



Coal Mining Risk Assessment

Project: Heckmondwike Road,
Dewsbury

Client: LGS Construction Ltd

Reference: B21787-JNP-XX-XX-RP-G-1002

Date: July 2020

DOCUMENT CONTROL SHEET

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FOR AND ON BEHALF OF JNP GROUP

Date: July 2020

Document Issue Record

Rev	Date	Description	Prepared	Checked	Approved
P01	13.07.2020	First Issue	SLL	DRS	DRS

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1 INTRODUCTION

- 1.1.1 JNP Group were instructed by Jim Grainger to undertake a Coal Mining Risk Assessment on behalf of LGS Construction Ltd to support a planning application for the construction of six semi-detached residential dwellings on Heckmondwike Road, (land adjacent to No. 143), Dewsbury, WF13 3NS (hereinafter referred to as 'the site'). The site location and proposed development are shown in Appendix A. Any comments given are based on the understanding that the proposed redevelopment will be as described.
- 1.1.2 This report is confidential and has been prepared solely for the benefit of the client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from Jnpgroup; a charge may be levied against such approval. Jnpgroup accepts no responsibility or liability for the consequences of this document being used for any purpose or project other than for which it was commissioned, and this document to any third party with whom an agreement has not been executed.
- 1.1.3 This report has been prepared following information gathered up to the 10th July 2020. Jnpgroup warrants the accuracy of this report up to and including that date. Additional information, improved practices or changes in legislation may necessitate this report having to be reviewed in whole or in part after that date. If necessary, this report should be referred back to Jnpgroup for re-assessment and, if necessary, re-appraisal.
- 1.1.4 The scope of the works is based on a desk study.

1.2 Site Location and Description

- 1.2.1 The site is located about 1.7km to the west of Dewsbury town centre at approximate national grid reference 422685 422091.
- 1.2.2 From Google Earth, there was a property at 90° to Heckmondwike Road, in the southern part of the site. This appears to have been recently demolished. There was also a dilapidated garage in the west of this area. The status of this is unknown. There was an area of hardstanding in the centre of the site. The remainder of the site was covered in vegetation. The approximate extent of the site is shown on the google earth extract below.
- 1.2.3 Topographical information about the site has been obtained from LiDAR data and a topographical survey of the site outlined in red (Appendix B). The site generally slopes down from east to west. The topography of the site has been affected earthworks; the garden area to the existing property in the south of the area is at an elevation of 67.1m to 68.4m above Ordnance Datum (aOD). Land to the north seems to have been excavated to an elevation of about 65m aOD with a small area of spoil in the northwest corner at about 65.7m aOD.

Figure 1 – Approximate extent of site



1.3 Scope of Coal Mining Risk Assessment

1.3.1 The purpose of this Coal Mining Risk Assessment Report is to:

- Present a desk-based review of all available information on the coal mining issues which 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; and
- 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.

1.4 Sources of Information

1.4.1 The following sources of information have been obtained upon which the risk assessment of coal mining issues has been based. Reports/extracts are appended where relevant.

- An up-to-date Consultants Coal Mining Report (Appendix C).

- Mining data obtained from the Coal Authority online interactive viewer. <http://mapapps2.bgs.ac.uk/coalauthority/home.html>.
- Geological information obtained from the British Geological Survey including GeoIndex (<http://mapapps2.bgs.ac.uk/geoindex/home.html>), & the solid and drift edition 1:50,000 geological map 77 (Huddersfield).
- Previous CMRA report JNP Group reference B21787 CMRA 2017.

2 SUMMARY OF FINDINGS

- 2.1.1 Examination of the BGS data shows that there are no superficial deposits recorded beneath the site. The bedrock geology beneath the site comprises the Pennine Lower Coal Measures. This is described by the BGS as *'Interbedded grey mudstone, siltstone and pale grey sandstone, commonly with mudstones containing marine fossils in the lower part, and more numerous and thicker coal seams in the upper part.'* The eastern higher part of the site is underlain by an un-named sandstone bed with two coal seams outcropping downhill to the west.

