



**Sirius Geotechnical Ltd**  
4245 Park Approach  
Thorpe Park  
Leeds  
LS15 8GB

0113 264 9960  
[www.thesiriusgroup.com](http://www.thesiriusgroup.com)

K Mistry  
Newett Homes  
Thorp Arch Grange  
Walton Road  
Thorp Arch  
Wetherby  
LS23 7BA

Date: 15<sup>th</sup> November 2024

Our Ref: C9470B/10719/AMG

Dear Krishna,

**Re: C9470B – COAL MINING RISK ASSESSMENT (CMRA) FOR PROPOSED RESIDENTIAL DEVELOPMENT AT LAND OFF DODWORTH GREEN ROAD, BARNSELY**

### **Introduction**

Newett Homes instructed Sirius Geotechnical Ltd (Sirius) to carry out a review of desk top information in relation to a proposed residential development at land off Dodworth Green Road, Barnsley, to assess risks to site stability from coal mining.

This report is based on the format of the Coal Authority's General Guidance Notes (January 2011) and follows its Model Report Template.

### **Site Location**

The site is located to the east of Dodworth Green Road, in the Dodworth area of Barnsley, South Yorkshire. The National Grid Reference of the site is 431450, 405050. A Site Location Plan, Drawing No. C9740/01, and red-line site boundary plan, Newett Homes Drawing No. Z087.101, are included in Appendix A.

## **Site Description**

The proposed development site comprises an approximately square shaped parcel of land, c. 0.3 Ha in area, comprising a large detached house and its curtilage.

The existing house is in the north-east of the site and is of brick construction and two storeys in height, accessed via an asphalt-surfaced driveway leading from Dodworth Green Road. There is a wooden shed and pre-cast concrete panel double garage to the east of the house. Within the curtilage of the house, there is a maintained lawn to the south, and an area of mature trees to the west.

The site is adjoined to the north and east by residential properties, to the south by a large lawn to an adjacent property, and to the west by the Travellers Inn pub and Dodworth Green Road, beyond which lies Dodworth Methodist Church and residential properties.

## **Proposed Development**

The proposed development layout is shown on Newett Homes Drawing No. Z087.102 Rev D, dated 05/09/24, a copy of which is included in Appendix A.

The development will comprise retention and refurbishment of the existing detached house, as well as construction of five new detached 2 to 2.5 storey houses (one with a detached garage), with private gardens, areas of soft landscaping, and a new access road off Dodworth Green Road.

## **Scope of Works**

The scope of this document is intended to:

- present a desk-based review of available information on the coal mining issues which are relevant to the application site;
- assess the anticipated risks to the proposed development from coal mining legacy;
- set out appropriate mitigation measures to address the coal mining legacy issues affecting the site, including site investigation and possible remedial works (where required), 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 of unstable land.

## Sources of Information

The following sources of information have been used in compiling this report:

- British Geological Survey (BGS) 1:50,000 scale geological map (Sheet 87, Barnsley, Bedrock & Superficial Deposits Edition), 2008.
- Geological Survey of Great Britain 1:10,000 scale geological map sheets SE30NW and SE30SW, 1980.
- Geological Survey of England & Wales, Six Inch to One Mile (1:10,560) Scale Map Sheet Yorkshire 274SW, 1933.
- BGS. 2007. *Geology of the Barnsley District; A Brief Explanation of the Geological Map Sheet 87 Barnsley.*
- Geological Survey of Great Britain. 1947. *Geology of the Country around Barnsley: Explanation of Sheet 87.*
- BGS online Geology Viewer & BGS on-line borehole records.
- Coal Authority (CA) Interactive Map Viewer.
- CA Consultants Coal Mining Report (see Appendix B).
- CA mine abandonment plan (see Appendix C).
- A site investigation letter report by Lithos Consulting (Lithos), titled, '*Green Road, Dodworth – Adit & Shaft Search*', ref. 005/4273/REG/AP, dated 24<sup>th</sup> February 2022, was previously forwarded to Sirius by the Client for review.
- Barnsley Metropolitan Borough Council (BMBC) Planning Portal website <https://www.barnsley.gov.uk/barnsley-maps/planning-explorer/>

### **Mapped Historical Coal Mining Features (within 250m of the Site)**

Review of historical Ordnance Survey mapping indicates that the site remained undeveloped until the 1960s, when the current detached house is shown. The site layout has remained essentially unchanged since this time.

Within the surrounding area, an Old Shaft is shown c. 50m south of the site on the OS map dated 1855, but is no longer shown on the next oldest map dated 1893, and all other later maps.

The 1855 map also shows a Coal Pit c.150m north-west of the site, labelled as an Air Shaft on the maps dated 1893 – 1956, and not shown on later maps.

## **Identification and Assessment of Site-Specific Coal Mining Risks**

### Geological Setting

Published geological mapping does not record any made ground or natural superficial deposits on the site.

