

APPLICATION OF NANOFE TO REACTIVE GATE 1b IN THE HLUK SITE, SE MORAVIA

APLIKACE NANOFE DO REAKTIVNÍ BRÁNY 1b NA LOKALITĚ HLUK

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Abstract:

In the frame of specific research project, the long-term monitoring of the reactive gate 1b on the industrial area near the Hluk city, SE Moravia is performed. Also the observations of nanoFe application influence to reduction ability of the reactive gate and the influence to chemical and physical parameters of groundwater and reactive gate efficiency are realized.

The significant changes of physical and chemical parameters of groundwater and changes of chlorinated hydrocarbons concentration were detected on gate after pressure application of nanoFe and water mixture (30 kg of nanoFe and 1 cubic meter of water). Also the part time increasing of reactive gate 1b efficiency was found out.

Keywords:

NanoFe, application, monitoring, chlorinated hydrocarbons, permeable reactive barriers (PRB), efficiency.