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垃圾填埋场地下环境污染检测方法技术研究

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Study of detecting technology for landfill underground environmental pollution

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摘要

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摘要 本文应用电阻率成像观测方法对北京通州某垃圾填埋场开展了面积性测量,应用模糊数学隶属函数的理论给出了分辨地下污染状况的量化指标,并对填埋场地下环境污染状况进行了分区.钻孔资料表明,分区结果真实地反映了填埋场地下环境污染的分布状况.

关键词 电阻率成像观测, 垃圾填埋场, 隶属函数, 地下环境污染

Abstract: Underground environmental pollution caused by landfill has become a severe problem endangering economic development and public health. In order to improve the effectiveness of detecting environment pollution caused by refuse sanitary landfill, we conducted electrical imaging survey(EIS) in a refuse sanitary landfill in the Tongzhou district of Beijing. By adopting the membership function of fuzzy mathematics, we presented the quantitative indication of underground environment pollution and inferred the state of underground environment pollution on the refuse sanitary landfill. It indicates that the inferred results are in good agreement with borehole data.

Keywords Electrical imaging survey(EIS), Landfill, Membership function, Underground environmental pollution

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