The majority of the site is underlain by undifferentiated strata of the Pennine Lower Coal Measures Formation (PLCMF), (mainly mudstone, siltstone, sandstone and un-named coal seams).

The Joan Coal seam is conjectured to outcrop in a north-west / south-east direction in the northern part of the site.

The Vanderbercke (Clay Cross) Marine Band is shown to closely overlie the Joan Coal, and is the boundary between the PLCMF and the overlying Pennine Middle Coal Measures Formation (PMCMF), which is shown to underlie the northern margin of the site (undifferentiated strata).

The geological mapping shows that solid strata at the site dip to the north-east. The closest dip angle reading to the site shown on the geological maps, located c. 400m to the north-west, is 4 degrees.

No faults are shown to lie within the site itself, although a conjectured fault is shown parallel to, and a short distance to the north of, the northern site boundary, with the downthrown side to the north.

No BGS boreholes are recorded within the site, or within 250m of the property.

### Coal and Ironstone Seam Details

Based on review of the available information, it is considered that the following seams could underlie the site at shallow depth (i.e., within 30m of the ground surface), from shallowest to deepest:

- Joan Coal
- Tankersley Ironstone
- Flockton Thick

The Joan Coal is conjectured to outcrop in the north of the site and listed as being 0.36m to 0.66m thick on the 1:10,000 scale geological maps. The 2007 geological memoir notes that this seam was historically worked in underground and opencast mines.

The Tankersley Ironstone seam is conjectured to outcrop c. 100m south of the site. The 1947 geological memoir notes that the Tankersley Ironstone has been much worked along its outcrop, and that the ironstone is contained in three or more courses consisting of bands or layers of nodules in shale, varying in thickness from 0.6m – 2.4m or more.

The Flockton Thick seam outcrops c. 150m south of the site and is listed as being 0.48m to 2.9m thick on the 1:10,000 scale geological maps. The 2007 geological memoir notes that this seam was historically worked in underground mines.

The geological maps indicate that the Flockton Thin is the next oldest coal seam beneath the Flockton Thick seam; this is recorded to be 0.31m to 1.96m thick, and lie 22m to 28m beneath the Flockton Thick seam. The 2007 geological memoir notes that this seam was historically worked in underground mines.

#### Recorded Mine Workings

The Consultants Mining Report states that there are recorded underground mine workings beneath the site in four seams of coal.

The shallowest recorded workings are at a depth of 14m below ground level (bgl), within the Flockton Thick seam, with the extraction thickness recorded to be 0.61m. The last recorded workings in this seam beneath the site were in 1885.

There are also recorded mine workings within the Top Fenton, Parkgate and Silkstone coal seams, at depths of 61 – 160m bgl, last worked in 1912. However, these recorded workings are not considered to be 'shallow'.

There are no spine roadway recorded at shallow depth.

#### Unrecorded Shallow Mine Workings

The Consultants Mining Report states that the property is in an area where the CA believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

There are no recorded shallow mine workings in the Joan Coal or Tankersley Ironstone within the Consultants Coal Mining Report. However, there is a note on the 1:10,000 scale geological map on the Tankersley Ironstone outcrop. c. 450m north-east of the site, stating that ironstone pits were formerly seen.

The CA Interactive Map Viewer indicates that the probable unrecorded shallow coal mine workings are associated with the Flockton Thick coal seam in the south of the site, and the Joan Coal in the north of the site.

It is also considered that there could be unrecorded shallow mine workings in the Tankersley Ironstone seam.

## Mine Entries

There are no recorded mine entries within the site.

Within 100m of the site, there is one CA recorded mine entry; a shaft (CA ref. 431404-008) located c. 65m south of the site. This is noted to be an entry into mine workings in the Flockton Thick coal seam on the 1:10,000 scale geological map.

The Consultants Mining Report notes that an attempt was made to locate this shaft by trial trenching (as reported in the above-referenced Lithos report), but that it was not located (although there were access constraints that affected the investigation).

## **Site Investigation Information from the BMBC Planning Website**

The BMBC planning portal website was searched for intrusive site investigation information related to the site and any immediately surrounding previous planning applications. Although there are several planning applications for the site and surrounding area, the only intrusive site investigation information found is the above-referenced Lithos report.

## **Mine Abandonment Plans**

Sirius instructed the CA to undertake a search of its Mine Abandonment Catalogue for plans of historical underground (up to 30m depth) and opencast coal mining at the site. The CA responded that the following plan applied to the site:

### CA Ref. NE 584

This is a plan of underground workings in the Flockton Thick coal seam. Mine workings dated 1881 are shown beneath the northern margin of the site, extending to the north. There are no depths or levels shown for the workings underlying the site.

There is a typical section of the seam on the site, showing two leaves of coal, 0.61m and 0.38m thick, separated by 1.17m of 'spavin', i.e., seatearth / clay, giving a total 2.16m seam thickness.

