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# COAL MINING RISK ASSESSMENT REPORT

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# Report on a Coal Mining Risk Assessment

Location: **Land adjacent to 14 Windhill Drive**  
Staincross, Barnsley, South Yorkshire S75 5BL

For: Michael Holding

Consultants: Studio J Architects

Report No. C6018/26/E/9318

Report date: May 2026

For and on behalf of **Rogers Geotechnical Services Ltd**



**Rob Palmer** MSc FGS ACIEH  
Engineering Director



**Steven Hale** BSc FGS  
Geo-environmental Engineer

## 1. Introduction

It is understood that as part of the planning application at the site, a Coal Mining Risk Assessment has been requested by the planning authority. Consequently, a desktop study was commissioned in order to assess the risk to the development from coal mining. This report presents the findings of the study.

## 2. Geological Desk Study

The geological desk study has been undertaken using the following sources of information.

- British Geological Survey map sheet<sup>1</sup>.
- British Geological Survey *Onshore Geoindex*<sup>2</sup>.
- Coal Authority Consultants Coal Mining Report<sup>3</sup>.
- British Geological Survey *Borehole Records*<sup>4</sup>.

<sup>1</sup> Sources: British Geological Survey (NERC) Map Sheet 87; Barnsley Solid and Drift Editions

<sup>2</sup> Sources: British Geological Survey (NERC) Onshore Geoindex [online resource from [www.bgs.ac.uk](http://www.bgs.ac.uk)]

<sup>3</sup> Coal Authority Reference: 51003565674001 dated 20<sup>th</sup> April 2026.

<sup>4</sup> Sources: British Geological Survey (NERC) Borehole Records [online resource from <http://www.bgs.ac.uk/>]

## 2.1 British Geological Survey Maps and Viewer

The appropriate map sheet for the site and the geology viewer has been examined and the following table presents the indicated geology:

Table 1: Geological Data for the Site			
Strata Type	Strata Name <sup>5</sup>	Previous Name <sup>6</sup>	Description
Artificial Geology	Infilled Ground	-	Infilled Ground is an area where the pre-existing land surface has been excavated (Worked Ground) and subsequently partially or wholly backfilled (Made Ground). Composition: variable, e.g. a backfilled quarry, landfill, open-cast site.
Superficial Geology	-	-	None recorded.
Solid Geology	Pennine Middle Coal Measures Formation	Grey Measures Of Yorkshire And Nottingham	Interbedded grey mudstone, siltstone, pale grey sandstone and commonly coal seams, with a bed of mudstone containing marine fossils at the base, and several such marine fossil-bearing mudstones in the upper half of the unit.

On the geological map, there is one dip indicator relevant to the site (i.e. within 500m of the site or within the same fault block) that suggests the solid geology beneath the site dips between 3° and 5° to the north-east.

There are numerous coal seams that are shown to outcrop within the local area. These seams are summarised as follows:

Table 2: Summary of Coal Seams Within the Vicinity of the Site			
Seam Name	Seam Thickness <sup>5*</sup>	Outcrop Distance from Site <sup>5*</sup>	Anticipated Depth
Two-Foot Coal	0.7m	55m NE	Not anticipated to underlie the site.
Abdy Coal	1.1m	45m & 85m SW	Removed from site via open-cast methods or at surface
Stanley Main (Upper)	0.6m (two leaves of similar thickness)	170m SW	20m to 25m
Stanley Main (Lower)	0.9m	215m SW	25m to 30m

\*All distances are given as approximations. It is noted that coal seam thicknesses vary over relatively short distances

In light of the above and taking into account the regional structural geology and the topography of the area, the Stanley Main (Upper & Lower) is anticipated to be present at depths of less than 30m below the surface of the site.

As per Table 1 above, it is highlighted that the site is situated upon a deposit of infilled ground. The deposit is surrounded by the outcrop of the Abdy Coal. Thus, it is anticipated that this coal seam has been worked via open-cast methods within the immediate vicinity of the site. As such, the presence of made ground should be expected below the site surface.