Figure 2 – Bedrock Geology



- 2.1.2 A southeast-northwest trending conjectured fault is located about 50m to the northeast of the site. The 1:50,000 geological map of the area does not show the dip of the strata close to the site. In the local area, the strata generally dip at a few degrees to the southeast.
- 2.1.3 The upper coal shown to the west of the site is the Middleton Main Coal, which the 1:50,000 map indicates varies between 0.2m and 1.8m thickness in the area. The outcrop is at an elevation of about 60.5m aOD.
- 2.1.4 The legend of the geological map indicates that beneath the Middleton Main Coal is a sandstone, the Wheatley Lime Coal, the Middleton Eleven Yards Coal, the Falhouse Rock, the Blocking Rider Coal and the Blocking Coal.

2.1.5 There are several boreholes approximately 100m to the north-west of the site but these are all confidential. There is one borehole record 170m to the south-west of the site but this does not contain any lithological data. The borehole is indicated to be an abstraction well about 27m deep.

2.1.6 The anticipated depth to the coal seams are listed in Table 1.

Table 1 – Anticipated Depth to Coal from Map 77

Seam (youngest to oldest)	Depth at proposed property (including for change in site elevation) (m)	Thickness (m)
Middleton Main Coal	5 - 10	0.2 - 1.8
Wheatley Lime Coal	12	0.4 – 1.2
Middleton 11 Yards Coal	18	0 – 1.1
Blocking Rider Coal	27	0 – 0.2
Blocking Coal	30	0.2 – 1.7

2.1.7 Based on the above it is anticipated that the Middleton Main Coal will be encountered beneath the proposed property at an approximate depth of 5 - 10m. The next seam beneath is the Wheatley Lime Coal is anticipated to be at 12m beneath the site with the Middleton 11 Yards Coal at 18m bgl.

2.1.8 Further to a review of the geological information a Consultants Coal Mining Report was obtained from the Coal Authority for the site which is included in Appendix C.

2.1.9 The report indicates that the site is within an area affected by past underground mining. Workings are recorded to have taken place within the Silkstone Coal at a depth of 73m beneath the property. The angle of dip is shown to be 3.3 degrees to the east with an extraction thickness of 0.61m. Beneath this, the Black Bed Coal was noted at 173m beneath the site and the Better Bed Coal at 213m.

2.1.10 The report goes on to state that the site is probably affected by unrecorded shallow workings.

2.1.11 The report further shows that three mine shafts referenced 422422 – 003 and 004, and 422422 - 016 are located within 100m of the site (see Figure 3 and complete map in Appendix C). The former two, which are closest to the site, were both exposed by developers in 1990 and found to be filled with colliery spoil. The accuracy of these plans is up to 20m but as the shafts are noted as having been uncovered, their location can be assumed to be accurate. The third shaft is in excess of 20m from the site.

Figure 3 – Extract of Coal Authority Report Showing Shaft Locations



- 2.1.12 There is no further pertinent information provided within the Coal Authority Report.
- 2.1.13 A coal mining report was obtained for the previous CMRA completed for the site in 2017. This provided a slightly different interpretation of the underlying coal geology, with the Blocking Coal at 30m depth, the Black Bed Coal at 139m and the Better Bed Coal at 171m bgl.

3 INTERPRETATION

3.1.1 Two potential risks have been identified at the site as follows.

3.2 Historical Coal Mining

3.2.1 Information about coal seams beneath the site and which seams have been worked has been collated from three sources: geological maps, a Coal Authority Report (July 2020) and a Coal Search Plus Report (2017). Information from the latter two is somewhat contradictory so all information has been collated and is shown in Table 2.

Table 2 – Anticipated Depth to Coal from Map 77, Coal Authority Report and Coal Search Plus Report