There are three shaft sections for Dodworth Colliery, located c. 600m north-west of the site; these record that the vertical separation between the Flockton Thick seam and overlying Joan Coal is c. 21m. The Tankersley Ironstone is not recorded on the shaft sections.

## Summary of Coal Mining Risks:

The following table below summarises the potential risks associated with coal mining legacy for the proposed development:

Coal Mining Issue	Yes	No	Risk Assessment
Underground Coal Mining (recorded at shallow depths)	✓		Shallow mine workings within the Flockton Thick seam are recorded beneath the northern margin of the site. Based on the recorded seam thickness and depth, the mine workings could be at a depth at which any future collapse could result in instability at the surface.
Unrecorded Underground Coal Mining (potentially at shallow depth)	✓		In addition to the recorded shallow mine workings within the Flockton Thick seam along the northern margin of the site, there could also be more extensive unrecorded shallow mine workings within the seam beneath the rest of the site.  Geological mapping shows that the Joan Coal outcrops in the north of the site, and that the Tankersley Ironstone outcrops a short distance to the south of the site, and hence both seams are also likely to underlie the site at shallow depth.  It is therefore possible that there are unrecorded shallow mine workings (crop workings, bell pits and / or pillar and stall workings) in any, or all three of these seams, which could lead to instability at the surface.
Mine entries (shafts and adits)		✓	There are no recorded mine entries within the site.  However, there are recorded mine workings beneath the site, as well as potentially unrecorded mine workings, and therefore the presence of unrecorded mine entries cannot be entirely discounted at this stage.
Coal mining geology (fissures)		✓	There are no faults or fissures recorded beneath the site.
Record of past mine gas emissions		✓	There is no record of a mine gas emission requiring action by the CA within the boundary of the property. There is one instance within 500m of the property, located 480m to the north, where the CA investigated and subsequently remediated the effects of mine or ground gas emissions following specific reported hazards. No further details are given within the Consultants Mining Report.
Recorded coal mining surface hazard		✓	The CA states that the property has not been subject to remedial works by, or on behalf of, themselves, under its Emergency Surface Hazard Call Out procedures.
Surface Mining (opencast workings)		✓	No opencast coal mining is recorded to affect the site.

## Conclusions and Recommendations

Based on the above Summary of Coal Mining Risks, it is considered that the surface stability of the site is at risk from both recorded shallow mine workings within the Flockton Thick coal seam, and unrecorded shallow mine workings (e.g., crop workings, bell pits and / or pillar and stall workings) within the Flockton Thick, Joan Coal and Tankersley Ironstone seams.

Accordingly, intrusive site investigation should be undertaken, including rotary drilling to determine the depth and thickness of coal and ironstone seams (and any mine workings within them) that lie at shallow depth beneath the site. The drilling works should be undertaken in accordance with a Permit to Enter or Disturb Coal Authority Interests. The intrusive investigation should also include trial pits / trenches to delineate the outcrop of the Joan Coal within the site, as well as to investigate any evidence of unrecorded crop workings / mine entries (including bell pits).

Following completion of the site investigation, a report should be produced, detailing the findings of the investigation and including a stability risk assessment and recommendations for mitigation works, if considered necessary.

Should any shallow mine workings be found that present an unacceptable risk to the proposed development, it should be possible to undertake treatment works to render the site safe and stable for development, e.g., drilling and grouting of pillar and stall mine workings, excavation and recompaction of bell pits and crop workings, etc. Any proposed treatment works should be agreed with the Coal Authority prior to construction.

It is hoped that the above is adequate for your present needs. If you should require clarification of any points or would like to discuss the next course of action, please do not hesitate to contact us.

Yours sincerely,



Adrian Grant  
Principal Engineer

For and on behalf of Sirius Geotechnical Ltd

Encs:

Appendix A: Drawings  
Appendix B: Coal Authority Consultants Mining Report  
Appendix C: Mine Abandonment Plan



