



Appendix D Coal Authority Mining Reports



The Coal
Authority

Resolving the **impacts** of mining

CON29M Non-Residential Mining Report

HIGHAM LANE
HIGHAM
BARNSELEY
S75 3UB

Date of enquiry: 14 December 2018
Date enquiry received: 14 December 2018
Issue date: 14 December 2018

Our reference: 51001978525001
Your reference: 4173 - Higham Lane,
Dodworth



CON29M Non-Residential Mining Report

This report is based on, and limited to, the records held by the Coal Authority, at the time we answer the search.

Client name

JPG (LEEDS) LIMITED

Enquiry address

HIGHAM LANE, HIGHAM, BARNSELEY, S75 3UB

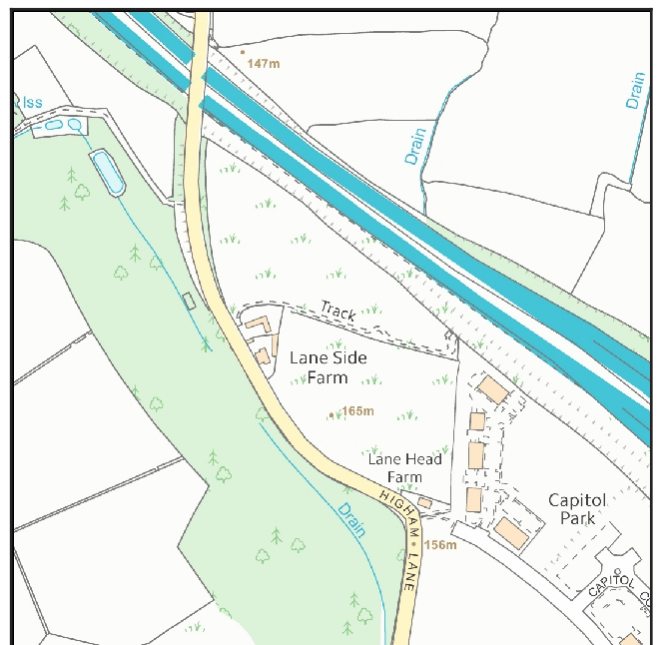
How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 /company/the-coal-authority
 /thecoalauthority
 /coalauthority



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

Summary

Has the search report highlighted evidence or potential of		
1	Past underground coal mining	Yes
2	Present underground coal mining	No
3	Future underground coal mining	Yes
4	Mine entries	Yes
5	Coal mining geology	No
6	Past opencast coal mining	No
7	Present opencast coal mining	No
8	Future opencast coal mining	No
9	Coal mining subsidence	No
10	Mine gas	No
11	Hazards related to coal mining	No
12	Withdrawal of support	No
13	Working facilities order	No
14	Payments to owners of former copyhold land	No

For detailed findings, please go to page 4.

Detailed findings

1. Past underground coal mining

The property is in a surface area that could be affected by underground mining in 6 seams of coal at 90m to 290m depth, and last worked in 1966.

Any movement in the ground due to coal mining activity associated with these workings should have stopped by now.

In addition the property is in an area where the Coal Authority believes there is coal at or close to the surface. This coal may have been worked at some time in the past. The potential presence of coal workings at or close to the surface should be considered, particularly prior to any site works or future development activity, as ground movement could still be a risk. Your attention is drawn to the Comments on the Coal Authority information section of the report.

2. Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3. Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

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

4. Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

There may however be mine entries/additional mine entries in the local area which the Coal Authority has no knowledge of.

5. Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6. Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7. Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8. Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9. 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.

10. Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11. Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12. Withdrawal of support

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.

13. Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14. 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.

Comments on the Coal Authority information

The Coal Authority own the copyright in this report and the information used is protected by our database right.

In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore 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 good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Additional remarks

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. This report is prepared in accordance with the Law Society's Guidance Notes 2018, the User Guide 2006 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.

Disclaimer

The Coal Authority owns the copyright in this report and the information used to produce this report is protected by our database rights. All rights are reserved and unauthorised use is prohibited. If we provide a report for you, this does not mean that copyright and any other rights will pass to you. However, you can use the report for your own purposes.