Seam (youngest to oldest)	Depth (and thickness) at proposed property (including for change in site elevation) (m)		
	Geology Map 77	CA Report July 2020	Coal Search Plus Report (2017)
Middleton Main Coal	5 - 10 (0.2 - 1.8)	-	-
Wheatley Lime Coal	12 (0.4 - 1.2)	-	-
Middleton 11 Yards Coal	18 (0 - 1.1)	-	-
Blocking Rider Coal	27 (0 - 0.2)	-	-
Blocking Coal	30 (0.2 - 1.7)	-	30 (0.9)
Numerous thin coals including: Top Lousey Coal Trub Coal Lonfit Lousey Coal Shertcliffe Coal Winmoor Coal 32 Yard Coal 22 Yard Coal Crow Coal	Depth not determined, max. thickness 1.3	-	-
Silkstone	Not shown on log	73 (0.61)	-
Black Bed Coal	Depth not determined, max. thickness 1.8	173 - 182 (0.74)	139 (0.56)
Better Bed Band Coal	Depth not determined, max. thickness 0.1	-	-
Better Bed Coal	Depth not determined, max. thickness 0.9	213 - 214 (0.38)	171 (0.5)

– Not worked

3.2.3 Mining risks are potentially from seams which are noted as having been commercially worked by the Coal Authority and from unrecorded shallow workings. Beneath the site, a number of seams have been commercially worked from 30m bgl or deeper. The thickness of these are thin so the seam thickness to rock cover ratio is in excess of 10 times and the seams do not pose a risk of collapse at the surface.

3.2.4 There are a number of more shallow seams which are sufficiently thick to contain unrecorded shallow workings. Given their thickness, the seam thickness to rock cover ratio is less than 10 times and the seams do pose a risk of collapse at the surface.

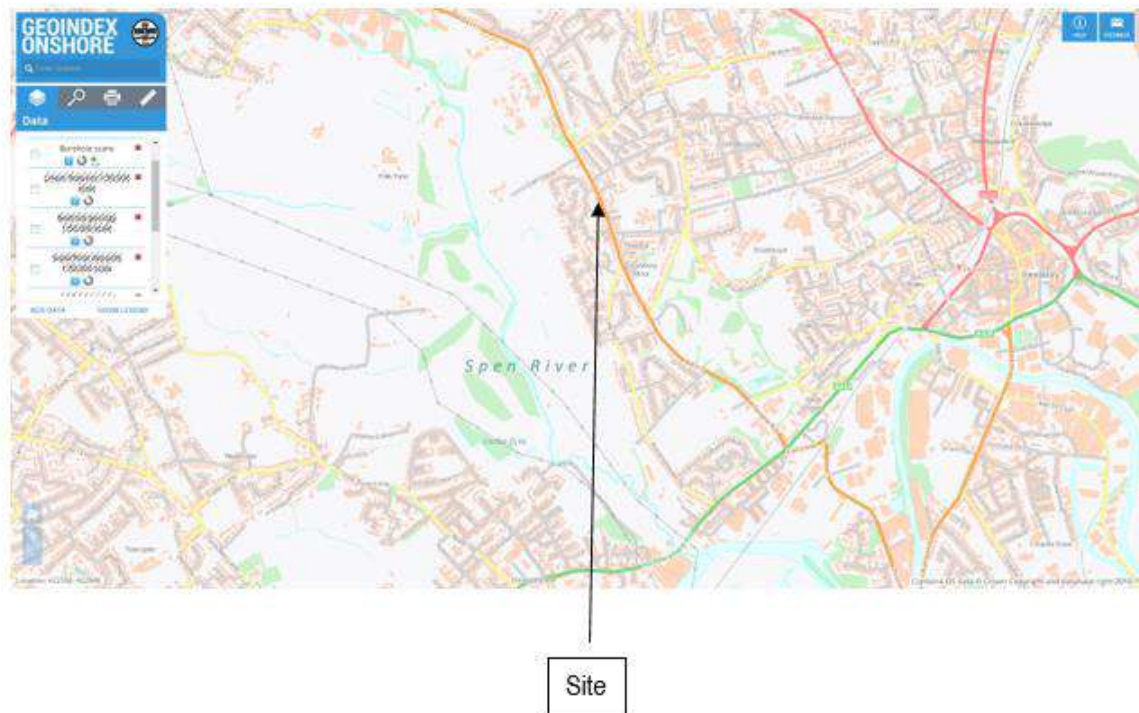
3.3 Shafts

3.3.1 Two shafts are located close to the site. Generally, the location of a shaft is accurate to 20m and should be investigated further if this impinges on the site. However, the two shafts are noted to have been exposed in 1990 and so the location is accurate and off-site. These therefore do not pose a risk to the proposed development.

