

## APRESENTAÇÃO ORAL

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### **A SANDBOX MODEL TO STUDY A CONDUCTIVE BARRIER**

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The most common disposal method of municipal solid waste (MSW) is the landfill, which represents a potential source of pollution to water resources when not properly designed, monitored and closed. The aim of this research is to evaluate an innovative technique to reduce the groundwater lateral flow inside contaminated areas to some acceptable level. The method consists in a vertical barrier of high hydraulic conductivity, called conductive barrier, that conducts the flow inside its structure. Since an experimental study is essential before in situ applications, this work presents the sandbox model that has been constructed to analyze the groundwater flow through a conductive barrier. The aim of this research is to verify, in laboratory, the effectiveness of the proposed method, which represents an alternative to reduce groundwater contamination in countries where inadequate disposal of MSW are still an issue.

Landfill|Groundwater Contamination|Conductive Barrier|Sandbox Model