APPENDIX A  
DRAWINGS



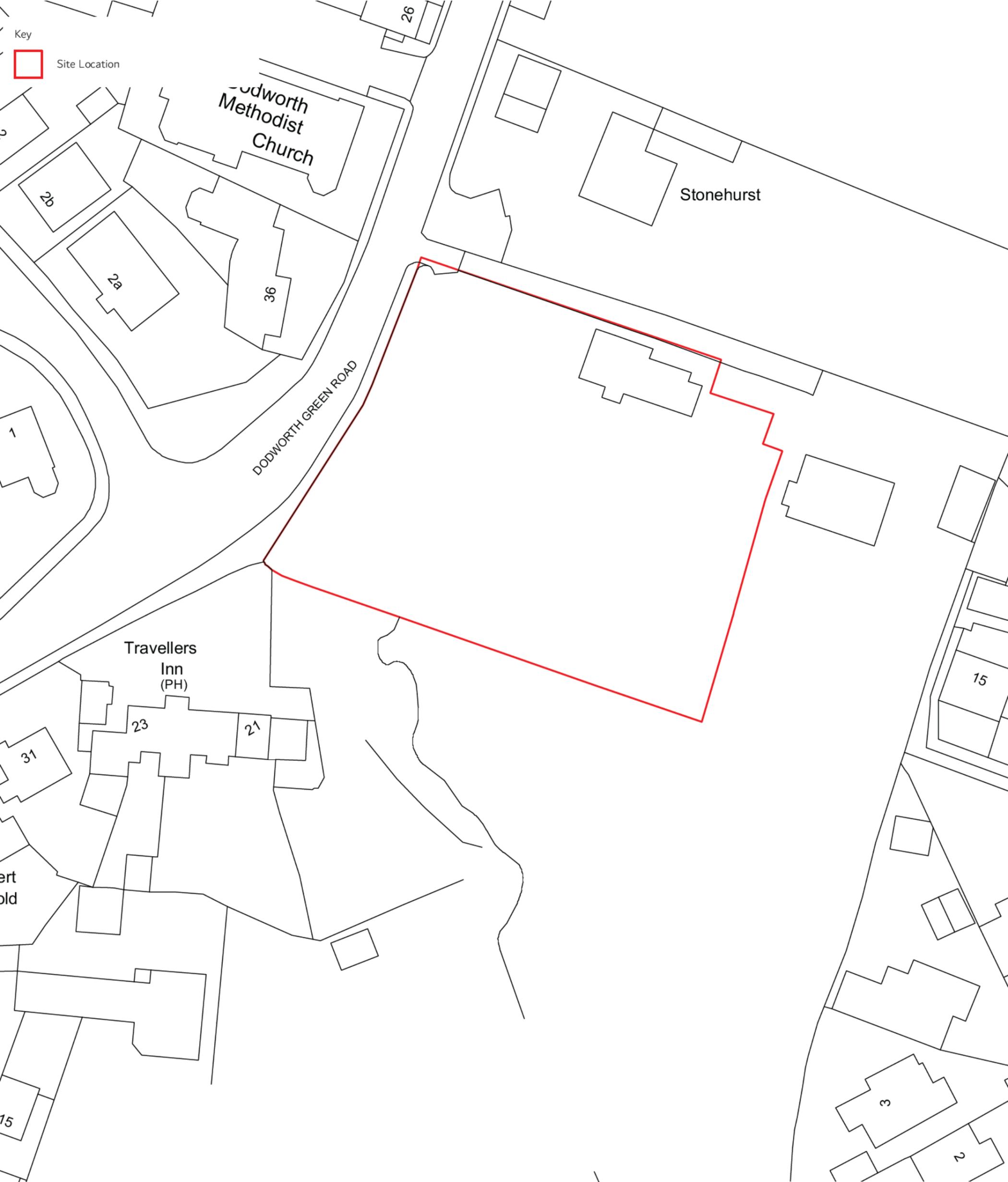
Reproduced from the Ordnance Survey 1:50,000 scale Landranger® map with the permission of The Controller of Her Majesty's Stationary Office, © Crown Copyright. All rights reserved. Sirius Geotechnical Ltd, Suite 2, Russel House, Mill Road, Langley Moor, Durham DH7 8HJ. Licence No. 100042005

NOTES

 Site Location

REVISION		CLIENT  Newett Homes Ltd	DRAWING NO.	REVISION NO.	
D	For information		C9470/01	0	
A	>>				
B	>>				
C	>>				
D	>>				
SIRIUS GEOTECHNICAL LTD 4245 Park Approach Thorpe Park Leeds LS5 8GB <a href="http://www.siriusgroup.com">www.siriusgroup.com</a> TEL: 0113 264 9960		SITE Land off Dodworth Green Road, Dodworth, Barnsley	DRAWN BY	APPROVED BY	
			MF	AMG	
		DRAWING TITLE	DATE	SCALE	
		Site Location Plan	May 2022	1:25,000	A4

Key  
Site Location



Drawing Title			
Site Location Plan			
Site			
Green Lane, Dodworth			
Scale @ A3	1:500	Date	21/03/24
Drawn	VB	Checked	MC
Drawing No.	Z087.101	Rev.	-



Thorpe Arch Grange  
Walton Road  
Thorp Arch  
LS23 7BA  
01937 543599  
www.newethomes.co.uk



Key

- Site Location
- Proposed dwelling
- Category A Tree to be retained\*
- Category B Tree to be retained\*
- Category C Tree to be retained\*
- Root Protection Area\*
- Proposed Landscaping\*
- Existing Building to be retained
- Listed Building
- Existing surface water sewer (3.5m easement)

\*Details on trees and landscaping shown on this layout are indicative. Please refer to Arboricultural Impact Assessment and Landscape Masterplan submitted with this application for full detail.



