CHEMF

Case Study: Enhanced Drilling Performance with Complex42™



Project
Substrate
Location
Date
Company
Engineers
Email
Website
Drill Rig
Drill Bit

1 x 7m deep 1500mm
Up to 300MPa Basalt
Walwa, Victoria
November 10th, 2023
Access Excavation
Joel & Kyle Dazenko
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www.accessexcavation.com.au
Mait MC45(20 Ton)
1500mm Auger, Betek TCT Teeth

Summary of results Mait MC45 drill rig using 0.8% Complex42™



Faster drilling time

Duration/Hole	First 3.8m 240 minutes	Second 3.2m 80 minutes
Parameter	Water Only	Complex42™

Project Details:

- 1500mm Steel lined hole for monopole
- Ground composition: Very hard sedimentary rock

Methodology:

- Equipment: Mait MC45 with auger drill bit
- Measurements: Duration of drilling,
- Complex42™ poured directly into the hole from an IBC @ 0.8%
- For the first 4 hours (3.8m) drilling was drilled with water
- When they hit rock, Complex42™ was introduced and they were able to complete the job for the final 3.2m in 80min. In even harder material.

Key Findings:

- With the introduction of Complex42™, the auger was able to retrieve significantly more spoil on each excursion of the drill bit.
- Even in hard rock the ROP was able to significantly increase





