

## Mineworking Stabilisation - Coseley

Former Use: Engineering Works  
Client: Bellway Homes Limited  
Value: £196,000  
Location: Upper Ettingshall Road, Coseley

Provectus had previously provided independent validation of the works that had been undertaken to ensure that appropriate certification was in place for the regulatory authorities to review.

Ground investigation boreholes put down by Provectus at the former engineering works confirmed the presence of shallow underground coal workings exhibited by broken ground, voids or loss of flush in rotary holes. The underlying thick coal was mined extensively by pillar and stall methods; this involves partial coal extraction and leaving “pillars” of coal for support which can be robbed on abandonment. Collapse of pillar and stall workings is inevitable and given the shallow depth of rock cover at the site, could pose a significant hazard to development. It was concluded that the workings in the Thick Coal seam needed to be stabilised to facilitate safe redevelopment.

Provectus were employed to implement a package of mine workings stabilisation works to facilitate safe redevelopment of the site.

Drill and grout stabilisation works were carried out within the underlying coal seam with appropriate supervision and certification for Coal Authority records and NHBC approval.



Bellway redeveloped the site for residential housing including 18 three and four bedroom detached/semi-detached houses.

Provectus also provided recommendations and designs for plot foundations comprising reinforced concrete rafts and incorporation of specific oil-gas mitigation measures for each plot.