

Ground investigations - E6 Roterud-Storhove

Lågendeltaet, Norway

- Ground investigations for sampling of loose soil material with a diameter of 102mm.
- 3m drilling into compact bedrock.
- Telescopic drilling up to 50m depth.
- Strict environmental requirements on island within a protected nature reserve.



The project

For the E6 motorway expansion between Roterud - Storhove near Lillehammer, AF Gruppen Norge hired Keller Geoteknikk to perform ground investigations in the project area. The aim was to get a better understanding of the soil composition and the actual bedrock level for adjusting the design of bridge foundations and cuttings/embankments.

The challenge

- Drilling through highly abrasive soils with confined groundwater aquifers.
- Strict environmental requirements with a tough timeline to meet.
- Working on an island with restricted access for material and equipment.
- Drilling depths up to 50m in loose soil.
- The actual bedrock level for adjusting the design of bridge foundations and cuttings/embankments.

The solution

- Keller performed the works in tight cooperation with the client and the designer.
- Short-term adjustments were made to retrieve the best possible outcome.
- Telescopic drilling was used to reach the depths within challenging soil conditions.

Project facts

Owner(s)

Nye Veier

Keller business unit(s)

Keller Geoteknikk

Main contractor(s)

AF Gruppen Norge

Engineer(s)

Main contractor's Project Manager: Anton Brandtzæg

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Solutions

Bearing capacity / settlement control

Markets

Infrastructure

Techniques

Bored piles / drilled shafts

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