

TERRA-MIXTM

_STRAIGHT AHEAD

DAM

RENOVATION »SYSTEM TERRA-MIXTM«

**_Building site
report**

_Realized: July - October 2009

_Building Project: High-Water Protection, Kamp

_Awarding Authority: NÖ Local Government

_Length: 4800m



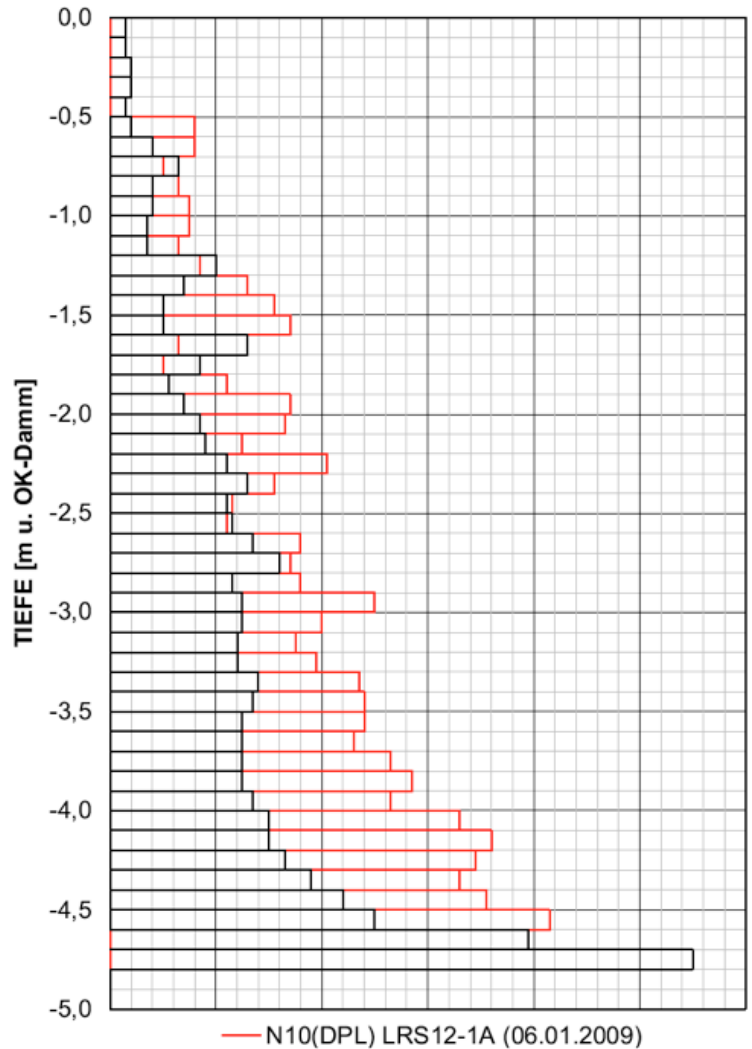
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Assignment:

The 60 year old dam was to be renovated by reducing the porosity and by closing the cavities created over time by animals. Three methods were verified – vibro flotation, vibro stuff flotation columns and Impulse Compaction.

Solution:

Due to its technical and economic advantages it was decided to use Impulse Compaction. A row of compaction columns in close proximity to each other were created through a specific sequence of compactations. This without displacing the dam crest.



Results:

By means of the Impulse Compaction the complete dam could be renovated and had its porosity and permeability reduced all the way down to the in-situ layer of gravel. Through the volume reduction the dam experienced at the same time an increase in its load carrying capacity and stability, further leading to a reduction of the danger of erosion.

