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RISK-BASED ANALYSIS OF AN INDUSTRIAL ROMANIAN SITE HISTORICALLY CONTAMINATED WITH HEAVY METALS AND TOTAL PETROLEUM HYDROCARBONS

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Abstract

Contaminated land is a major problem and its remediation costs in Europe and the USA exceed €550 billion; however, rehabilitation proceeds only at a slow pace. The normally high cost of remediation, along with the inefficient use of the available funds, gives rise to a need for a method of effectively allocating remediation funds. Risk assessment based techniques sustain the decision-making process regarding contaminated sites rehabilitation, along with cost/benefit analysis for the process sustainability. This paper presents the decision-making process steps for the management of a contaminated site, and applied to a case study in central Romania.

Key words: contamination, cost/benefit analysis, risk assessment, site-specific investigation, threshold values

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