ACCOMMODATION SCHEDULE

Market Units							
Housetype	Beds	Arrangement	Storey Height	SQFT	Number	Total SQFT	4 Bed %
HOV	Hovingham+	4	Detached	2	1656	1	1656
BRA	Bramham	4	Detached Integral	2	1498	2	2996
<b>Total</b>					<b>3</b>	<b>4652</b>	<b>60%</b>
Housetype	Beds	Arrangement	Storey Height	SQFT	Number	Total SQFT	5 Bed %
DOD	Dodworth	6	Detached	2.5	2232	2	4464
<b>Total</b>					<b>2</b>	<b>4464</b>	<b>40%</b>
<b>Sub-total</b>					<b>5</b>	<b>9116</b>	<b>100%</b>
<b>GRAND TOTAL:</b>					<b>Number</b>	<b>Total SQFT</b>	
					<b>5</b>	<b>9116</b>	

Drawing Title  
Site Layout

Site  
Dodworth Green Road, Dodworth

Scale @ A3 1:500 Date 05/09/24

Drawn MC/VB Checked MC/BB

Drawing No. Z087.102 Rev. D

Thorpe Arch Grange  
Walton Road  
Thorp Arch  
LS23 7BA

01937 543599  
www.newetthomes.co.uk





## APPENDIX B

# COAL AUTHORITY CONSULTANTS COAL MINING REPORT



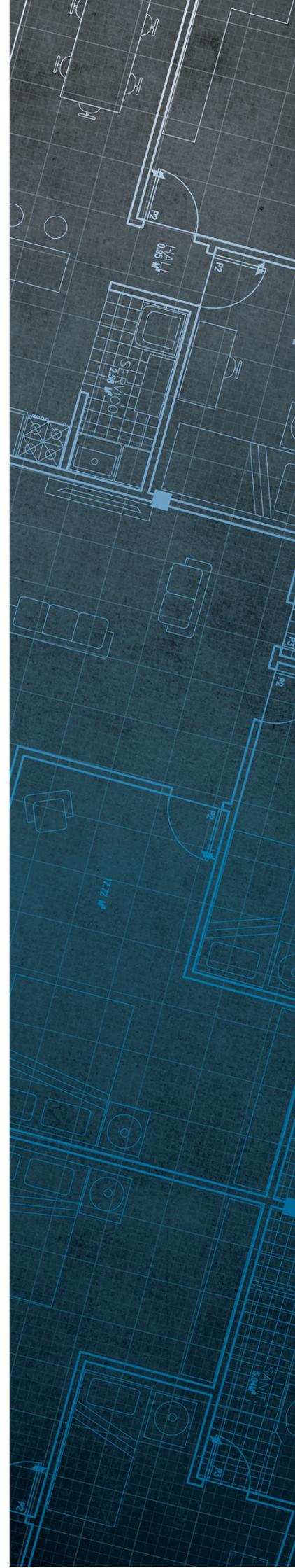
The Coal  
Authority

# Consultants Coal Mining Report

Flat  
Travellers Inn  
23 Dodworth Green Road  
Dodworth  
Barnsley  
Barnsley  
S75 3RR

Date of enquiry: 11 November 2024  
Date enquiry received: 11 November 2024  
Issue date: 11 November 2024

Our reference: 51003462528001  
Your reference: 24991/C9470B/AG



# 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

SIRIUS GEOTECHNICAL LTD

## Enquiry address

Flat  
Travellers Inn  
23 Dodworth Green Road  
Dodworth  
Barnsley  
Barnsley  
S75 3RR

## How to contact us

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

200 Lichfield Lane  
Mansfield  
Nottinghamshire  
NG18 4RG

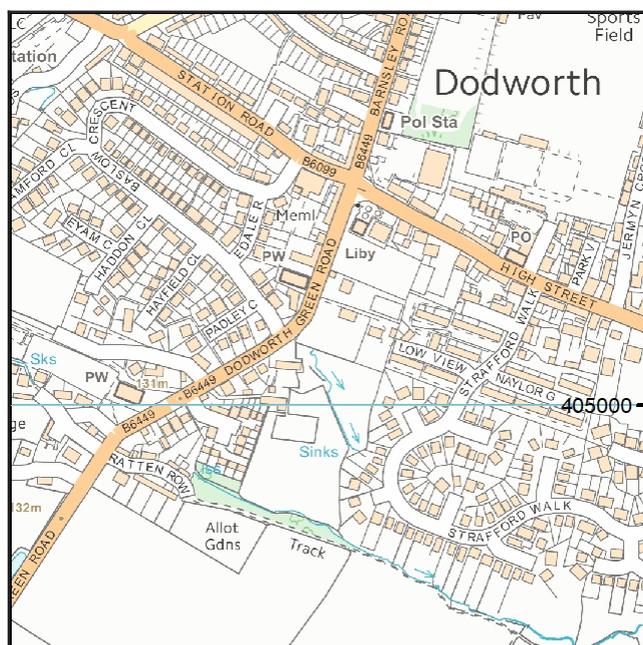
[www.groundstability.com](http://www.groundstability.com)

