



Key achievements

- Installation of 21 conventional sheet piles with a total area of 437 m².
- 347 Jet grouting columns with diameters between 1,2 m and 2,2 m
- 12 casings 139,7x4,0 mm for inclinometers were installed to a max. depth of 48m.
- For supporting structures, 29 Micropiles with dimensions of 323,9x12,5 mm were driven down near existing tracks and overheadline.

• The project

In summer 2021, the Folloline Project planned a train shutdown for continuing the works near Oslo main train station. This involved geotechnical works like Micropiling, Jet grouting and Sheet piling near active tracks as well as preparational works for a future excavation pit, beside and inside an existing tunnel structure.

• The challenge

- Tight time schedule to finish within the set shutdown period.
- Sheet piling works to be performed close to tracks and overhead line.
- Working simultaneously with different Keller products.
- Working inside the tunnel with less than 5.5m headroom

• The solution

- ✓ Keller managed to finalized the works before schedule. To ensure the delivery deadline, the Keller team worked in day and night shift. As a result, increased production scope could be achieved.
- ✓ In order to achieve good progress with the sheet piling works, a Movax and Vibro hammer were used in combination with a crane.

Application

Excavation pit
Ground improvement
Earth retention

Technique

Micro piles
Jet Grouting
Sheet piling

Market

Infrastructure

Client

Bane Nor

Main contractor

HAB Construction AS

Contract Value

48 million NOK

Keller companies

Keller Geoteknikk
Keller Grundbau
Keller Grundläggning

Main contractor's Project Manager:

Gard Mogen
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Project start date:
June 2021

Project end date:
September 2021