

Influence of NOMs on the mobility and fractionation of heavy metals in soil

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In this study, the influence of natural organic matters (NOMs) on the mobility and fractionation of heavy metals in soil was investigated. Natural organic matters have phenolic- and carboxylic-functional groups in their molecules, which have potential to increase the mobilization of heavy metals. Soil washing tests with the concentration of NOMs, solution pH for target contaminated soil from a refinery facility in Korea were conducted. As a result, humic and fulvic substances showed higher removal efficiency of heavy metals from soil and also influenced on their fraction change. This research was supported by a grant from Korea Ministry of Environment as "GAIA project".