4 CONCLUSION

- 4.1.1 Following a review of the geological plans, the Coal Authority Report and a Coal Search Plus report, there are a number of seams of workable thickness beneath the site which have been worked commercially or may contain shallow unrecorded shallow workings .
- 4.1.2 Middleton Main Coal may have been worked beneath the site with any workings anticipated at a depth of 5 - 10m. Given that the seam has an estimated thickness of 0.2m to 1.8m, a seam thickness to rock cover in excess of 10 times is not anticipated to be present if the seam has been worked.
- 4.1.3 The Wheatley Lime Main Coal, Middleton 11 Yards Coal, Blocking Rider and Blocking Coal may also have been worked beneath the site all with a multiple seam affect to potentially have voids that would propagate to the surface.
- 4.1.4 The deeper coal seams beneath these which have been worked by the Coal Authority are not currently assessed as posing a risk to the site.
- 4.1.5 Based on the above, it is recommended to drill 3 no. boreholes close or within the footprint of the proposed houses, all extending to a minimum of 30 - 40m bgl to determine the potential depths, thicknesses and worked nature of the coal seams beneath the site. The boreholes should be supervised by a suitably qualified engineer on site in relation to the multiple seam affect.
- 4.1.6 Mine shafts identified on the Coal Authority Plan are shown to be situated off site to the west of the site and are not considered to pose a risk to the development.

APPENDIX A: SITE LOCATION AND PROPOSED DEVELOPMENT



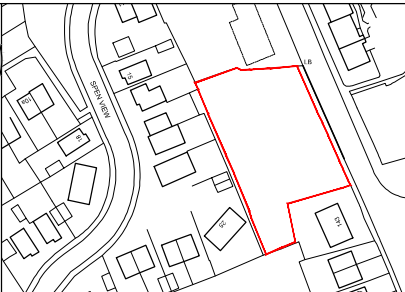
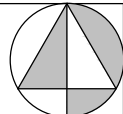


Drawings based on Ordnance Survey (Streetwise License No 100047474) and preliminary survey – design and drawing content subject to further Site Surveys, Structural Survey, Site Investigations, Planning and Statutory Requirements and Approvals.

