



COAL MINING RISK ASSESSMENT AND COAL RECOVERY REPORT

Plot 2 Birdwell Rockingham, Barnsley

Reference

5419-JPG-SW-XX-RP-G-0602-S2-P02

Date

February 2021

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JPG. Rockingham, Plot 2, Birdwell, Barnsley. Rockingham OCCS Abandonment Plan Overlay - Composite. Drawing no. 5419-JPG-SW-00-DR-G-0001 S2 P01. Dated 28 January 2021.

JPG. Rockingham, Plot 2, Birdwell, Barnsley. Rockingham OCCS Abandonment Plan Overlay - Dunsil (AU). Drawing no. 5419-JPG-SW-00-DR-G-0002 S2 P01. Dated 28 January 2021.

JPG. Rockingham, Plot 2, Birdwell, Barnsley. Rockingham OCCS Abandonment Plan Overlay - Swallow Wood Rider. Drawing no. 5419-JPG-SW-00-DR-G-0003 S2 P01. Dated 28 January 2021.

JPG. Rockingham, Plot 2, Birdwell, Barnsley. Rockingham OCCS Abandonment Plan Overlay - Swallow Wood. Drawing no. 5419-JPG-SW-00-DR-G-0004 S2 P01. Dated 28 January 2021.

JPG. Rockingham, Plot 2, Birdwell, Barnsley. Rockingham OCCS Abandonment Plan Overlay - Unnamed 3 (1AQ). Drawing no. 5419-JPG-SW-00-DR-G-0005 S2 P01. Dated 28 January 2021.

JPG. Rockingham, Plot 2, Birdwell, Barnsley. Rockingham Colliery Abandonment Plan Overlay - Lidgett Seam. Drawing no. 5419-JPG-SW-00-DR-G-0006 S2 P01. Dated 28 January 2021.

JPG. Rockingham, Plot 2, Birdwell, Barnsley. Geotechnical Constraints Plan. Drawing no. 5419-JPG-SW-00-DR-G-0007 S2 P01. Dated 29 January 2021.

The Harris Group. Proposed Industrial Development, Dearne Valley Parkway, Barnsley. Proposed Detailed Site Plan 1. Drawing no. 15315-114. Dated February 2021. Last revised 25 March 2021 (D).

The Harris Group. Proposed Industrial Development, Dearne Valley Parkway, Barnsley. Proposed Detailed Site Plan 1. Drawing no. 15315-115. Dated February 2021. Last revised 25 March 2021 (D).

Appendix B Coal Authority CON29M & Consultants Coal Mining Reports



DOCUMENT HISTORY

Rev	Date	Revision Details	Status	Author(s)	Approved
P01	16.02.2021	First Issue	Information	JBW	GH
P02	26.03.2021	For planning	Information	JBW	GH



1.0 APPLICATION

Gregory Projects Limited is to submit a planning application for a proposed industrial development at Plot 2 Birdwell, Rockingham, Barnsley.

JPG (Leeds) Ltd has been commissioned to prepare a Coal Mining Risk Assessment Report for the proposed development site, in order to provide the Local Planning Authority with information on coal mining and an assessment of its impact on land stability.

1.1 Site Location and Description

The site is located approximately 500m to the north east of Junction 36 of the M1 motorway and immediately to the south of the A6195 (Dearne Valley Parkway), to the north of Hoyland Common and approximately 1.5km to the south of Birdwell village centre. The approximate centre of the site is located at NGR 435280, 400720.

A site location plan is given as Figure 1 in Appendix A.

The site is roughly rectangular in shape with an area of approximately 4.08ha.

Access to the site is from a recently constructed roundabout that abuts the south west. A low-lying earthbund to prevent vehicular access onto the site is present in this location.

The site comprises a large field with no evidence of any above ground buildings or structures. The site surface is generally formed by undeveloped, undulating scrubland with a wooded area adjacent to the southern boundary.

Ground levels generally fall from the south to the north, with levels at approximately 139m AOD in the south and 133m AOD in the north.

A drainage channel crosses the north of the site, with flow from west to east. This drainage channel discharges to a pond via a culvert beyond the site's eastern boundary. A further drainage channel extends from the southern boundary before bifurcating in the centre of the site, with one channel extending to the north east and the other to the north west. At the time of the walkover inspection, the drainage channels contained water, but flow direction was not noticeable.

The north-western boundary is formed by the A6195 (Dearne Valley Parkway), a dual carriageway. A wooded area is present beyond the north-eastern boundary, and an industrial estate including vehicle dismantlers is present beyond the wooded area to the south of the site. The site boundaries are generally formed by timber post and rail fences.

An aerial photograph of the site is presented as Figure 2.



1.2 Description and Layout of Proposed Development

It is proposed to develop the site with three industrial units, service yards, car parking and associated access roads.

Plans of the proposed development have been provided. These are referenced below, and copies are contained in Appendix A.

- The Harris Group. Proposed Industrial Development, Dearne Valley Parkway, Barnsley. Proposed Detailed Site Plan 1. Drawing no. 15315-114. Dated February 2021. Last revised 25 March 2021 (D).
- The Harris Group. Proposed Industrial Development, Dearne Valley Parkway, Barnsley. Proposed Detailed Site Plan 1. Drawing no. 15315-115. Dated February 2021. Last revised 25 March 2021 (D).

1.3 Scope of the Coal Mining Risk Assessment

The purpose of the 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 cumulative impact of issues.
- Set out appropriate mitigation measures to address the coal mining legacy issues affecting the site, including any necessary remedial works and/or demonstrate how coal mining issues have influenced the proposed development.
- Demonstrate to the Local Planning Authority that the application site is, or can be made, safe and stable to meet the requirements of national planning policy with regard to development on unstable land.



2.0 SOURCES OF INFORMATION USED TO INFORM THIS REPORT

Sources of information upon which this risk assessment of coal mining is based are detailed below.

- JPG. Geoenvironmental Desk Study Report. Plot 2 Birdwell, Rockingham, Barnsley. Ref 5419-JPG-SW-XX-RP-G-0602-P01. Date of issue February 2021.
- WSP. Phase 1 Ground Conditions Report. Land at Rockingham, Barnsley. Report ref. 70019822-001, dated March 2016, for HCA.
- WSP. Phase 2 Ground Conditions Report. Plot 2. Land at Rockingham, Barnsley. Report ref. 70018922-1602, dated October 2016, for HCA.
- Abbeydale Building Environment Consultants. Desk Study Report. HCA Land Plot 2, Birdwell, West Yorkshire. Report ref. 151066DS, dated January 2017, for Environment & Transport, Barnsley Council.
- Abbeydale Building Environment Consultants. Ground Investigation Report. Hoyland North, Barnsley, South Yorkshire. Report ref. 151087GI, dated September 2019, for Environment & Transport, Barnsley Council.
- The Coal Authority. CON29M Coal Mining Report. Birdwell, Plot 2, Dearne Valley Parkway, South Yorkshire. Ref 51002346941001. Date of issue 15 January 2021. (See Appendix B).
- The Coal Authority. Consultants Coal Mining Report. The Symphony Group, Park Spring Road, Grimethorpe, Barnsley S72 7EZ. Ref 51002346941002. Date of issue 15 January 2021. (See Appendix B).
- The Coal Authority. Rockingham Completion Plan 82/CP-1, CP-3. Coal Authority Catalogue No. 17828 Sheets 1-7 issued February 1998; Rockingham Completion Plan 44/3400. Coal Authority Catalogue Sheet No. NE851, dated August 1980.
- British Geological Survey, Sheet 87 (Barnsley) at 1:50,000 Scale, Solid and Drift Edition, dated 1976.
- British Geological Survey, Sheet SE40NW (Grimethorpe), at 1:10,000 Scale, dated 2005.
- Sections of Strata of the Coal Measures of Yorkshire (3rd edition, 1950).
- CIRIA Special Publication 32. Technical Guide 34. Construction Over Abandoned Mine Workings. Dated 1984.
- CIRIA C758D Abandoned mine workings manual. London, 2019.

