

## Ny Nerlandsøybru

Nerlandsøy, Norway

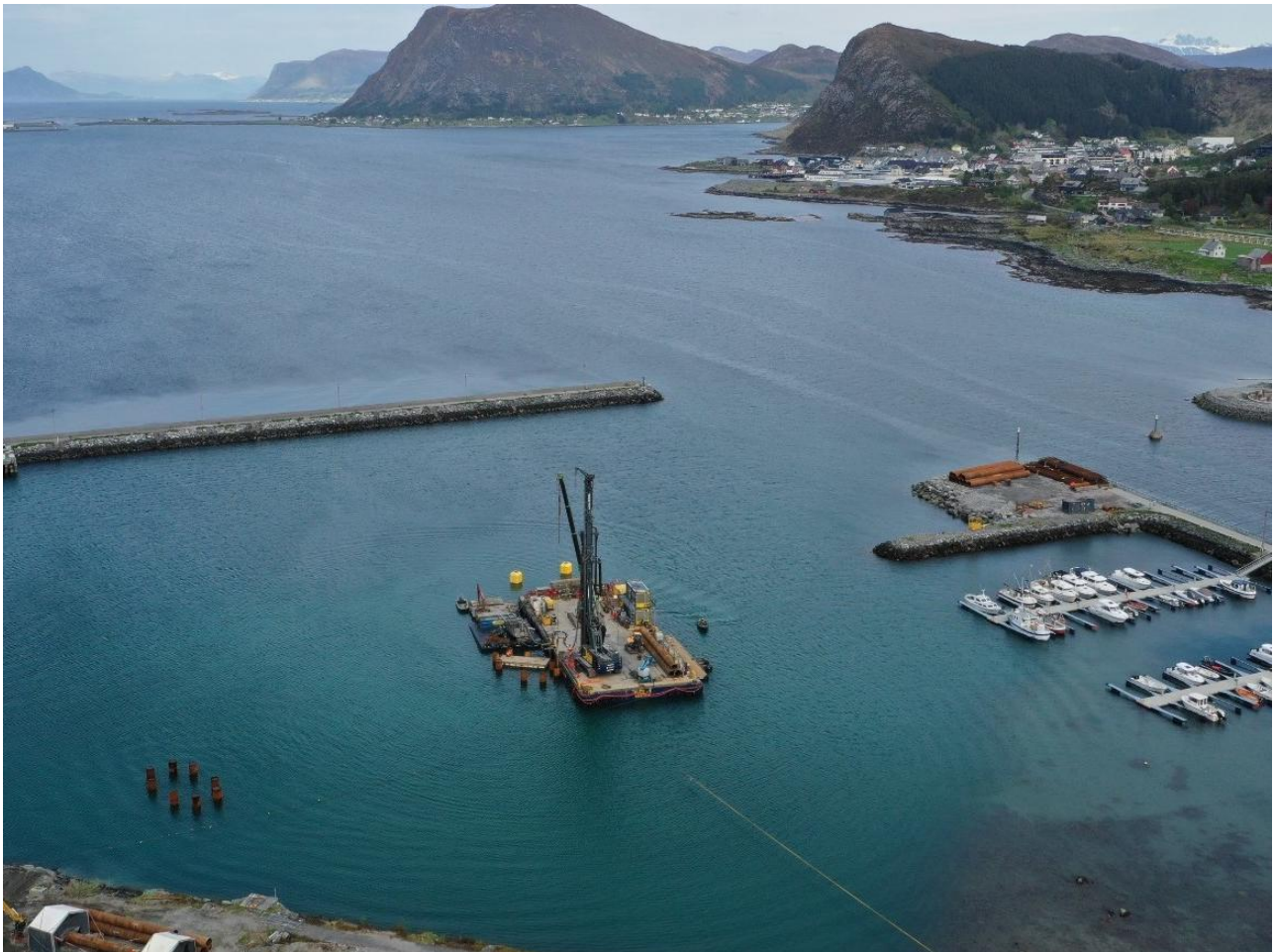
### KEY ACHIEVEMENTS

Work from floating barges and temporary embankments.

20 Steel Core Piles with a max. length of 34 m.

Installation of 1220mm x 14.2mm steel pipes for the maximum length of 17.0m.

Installation of 1016mm x 12.5mm steel pipes for the maximum length of 20.0m.



### The project

The new construction of Nerlandsøy Bridge on the Northwest coast of Norway includes a 574m long bridge. The new bridge will be located East of the existing bridge and is scheduled for completion in March 2025. Keller Geoteknikk AS has been commissioned for the geotechnical works that includes 54, vertically prestressed, piles with a total length of around 850m and the installation of steel core piles. The piles are drilled, cleaned, reinforced and concreted by Keller utilizing own barge.

## The challenge

- Working from the barge with positioning in the small boat harbor, with a limited mooring system of the barge due to small boat traffic.
- Strict environmental conditions in order to protect local nature.

## The solution

- Using a reverse circulation (RC) drilling technique to mitigate the sediment pollution of the water by collecting the sediments at the top of the drill string.
- GPS system used to ensure the drilling angle, position and final height are met regardless of the tide water level.

## Project facts

### Owner(s)

Møre og Romsdal fylkeskommune

### Keller business unit(s)

Keller Geoteknikk

### Main contractor(s)

Metrostav Norge AS

### Engineer(s)

Main contractor's Project Manager:  
Matěj Novotný  
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### Solutions

Heavy foundations

### Markets

Infrastructure

### Techniques

Bored piles / drilled shafts  
Ground anchors

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