<sup>5</sup> Sources: British Geological Survey (NERC) Map Sheets SE31SW 1:10000, and Onshore Geindex [online resource from [www.bgs.ac.uk](http://www.bgs.ac.uk)]

<sup>6</sup> Sources: British Geological Survey (NERC) Lexicon of Named Rock Units [online resource from [www.bgs.ac.uk](http://www.bgs.ac.uk)]

## 2.2 Coal Authority Mines Report

As part of this study a Coal Authority Consultants Coal Mining Report has been obtained. The report is presented as Appendix 2 and for the purposes of discussion has been summarised below:

**Table 3: Summary of the Consultant's Coal Mining Report**

Has the report highlighted evidence or potential of:			
Ref	Mining Feature	Yes/No	Comments
1	Underground Coal Mining	Yes	Stanley Main – 40m depth – North-east of site – 1.98m extraction thickness – last worked 1886. Barnsley – 134m depth – Beneath site – 3.14m extraction thickness – last worked 1869. Mining in a further 8 coal seams at depths of between 201m and 487m worked between the years 1933 to 1987.
2	Probable Unrecorded Shallow Workings	Yes	-
3	Spine Roadways at Shallow Depth	No	No spine roadway recorded at shallow depth.
4	Mine Entries	No	None recorded within 100m of the enquiry boundary.
5	Abandoned mine plans	Yes	Plans of abandoned mine workings below the site are suggested to be available by the Coal Authority.
6	Outcrops	No	No outcrops recorded.
7	Geological Faults	No	No faults, fissures or breaklines recorded.
8	Opencast Mines	Yes	Several recorded within and within the vicinity of the site boundary.
9	Coal Authority Managed Tips	No	None recorded within 500 metres of the enquiry boundary.
10	Site Investigations	No	None recorded within 50 metres of the enquiry boundary
11	Remediated Sites	No	None recorded within 50 metres of the enquiry boundary.
12	Coal Mining Subsidence	No	The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31st October 1994. 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.
13	Mine Gas	No	None recorded within 500 metres of the enquiry boundary.
14	Mine Water Treatment Schemes	No	None recorded within 500 metres of the enquiry boundary.
15	Future underground mining	No	The property is in an area where a notice to withdraw support was given in 1982. For further information please see section 3 of the Consultant's Coal Mining Report.
16	Coal mining licensing	No	
17	Court orders	No	
18	Section 46 notices	No	
19	Withdrawal of support notices	Yes	
20	Payments to owners of former copyhold land	No	

It should be noted that the recorded depth of workings within the Stanley Main is deeper than anticipated beneath the site itself. Indeed, this seam progressively gets deeper towards the north-east.

## 2.3 Geological Survey Borehole Records

The British Geological Survey (NERC) keeps borehole records from across Britain which are available for public viewing through their website<sup>7</sup>. As part of this study, the records in the area around the site have been reviewed in order to assist in establishing the geological conditions.

Unfortunately, in this instance, there are no borehole scans available within the vicinity of the site that will assist with this assessment.

## 3. Risk Assessment

The risk to the stability of the proposed residential development has been evaluated from the data obtained and with reference to the following ratings and definitions:

- Low - The possibility of instability is unlikely therefore no further action is necessary.
- Moderate - The possibility of instability is likely and further investigation or remedial action may be required.
- High - The possibility of instability is highly likely and further investigation or remedial action will be necessary.

**Table 4: Development Specific Risk Assessment**

Item	Risk attributed to	Coal Seam(s) Considered	Risk Rating
3.1	Shallow coal workings	Abdy Coal	Moderate
		Stanley Main Coal	Moderate
3.2	Coal workings at depth	Barnsley Coal	Low
3.3	Mine gas	Shallow coal workings	Moderate

### 3.1 Risks Posed by Shallow Coal Workings

On the basis of all of the information provided above, two coal seams are anticipated to be present within 30m of the surface at the site. Whilst these seams may be of limited thickness, the possibility of these seams being worked below the site cannot be ruled out. Historic coal mining activity is evident in the nearby area, and therefore it is considered that if coal was known to be close to ground level it could have been removed illicitly via shallow mining methods with relative ease.

It would appear in the first instance that the Abdy Coal has been removed within an unlicensed opencast site. Moreover, there is potential for the Stanley Main to have been removed via underground mining methods.