Heckmondwike Road

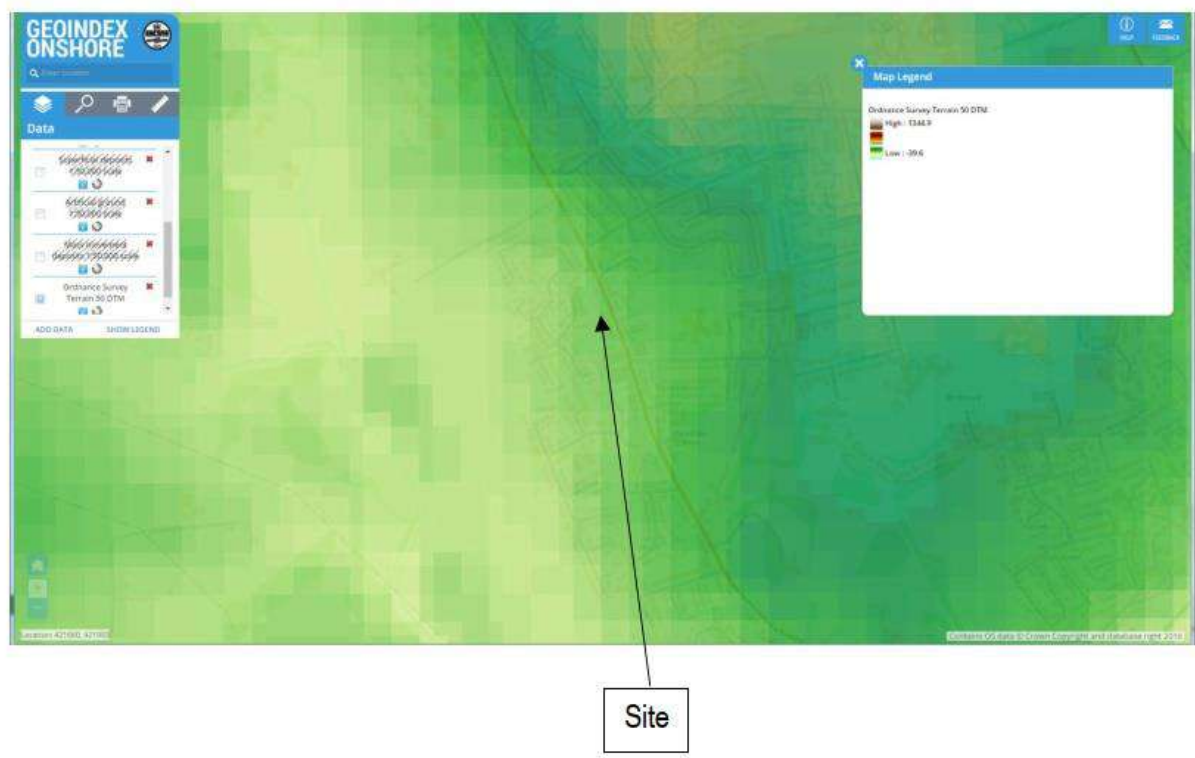
Rev.	Des.	Date

0 1 2 3 4 5m
Scale 1:100



Project: Proposed residential development of 6 dwellings at Heckmondwike Road
Client: LGS Construction, 4A Tateley Lane, Gawthorpe, Ossett WF5 9RG
Dwg Title: (20806)1_Site Plan
Scale: 1:100 @ A1
Date: May 20

APPENDIX B: TOPOGRAPHICAL SURVEYS





Drawings based on Ordnance Survey (Streetwise License No 100047474)

Scale 1: 200

Architecture and Design
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Huddersfield, West Yorkshire
HD9 4HW
T: 01484 771110
info@gj-td.co.uk
www.gj-td.co.uk

Project	Residential Development at Heckmondwike Road, Dewsbury
Client	Brown and Couldwell
Dwg Title	Sketch proposal
Scale	1:500 @ A3
Date	Apr 17

APPENDIX C: COAL AUTHORITY REPORT.



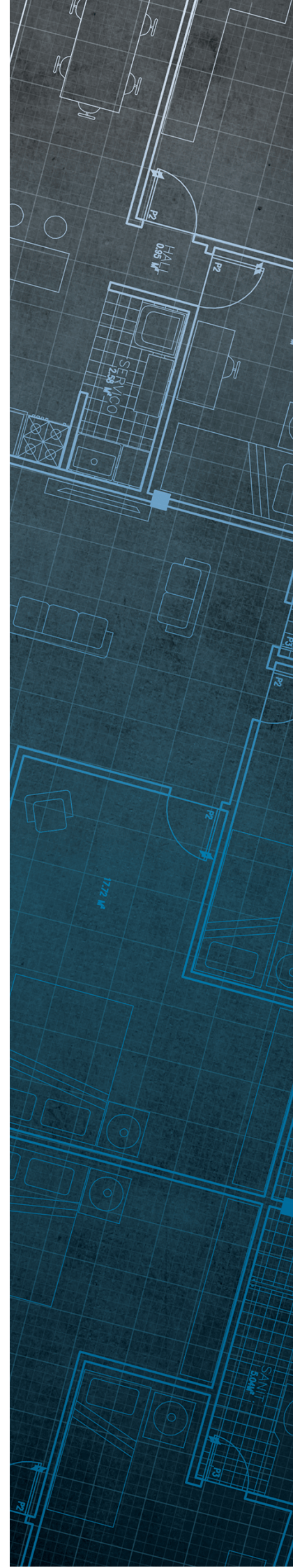
The Coal
Authority

Consultants Coal Mining Report

Heckmondwike Road
Dewsbury Moor
Dewsbury
West Yorkshire
WF13 3NS

Date of enquiry:	9 July 2020
Date enquiry received:	9 July 2020
Issue date:	9 July 2020

