bouroumi (Algeria) is now totally regulated by hydraulic works. Originally conceived to provide water only for irrigation, these works (El-Moustakbel dam, Mouzaïa irrigation reservoir), have also been used for water supply to Algiers (the Algerian capital city) since the 2002 water supply crisis. These operational changes are now causing a major silting issue in the Mouzaïa irrigation reservoir: its volume has been reduced to 35% in two years, which has necessitated the removal of 45 000 m³ of deposited mud. Our study illustrates the difficulty of integrated water management in dry regions.

Key words :suspended solids; reservoir silting; El-Moustakbel dam.