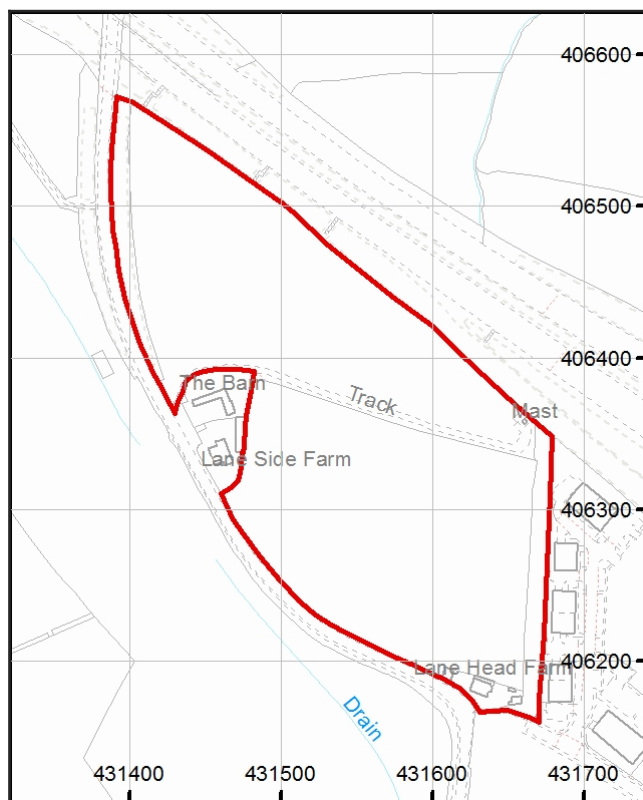
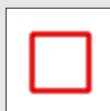
Alternative formats

If you would like this report in an alternative format, please contact our communications team.

Enquiry boundary

Key

Approximate position of enquiry boundary shown



How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 /company/the-coal-authority

 /thecoalauthority

 /coalauthority



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

Ordnance Survey Licence number: 100020315



The Coal
Authority

Consultants Coal Mining Report

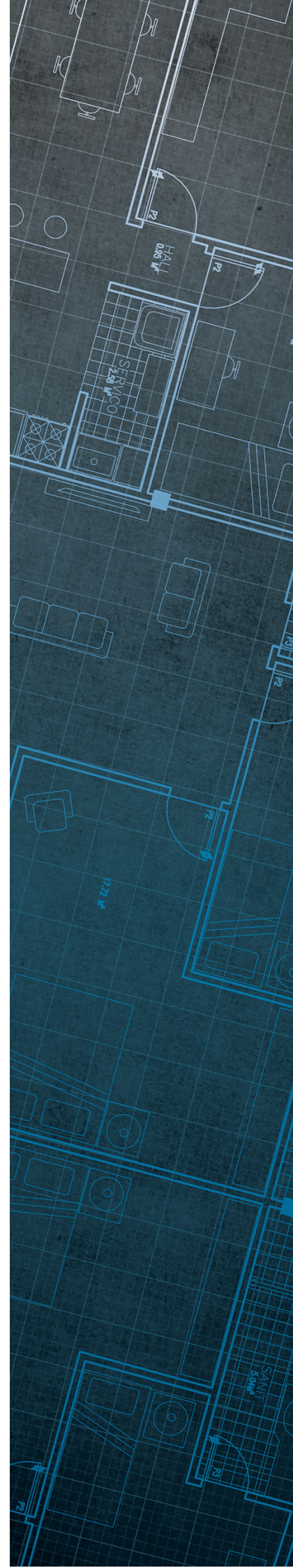
Higham Lane
Higham
Barnsley
S75 3UB

Date of enquiry:
Date enquiry received:
Issue date:

14 December 2018
14 December 2018
14 December 2018

Our reference:
Your reference:

51001978525002
4173 - Higham Lane,
Dodworth



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

JPG (LEEDS) LIMITED

Enquiry address

Higham Lane
Higham
Barnsley
S75 3UB

How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

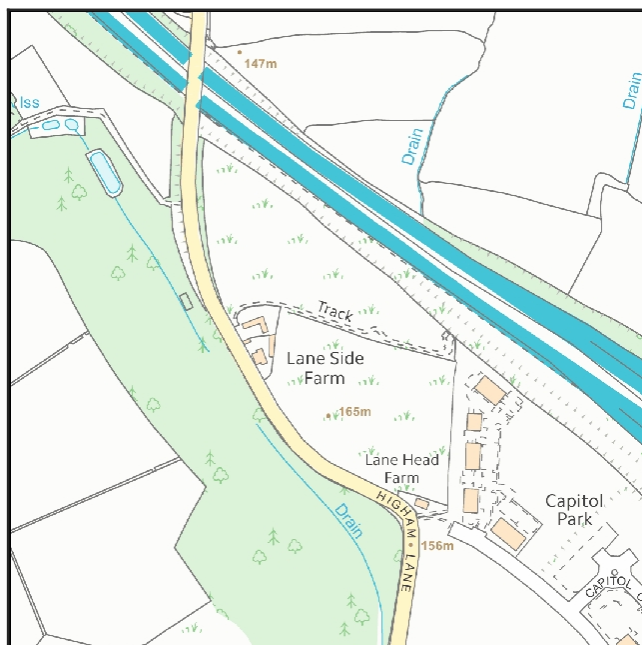
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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

Ordnance Survey Licence number: 100020315

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
DODWORTH	FLOCKTON THICK	Coal	64CW	86	Beneath Property	3.9	North-East	61	1905
DODWORTH	TOP FENTON	Coal	64CR	127	Beneath Property	3.9	North-East	74	1920
DODWORTH	PARKGATE	Coal	64CV	150	Beneath Property	2.2	North-East	137	1920
DODWORTH	WHEATLEY LIME	Coal	64D5	192	Beneath Property	1.3	North-East	109	1944
unnamed	SILKSTONE	Coal	6I53	235	South	3.7	North-East	147	1880
DODWORTH HIGHAM	SILKSTONE	Coal	64D3	237	Beneath Property	4.1	North-East	147	1891
unnamed	WHINMOOR	Coal	6I58	269	South-West	3.7	North-East	144	1964
WOOLLEY/REDBROOK	WHINMOOR	Coal	64D9	272	Beneath Property	4.1	North-East	107	1965
WOOLLEY/REDBROOK	WHINMOOR	Coal	64D8	278	South-East	4.5	North-East	128	1966
unnamed	WHINMOOR	Coal	6I59	278	South	4.1	North-East	107	1966

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:

NE565	NE1050	NE584
NE375	NE1034	SCC9
NE498	NE539	M711

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

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

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
TOP HAIGH MOOR	Coal	Yes	Within	N/A	355

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

Distance to site investigation (m)	Direction
5.8	South

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

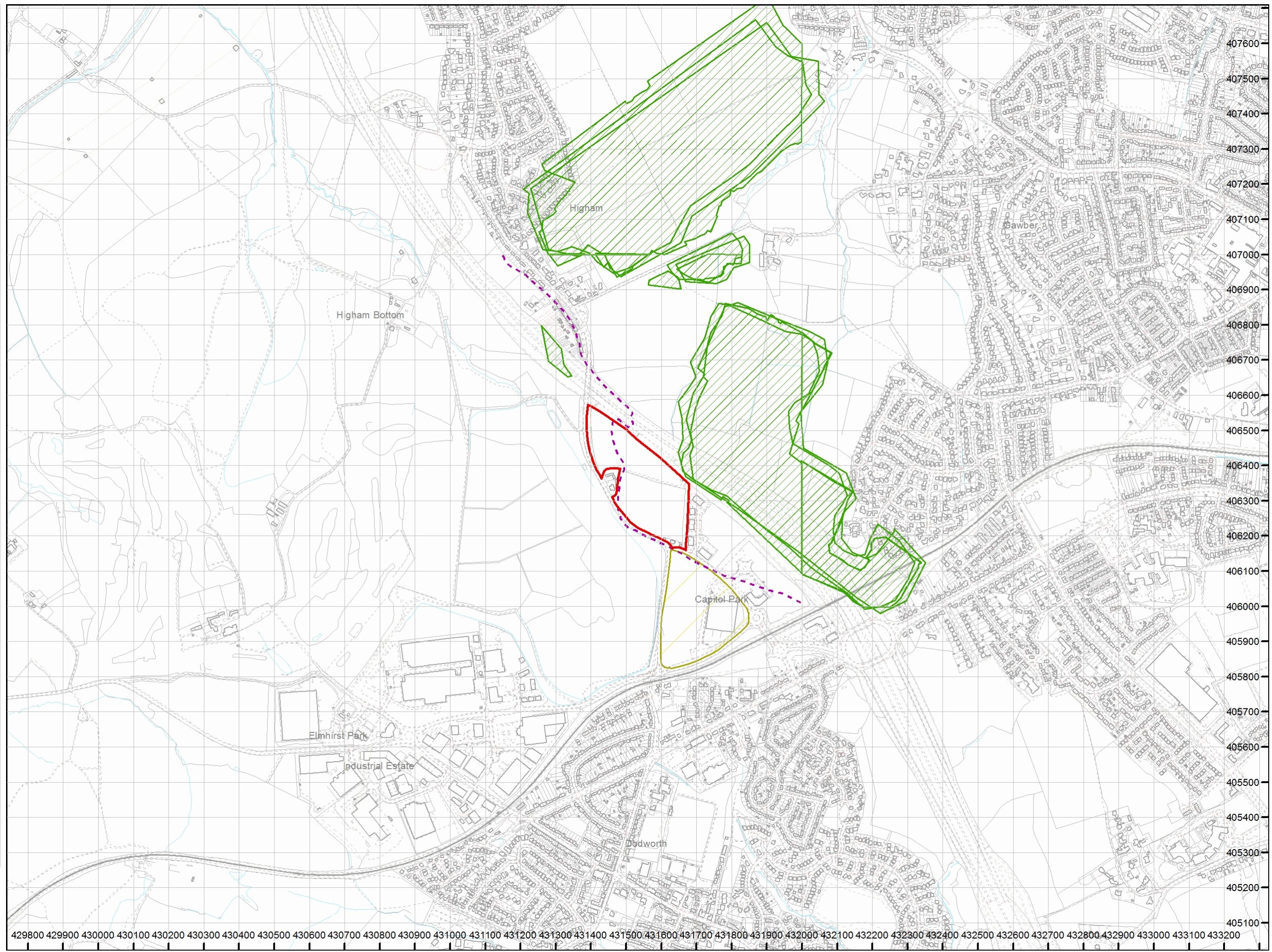
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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

