

Case Study: Fort Kinnaird

Client:

AMCO on behalf of Network Rail

Sector:

Rail

Services Provided:

Ground Stabilisation

Location:

Edinburgh, Scotland

Value:

£65,464.00

Year:

2018



Van Elle were chosen for this project due to our vast experience in delivering mine consolidation and shaft remediation work.

Van Elle were tasked with producing a methodology that enabled the shaft to be remediated in line with the Coal Authority's specification and AMCO/Network Rail's high safety standards.

Ground Conditions

Around the shaft, the conditions were found to be Ballast 0-0.5m; Sandstone 0.5m-2m; Great Coal Seam 2-4m; Sandstone/Mudstone 4-10m.

Van Elle used a 22t excavator with a mounted TEI drill mast in top hammer mode. This rig was used so it could be situated outside the potential shaft collapse zone and alleviate the requirement for a temporary works platform. Temporary Work Platforms were employed to enable the operatives to access the mast and change rods.

In Line with the coal authorities specification, Van Elle injected a 10:1 PFA:OPC pre-blended grout and pressurised holes to 2Bar to include permeation.

"Thanks for the works that the Van Elle's operatives undertook for AMCO at Ford Kinnaird. This was a very challenging project due to a demanding client, the railway environment, and goal posts changing on a daily basis, but we got there"

David Thompson, AMCO Project Manager

