

OPEN DUMP YARD AND THEIR ENVIRONMENTAL IMPACTS ON GROUND WATER SOURCE (Study Area Dump yard of Karwar, Karnatka, India)

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Abstract

Municipal Solid Waste (MSW) is being produced since earth's evolution. During the early period, MSW was conveniently disposed of in low lying areas with large open land space. The population growth lead to increase in Solid Waste generation and the problem of waste disposal and its adverse impact on the environment is recently diagnosed, may be due to poor enforcement of existing regulations. The waste is dumped in the outskirts of the cities in low lying areas with no compliance of regulations. The dumped waste contains organic, inorganic and inert material like debris in mixed form This paper is a review describing the status, constituents, impacts and remedial measures of dump yards. Managed municipal solid waste particularly in developing countries like India, have lead to the serious-environmental problem. Due to limited financial resources, it is given least priority to municipal solid waste management (MSWM) in India. The current practice of uncontrolled dumping of waste on the outskirts of towns/cities has created a serious environmental and public health problem. The municipal solid waste dump when comes in contact with the rainwater, generate leachate. It is important to know the characteristics of this leachate and effective management of solid waste dumps as well as to evaluate the probable impacts of this leachate on ground water sources and surrounding environment. The assessment of impacts on ground water sources near to MSW dumps is of considerable importance in management and disposal of solid waste. The leachate may greatly affect the ground water sources near to the dumpsites. In the present study an attempt has been made to investigate the relationship between the characteristics of leachate generated from municipal solid waste and its impact on surrounding ground water sources

Keywords: Municipal Solid Waste, dumping grounds, ground water.