ENVIRONMENT

MAPPING RAINWATER INFILTRATION AND WASTE IN THE CITY OF SEEST - A FORMER FIREWORK PLANT SITE

Because of future urban development the Municipality of Kolding wanted to map the near-surface geology of a former firework plant site in Seest. The primary purpose of the mapping was to investigate the possibility of rainwater infiltration in the area and secondarily to map foundation remnants.

The geophysical mapping was carried out using the DualEM method in which detailed information on the electrical resistivity of the soil down to approx. 10 meters was collected.

In combination with information from investigation drillings and infiltration tests the resistivity from the DualEM mapping can be part of a data material for planning sustainable urban drainage solutions.

The mapping showed low resistivity under the very near-surface. This indicates clay deposits which will make infiltration difficult.

The mapping also showed sub areas with a higher resistivity indicating more sandy/ permeable layers, possibly making infiltration possible.

At the same time, the mapping indicates where to find remains of the firework plant

CUSTOMER
The Municipality of Kolding
LOCATION
Seest, western Denmark
PROJECT COUNTRY
Denmark
PERIOD
2014-2015
SERVICES PROVIDED
Geophysical mapping, Sustainable urban drainage