The Abbeydale desk study report includes additional parcels of land to the south west and also includes as an appendix a coal mining assessment report carried out by South Yorkshire Mining Advisory Services (SYMAS), referenced PJ/M3687/5 and dated 16 August 2013. The Abbeydale ground investigation report targets the footprint of a proposed highway, part of which crosses the south of the site.

Pertinent information contained within the reports referenced above has been incorporated into this assessment, where appropriate.



3.0 IDENTIFICATION AND ASSESSMENT OF SITE-SPECIFIC COAL MINING

Coal Mining Issue	Yes	No	Remarks
Surface mining (opencast workings)	X		The Coal Authority (CA) CON29M report states that: 'The property is within the boundary of the Rockingham opencast site from which coal has been removed by opencast methods.' The abandonment plans obtained from the CA confirm opencast workings in the following coal seams: the Dunsil, the Swallow Wood Rider, the Swallow Wood and an unnamed coal seam referenced 1AQ, The completion plan indicates that the opencast backfill to the coal workings was compacted. The opencast coal mining occurred on the site between January 1991 and October 1995, with the completion plan issued in February 1998. The extent of the former opencast coal site and associated highwall is shown on the geotechnical constraints plan, JPG Drawing no. 5419-JPG-SW-00-DR-G-0007, included in Appendix B. Ground modelling of the available coal mining data by extraction of level information contained on digitised completion plans carried out by JPG indicates backfill depths of between approximately 7m in the west increasing to approximately 27m in the east. Boreholes carried out as part of the 2016 WSP ground investigation confirmed the base of the colliery spoil made ground to be between 13.60m and 23.50m bgl, in line with that predicted by the modelling. Where backfilled opencast is present below the development, there is a risk of undue settlement. In addition, where the highwall of the opencast is present, there is a risk of differential settlement, and also coal workings extending below the highwall. Mitigation measures are set out in Section 4.0.
Underground coal mining.	X		The CON29M report states that: 'The property is in a surface area that could be affected by underground mining in eight seams of coal at 80m to 340m depth, and last worked in 1953. Any movement in the ground due to coal mining activity associated with these workings should have stopped by now.' The shallowest recorded underground coal workings are in the Lidgett coal seam associated with Rockingham Colliery, present below the base of the opencast in the southern third of the site. These workings are at a recorded depth of 75m bgl with an extraction thickness of 0.66m and last worked in 1942 according to the CA's Consultant Report. At this depth and coal seam thickness, the recorded workings are not considered to have the potential to affect the surface stability of the site. The presence of unrecorded, underground coal workings between the base of the opencast and the Lidgett is considered to be very low due to the presence of the Haigh Moor Rock, a significant sandstone unit. The risk of underground coal mining, both recorded and unrecorded, affecting the surface stability of the site has therefore been assessed as very low. Therefore, no mitigation with regard to underground coal workings is required.
Mine entries (shafts and adits)		X	There are no recorded mine entries on the site or within 100m of the site boundary according to the CON29 report and CA Consultants Report. The potential for unrecorded mine entries is considered very low as they would have been recorded at the time of open casting. Therefore, no mitigation with regard to recorded or unrecorded mine entries is required.



Coal Mining Issue	Yes	No	Remarks
Coal mining geology (faults and fissures)		X	The CA Consultants Report indicates 'No faults, fissures or break lines recorded'. However, faults are indicated on the abandonment plans for the Lidgett coal seam and the unnamed coal seam referenced 1AQ. The CA CON29M report states that: '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.' No mitigation regarding known geological faulting below the site is required.
Record of past mine gas emissions or potential		X	The CA CON29M report states that: 'The Coal Authority has no record of a mine gas emission requiring action.' Potential sources of ground gas include deep made ground soils associated with the backfilled opencast coal site and underground coal workings. The previous 2016 WSP geoenvironmental report identified elevated ground gases (carbon dioxide and methane) on the site, corresponding to Characteristic Situation 3 – moderate risk. As part of the Stage 2 ground investigation, ground gas monitoring and a ground gas risk assessment will be required. Mitigation measures (ground gas protection) for the proposed development will be dependent on the ground gas risk assessment.
Recorded coal mining surface hazard		X	The CA CON29M report states that: '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.' '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.'



4.0 MITIGATION STRATEGY PROPOSED

4.1 Settlement of Opencast Backfill Below the Development

A robust geotechnical solution is required for development over the infilled opencast coal workings. Further geotechnical ground investigation is required to confirm geotechnical parameters.

In addition, in order to assess the viability of the proposed development, an assessment should be made of the long-term self-weight settlement characteristics of the opencast backfill.

4.2 Underground Coal Workings

No mitigation regarding recorded underground coal workings is required, as long as development does not occur over/beyond the highwall of the former opencast coal site. Should development be proposed over/beyond the highwall, further mining investigation and assessment may be required.

4.3 Mine Entries

There are no recorded mine entries below the site which could affect the surface stability of the future development.

The risk from unrecorded mine entries, including bell pits, is considered to be very low. If a suspected mine entry is encountered, advice should be sought from a suitably qualified person.

4.4 Ground Gas

As part of the Phase 2 geoenvironmental ground investigation, ground gas monitoring and a ground gas risk assessment will be required. Mitigation measures (ground gas protection) will be dependent on the results of the ground gas risk assessment.



5.0 COAL RECOVERY

It is not considered that significant quantities of coal will be encountered during any earthworks operation as part of the future development. In addition, most coal has already been extracted from below the site by opencast means.

However, if any significant quantities are proven during the works on site, and should it be deemed viable to extract the coal and remove it from site for its economic value, a 'Incidental Coal Agreement' between the Coal Authority and the Site Operator will be required. A report detailing the extraction of coal and any historical mine workings encountered will need to be submitted to the Coal Authority on completion of any extraction.

6.0 CONCLUSION

Following implementation of the above mitigation methods regarding the site's coal mining legacy, the site will be suitable for the construction of the proposed industrial development.

It is not considered that significant quantities of coal will be encountered during any earthworks operation as part of the future development.