It may be noted that guidance available from both the NHBC and the CIRIA publication, SP32 - *construction over abandoned mine workings*, suggests that competent overburden thickness above a coal seam should be greater than 10 times the thickness of a seam plus seam thickness in order that the collapse of workings would pose a low risk to surface structures.

On this basis, assuming a maximum thickness of the coal seams, the table below suggests the thickness of competent overburden required above each seam to mitigate instability at the surface.

**Table 5: Required Thickness of Competent Overburden**

Seam Name	Seam Thickness	Anticipated Depth below Site	Required Thickness of Competent Overburden
Abdy Coal	1.1m	At surface or removed	12.1m
Stanley Main	1.98m (Two leaves)	20m to 30m	21.8m

Based on the above information, it is considered that there will not be a sufficient thickness of competent overburden above the named shallowed seams in order to prevent the risk of instability posed by the presence of any illicit workings. Therefore, a moderate risk rating has assigned to these seams, and further investigation is recommended to prove or disprove the presence of illicit mining activity. It should be noted that the nature of the opencast workings will also need to be assessed as part of any investigation.

### 3.2 Risks Posed by Coal Workings at Depth

In regard to deeper mining which could affect the site, the Coal Authority holds records that below the Stanley Main, the next recorded worked seam is the Barnsley Coal at a depth of 136m. Whilst this seam had an extraction thickness of 3.14m, it is considered that this is present at a significant depth, such that surface instability would be maintained if these workings were to collapse.

It is of note that a notice to withdraw support was given in 1982, but it is not highlighted within which seams this was applicable. There are recorded workings in numerous seams at depths in excess of 200m that were last mined prior to 1970; it is assumed the notice was applicable to these seams rather than the Barnsley Coal.

### 3.3 Risks Posed by Mine Gas

This assessment has identified that there is potential for shallow mine workings to be present beneath the proposed development. Whilst the Consultants Coal Mining Report has not reported any incidents of mine gas within the vicinity of the development, shallow mining activity represents a credible source of ground gas. As such, a moderate risk rating has been assigned, and further assessment may be required.

## 4. Conclusions

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In light of the potential risks of instability at the site from the working of shallow coal, it cannot be recommended that development takes place without further investigation to conclusively determine the presence of such workings. This work should include physical drilling methods to explore the ground conditions and to investigate both the presence/absence of surface and underground mine workings.

For underground workings, general practice is to undertake rotary openhole boreholes at two or three locations across the site to mitigate against the potential for drilling through intact columns associated with pillar and stall workings. Furthermore, it is normal to investigate the ground to 30m below ground level; any workings below this depth are unlikely to result in significant instability. In this instance however, the investigation will also need to include appropriate investigative methods for exploring the nature of the open-cast workings as this will enable appropriate foundation design to be undertaken. Moreover, if a significant thickness of fill is identified, then the boreholes may need to be extended beyond 30m in order to estimate whether appropriate competent overburden is present.

It may therefore be possible, in the first instance, to undertake one borehole to 30m below the top of the rockhead, with Standard Penetration Tests (SPTs) and/or dynamic probing within the soil profile above the rock. The remaining borehole(s) can then prove the depth and continuity of the coal seam(s). In any event, it is considered that approval should be sought with the Local Authority as to the efficacy of this approach.

It is of note that Rogers Geotechnical Services would be happy to assist in any further intrusive investigation that may be required.

