The Study Case #12 – ReSoil®-Urban in Trignac, FRANCE

Information of site owner/site provider

- Microhumus, 18 rue d'Alsace, 54140 Jarville la Malgrange, France
- Source of funding: EU HORIZON-RIA, grant agreement No. 101112723

Objective

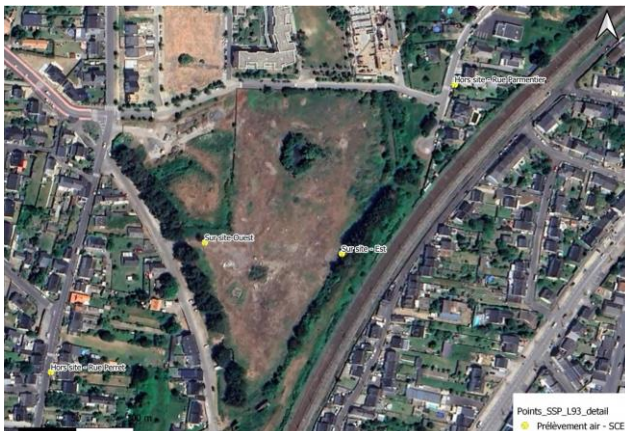
ReSoil® technology appraisal under the EU Horizon ARAGORN project. ARAGORN assesses its sustainability, contaminant removal effectiveness, and environmental remediation viability

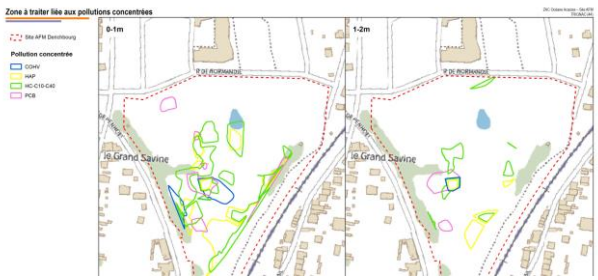
Contaminated site characterization

- Remediation of multi-contaminated soil with 2270 mg kg^{-1} Pb, 2870 mg kg^{-1} Zn, 3.0 mg kg^{-1} Cd, 170 mg kg^{-1} Cr, 4050 mg kg^{-1} Cu, 29 mg kg^{-1} As, VOCs < 3mg kg^{-1}, PAHs < 100 mg kg^{-1}, HC C10-C40 < 1500 mg kg^{-1} and PCB < 6 mg kg^{-1}
- pH: 7.6

Remediation results

- 76% Pb, 72% Zn, 83% Cd, 18% Cr, 58% Cu and 62% As were removed





Courtesy of Loire-Atlantique Développement - SELA, Plan de gestion (PG) ZAC Océane-Acacias - Secteur des Hameaux Trignac (44) and Microhumus

Site description

The former AFM Recyclage site in Trignac was used for industrial waste storage, with a total volume of about 18,000 m^3 of soil deposits.

ReSoil® REMEDIATION EFFICIENCY

Initial metal concentration

Pb	Zn	Cd	Cr	Cu	As
2270 mg kg^{-1}	2870 mg kg^{-1}	3.0 mg kg^{-1}	170 mg kg^{-1}	4050 mg kg^{-1}	29 mg kg^{-1}

Reduction in metal concentration