JB Wilson
BEng (Hons) CSci
For and on behalf of JPG (Leeds) Limited

February 2021



Appendix A Figures and Drawings

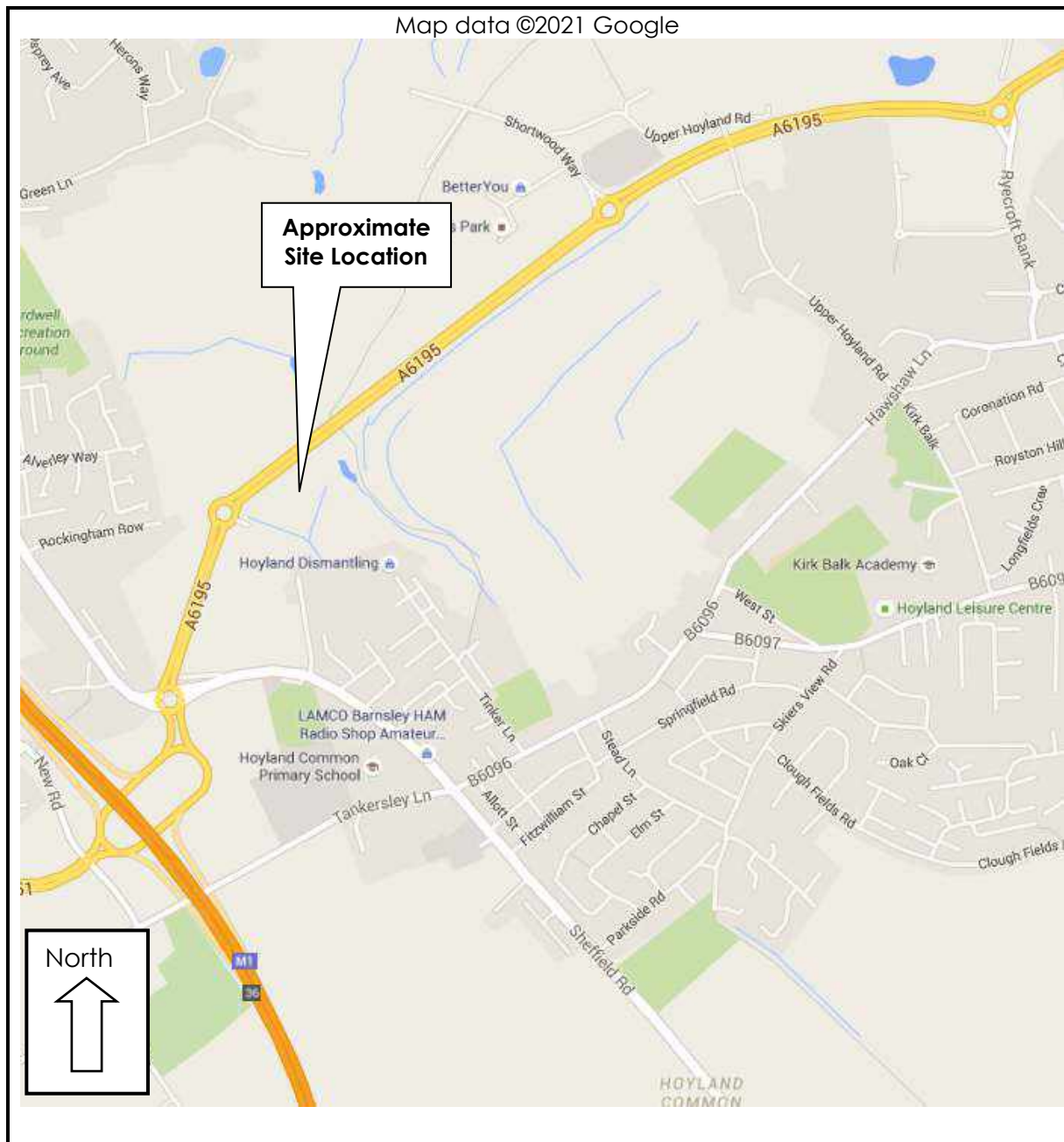


Figure 1 – Site Location Plan

Site	Plot 2 Birdwell, Rockingham, Barnsley
Client	Gregory Projects Limited
Job Number	5419
Scale	NTS

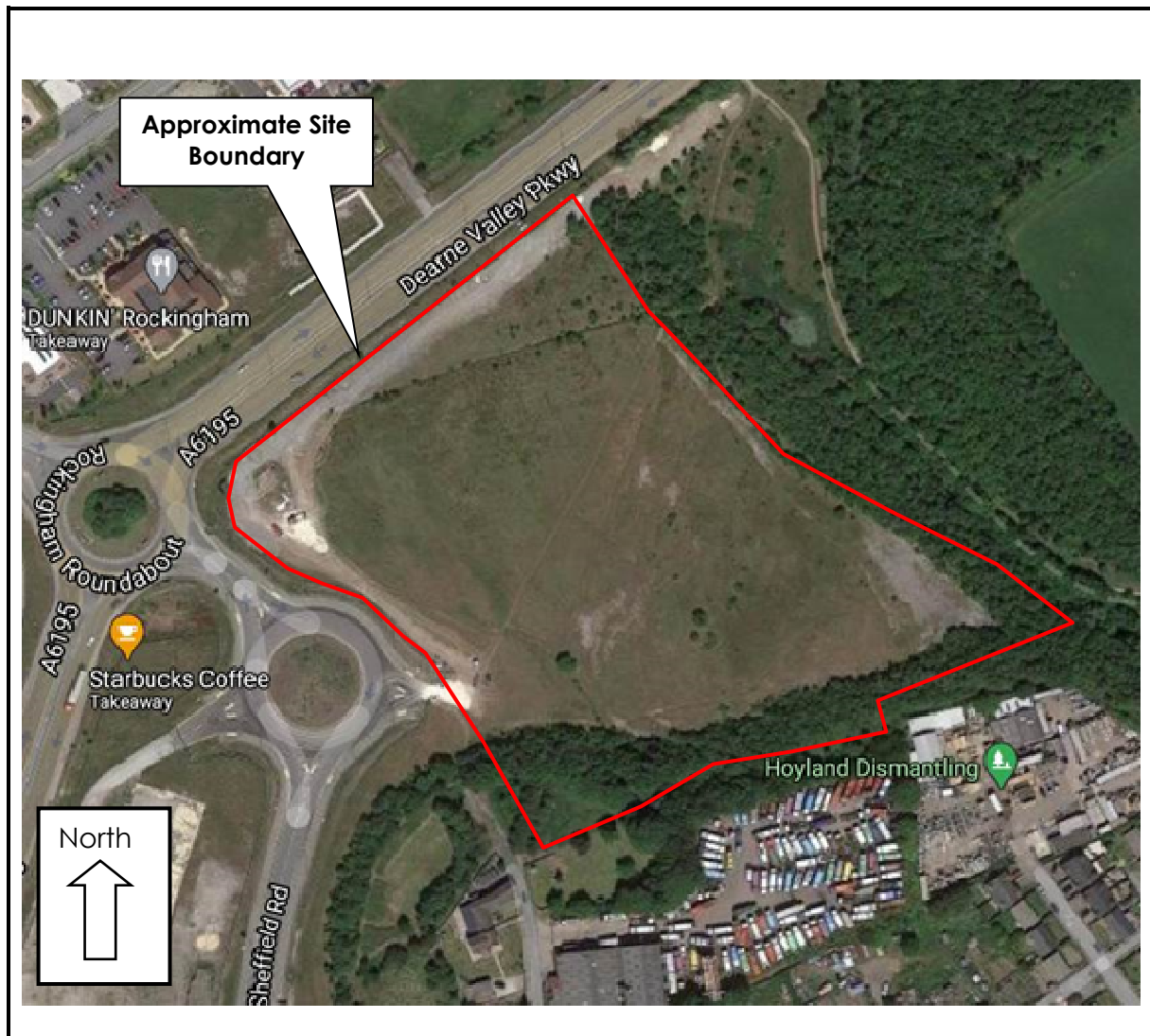
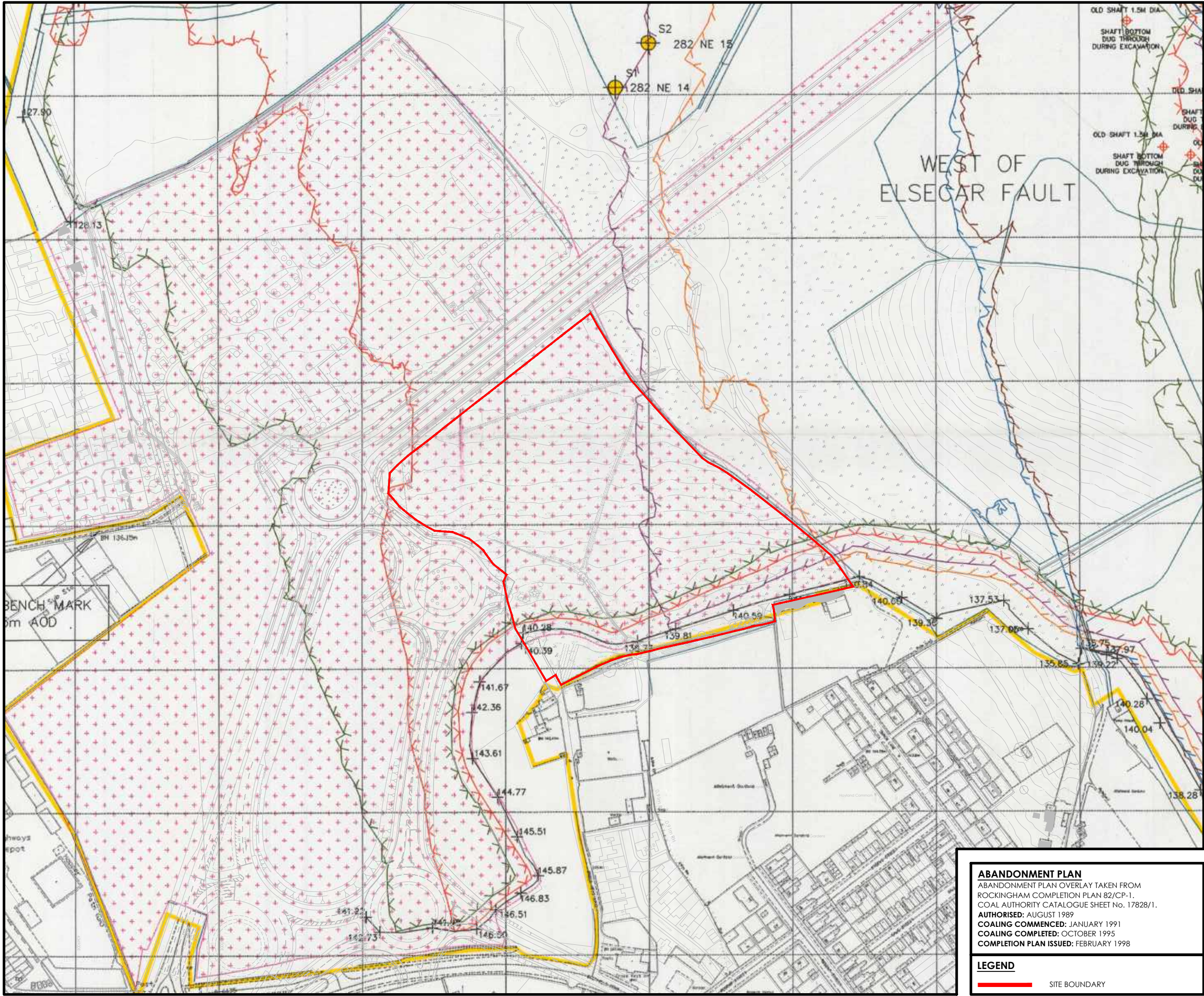


