

Former Steelworks, Phase 1 Regeneration, Ebbw Vale.

Client: Blaenau Gwent County Borough Council
Engineer: Halcrow Group Limited
Value: £150k.
Date: October – December 2005

Description of Works:

The investigations were carried out to locate and validate the condition of 15 recorded mine shafts on the above site as part of the proposed regeneration of the Ebbw Vale Steel Works site in South Wales.

The work consists of;

- Setting out 15 no recorded mine entries (shafts)
- Excavation of trial pits up to 5m deep using long reach excavator for location of shafts in areas of shallow fill allowing an 8 – 10 m safety stand-off zone.
- Rotary probe drilling to locate shafts in areas of deep fill using rotary percussive track mounted drilling rig
- Fencing off located shafts and surveying exact coordinated positions
- Rotary drilling down located shafts to determine the nature and type of filling materials – up to 120m deep, including establishment and moving drilling safety platforms
- Down hole geophysical surveys to locate unrecorded shafts or other abnormalities using natural gamma, dual density (“Trisonde”) surveys (by European Geophysical Ltd)
- Down hole CCTV inspection of open or part filled shafts
- Gas monitoring during and following investigation
- Full geotechnical logging of boreholes, samples and testing
- Sampling and laboratory chemical testing of materials from trial pits to determine contamination levels of superficial deposits
- Production of factual reports