Key

- Approximate position of the enquiry boundary shown 
- Outcrop (Conjectured) 
- Unlicensed opencast site 
- Site investigations 

How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com





Appendix E Historical Exploratory Hole Records

ASTON - SHEFFIELD - LEEDS MOTORWAY DODWORTH TO LEEDS

WEST RIDING OF YORKSHIRE COUNTY COUNCIL

Type of Boring (a) Shell and Auger
(b) Medium core drill

Diameter: (a) 6" to 8'6"
(b) 2 1/4" core

Date: Oct. - Nov. 1962

Chainage: 921 + 60

Ground Level: 475.1 ft. Cut 15 ft.

Fill: ft.

Level: above N.D.

148.80

HIGHAM COMMON

Description	Legend	Sample	Depth	m	Test Results & Notes
Grey clayey silty TOPSOIL		1	0' 0" - 0' 6"		Concrete Collar
Stiff mottled grey and brown silty CLAY.		2	24		C1 C = 1010 d = 123. SO ₃ = 0.01
		3	6' 0"	12	
Soft, massive, pale grey SILTSTONE, with silty mudstone laminations at base, hard below 9 ft.		4	12		N = 63 C1
		5	15' 0"		Observation Well
					Gravel Fill
Moderately hard, mid grey silty MUDSTONE, less silty at base; mainly unbroken with closed vertical joints.			23' 6"		
			25' 0"		
COAL, with bands of carbonaceous mudstone.					
Soft black carbonaceous, shaley MUDSTONE, with fragments of coal and hard ironstone.			30' 6"		
Moderately hard, mid grey silty MUDSTONE, with closed vertical joints.		6	35' 6"		
Hard, pale grey SILTSTONE massive, with open and closed near vertical joints.		7			
Silty mudstone laminations.		8	44' 0"		

CONTINUED ON SHEET NO. 2

TABLE OF WATER LEVELS IN OBSERVATION WELL

Date	Depth to Water	
16/12	Dry	
8/1	Dry	
18/1	Dry	
29/1	Dry	

ASTON - SHEFFIELD - LEEDS MOTORWAY DODWORTH TO LEEDS

Description	Legend	Sample	Depth	m "	Test Results & Notes
Continued from Sheet No.					
Geological Survey Hard, massive, mid grey very silty MUDSTONE, with thin ironstone bands.	Geological Survey				Geological Survey

SE30NW 344 31370, 06617

ASTON - SHEFFIELD - LEEDS MOTORWAY
DODWORTH TO LEEDS

WEST RIDING OF YORKSHIRE COUNTY COUNCIL

Type of Boring (a) Shell and Auger
(b) Medium Core DrillDiameter (a) 6" to 8 1/2"
(b) 4"

