



Some Aspects of Surface Water Treatment Technology in Tirana Drinking Water Treatment Plant[#]

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Received May 06, 2009; Accepted September 04, 2009

Abstract: Tirana's Bovilla treatment plant was the first of its kind for Albania, which treats surface water. The input water comes from the Bovilla artificial lake, around which, the presence of villages induces pollution in the surface water and therefore affects the efficiency of treatment plant and consequently the quality of drinking water. The treatment plant is a simple conventional system and includes pre-oxidation, coagulation, flocculation & sedimentation, fast filtration, post-oxidation. It started functioning in 2000 and after only one year some problems were noticed related with doors and taste of the water after its treatment. The majority of all biologically caused taste-and-odour outbreaks in drinking water were caused by microbial production of geosmin. To eliminate these taste and odour problems, it was decided to use activated carbon powder (PAC) in the treatment process. Nevertheless, from time to time, these problems continue to emerge in the drinking water.

Key words: *Bovilla Lake, water treatment, pollution, indicators, technology*

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[#]This study has been presented at 24-25 April 2009-Alblakes'09, Pogradec- Albania.