COMPARISON OF LEACHING TESTS APPLIED TO ROADSIDE SEDIMENTS, ASSESSMENT OF HEAVY METALS REMOBILISATION BY FRACTIONATION

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1. Pollutants from anthropogenic activities may accumulate immediately at the asphalt border, mixing with natural components, being sometimes covered by grass and forming part of the roadside sediments.

2. Possible transmission of road pollutant charge from the roadside sediments to other reservoirs depending on climatic conditions which may constitute a health hazard.

SAMPLING SITE
29 km of a crowded Spanish highway (C-58 in Barcelona area).

SAMPLING
16 samples: 1 kg of roadside sediment was collected by gently sweeping road surface with a clean soft nylon broom.

Correlation among extractants
Significant pollution due to Cu, Pb and Zn is seen through the comparison between acid leaching extractants (once normalised) however showed ECG values between target and intervention values.

The acquired data could be used as a baseline database for future studies of the area giving assessment on pollutants accumulation when monitoring studies will be performed by single leaching tests. From the obtained data, urgent actuation is needed close to M3 and M11 sampling area. By simply sweeping thoroughly the area, the hazard could be greatly reduced, due a decrease of the possible transmission of the pollutant charge to other reservoirs that may constitute a health hazard.

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