Date: Oct. - Nov. 1962

British Geological Survey

Chainage: 921 + 60

Ground Level 473.6 ft. Cut: 15 ft. Fill: 15 ft.
Level: above N.D. 144.32

Bridge Site HIGHAM COMMON

Description	Legend	Sample	Depth	m	Test Results & Notes
Grey clayey silty TOPSOIL		1	0'-0"		
Stiff mottled grey and brown silty CLAY		2	19		C1 C = 3780 ϕ = 0 d=128
		3	19		
Hard unbroken pale brown iron-stained SILTSTONE with silty mudstone laminations		4	7'-0"	11	N = 26 for 3" penetration SO ₃ = 0.01
		5			
		6	13'-6"		
Moderately hard, mid grey silty MUDSTONE, less silty at base, with closed vertical joints.					
			22'-0"		
COAL, with bands of soft shaley mudstone.		7	26'-0"		
COAL					
Soft shaley MUDSTONE (seatearth)		8	28'-6"		
			29'-0"		
Hard, mid grey silty MUDSTONE with plant debris and occasional siltstone laminations.		9			
			36'-0"		
Hard, massive pale grey SILTSTONE with wispy carbonaceous and silty mudstone laminations at base.		10			
			43'-6"		
Siltstone laminations		11			

CONTINUED ON SHEET NO. 2

ASTON - SHEFFIELD - LEEDS MOTORWAY
DODWORTH TO LEEDS

Description	Legend	Sample	Depth	m "	Test Results & Notes
Continued from Sheet No. 1					
Hard unbroken mid grey very silty MUDSTONE.					
		12			
Coal bands					
Hard massive SANDSTONE, with silty mudstone laminations at top.			53'0"		
		13			
Moderately hard, very silty MUDSTONE			60'0" 61'0"		
END OF BOREHOLE					
18.59					
OBSERVATION OF WATER LEVELS IN BOREHOLE.					
Date	Time	Depth of BH	Depth of Casing	Depth to Water	
20/11	08.00	8'6"	8'6"	3'0"	
22/11	08.00	21'0"	8'6"	16'0"	
23/11	08.00	51'0"	8'6"	17'6"	
Water added to assist drilling.					

SE30NW 423 31671 06433
 ASTON - SHEFFIELD - LEEDS MOTORWAY
 DODWORTH TO LEEDS

WEST RIDING OF YORKSHIRE COUNTY COUNCIL

Tip of Boring. Shell and Auger

Diameter 10"

Date Aug. 1962

Core age 911 + 10

British Geological Survey

Ground Level 495.9 ft
 Level 480.4 ft

Cut 1 ft

British Geological Survey

DODWORTH CUT

Description	Depth	Sample	Depth	Test Results & Notes
TOPSOIL	Ground Level		0'0"	
small coal fragments.		1	0'6"	12
Grey silty mudstone and iron-stained siltstone fragments in a matrix of silty CLAY of variable stiffness. (FILL).		2		18 C=1330 $\phi=7$ d=113
broken coal.		3		7 CI OMC=9 D=121
Brown SANDSTONE		4	9'6" 10'6"	CBR= 85 SG=2.54
			3'20"	
			END OF BOREHOLE	
				Borehole dry throughout boring.

SE30NW 424 31583 06484
 ASTON -- SHEFFIELD -- LEEDS MOTORWAY
 DODWORTH TO LEEDS

WEST RIDING OF YORKSHIRE COUNTY COUNCIL

Top of Boring Shell and Auger

8"

Date Aug. 1962

British Geological Survey 914 + 20

British Geological Survey 481.6

British Geological Survey

LANE SIDE FILL

For Ref. to Notes

TOPSOIL

Very soft becoming soft
 (weathered) mottled grey brown
 silty MUDSTONE with siltstone
 and carbonaceous mudstone bands.

Moderately hard grey ironstained
 silty MUDSTONE.



1

1'0"

2

10

Cl C = 3290 ϕ = 0 d = 134

3

19

4

7'0"

10

Cl

8'0"

2.44

END OF BOREHOLE

Borehole dry throughout
 boring.

