

The Study Case #10 – ReSoil[®]-Urban in Moldova Nouă, ROMANIA

Information of site owner/site provider

- Universitatea Babeş-Bolyai din Cluj-Napoca, Strada Mihail Kogălniceanu 1, Cluj-Napoca 400347, Romania
- Source of funding: EU HORIZON-RIA, grant agreement No. 101112723

Objective

ReSoil[®] technology appraisal under the EU Horizon ARAGORN project. ARAGORN assesses its sustainability, contaminant removal effectiveness, and environmental remediation viability

Contaminated site characterization

- Remediation of soil/metallurgical deposit, contaminated with 110 mg kg⁻¹ Pb, 0.5 mg kg⁻¹ Cd, 1170 mg kg⁻¹ Cu, and 150 mg kg⁻¹ As
- pH: 3.2

Remediation results

- 43% Pb, 68% Cd, 32% Cu and 3% As were removed



Source: Universitatea Babeş-Bolyai din Cluj-Napoca

Site description

The Moldova-Nouă mining site has been exploited for copper since 1965, with underground and surface mining. After ceasing operations in 2008, a new exploitation license was granted in 2021 to CUPRUMOLD Mining SA. The area has a heterogeneous distribution of heavy metals due to its mining history.

ReSoil[®] REMEDIATION EFFICIENCY

Initial metal concentration



Reduction in metal concentration