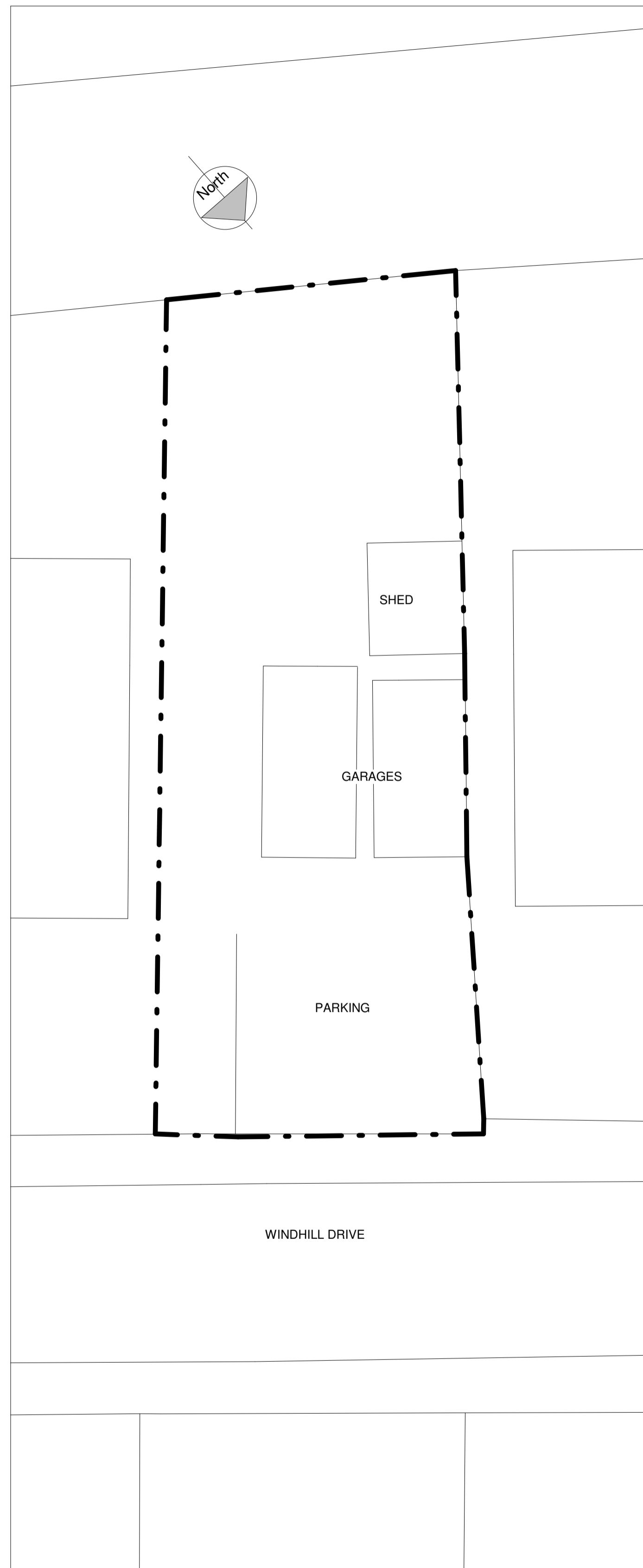


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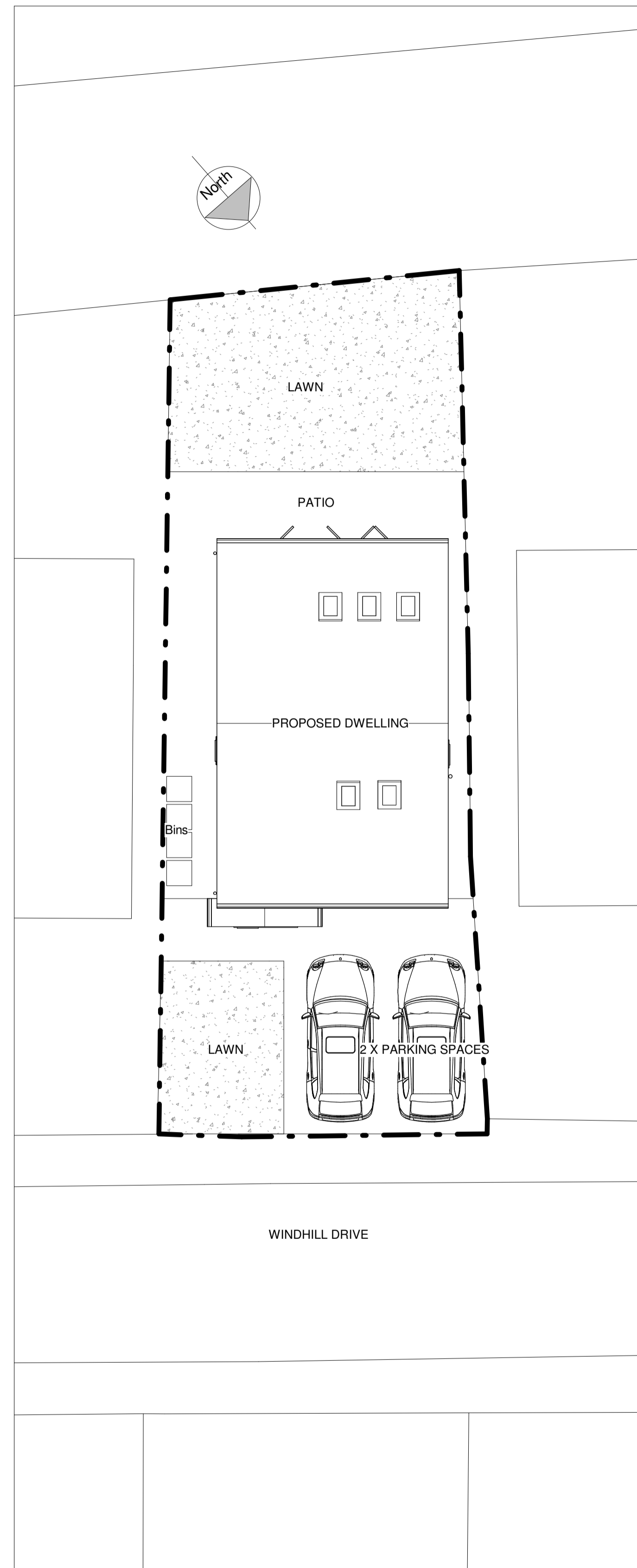
## Appendix 1

