



## SITE REPORT



**TERRA-MIX**

REALIZED: JUNE 2009

BUILDING PROJECT: DRINKING WATER PURIFICATION PLANT,  
RESITA, ROMANIA

AWARDING AUTHORITY: CITY OF RESITA

AREA: 1420 M<sup>2</sup>



## Assignment:

For the construction of the new drinking water purification plant next to the old processing plant it was necessary to improve the building ground, since the water reservoir was to be built partly on rock (gneiss) and partly on gravel fill. Without building ground improvement differential ground settlement could hardly be prevented.

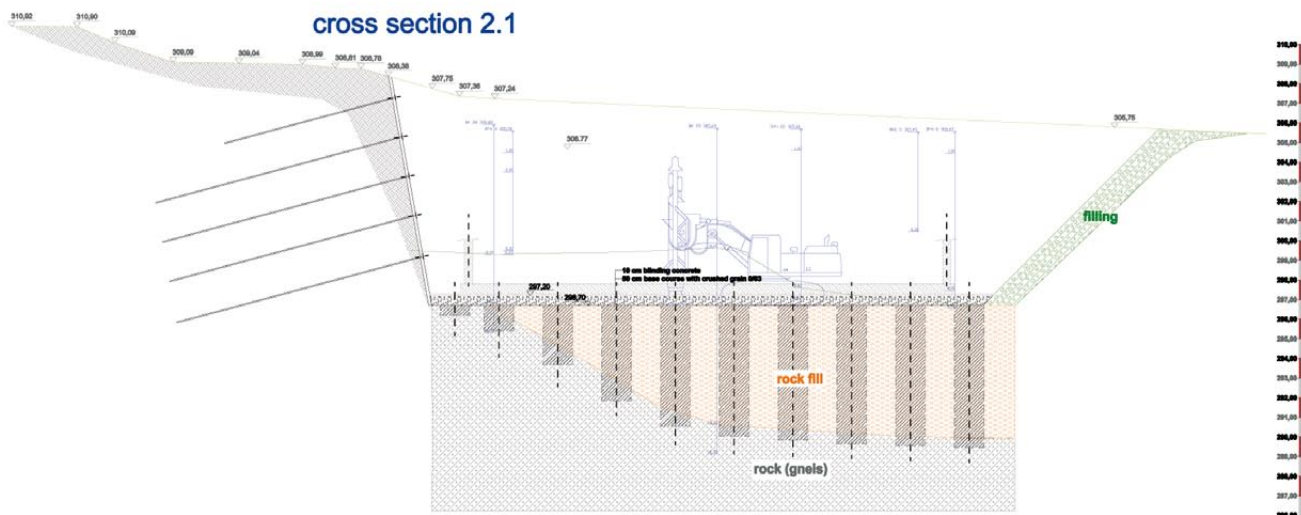
Due to the limited space available a complete excavation and a layer by layer reconstruction would have been very expensive and time consuming. Hence, next to Impulse-Compaction only a stilt based foundation would come into question.

## Solution:

Due to its technical and economic advantages it was decided to use Impulse-Compaction. With the Impulse-Compaction method the amount of energy needed to be transferred into the ground could be targeted very specifically. The different settling potentials of the building ground could hence be taken care of up front.

## Results:

After the Impulse-Compaction the success of the action could be verified by on-site tests or by means of the extensive monitoring system of the machine. The water reservoir could hence be safely built.



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