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Abstract Details

Abstract Title

TECHNICAL SOLUTIONS FOR REMEDIATION OF HISTORICALLY POLLUTED SOILS

Abstract Text

Nowadays, environmental protection has become a priority and almost any anthropic activity has to respect the requirements of communitarian legislation towards a sustainable development and environmental protection starting with prevention by using "clean technologies", environmental monitoring and pollution reduction/abatement technologies. However, many countries have environmental problems because of ex industrial production, improper transport and manipulation and/or former intensive use of some organochemicals – which are now recognized as persistent organic pollutants. For example, Romania does not produce/use lindane since decades but, because of industrial waste landfills or abusive use, these pesticides are still present in soil and water in the proximity of former production units. The paper presents briefly the technical solutions currently used for historical polluted sites remediation and a comparative analysis of the experimental results obtained for the remediation of two soil samples polluted with HCH isomers. Three different experimental approaches were used: co-metabolic bioremediation- biostimulation of indigenous bacteria with molasses; bioaugmentation with Phanerochaete chrysosporium and coupled chemical reduction and bioremediation.

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Presentation

Contribution proposed for: oral presentation

