

Allert Building and Construction
73 Park Street
Wombwell
Barnsley
S73 0HJ

AJK/47287/001

20 August 2022

For the attention of Mr D Allert

Dear Dave

Darley Avenue, Ward Green Barnsley
Coal Mining Risk Assessment

We write with regards to the above site to provide a coal mining risk assessment. This is based on a review of geological mapping and a Coal Authority mining report. It is proposed to develop the site for residential use.

The site is located to the north of Darley Avenue in Ward Green, Barnsley. It is approximately rectangular in shape, and is centred around grid reference 434680, 404570.

The site was previously occupied by residential properties. These were removed some years ago. The geology beneath the site is indicated to comprise undifferentiated mudstones of the Pennine Coal Measures series. No faults are shown to be present.

A seam of coal is conjectured to outcrop on the site, across the northern half, dipping northwards. This is the Top Beamshaw Coal, and is indicated to be thin.

The shallowest seam of coal below the site is expected to be the Low Beamshaw Coal, at around 10m depth. This is up to 0.61 m thick. If this seam has been worked in the past, it may influence the stability of surface developments.

The Kents Thin Coal is then expected, at around 25m below surface. This is between 0.6m and 1.2 m thick. The seam is sometimes worked, according to geological memoirs. However, at this depth, it is unlikely that surface instability will occur due to the collapse of any old workings.

Eastwood Consulting Engineers is a trading name of Eastwood and Partners (Consulting Engineers) Limited
Registered Office: St Andrew's House, 23 Kingfield Road, Sheffield, S11 9AS, Company No: 1835021, VAT Registration No: 738 2114 44

Directors: P Richardson BSc CEng MICE FISTructE / S R Ellis BEng CEng MISTructE MICE / C A Topliss BSc CEnv CSci CGeol SiLC MICE FGS
S J English BEng CEng MISTructE / A R Priest BEng / A G Marshall BEng CEng MISTructE

Technical Directors: A Allison BEng / M P Chappell BEng IEng AMISTructE / K Edwards MSc CGeol FGS / P A Harrison BEng CEng MISTructE
C Hodge EngTech MICE / A J Kerslake BEng FGS

Senior Associates: C A Wood BSc, CEng, MISTructE, MICE / M Dyson BSc CEng MISTructE

Associates/Principals: A M Cross MEng CEng MICE / A Lavelle MEng CEng MICE / R A Noble BSc FGS / C L Capes BSc FGS / R Wall BSc CGeol FGS

Consultants: S D Preston BEng CEng FICE FISTructE / K R Pursall BEng CEng MISTructE / S J Mitchell BSc MSc CEng MEI MCIBSE

The Coal Authority report states that the shallowest recorded mining beneath the site is within the Barnsley Coal at a depth of 122m below surface. The seam was 2.52m thick. The report also states that the site is within an area where unrecorded workings at shallow depth are likely. This is expected to refer to the Low Beamshaw and the Kent's Thin seams.

No mine entries are shown on site. A number of adits are indicated to the east of the site, however. No open cast workings are recorded to have taken place on the site.

Based on the reviewed information, the site may be at potential risk from shallow mine workings within the Low Beamshaw Coal.

Summary

It is recommended that a borehole investigation is undertaken to confirm the depth, thickness and condition of the Low Beamshaw Coal. The boreholes should extend to 30m depth, in order to intersect the Kents Thin Coal at the anticipated depth of 25m to confirm adequate cover to the seam.

Eastwood Consulting Engineers have been commissioned by the client to undertake the borehole surveys, and a Coal Authority permit to access the seams is currently pending decision. We will report formally on the findings of the drilling once the site works have been completed.

We trust that this will meet with your approval.