Figure 2 – Aerial Photograph

Site	Plot 2 Birdwell, Rockingham, Barnsley
Client	Gregory Projects Limited
Job Number	5419
Scale	NTS



DO NOT SCALE (A3)

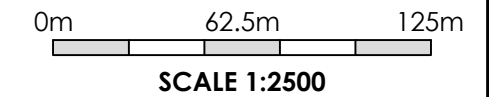
NOTES

Legend

- SITE BOUNDARY
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
Refer to Shaft Register
- OLD SHAFT (DUG THROUGH DURING EXCAVATION)
- POSITION OF KNOWN OR SUSPECTED ADT
Refer to Shaft Register
- FAULT (Arrow in Metres)
- OLD WORKINGS (Seam Colour)
- AREA OF COMPACTION (AT SURFACE)
Consulting Engineers - Mott MacDonald
- BOTTOM COAL CONTOUR (Seam Colour)
- L.P.E.
72.70
- LOWEST POINT OF EXCAVATION
- SL 125.8 + 11.5 ORIGINAL GROUND LEVEL (Metres)
- D.C. 124.3 + 11.5 BOTTOM OF COAL LEVEL WITH THICKNESS (Metres)
- SECTION
- ALL LEVELS RELATIVE TO NEWLIN DATUM

**AREA OF SEAM WORKED IN GEOLOGICAL
DESCENDING ORDER**

- BEAUSHAM BB
- HENTS THIN BA
- UNAMED 1AZ
- HENTS THICK AZ11
- UNAMED 1AY
- BARNSELEY RIDER UPPER AY2
- BARNSELEY RIDER LOWER AY1
- BARNSELEY AYX
- DUNSEL RIDER UPPER 2AU
- DUNSEL RIDER LOWER 1AU
- DUNSEL AD
- SHALLOW WOOD RIDER 1AR
- SHALLOW WOOD AR
- UNAMED 1AQ



P01	FIRST ISSUE	28.01.21	JBW	LSG
REV	DESCRIPTION	DATE	CHK	BY

Project
ROCKINGHAM
PLOT 2
BIRDWELL
BARNSELEY

Drawing Title
ROCKINGHAM OCCS ABANDONMENT
PLAN OVERLAY - COMPOSITE

INFORMATION ISSUE

JPG
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ABANDONMENT PLAN
ABANDONMENT PLAN OVERLAY TAKEN FROM
ROCKINGHAM COMPLETION PLAN 82/CP-1.
COAL AUTHORITY CATALOGUE SHEET No. 17828/1.
AUTHORISED: AUGUST 1989
COALING COMMENCED: JANUARY 1991
COALING COMPLETED: OCTOBER 1995
COMPLETION PLAN ISSUED: FEBRUARY 1998

LEGEND

SITE BOUNDARY

DO NOT SCALE (A3)

NOTES

Legend

- SITE BOUNDARY
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
Refer to Shaft Register
- OLD SHAFT DUG THROUGH DURING EXCAVATION
- POSITION OF KNOWN OR SUSPECTED ADIT
Refer to Shaft Register
- FAULT (Throw in Metres)
- OLD WORKINGS (Seam Colour)
- AREA OF COMPACTION (AT SURFACE)
Consulting Engineers - Mott MacDonald
- BOTTOM COAL EXPOSURE (Seam Colour)
- L.P.E.
72.78
- LOWEST POINT OF EXCAVATION
- R.L. 125.4 - X 162 ORIGINAL GROUND LEVEL (Metres)
- R.L. 124.8 - X 612 BOTTOM OF COAL LEVEL WITH THICKNESS (Metres)
- SECTION

ALL LEVELS RELATIVE TO NEWLIN DATUM

AREA OF SEAM WORKED IN GEOLOGICAL
DESCENDING ORDER

- BEAMSHAW BB
- KENTS THIN BA
- UNAMED 1A2
- KENTS THICK A211
- UNAMED 1A1
- BARNESLEY RIDGE UPPER A12
- BARNESLEY RIDGE LOWER A11
- BARNESLEY AXX
- DUNSL RIGER UPPER 2AU
- DUNSL RIGER LOWER 1AU
- DUNSL AU
- SWALLOW WOOD RIDER 1AR
- SWALLOW WOOD AR
- UNAMED 1A3

0m 62.5m 125m

SCALE 1:2500

P01	FIRST ISSUE	28.01.21	JBW	LSG
REV	DESCRIPTION	DATE	CHK	BY

Project
ROCKINGHAM
PLOT 2
BIRDWELL
BARNSELY

Drawing Title
ROCKINGHAM OCCS ABANDONMENT
PLAN OVERLAY - DUNSIL (AU)

INFORMATION ISSUE

JPG

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5419-JPG-SW-00-DR-G-0002

S2

P01

DUNSIL (AU)