 @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	FLOCKTON THICK	Coal	6I4M	14	Beneath Property	4.3	North-East	61	1885
DODWORTH	TOP FENTON	Coal	6I4X	61	Beneath Property	3.5	North-East	71	1911
DODWORTH	TOP FENTON	Coal	6I4R	66	South	7.1	North-East	71	1912
unnamed	PARKGATE	Coal	6I4G	81	South	2.6	East	155	1912
DODWORTH	PARKGATE	Coal	6I4X	83	Beneath Property	3.6	North-East	151	1911
unnamed	SILKSTONE	Coal	6I43	158	South	3.5	East	147	1893
unnamed	SILKSTONE	Coal	6I53	160	Beneath Property	3.7	North-East	147	1880
unnamed	WHINMOOR	Coal	6I55	206	South-West	3.6	North-East	116	1960
unnamed	WHINMOOR	Coal	6I3X	207	South-West	3.9	North-East	138	1961

## 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	431404-008	431438 404988	Mine entry was searched for in January 2021 by partial trial trenching but was not found	Coal	

### Abandoned mine plan catalogue numbers

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

CT72	CT82	NE584
PO0	9170	SY35
NE1034	NE762	NE565

**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
JOAN	Coal	Yes	Within	N/A	123

### 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

Distance to gas incident/remediation (m)	Direction
480.4	North

See Section 4 for further information.

### 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.

### 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.

### Mine gas remedial works

The site is within an area of previous interest. It is close to where the Coal Authority has investigated and subsequently remediated the effects of mine or ground gas emissions following specific reported hazards.

The site requires further investigation and may influence your risk assessment. We recommend that you order the **Coal Authority Mine Gas Emission 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](mailto: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](mailto: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. 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.

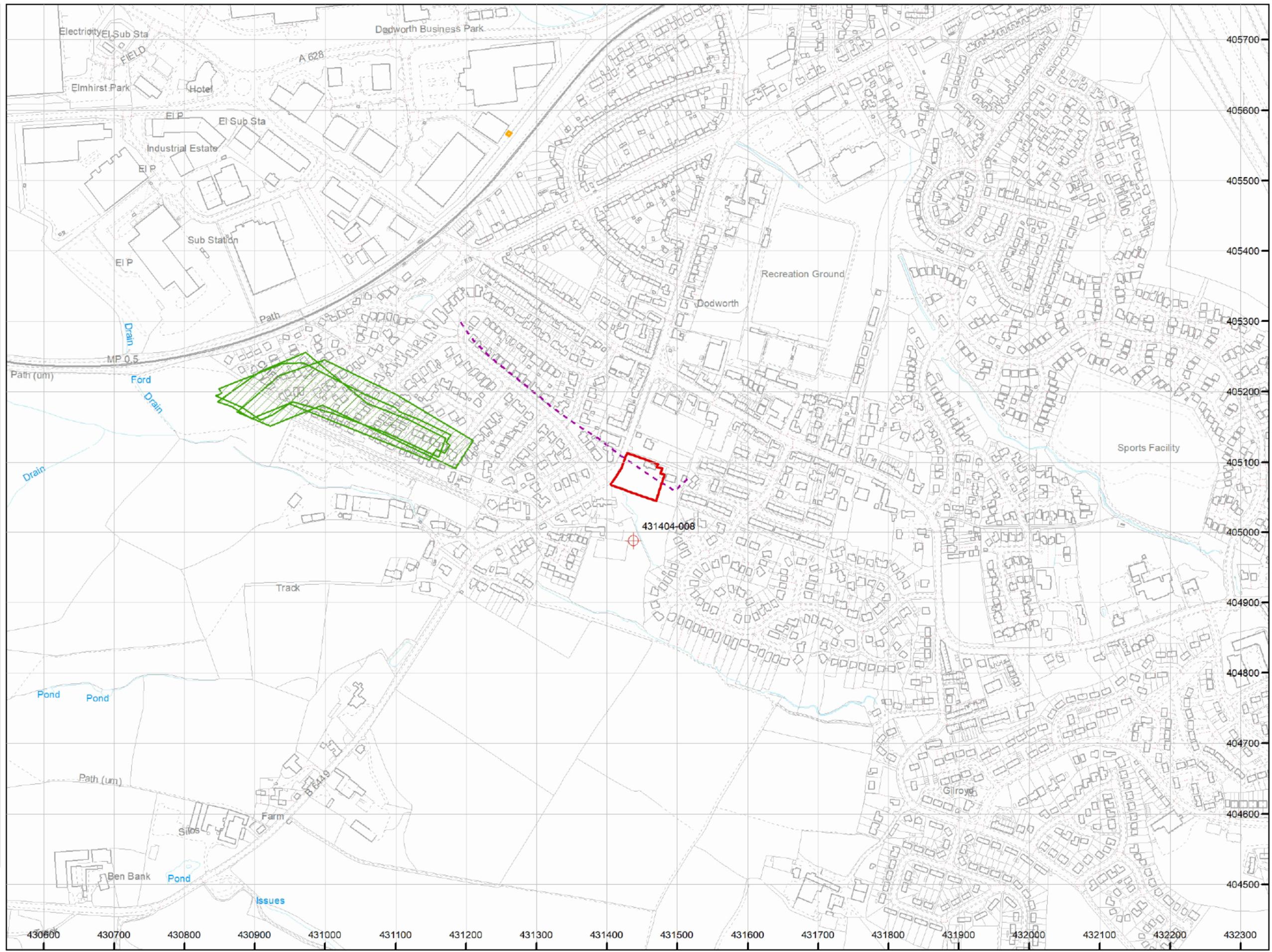
### **Payment to owners of former copyhold land**