Yours sincerely



Andrew Kerslake
Technical Director

Enc: Consultants Mining Report

Copy: Mr K Leatham/Mr A Mackley



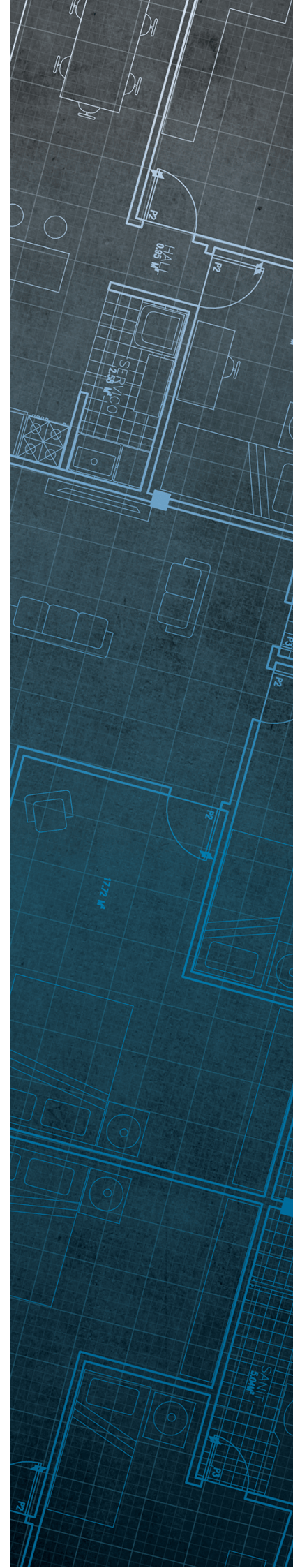
The Coal
Authority

Consultants Coal Mining Report

Darley Avenue
Ward Green
Barnsley
S70 6SL

Date of enquiry:	30 June 2022
Date enquiry received:	30 June 2022
Issue date:	30 June 2022

Our reference:	51003214623001
Your reference:	47287



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

EASTWOOD & PARTNERS (CONSULTING ENGINEERS) LTD

Enquiry address

Darley Avenue
Ward Green
Barnsley
S70 6SL

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



Reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2018. All rights reserved.

Ordnance Survey Licence number: 100020315

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	BARNSLEY	Coal	6Z86	122	Beneath Property	6.1	East	252	1875
BARROW	TOP FENTON	Coal	6Z8G	342	Beneath Property	6.1	East	107	1955
BARROW	TOP FENTON	Coal	6Z8F	343	South-East	6.0	East	96	1948
BARNSLEY	PARKGATE	Coal	6Z8K	350	South	5.5	East	109	1960
BARNSLEY	PARKGATE	Coal	6Z8L	359	Beneath Property	5.7	East	128	1960
BARROW	MIDDLETON MAIN	Coal	6Z8P	371	South	6.2	East	132	1935
BARROW	MIDDLETON MAIN	Coal	6Z8R	378	North	5.2	East	155	1969
BARROW	MIDDLETON MAIN	Coal	6Z8Q	382	Beneath Property	5.7	East	140	1938
BARNSLEY	SILKSTONE	Coal	6Z8W	440	North	5.3	East	200	1970
BARROW	SILKSTONE	Coal	6Z8V	444	Beneath Property	5.0	East	200	1924

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Adit	434404-005	434807 404563		Coal	
Adit	434404-013	434818 404550		Coal	
Adit	434404-016	434813 404561		Coal	
Adit	434404-017	434804 404570		Coal	
Adit	434404-018	434797 404568		Coal	
Shaft	434404-019	434807 404586		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

7911	FGB582	SY210
SY140	1676	SY206
NE1075	FGB160	SY177

Our records show we have more plans than those shown above which could affect the enquiry boundary.

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
BEAMSHAW TOP	Coal	Yes	Within	N/A	124

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

Please refer to the "Summary of findings" map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

There are 1 claim(s) within 50 metres of the property boundary that do not match the property address. These are shown on the enquiry boundary plot.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

If further subsidence damage claims information is required, please visit www.groundstability.com.

See Section 4 for further information.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Coal mining subsidence

The site is within an area of previous interest. It is close to where the Coal Authority or licensed mine operator has investigated and where necessary remediated issues relating to coal mining subsidence.

The site requires further investigation and may influence your risk assessment. We recommend that you order the appropriate **Coal Authority Subsidence Claims Report**, which will include more information about the hazard.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