TOP LEAF 0.33m

PARTING 0.35m

BOTTOM LEAF 0.20m

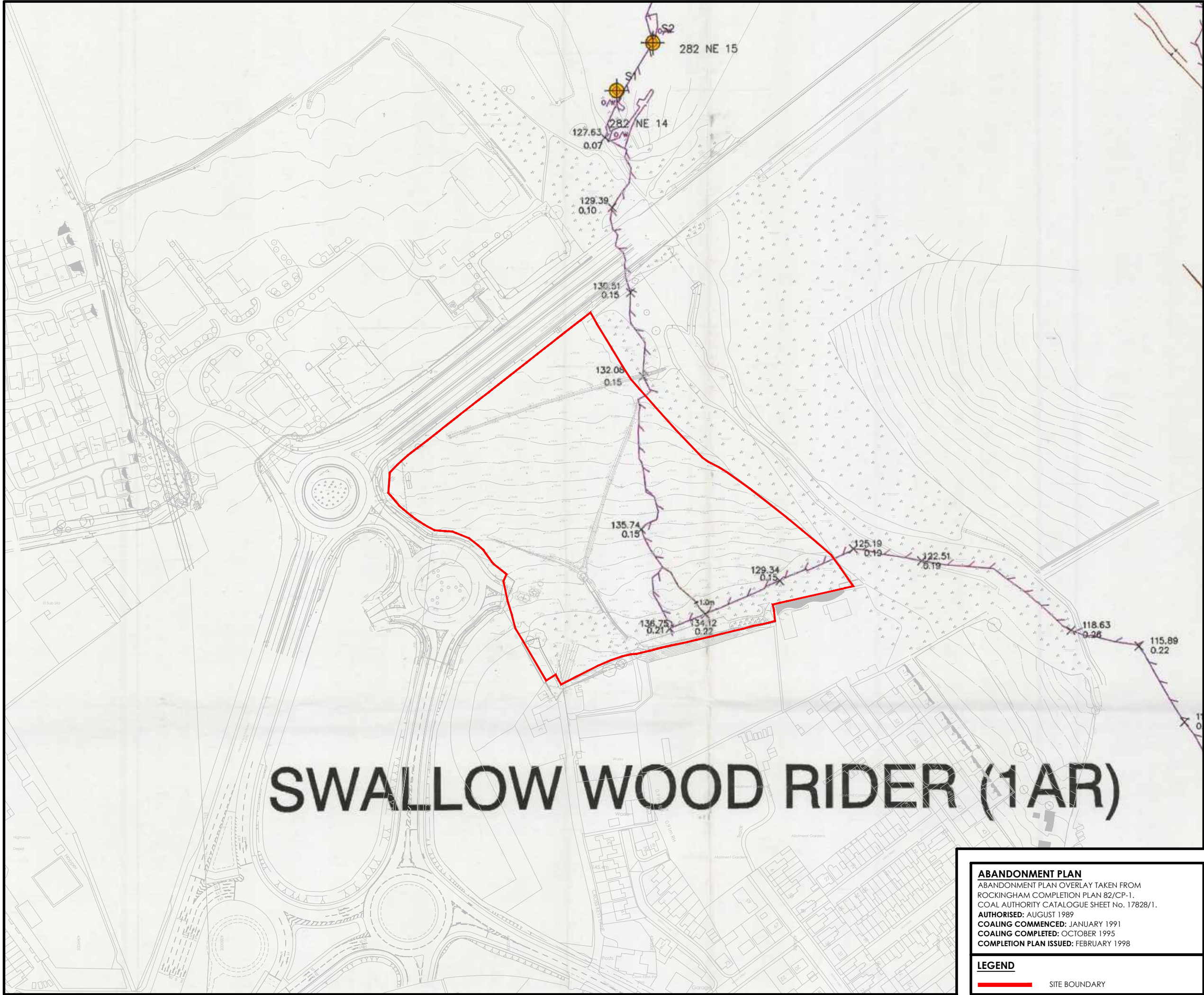
N.B BOTTOM LEAF THICKNESSES SHOWN

ABANDONMENT PLAN

ABANDONMENT PLAN OVERLAY TAKEN FROM
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COAL AUTHORITY CATALOGUE SHEET No. 17828/3.
AUTHORISED: AUGUST 1989
COALING COMMENCED: JANUARY 1991
COALING COMPLETED: OCTOBER 1995
COMPLETION PLAN ISSUED: FEBRUARY 1998

LEGEND

SITE BOUNDARY



SWALLOW WOOD RIDER (1AR)

ABANDONMENT PLAN

ABANDONMENT PLAN OVERLAY TAKEN FROM
ROCKINGHAM COMPLETION PLAN 82/CP-1.
COAL AUTHORITY CATALOGUE SHEET No. 17828/1.
AUTHORISED: AUGUST 1989
COALING COMMENCED: JANUARY 1991
COALING COMPLETED: OCTOBER 1995
COMPLETION PLAN ISSUED: FEBRUARY 1998

LEGEND

SITE BOUNDARY

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DO NOT SCALE (A3)

NOTES

Legend

- SITE BOUNDARY
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
Refer to Shaft Register
- OLD SHAFT CUI THROUGH SURING EXCAVATION
- POSITION OF KNOWN OR SUSPECTED ADIT
Refer to Shaft Register
- FAULT (Throw in Metres)
- OLD WORKINGS (Seam Colour)
- AREA OF COMPACTION (AT SURFACE)
Consulting Engineers - Mott MacDonald
- BOTTOM COAL CONTOUR (Seam Colour)
- LOWEST POINT OF EXCAVATION

O.L. 128.6 X 118.8 ORIGINAL GROUND LEVEL (Metres)
O.C. 124.3 X 112.8 BOTTOM OF COAL LEVEL WITH THICKNESS (Metres)

SECTION

ALL LEVELS RELATIVE TO NEWLTH DATUM

AREA OF SEAM WORKED IN GEOLOGICAL DESCENDING ORDER

- DEANSHAW RE
- KENTS THIN BA
- UNAMED 1A2
- KENTS THICK A211
- UNAMED 1A7
- BARNSELY RIDER UPPER AY2
- BARNSELY RIDER LOWER AY1
- BARNSELY AVX
- DUNSL RIDER UPPER 2AU
- DUNSL RIDER LOWER 1A2
- DUNSL AU
- SWALLOW WOOD RIDER 1AR
- SWALLOW WOOD AR
- UNAMED 1A3

0m 62.5m 125m

SCALE 1:2500

P01	FIRST ISSUE	28.01.21	JBW	LSG
REV	DESCRIPTION	DATE	CHK	BY

Project
ROCKINGHAM
PLOT 2
BIRDWELL
BARNSELY

Drawing Title
ROCKINGHAM OCCS ABANDONMENT
PLAN OVERLAY - SWALLOW WOOD
RIDER (1AR)

INFORMATION ISSUE

JPG

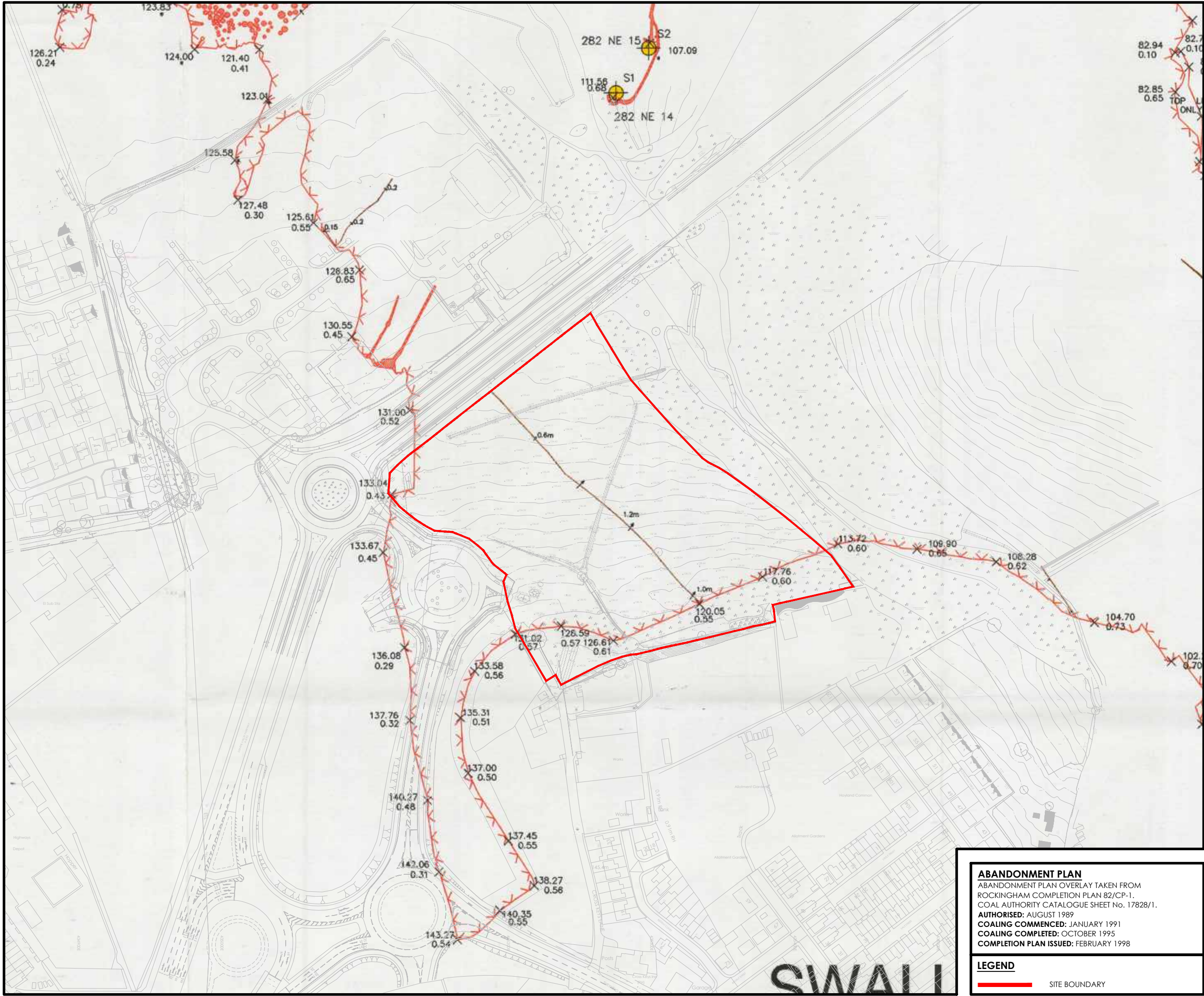
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5419-JPG-SW-00-DR-G-0003

