



## Key achievements

- Keller installed about 3300 pcs of Ø800 mm lime-cement columns to stabilize the ground under a new private building for horses
- The lime-cement columns was installed in a predefined grid pattern to stabilize the soil

### Application

Soil stabilization

### Technique

DDSM (Dry Deep Soil Mixing)

### Market

Private

### Client

Alexandra G. Andresen

### Main contractor

Hersleth AS

### Geotechnical Designer

Multiconsult

### Keller companies

Keller Grundläggning  
Keller Geoteknikk

- **The project**

Hersleth AS had been contracted by Alexandra G. Andresen to execute the project with setting up a new building for horse-riding in Dilling, near Moss. In the project there was an area with sensitive clay under the building which had to be stabilized. Keller was therefore contracted as a sub contractor to stabilize the soil with our dry deep soil mixing method.

- **The challenge**

The challenge in the project was mainly that the ground contained a lot of obstacles, stones, cables etc. A lot of time were used to prepare the ground for the DDSM execution.

- **The solution**

The solution in the project was to remove the obstacles in the ground with an excavator and change out the soil in the top layer. In some areas there were no need of this as there were only clay all the way from the top. Keller made around 3300 pcs Ø800 lime cement columns with average length of around 7 meters. The columns were tested with the FKPS method where a wing is being pushed down in the column with a separate drilling rig. The strength of the columns is then measured. The strength was well above 300 kPa within 14 days after production.

#### Contracting project manager

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#### Prosjekt start date:

April 2021

#### Prosjekt end date:

July 2021