

# Esh Winning

## Drilling and Grouting work to a housing development on an extensively worked coal seam in the North East

Aarsleff were working for Placefirst. The project was a housing development in the West of Durham. The site is located on an extensively worked coal seam where Aarsleff used their multi-discipline skills to overcome and efficiently carry out this work. Aarsleff's work took place over 8 weeks with around 390 drilling and grouting positions

### Challenges

One of the main challenges the team faced on site was its location on top of an extensively worked coal seam. Ground stabilisation is often a required technique in the North East where coal mining traditionally formed the main industry in the area. Before any foundations can be laid for the housing development Beal Homes are establishing, Aarsleff were contracted to perform drilling and grouting at 390 positions across the site in order to stabilise the ground to support further development. This site in particular had been extensively worked so extra attention was needed to ensure that the correct amount of positions were drilled and Aarsleff's extensive experience working in the North East, coupled with our experienced design team's tailor made solution, ensured that the solution installed was one our client could trust.

Aarsleff's Project Manager Jack Gardner who dealt with this project from start to completion, said "Another successful drilling and grouting project for Aarsleff, completed on programme in line with the client's expectations."

### Solution

Our In-house Drilling and Grouting team can remediate grounds that have been effected by long histories of coal mining.

Drilling is highly dependable on production and how quickly you treat them. The drilling process involves rotary percussive rigs, firstly installing casing seated into rockhead, then drilling to 1m below the base of the seam. Commencing at the lowest dip side, grout is injected through a flexible tube called a tremie from the bottom of the drilling hole to the surface.

Using Aarsleff's design team, the client was offered a cost-effective solution, delivered on time, within budget and avoided compromising on quality and performance.



**Scope of Works:**

390 drilling and grouting positions

**Construction period:**

8 weeks

**Contractor:**

Placefirst

**Equipment:**

Boart rig  
Klemm 806 Rig  
C6XP Rig



**Contact**

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