S2

P01



DO NOT SCALE (A3)

NOTES

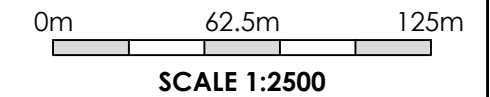
Legend

- SITE BOUNDARY
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
Refer to Shaft Register
- OLD SHAFT DIG THROUGH DURING EXCAVATION
- POSITION OF KNOWN OR SUSPECTED ADIT
Refer to Shaft Register
- FAULT (Throw in Metres)
- OLD WORKINGS (Seam Colour)
- AREA OF COMPACTION (AT SURFACE)
Consulting Engineers - Hill Midland
- BOTTOM COAL CONTOUR (Seam Colour)
- LOWEST POINT OF EXCAVATION

ALL LEVELS RELATIVE TO SEALEY DATUM

AREA OF SEAM WORKED IN GEOLOGICAL DESCENDING ORDER

- BEAMSHAW III
- KENTS THIN BA
- UNNAMED IAT
- KENTS THICK A21
- UNNAMED TAY
- BARNSELY RIDER UPPER AY2
- BARNSELY RIDER LOWER AY1
- BARNSELY AVX
- DUNSL RIDER UPPER 2AU
- DUNSL RIDER LOWER 1AU
- DUNSL AU
- SWALLOW WOOD RIDER IAR
- SWALLOW WOOD AR
- UNNAMED 1AO



P01	FIRST ISSUE	28.01.21	JBW	LSG
REV	DESCRIPTION	DATE	CHK	BY

Project
ROCKINGHAM
PLOT 2
BIRDWELL
BARNSELY

Drawing Title
ROCKINGHAM OCCS ABANDONMENT
PLAN OVERLAY - SWALLOW WOOD (AR)

INFORMATION ISSUE

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LEGEND

SITE BOUNDARY

DO NOT SCALE (A3)

NOTES

Legend

- SITE BOUNDARY
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- POSITION OF KNOWN OR SUSPECTED SHAFT
Refer to Shaft Register
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- POSITION OF KNOWN OR SUSPECTED ADIT
Refer to Shaft Register
- FAULT (Throw in Metres)
- OLD WORKINGS (Seam Colour)
- AREA OF COMPACTION (AT SURFACE)
Consulting Engineers - Mott MacDonald
- BOTTOM COAL CONTOUR (Seam Colour)
- L.F.E.
73.76
- LOWEST POINT OF EXCAVATION
- SL 108.8 x 100 ORIGINAL GROUND LEVEL (Metres)
SL 104.3 x 100 BOTTOM OF COAL LEVEL WITH THICKNESS (Metres)
- SECTION
- ALL LEVELS RELATIVE TO NEWLYN DATUM

AREA OF SEAM WORKED IN GEOLOGICAL
DESCENDING ORDER

- SEANSHAW SB
- KENTS SHIN BA
- UNAMED 1A2
- KENTS THICK AZ1
- UNAMED TAY
- BARNSELY RIDER UPPER AY2
- BARNSELY RIDER LOWER AY1
- BARNSELY AVX
- DUNSL RIDER UPPER 2AU
- DUNSL RIDER LOWER 1AU
- DUNSL AU
- SWALLOW WOOD RIDER 1AR
- SWALLOW WOOD AR
- UNAMED 1AQ

0m 62.5m 125m

SCALE 1:2500

REV	DESCRIPTION	DATE	CHK	BY
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Project
ROCKINGHAM
PLOT 2
BIRDWELL
BARNSELY

Drawing Title
ROCKINGHAM OCCS ABANDONMENT
PLAN OVERLAY - UNNAMED 3 (1AQ)

INFORMATION ISSUE

JPG

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Leeds - 0113 263 1155 | London - 0207 947 4148

5419-JPG-SW-00-DR-G-0005

S2

P01

ABANDONMENT PLAN

ABANDONMENT PLAN OVERLAY TAKEN FROM
ROCKINGHAM COMPLETION PLAN 82/CP-1.
COAL AUTHORITY CATALOGUE SHEET No. 17828/1.
AUTHORISED: AUGUST 1989
COALING COMMENCED: JANUARY 1991
COALING COMPLETED: OCTOBER 1995
COMPLETION PLAN ISSUED: FEBRUARY 1998

