

ISTD/ I-22-07 PFRE

Context & Project Description

PFRE is a project in Copenhagen, located in the middle of an urban area, it aims to remediate the soil previously contaminated by industrial activities.

Equipment

- 135 burners
- 11 MPE wells
- VTU/CTU

Treatment target

The treatment target aims to be lower than 1mg/kg of dry soil.

Monitoring

Monitoring done by Haemers technologies with thermocouples to have a view about the temperatures in the soil.

Planning

Construction start-up: 15/10/2025

Heating start-up: 28/01/2025

End of treatment: 14/05/2025

Conclusion

The thermal treatment removed 99% of the pollutant present in the soil.

However, the treatment target was very low and was not achieved.

This may be the cause of too small-time treatment, bad heating, bad extraction or external influence by environmental factors. It has been decided by the client to excavate the soil in the last area that is not under the treatment target, thus around Z5.

Key words

Contaminants
Trichloethylene (TCE)

Max. concentration
270 mg/kg

Volume
3648 m³

Tonnage
6564 T

Nb of heating tubes
135 heating tubes

Temperature Target
100°C

Heating Duration
107 days

Treatment targets
1 mg/kg
Location
Copenhagen

Future use
Housing

Client
Arkil

Date
28/01/2025
to
14/05/2025