### Site Plan

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Existing Site Plan  
1 : 100

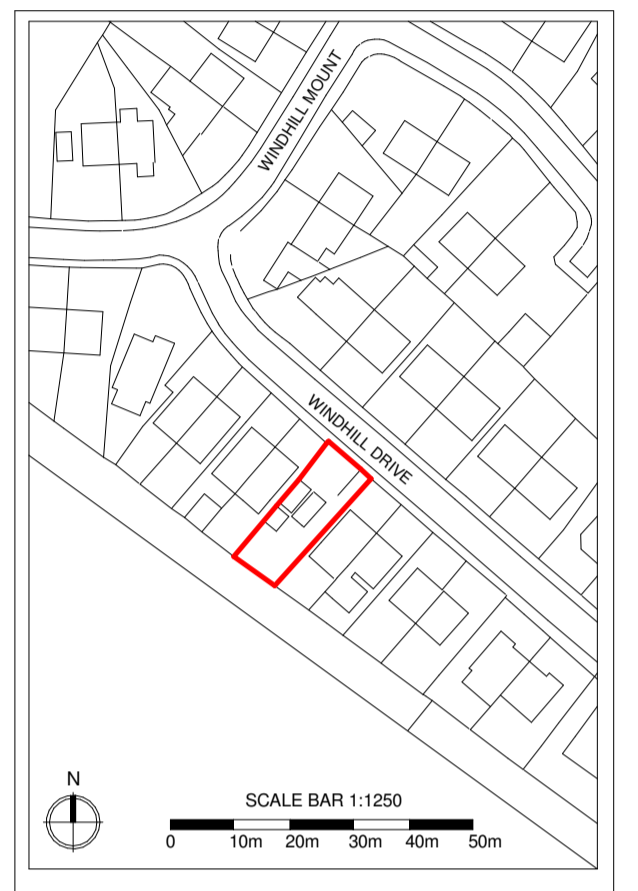


Proposed Site Plan  
1 : 100

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**NOTES**

PLEASE DO NOT SCALE DIRECTLY FROM THIS DRAWING  
MAIN CONTRACTOR TO CHECK ALL MEASUREMENTS ON SITE PRIOR TO CONSTRUCTION.  
THE SITE PLAN IS BASED ON THE INFORMATION PROVIDED VIA THE ORDINANCE SURVEY PLAN AND SUBJECT TO A DETAILED SITE SURVEY.  
THE LAYOUT OF THE GARDEN IS AN INDICATION ONLY. ALL MEASUREMENTS (POSITIONS OF WALLS, PATHS, MANHOLES) MUST BE CHECKED ON SITE AND NOT TAKEN FROM THIS DRAWING.  
STRUCTURAL ENGINEER TO PROVIDE ALL STRUCTURAL DETAIL DESIGN AND CALCULATIONS, WHERE REQUIRED.  
MAIN CONTRACTOR TO ENSURE ALL MECHANICAL AND ELECTRICAL SPECIFICATIONS ARE IN LINE WITH APPROVED DOCUMENTS PARTS B, L, F & P AND INSTALLED BY COMPETENT PERSONS.  
ALL NEW LIGHTING TO USE ENERGY EFFICIENT BULBS (WITH APPROPRIATE IP RATINGS FOR BATHROOMS & EXTERNAL USE).



Location Plan  
1 : 1250

**FOR DESIGN /  
PLANNING**