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 
- Disused mine shaft 
- Outcrop (Conjectured) 
- Unlicensed opencast site 
- Mine gas remedial works 



**How to contact us**  
0345 762 6848 (UK)  
+44 (0)1623 637 000 (International)  
[www.groundstability.com](http://www.groundstability.com)

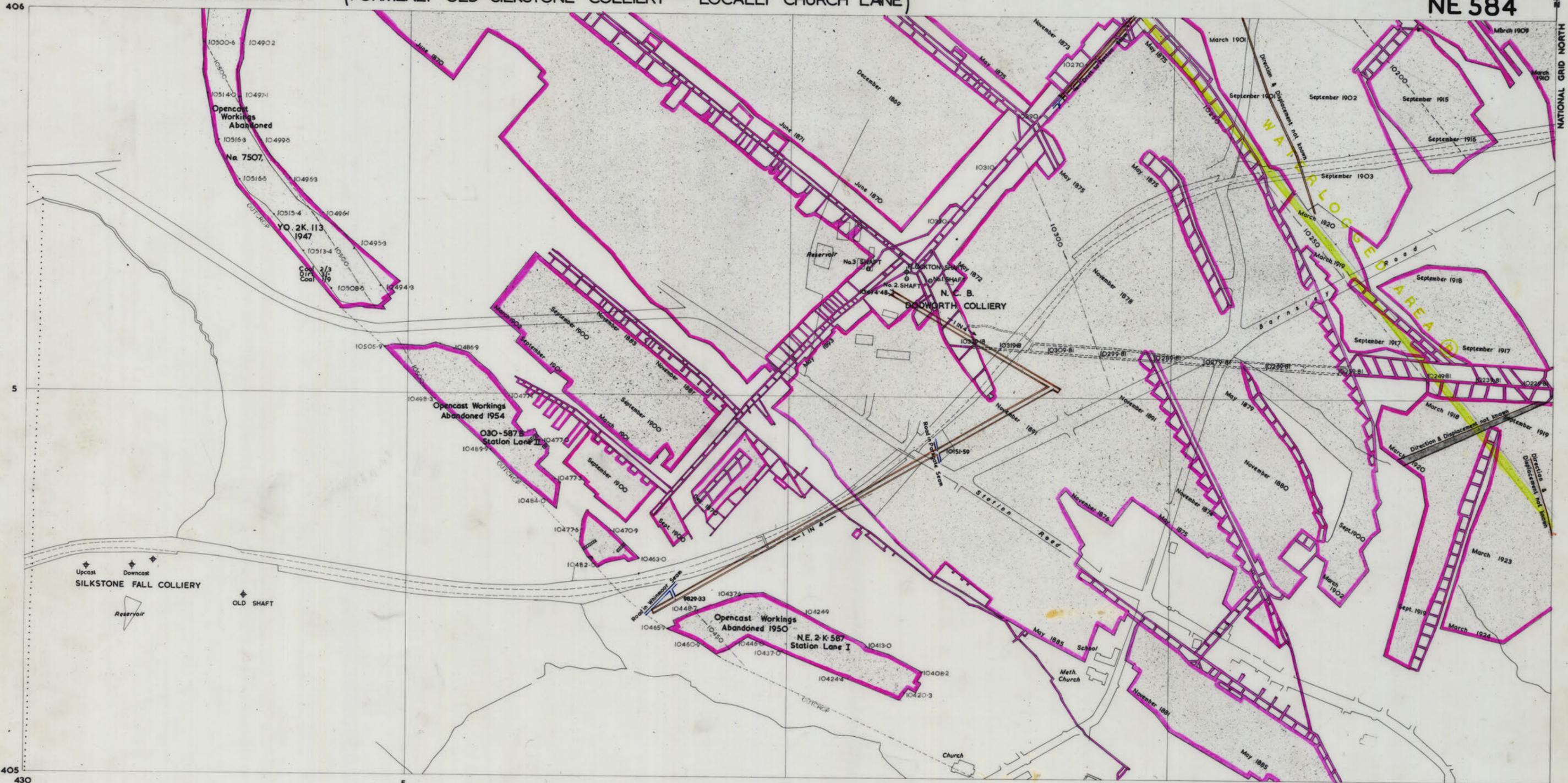


## APPENDIX C

# MINE ABANDONMENT PLAN

# DODWORTH COLLIERY (FORMERLY OLD SILKSTONE COLLIERY - LOCALLY CHURCH LANE)

NE 584



## DODWORTH COLLIERY

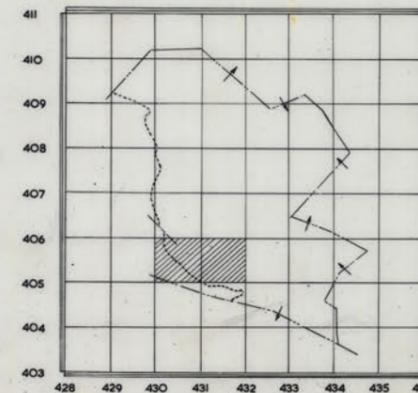
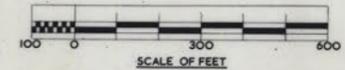
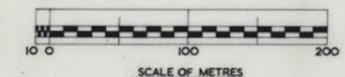
No. 1 SHAFT 44/3105/183652		No. 2 SHAFT 44/3105/153655		No. 3 SHAFT 44/3105/103668		FLOCKTON SHAFT 44/3105/152664	
BANKING LEVEL	10506-91	BANKING LEVEL	10905-27	BANKING LEVEL	10513-55	SURFACE LEVEL	10487-65
SURFACE LEVEL	10485-33	JOAN SEAM LEVEL	10404-62	JOAN SEAM LEVEL	10403-51	FLOCKTON SEAM LEVEL	10339-41
FLOCKTON SEAM LEVEL	10337-08	FLOCKTON THICK SEAM LEVEL	10336-44	FLOCKTON THICK SEAM LEVEL	10335-10	DEPTH OF SHAFT	49-30yds.
SEAM INSET LEVEL	10337-08	SEAM INSET LEVEL	10336-44	FENTON SEAM LEVEL	10205-88		
FENTON SEAM LEVEL	10201-17	FENTON SEAM LEVEL	10210-18	PARKGATE SEAM LEVEL	10138-00		
PARKGATE SEAM LEVEL	10137-05	PARKGATE SEAM LEVEL	10139-70	THORNCLIFFE SEAM LEVEL	10072-88		
DEPTH OF SHAFT	124-67yds.	SILKSTONE SEAM LEVEL	9885-40	SILKSTONE FOUR FOOT SEAM LEVEL	10013-63		
