



383 BURTON ROAD, MIDWAY

COAL MINING RISK ASSESSMENT
FOR
MR & MRS DRAYCOTT

Project Ref:
EAL.51.21

Date:
June 2021

Prepared for:
Mr & Mrs Draycott
383 Burton Road
Woodville
Swadlincote
DE11 7NA

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1.0 INTRODUCTION

This Desk Based Coal Mining Risk Assessment (CMRA) relates to a proposed re-development of the site known as *383 Burton Road, Midway* – see **Figure 1** in **Appendix A**.

The CMRA has been prepared to provide information on the following:

- Present a desk-based review of all available information on the coal mining issues that are relevant to the application site.
- Use that information to identify and assess the risks to the proposed development from coal mining legacy, including the cumulative impact of issues.
- Set out appropriate mitigation measures to address the coal mining legacy issues affecting the site, including any necessary remedial works and/or demonstrate how coal mining issues have influenced the proposed development.
- Demonstrate to the Local Planning Authority that the application site is, or can be made, safe and stable to meet the requirements of national planning policy with regard to development on unstable land.

It is understood that an existing garage will be converted into a detached single bedroom dwelling with associated private garden. It is understood that as part of the proposed conversion, two small (approximately 3m by 5m) extensions will be constructed. A proposed development plan is included in **Appendix A**.

2.0 SITE LOCATION AND DESCRIPTION

The site is located approximately 1.0km to the north-east of Swadlincote town centre and situated within a predominantly residential area. The site presently comprises an existing small residential garage and part of a larger private residential garden associated with No 383 Burton Road.

Plans showing the site location and site boundary are included in **Appendix A**.

A brief review of historical mapping shows that, in 1881, the site formed part of a larger agricultural field. The site later became part of a larger private residential garden associated with No 383, sometime before the 1960's. It is understood that the existing garage was constructed sometime after 1985.

The closest recorded historic mineral extraction appears to be an opencast clay pit located some 90m to the south-west. No significant historic colliery sites are recorded in close proximity to the site.

3.0 SOURCES OF INFORMATION

Information from the following sources has been used to undertake this CMRA;

- Coal Authority Interactive Mapping Website;
- Coal Authority Consultants Coal Mining Report (Ref: 51002538874001, June 2021) – **Appendix B**;
- BGS Bedrock and Superficial Map 1:10,000 scale Sheet SK 32 SW;
- BGS Digital Geological Mapping.

4.0 FACTUAL INFORMATION

4.1 Coal Authority Interactive Mapping Website

Reference to the Coal Authority Interactive Mapping Web Site (accessed 18th June 2021) shows:

- The site is situated on the edge of an area designated “High Development Risk”, therefore, a coal mining risk assessment is required.
- The site is **not** within an area where recorded underground extraction has taken place.
- The site is within an area at risk from ‘probable unrecorded shallow coal mine workings’.
- The site is **not** within an area at risk from unlicensed opencast extraction.
- There are no recorded outcrops of coal in close proximity to the site.
- There are no recorded mine entries in close proximity to the site.

4.2 Coal Authority Consultants Coal Mining Report

The Coal Authority Consultants Coal Mining Report obtained for the site is contained in **Appendix B**. The salient findings are detailed below:

Past Underground Coal Mining – No past underground mining is recorded beneath the property.

Probable Unrecorded Shallow Workings – The report confirms that the site is within an area where probable shallow workings (less than 30m depth) may exist beneath the property.

Spine Roadways at Shallow Depth – There are no recorded spine roadways either within, or within 10 metres of the site boundary at shallow depth.

Mine Entries – There are no recorded mine entries within 100m of the site.

Abandoned Mine Catalogue – There are no abandoned mine catalogue numbers that relate to the site.

Outcrops – There are no coal outcrops recorded within 50m of the site.

Geological Faults, Fissures and Breaklines – No faults, fissures or breaklines are recorded to intersect the site.

Opencast Extraction – The site is not recorded to be within, or in near vicinity to, a former opencast extraction area.

Coal Authority Managed Tips – There are no Coal Authority Managed Tips within 500m of the site boundary.

Site Investigations and Remediated Sites – There are no previous site investigations or remediated sites with regard to coal mining that are located within 50m of the site.

Subsidence – The Coal Authority report confirms that they have not received a damage notice or claim for the site or any other property within 50m since 31st October 1994.

No requests have been made to execute preventative works under Section 33 of the Coal Mining Subsidence Act 1991.

Mine Gas – No mine gas emissions have been recorded within 500m of the site.