**PROJECT**

LAND ADJ 14 WINDHILL DRIVE

**DRAWING TITLE**

SITE PLANS

**DRAWING NO**

895 - 001 - REV -

**SCALE**

As indicated @ A1

**DRAWN BY**

T.B

**Date**

20.01.26

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# BGS Map Extract

C6018/26/E/9318

## Legend

 Hashed Area - Infilled Ground



Google Earth

Image © 2026 Vexcel Imaging US, Inc.

300 m



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## Appendix 2

# Coal Authority Report

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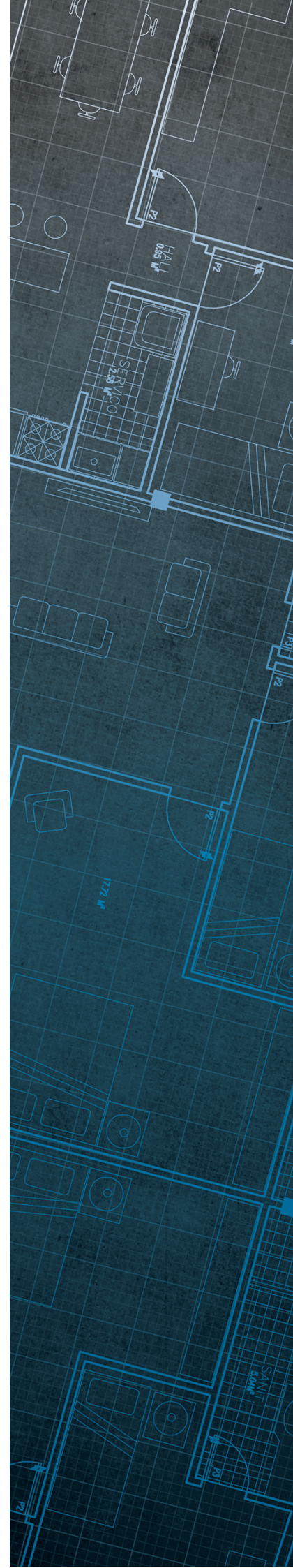
The Coal  
Authority

# Consultants Coal Mining Report

14 Windhill Drive  
Staincross  
Barnsley  
Barnsley  
S75 5BL

Date of enquiry: 20 April 2026  
Date enquiry received: 20 April 2026  
Issue date: 20 April 2026

Our reference: 51003565674001  
Your reference: C/6018/26/E/9318 - PO-  
3792



# 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

ROGERS GEOTECHNICAL SERVICES LTD

## Enquiry address

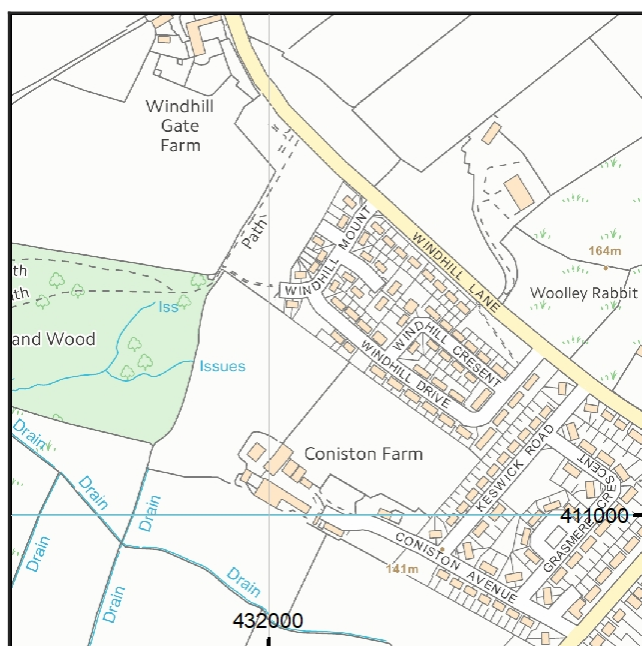
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Approximate position of property