		WHINMOOR SEAM LEVEL	9730-64	SILKSTONE SEAM LEVEL	9892-44		
		DEPTH OF SHAFT	264-78yds.	WHINMOOR SEAM LEVEL	9730-66		
				DEPTH OF SHAFT	263-00yds.		

## - SILKSTONE FALL COLLIERY -

UPCAST SHAFT 44/3005/081270		DOWNCAST SHAFT 44/3005/141271	
DEPTH OF SHAFT NOT KNOWN			
SURFACE LEVEL	10527-53	SURFACE LEVEL	10458-33
FENTON SEAM LEVEL	10458-33	PARKGATE SEAM LEVEL	10376-49
PARKGATE SEAM LEVEL	10306-99	THORNCLIFFE SEAM LEVEL	10262-16
THORNCLIFFE SEAM LEVEL	10262-16	SILKSTONE FOUR FOOT SEAM LEVEL	88-46yds.
SILKSTONE FOUR FOOT SEAM LEVEL	88-46yds.	DEPTH OF SHAFT	

-SCALE - 1/2500-

DATUM FOR LEVELS  
10000 feet below ORDNANCE DATUM



TYPICAL SECTION OF SEAM FOR SHEET 44/3005

BIND	
COAL	2'-0"
SPAVIN	3'-10"
COAL	1'-3"
SPAVIN	

This plan is a true copy of the working plan of the mine as completed up to 17 FEBRUARY 1967 and I certify after thorough examination and enquiry that to the best of my knowledge and belief it is an accurate plan of the mine.  
Signed *J. Harrison* Surveyor  
Certificate No. 2031 dated 8. NOV. 1948.

# FLOCKTON THICK SEAM

I hereby certify that no further working has taken place after the date of abandonment which would affect the accuracy of this plan.  
Signed *J. Harrison* Manager  
Certificate No. 8352 dated 1. FEB 1961

DATE OF ABANDONMENT 17 FEBRUARY 1967

DATE OF CONSTRUCTION NOVEMBER 1960

44/3005