

Project Location:

Bologoye Section, Highway St. Petersburg to Moscow

Main Contractor:

Transstroyemkhanizaciya

Betterground Client:

Geoizol

Project period:

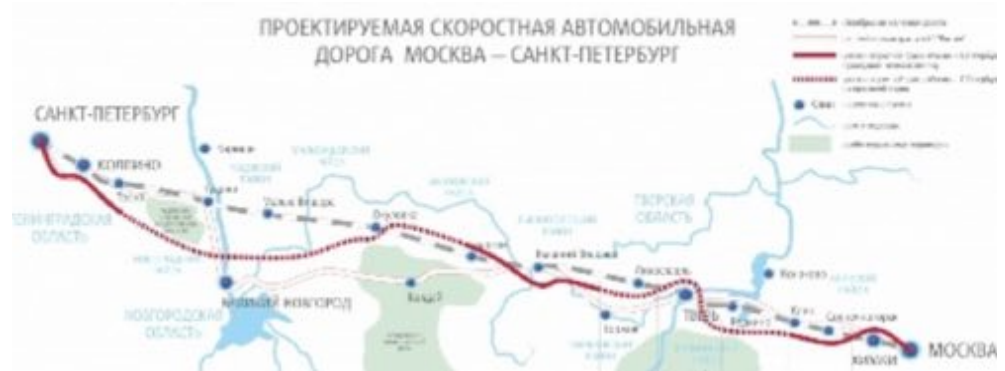
Summer 2014

Method Applied:

Bottom Feed Sand Columns installed into a very loose sand fill that replaced a peat layer of consistency near or above liquid limit.

Technical Requirements:

Provide accelerated drainage, instant stability increase and reduction of long term creep settlements under road embankment. Challenge to use sand and not crushed gravel was mastered through modifications to Bottom Feed Stone Column equipment. Target to install Sand Columns in 2.50 m square grid with column diameter of 80 cm in the loose sand but up to 1.60 m in remaining lenses of the replaced peat.



New Highway St. Petersburg to Moscow.



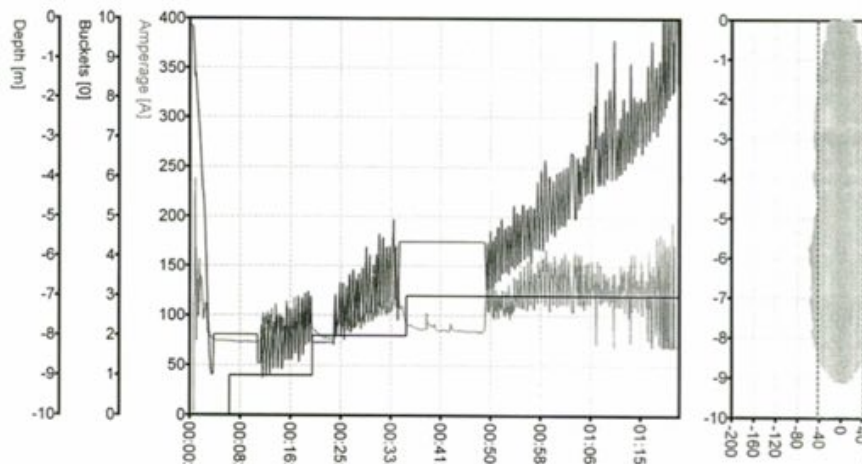
Dozer applying the sand fill

Quality Control Testing:

Electronic Cone Penetration Tests (CPTs), supported by digital process data from Vibro rigs,



BC1 rig with B27 vibroprobe installing 80 cm to 160 cm diameter sand columns.



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