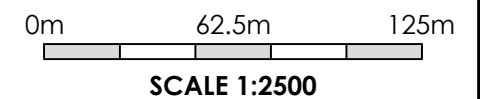
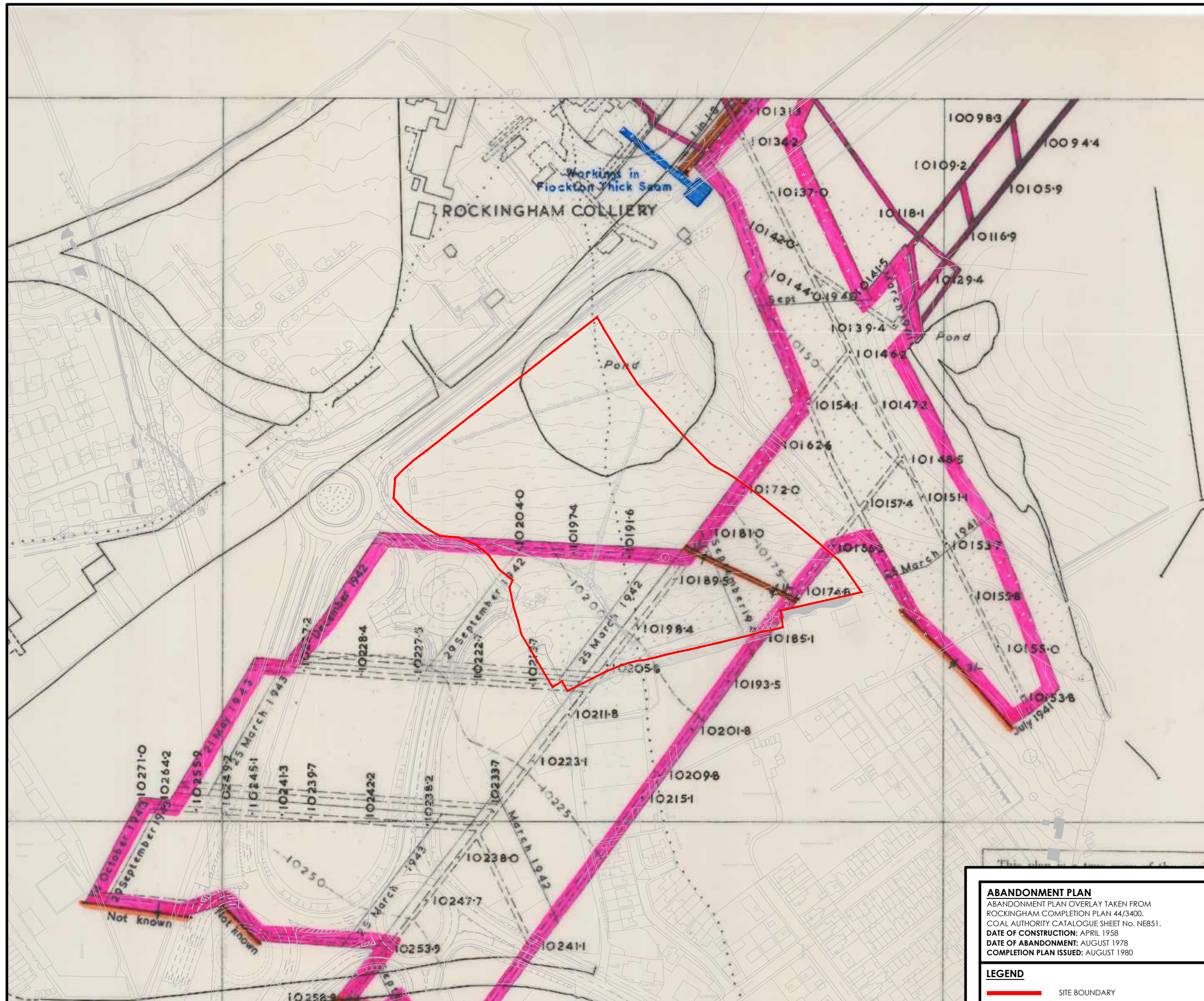
LEGEND

SITE BOUNDARY

UNNAMED

DO NOT SCALE (A3)

NOTES



P01	FIRST ISSUE	28.01.21	JBW	LSG
REV	DESCRIPTION	DATE	CHK	BY

Project
ROCKINGHAM
PLOT 2
BIRDWELL
BARNSELY

Drawing Title
ROCKINGHAM COLLIERY
ABANDONMENT PLAN OVERLAY -
LIDGETT SEAM

INFORMATION ISSUE



Leeds - 0113 263 1155 | London - 0207 947 4148

5419-JPG-SW-00-DR-G-0006 S2 P01

ABANDONMENT PLAN
ABANDONMENT PLAN OVERLAY TAKEN FROM
ROCKINGHAM COMPLETION PLAN 44/3400.
COAL AUTHORITY CATALOGUE SHEET No. NE851.
DATE OF CONSTRUCTION: APRIL 1958
DATE OF ABANDONMENT: AUGUST 1978
COMPLETION PLAN ISSUED: AUGUST 1980

LEGEND
SITE BOUNDARY

DO NOT SCALE (A1)

NOTES

GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP IS TO COMPLY WITH JPG CONSULTANTS STANDARD SPECIFICATION & ALL RELEVANT BRITISH & EUROPEAN STANDARDS.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, M & E CONSULTANTS AND JPG CONSULTANTS DRAWINGS.
- ANY DISCREPANCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO COMMENCEMENT OF WORKS.
- CONJECTURED EXTENTS OF OPENCAST BACKFILL, HIGHWALLS, UNDERGROUND WORKINGS AND FAULTING HAVE BEEN DETERMINED USING LIMITED SITE INVESTIGATION AND HISTORICAL COAL SEAM EXTRACTION PLANS.
- FURTHER SITE INVESTIGATION IS REQUIRED PRIOR TO UNDERTAKING OF EARTHWORKS.

LEGEND

- DENOTES SITE BOUNDARY
- DENOTES EXTENTS OF ROCKINGHAM OCCS TAKEN FROM ROCKINGHAM COMPLETION PLAN B2/CP-1. COAL AUTHORITY CATALOGUE SHEET No. 17828/1.
- DENOTES WORKINGS IN SWALLOW WOOD RECORDED IN ROCKINGHAM COMPLETION PLAN B2/CP-2. COAL AUTHORITY CATALOGUE SHEET No. 17828/2.
- DENOTES CONJECTURED HIGHWALL LOCATION (ARROW INDICATING DIP DIRECTION)
- DENOTES CONJECTURED DEPTH OF MADE GROUND/ OPENCAST BACKFILL (DEPTH FROM TOPOGRAPHIC SURVEY TO BASE OF CONJECTURED OPENCAST)
- DENOTES CONJECTURED FAULTING IN UNNAMED SEAM 3 IAQ (ARROW INDICATING THROW DIRECTION)
- DENOTES CONJECTURED FAULTING IN LIDGETT SEAM (ARROW INDICATING THROW DIRECTION)

WSP SITE INVESTIGATION

AUGUST 2016

- P2CPT01A CONE PENETROMETER TEST
- BH01P2 BOREHOLE
- TP01P2 TRIAL PIT TO AS BUILT DIMENSIONS

ABBEYDALE SITE INVESTIGATION

JUNE 2019

- TP1A TRIAL PIT TO AS BUILT DIMENSIONS

PO1	FIRST ISSUE	29.01.21	JBW	LSG
REV	DESCRIPTION	DATE	CHK	BY

Project
ROCKINGHAM
PLOT 2
BIRDWELL
BARNSELY

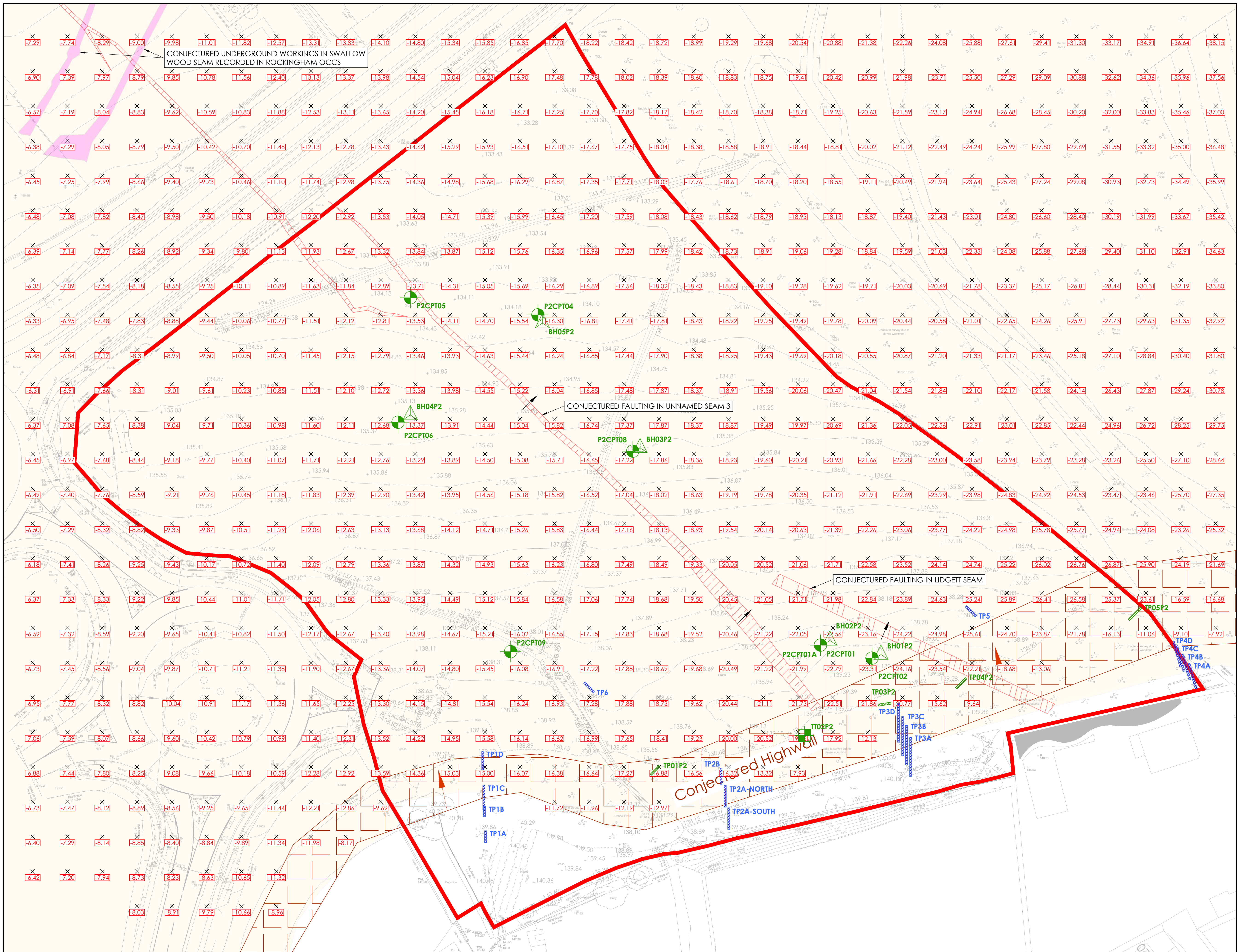
Drawing Title
GEOTECHNICAL CONSTRAINTS PLAN