Mine Water Treatment Schemes – There are no mine water treatment schemes within 500m of the site boundary.

Future – The site is not within a geographical area, for which a licence to extract coal by underground methods is awaiting determination or has been granted by the CA.

The site is not within an area where notice under Section 46 has been given, stating that the land is at risk of subsidence.

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

4.3 BGS 1:10,000 Scale Sheet SK 32 SW

Geological information obtained from the British Geological Survey indicates that:

- The bedrock geology comprises the Pennine Lower Coal Measures.
- Made ground and superficial deposits are not indicated to be present on the site.
- The solid geology is indicated as dipping 8° to the south-west.
- The Clod coal is conjectured to outcrop approximately 470m to the north-east of the site and is recorded to be 0.50m thick.
- The Well, Stanhope and Joyce's seams are all anticipated to subcrop to the north-east somewhere between the site and the outcrop of the Clod coal. The Well and Joyce's seams are recorded as being 'thin'. The Stanhope seam is recorded to be up to 1.50m in thickness.
- Based on the generalised vertical scale, the Eureka, Stockings and Woodfield coal seams may underlie the site at shallow depth also. However, these seams are not inferred to outcrop to the north-east of the site. Therefore, it is also possible that these seams may not be present.
- The Blackfordby Fault, which trends north-west to south-east is recorded immediately to the north to the site.

5.0 INTERPRETATION

Based on all of the above information, the following conclusions have been formed:

The Clod coal is anticipated to underlie the site at 66.00mbgl at its shallowest.

Based on the generalised vertical scale, the Well coal, Stanhope coal and Joyce's coal are anticipated to underlie the site at 53.00m, 41.00m and 38.00mbgl, respectively.

The Well and Joyce's seams are recorded as being 'thin' and it is considered that these are will not have been of any significant economic importance. Therefore, it is unlikely that these seams will have been worked in the past. It is considered that there will be sufficient rock cover above the Clod and Stanhope coal seams in order to not pose a risk to future surface stability of the site.

Based on the generalised vertical scale, the Eureka, Stockings and Woodfield coal seams may also underlie the site. These seams could be present at depths of 32.00m, 24.00m and 13.00mbgl, respectively, however, they are not indicated to outcrop to the north-east of the site. Therefore, they may not be present and the risk of workings in these seams is lowered.

Furthermore, the Blackfordby fault is recorded immediately adjacent the northern boundary of the site. It is considered that the presence of the fault will have disturbed the coal in close proximity to it making them less economic to work. Therefore, it is less likely that these will have been extracted if they are present.

Furthermore, the proposed redevelopment comprises the conversion of an existing garage building. Although the work includes the construction of two small scale extensions, it is not considered that significant earthworks will be required again reducing the risk to the proposed property.

No other risks with regard to coal mining legacy have been identified.

6.0 RISK ASSESSMENT

The table below summarises the potential risks associated with mining legacy for the proposed development site, identified from the sources identified above.

Coal Mining Issue	Yes / No	Risk Assessment
Underground mining (recorded at shallow depths)	No	No significant risk identified.
Underground mining (unrecorded probable at shallow depths)	Yes	Low – risk is further reduced due to the scale and nature of the development.
Recorded Mine entries (shafts and adits)	No	No significant risk identified.
Unrecorded Mine entries (shafts and adits)	No	No significant risk anticipated.
Record of past coal mine gas emissions	No	Negligible
Surface mining (opencast workings)	No	Negligible
Spontaneous Combustion in shallow seams	No	Negligible

7.0 MITIGATION STRATEGY

There is a low risk of potential unrecorded mine workings in the Eureka, Stockings and Woodfield seams at shallow depth beneath the site. However, these are not recorded to outcrop to the north-east of the site, therefore, they may potentially not be present. Furthermore, the risk of mine workings is reduced due to the presence of the Blackfordby Fault in close proximity of the site. It is considered that this feature will have caused disturbance to the surrounding coal seams, making them uneconomic to work. Finally, significant ground works associated with the proposed conversion are not anticipated. Due to the small scale of the development, the risk of future instability is considered to be within acceptable levels and no further investigation is required.