Our reference:	51002280277001
Your reference:	247542780_1



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

NLIS Hub

Enquiry address

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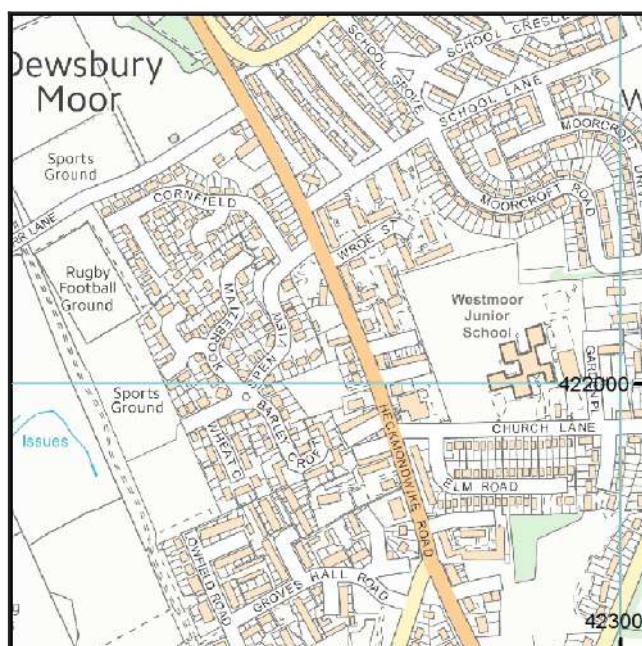
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



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	SILKSTONE	Coal	62MV	65	South	3.3	East	61	1878
unnamed	SILKSTONE	Coal	6HPY	73	Beneath Property	6.1	East	61	1878
unnamed	BLACK BED	Coal	62N5	173	South	3.0	East	74	1900
unnamed	BLACK BED	Coal	62N7	173	South-West	3.0	East	74	1900
unnamed	BLACK BED	Coal	6HQC	182	Beneath Property	1.7	East	74	1894
unnamed	BLACK BED	Coal	6HQB	182	West	1.7	East	74	1894
unnamed	BLACK BED	Coal	62N8	182	South-West	3.6	South-East	76	1905
unnamed	BETTER BED	Coal	6HQH	213	Beneath Property	4.1	East	38	1900
unnamed	BETTER BED	Coal	6HQL	214	Beneath Property	4.0	East	38	1900
unnamed	BETTER BED	Coal	6HQG	217	North	4.1	East	38	1900
unnamed	BETTER BED	Coal	62N2	219	South	2.5	East	38	1900
unnamed	BETTER BED	Coal	6HQP	219	North-East	4.1	East	38	1902
unnamed	BLACK BED	Coal	6HQD	231	West	6.8	East	69	1905

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
Shaft	422422-003	422656 422031	was exposed by developers in 1990 and found to be filled with colliery spoil	Coal	
Shaft	422422-004	422665 422034	was exposed by developers in 1990 and found to be filled with colliery spoil	Coal	
Shaft	422422-016	422785 422058		Coal	

Abandoned mine plan catalogue numbers

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

FGB739	FGB717	5372
FGB627	FGB547	FGB709
M549	FGB278	5181

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

No outcrops recorded.

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Fault under or close to the property recorded.

Opencast mines

None recorded 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

Distance to site investigation (m)	Direction
Within	N/A

See Section 4 for further information.

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

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.

Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

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.