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# 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	STANLEY MAIN	Coal	6YJ5	41	North-East	2.1	East	198	1886
unnamed	BARNSELY	Coal	6YTD	134	West	4.8	North-East	314	1870
unnamed	BARNSELY	Coal	6IF3	136	Beneath Property	3.4	North-East	314	1869
unnamed	TOP HAIGH MOOR	Coal	6YTH	201	West	4.8	North-East	102	1970
unnamed	TOP HAIGH MOOR	Coal	6IFD	204	Beneath Property	3.3	North-East	97	1970
unnamed	LOW HAIGH MOOR	Coal	6YTK	209	West	3.7	North-East	74	1960
unnamed	LOW HAIGH MOOR	Coal	6IF9	211	Beneath Property	3.1	North-East	97	1955
unnamed	LIDGETT	Coal	6J54	223	South	6.1	North-East	82	1951
unnamed	LIDGETT	Coal	6Y33	227	South	4.2	North	76	1951
unnamed	LIDGETT	Coal	6YTI	239	West	4.2	North-East	84	1954
unnamed	LIDGETT	Coal	6IFI	242	Beneath Property	3.6	North-East	80	1952
unnamed	FENTON	Coal	6Y53	325	South	5.0	North-East	206	1961
unnamed	FENTON	Coal	6J5C	330	South	7.1	North-East	205	1953
unnamed	LOW FENTON	Coal	6IFJ	349	Beneath Property	4.3	North-East	180	1960
unnamed	FENTON	Coal	6YTL	349	West	4.8	North-East	221	1960
unnamed	MIDDLETON MAIN	Coal	6Y3B	373	South	5.1	North-East	128	1975
unnamed	MIDDLETON MAIN	Coal	6J5O	375	South	7.8	North	145	1975
unnamed	MIDDLETON MAIN	Coal	6IFL	390	Beneath Property	4.3	North-East	107	1933
unnamed	WHEATLEY LIME	Coal	6Y24	393	South	5.8	North	79	1942
unnamed	WHEATLEY LIME	Coal	6J5N	397	South	6.8	North-East	91	1945
unnamed	WHEATLEY LIME	Coal	6YTN	413	West	4.9	North-East	86	1939
unnamed	WHEATLEY LIME	Coal	6IFM	414	Beneath Property	3.7	North-East	86	1941

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
WOOLLEY/REDBR OOK	WHINMOO R	Coal	Z02	487	South-East	3.2	East	136	1987

### Probable unrecorded shallow workings

Yes.

### Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

### Mine entries

None recorded within 100 metres of the enquiry boundary.

### Abandoned mine plan catalogue numbers

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

7649	NE868	GCR248
NE816	M33	NE158
PO0	NE695	NE996

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

For assistance in identifying the specific abandoned mine plans relevant to your requirements, **please contact us at [InformationManagers@MiningRemediation.gov.uk](mailto:InformationManagers@MiningRemediation.gov.uk)**.

### Outcrops

No outcrops recorded.

### 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

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

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.

### 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 in an area where a notice to withdraw support was given in 1982.

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.

### Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

**MINE GAS:** Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

### 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.

**For further information on specific site or ground investigations in relation to any issues raised in Section 4, please email us at [reports@miningremediation.gov.uk](mailto:reports@miningremediation.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 **email us at [reports@miningremediation.gov.uk](mailto:reports@miningremediation.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. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

### **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.

**Key**

- Approximate position of the enquiry boundary shown 
- Opencast mine licence area 
- Unlicensed opencast site 

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