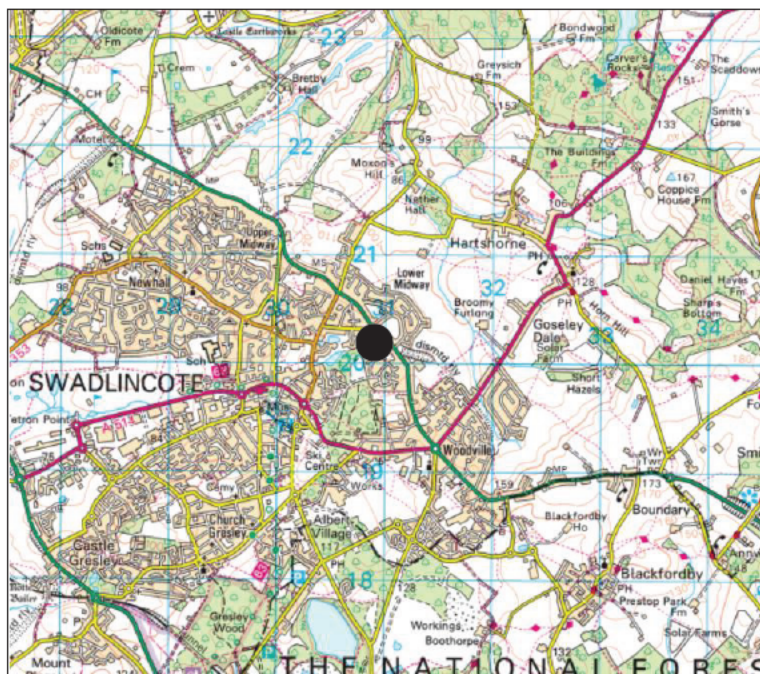
No other significant risks in relation to coal mining legacy issues have been identified.

8.0 CONCLUSION

This risk assessment has not identified a significant risk of potential coal mining legacy issues with consideration to the nature and scale of the proposed redevelopment. Therefore, further investigation, such as probe drilling, is not considered to be required.

Appendix A

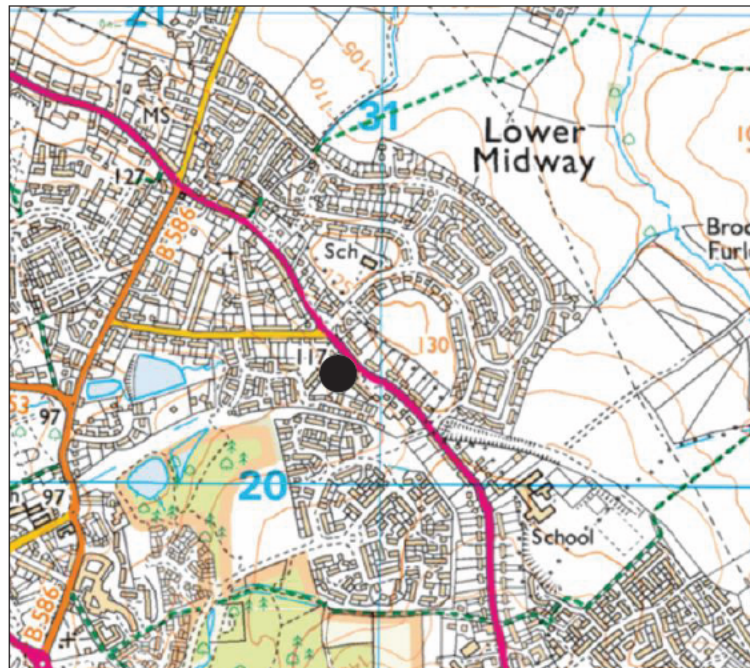




KEY:

● Approximate Site Location

DO NOT SCALE



TITLE:

Site Location Plan

PROJECT:

383 Burton Road, Midway

PROJECT No:

EAL.51.21

DATE:

06/2021

SCALE:

NTS

DRAWN:

PD

DWG No:

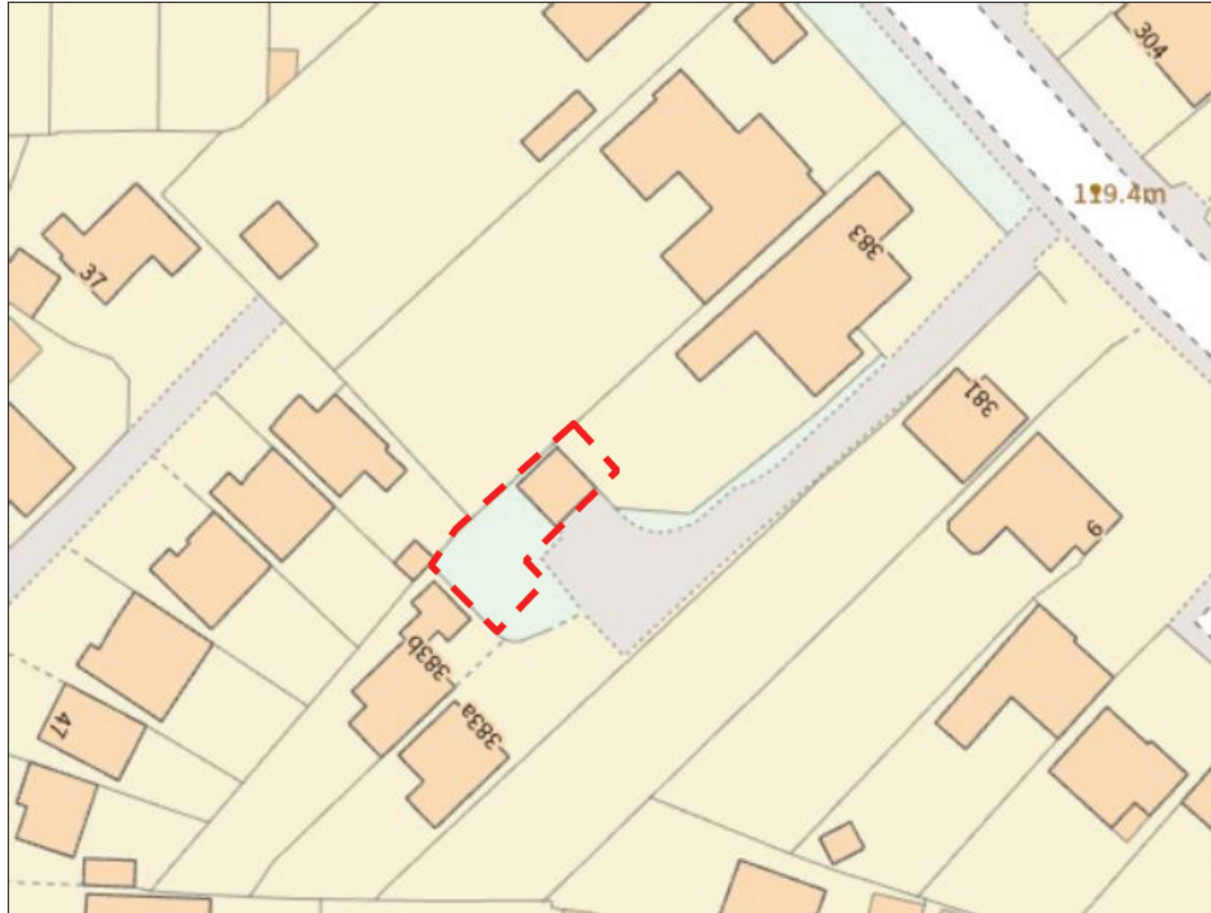
Figure 1



KEY:



Site Boundary



DO NOT SCALE



TITLE:

Site Layout

PROJECT:

383 Burton Road, Midway

PROJECT No:

EAL.51.21

DATE:

06/2021

SCALE:

NTS

DRAWN:

PD

DWG No:

Figure 2



PROJECT:

PROJECT No:

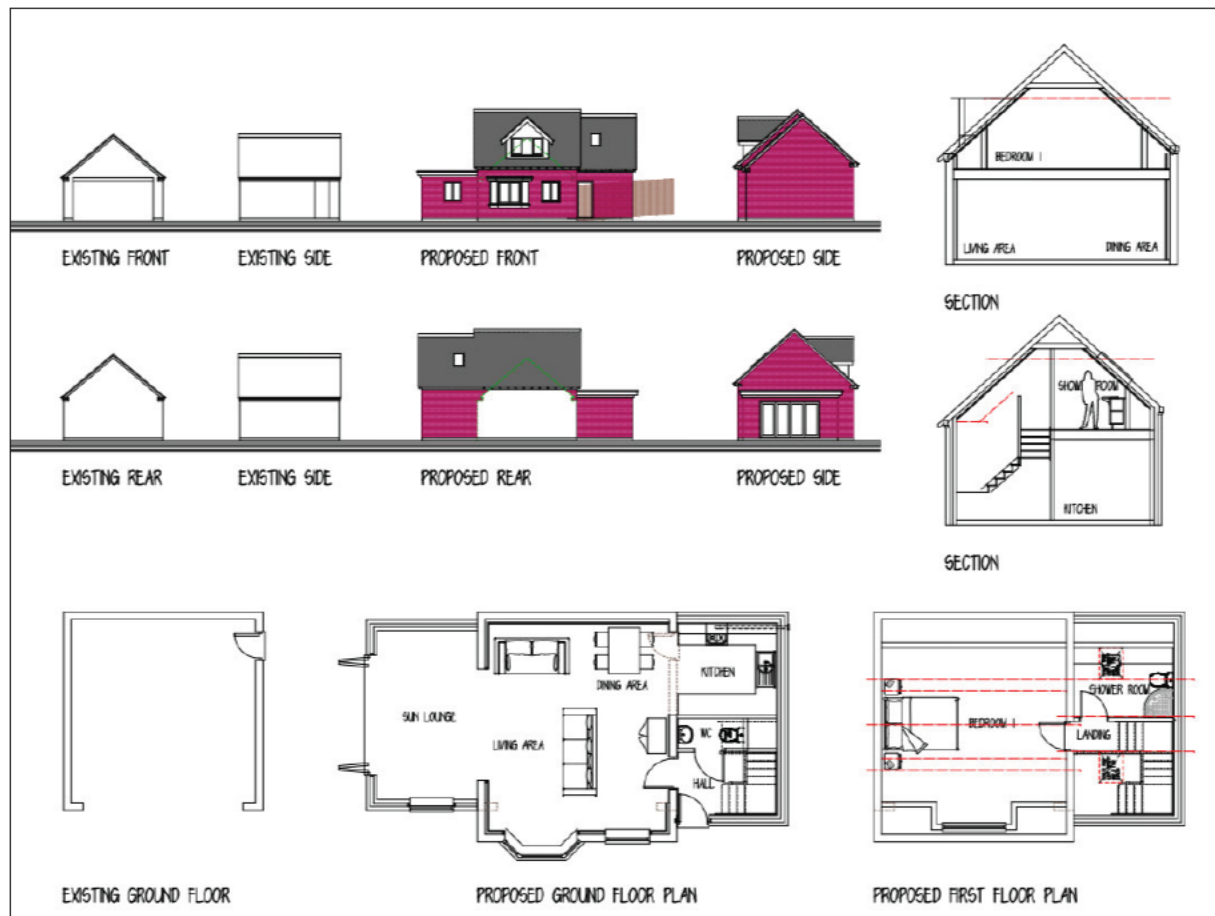
DATE: _____

SCALE :

DRAWN :

DWG No:

Figure 3A



KEY:

DO NOT SCALE



TITLE:			Development Proposal
PROJECT:			383 Burton Road, Midway
PROJECT No:	EAL.51.21	DATE:	06/2021
SCALE :	NTS	DRAWN :	PD
		DWG No:	Figure 3B

Appendix B





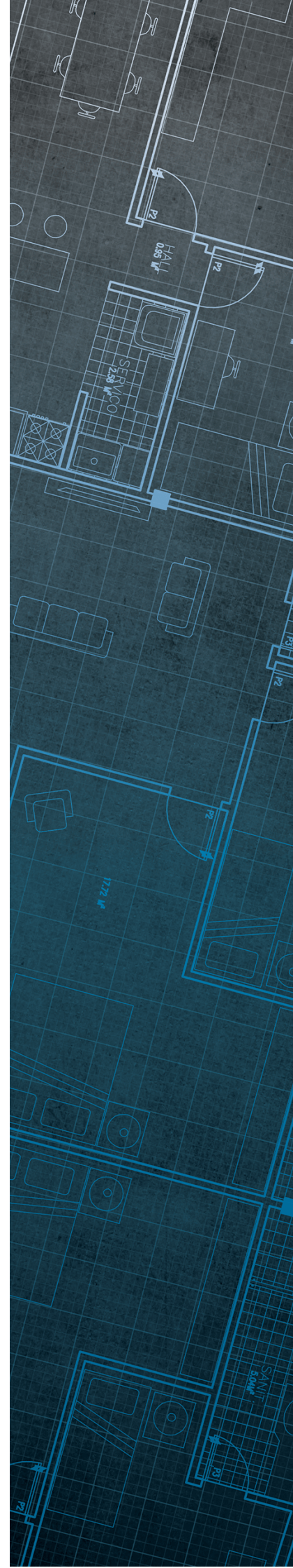
The Coal
Authority

Consultants Coal Mining Report

383 Burton Road
Midway
Swadlincote
Derbyshire
DE11 7NA

Date of enquiry:	11 June 2021
Date enquiry received:	11 June 2021
Issue date:	11 June 2021

Our reference:	51002538874001
Your reference:	EAL.51.21



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.

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Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

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

None available.

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 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

Based on the responses in this report, no further information has been highlighted.

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.

Key

Approximate position of the enquiry boundary shown 

Unlicensed opencast site 

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