Location No 1933

LOG FOR BOREHOLE R 240

SE30NW 425 31495 06547
ASTON - SHEFFIELD - LEEDS MOTORWAY
DODWORTH TO LEEDS

WEST RIDING OF YORKSHIRE COUNTY COUNCIL

Type of Boring Shell and Auger

Diameter 8"

Date Aug. 1962

Storage 917 + 90

Ground level 477.3

5

ft

ft

HIGHAM CUT

Description	Depth	Interval	Test Results & Notes
Dark grey clayey silty TOPSOIL and roots.	1	1'0"	
Stiff grey brown mottled silty CLAY.	2	23	CH C = 3170 ϕ = 0 d=126
Soft (weathered) grey ironstained silty MUDSTONE.	3	20	
	4	7	CL
		8	
		2.44	
END OF BOREHOLE			Borehole dry throughout boring.

SE30NW

S44

316S 0622

British Geological Survey

FWS CONSULTANTS

British Geological Survey

TRIAL PIT LOG

SITE:	ADJACENT TO JUNCTION 37, M1	TRIAL PIT NO:	50
CLIENT:	Sterling Capitol plc	DATE:	9 September 1998
EXCAVATION PLANT:	JCB 3CX	LOGGED BY:	B Underwood

DEPTH (m)	THICKNESS (m)	DESCRIPTION
0.15	0.15	DISTURBED GROUND: friable/stiff, brown silty clay topsoil containing straw
0.85	0.70	Stiff/friable, grey/orange-brown very gravelly sandy CLAY containing sandstone gravels and cobbles
1.25	0.40	Weak, black COAL (highly weathered bedrock)
1.50	0.25	Very stiff/friable, grey/grey-brown silty CLAY

NOTES:

- 1 Trial pit dry.
- 2 No marked odours or visible oily discolouration.
- 3 Sidewalls stable.

SAMPLES:

TP50/1	0.00 - 0.15	topsoil
TP50/2	0.15 - 0.85	gravelly sandy clay



Appendix F Notes on Limitations



General

JPG (Leeds) Ltd have prepared this report solely for the use 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 JPG (Leeds) Ltd; a charge may be levied against such approval.

JPG (Leeds) Ltd accepts no responsibility or liability for:

- a) the consequences of this document being used for any purpose or project other than for which it was commissioned, and
- b) this document to any third party with whom an agreement has not been executed.

Phase I Desk Study Reports

The work undertaken to provide the basis of this report comprised a study of available documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the site and meetings and discussions with relevant authorities and other interested parties. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only to the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, JPG (Leeds) Ltd reserves the right to review such information and, if warranted, to modify the opinions accordingly.

It should be noted that any risks identified in this report are perceived risks based on the information reviewed; actual risks can only be assessed following a physical investigation of the site.

Phase II Geo-Environmental Investigations

The investigation of the site has been carried out to provide sufficient information concerning the type and degree of contamination, geotechnical characteristics and ground and groundwater conditions to allow a reasonable assessment of the environmental risks together with engineering and development implications. The objectives of the investigation have been Ltd to establishing the risks associated with potential human targets, building materials, the environment (including adjacent land), and to surface and groundwater.

The amount of exploratory work and chemical testing undertaken has necessarily been restricted by the short timescale available, and the locations of exploratory holes have been restricted to the areas unoccupied by the building(s) on the site and by buried services. A more comprehensive investigation may be required if the site is to be redeveloped as, in addition to risk assessment, a number of important engineering and environmental issues may need to be resolved.

For these reasons if costs have been included in relation to site remediation these must be considered as tentative only and must, in any event, be confirmed by a qualified quantity surveyor.

The exploratory holes undertaken, which investigate only a small volume of the ground in relation to the size of the site can only provide a general indication of site conditions. The opinions provided and recommendations given in this report are based on the ground conditions apparent at the site of each of the exploratory holes. There may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this report.

The comments made on groundwater conditions are based on observations made at the time that site work was carried out. It should be noted that groundwater levels will vary owing to seasonal, tidal and weather-related effects.

The number of sampling points and the methods of sampling and testing do not preclude the existence of localised "hotspots" of contamination where concentrations may be significantly higher than those actually encountered.

The risk assessment and opinions provided, inter alia, take in to consideration currently available guidance values relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values.

The scope of the investigation was selected on the basis of the specific development proposed by the Client and may be inappropriate to another form of development or scheme.

5 John Charles Way
LEEDS
LS12 6QA

Tel: 0113 263 1155
admin@jpg.group
www.jpg.group

