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论文

填埋场粘土类防渗系统研究进展

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摘要:

作为防止污染物扩散的防渗系统是填埋场中最重要的部分之一。在总结国内外众多有关填埋场粘性土防渗系统研究 成果的基础上,阐述了粘土类防渗系统的工作机理;从粘性土阻滞特性、污染物运移、改性与替代材料以及防渗系 统设计等4个方面综述了粘土类防渗系统研究的最新进展;并据此认为,非饱和渗透特性、吸附效应及基于吸附一 扩散效应的设计方法等将成为今后填埋场粘性土防渗系统研究的主要问题。

关键词: 填埋场 粘土 防渗系统 吸附 污染物

CURRENT STATUS | OF CLAYEY SEEPAGE CONTROL SYSTEM | FOR | MUNICIPAL SOLID ▶文章反馈 WASTE LANDFILL

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Abstract:

The seepage control system in municipal solid waste (MSW) landfill is to prevent the spread of pollutants. This paper presents a literature review of the studies on clayey seepage control systems in MSW landfills. It further presents the mechanism of clayer seepage control system. The developments of the studies of the clayey seepage control systems in MSW landfills include the retardation characteristics, the contaminant transport, the modification and substitute, and the design on the seepage control system. It is pointed out that the unsaturated permeability, adsorption effect and optimize design based on adverse-adsorption are the key topics in the future study of clayey seepage control systems for MSW landfills.

Keywords: Municipal solid waste, Landfill, Seepage, Clay, Pollution

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