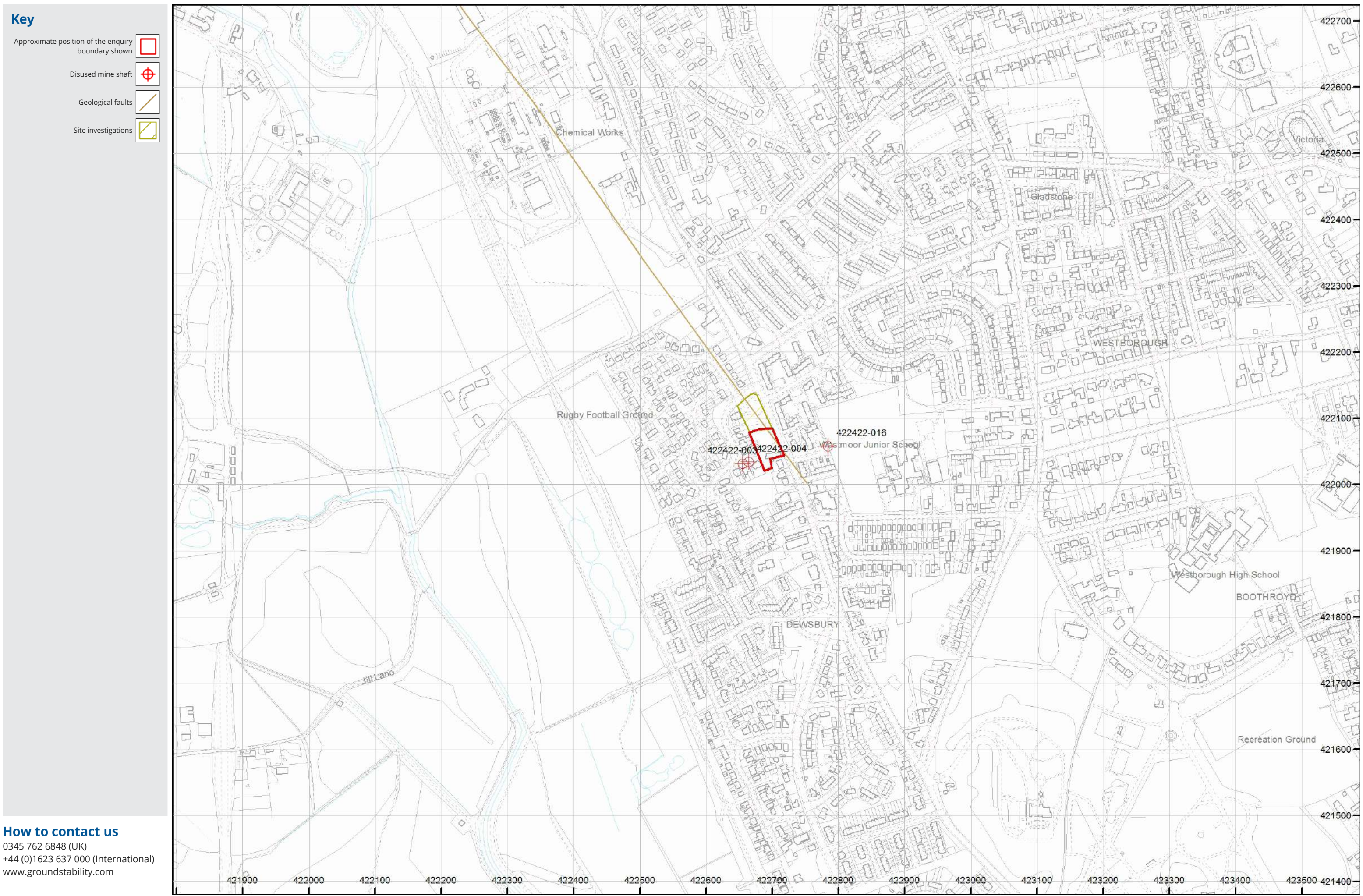
Withdrawal of support notices

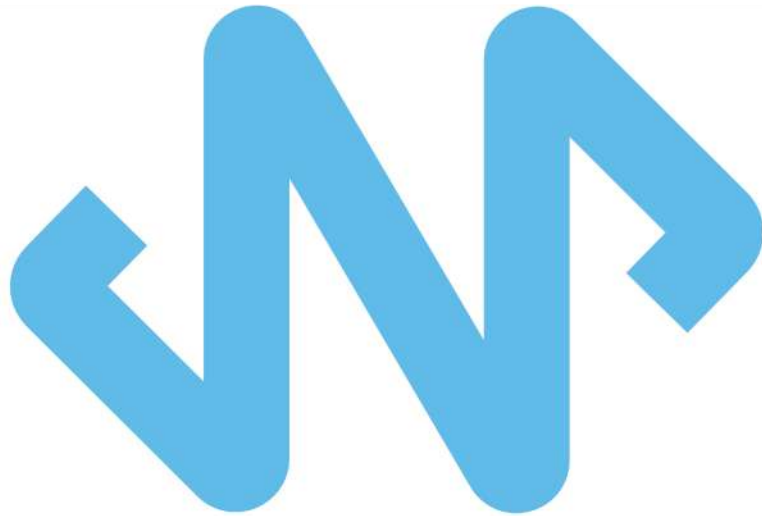
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

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.





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