INFORMATION ISSUE



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Leeds - 0113 263 1155 | London - 0207 947 418

5419-JPG-SW-00-DR-G-0007 S2 PO1



JPG-GEOTECHNICAL CONSTRAINTS PLAN

SCALE 1:500

0m 12.5m 25m
SCALE 1:500



DEARNE VALLEY PARKWAY

DEARNE VALLEY PARKWAY

Unit 1
Total GIA - 37,750 sqft 3,507.1 sqm
Footprint - 35,000 sqft 3,251.6 sqm
Offices @ 1st 2,750 sqft 255.5 sqm

Unit 2
Total GIA - 64,500 sqft 5,992.3 sqm
Footprint - 60,000 sqft 5,574.2 sqm
Offices @ 1st 4,500 sqft 418.1 sqm

Unit 3
Total GIA - 43,000 sqft 3,994.8 sqm
Footprint - 40,000 sqft 3,716.1 sqm
Offices @ 1st 3,000 sqft 278.7 sqm

Note:
Information is based on OS map and received information and is subject to full topographical and building survey.
Assumed site boundary and the constraints subject to confirmation.
All legal easements and extent of existing underground services, locations are subject to confirmation.

0 2.5 5 7.5 10 12.5m
SCALE 1:250

Rev	Date	Description	Rev	Date	Description
1	20.02.21	Office Content amended	NBB	PSM	
2	17.02.21	Landscaping scheme added	NBB	PSM	
3	12.02.21	Car and Bt Gateways	NBB	PSM	
4	04.03.21	Sub station added	NBB	PSM	

Project Title		PROPOSED INDUSTRIAL DEVELOPMENT	
Client		Deane Valley Parkway Barnsley	
Status		PLANNING	
Scale		1:250	
Date		02.2021	
Drawn by		NBB	
Checked		PSM	
Drawing Size		A0	

Drawing No.		15315 - (P)114	
Job-Draw No.		15315 - (P)114	
Client		Gregory Properties	
Status		PLANNING	
Scale		1:250	
Date		02.2021	
Drawn by		NBB	
Checked		PSM	
Drawing Size		A0	

THE HARRIS PARTNERSHIP
ARCHITECTS
101 London Road
Barnsley S10 1JF
T: 0118 707 700
E: info@harrispartnership.co.uk
www.harrispartnership.co.uk



This drawing is a design and not a representation of the actual site. It is for information only and should not be used for any other purpose without the consent of the author.

Note:
Information is based on OS map and received information and is subject to full topographical and building survey.
Assumed site boundary and the constraints subject to confirmation.
All legal agreements and extent of existing underground services, locations are subject to confirmation.

0 2.5 5 7.5 10 12.5m
SCALE 1:250

Rev	Date	Description	Rev	By	Check
1	02/2021	Office Content amended	NBB	PSM	
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4	04/2021	Sub station added	NBB	PSM	

Project Title	PROPOSED INDUSTRIAL DEVELOPMENT
Client	Deane Valley Parkway Barnsley
Status	PLANNING
Scale	1:250
Date	02/2021
Drawn by	NBB
Checked	PSM

Rev	Date	Description	Rev	By	Check
1	02/2021	Office Content amended	NBB	PSM	
2	02/2021	Landscaping scheme added	NBB	PSM	
3	02/2021	Car and Bt Gateways	NBB	PSM	
4	04/2021	Sub station added	NBB	PSM	

15315 - (P)115
THE HARRIS PARTNERSHIP
A R C H I T E C T S



Appendix B Coal Authority CON29M & Consultants Coal Mining Reports



The Coal
Authority

CON29M

coal mining report

BIRDWELL, PLOT 2, DEARNE VALLEY PARKWAY, SOUTH YORKSHIRE



Known or potential coal mining risks

Past underground coal mining	Page 4
Future underground coal mining	Page 4
Mine entries	Page 5
Past opencast coal mining	Page 5



Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit
www.groundstability.com



Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. In view of the coal mining circumstances we would recommend that any planned or future development should follow detailed technical advice before beginning work on site. Please see **page 3** for further details on **Future development**.

Your reference: **5419**
Our reference: **51002346941001**
Date: **15 January 2021**

Client name:
JPG (LEEDS) LIMITED

If you require any further assistance please
contact our experts on:
0345 762 6848
groundstability@coal.gov.uk

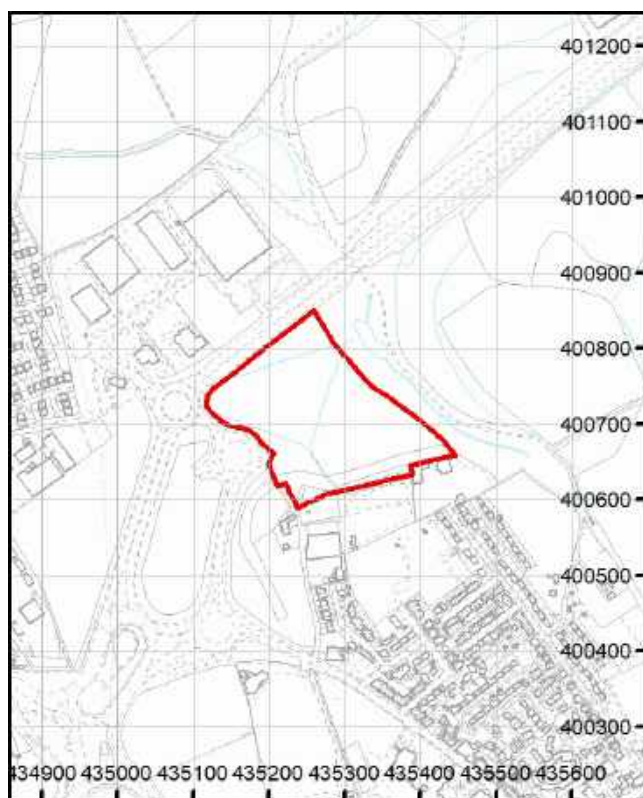


The Law
Society

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is
on the coalfield



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This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.



Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Professional opinion



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. 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.

If you are looking to develop, or undertake works, within a coal mining development high risk area your Local Authority planning department may require a Coal Mining Risk Assessment to be undertaken by a qualified mining geologist or engineer. Should you require any additional information then please contact the Coal Authority on **0345 762 6848** or email **cmra@coal.gov.uk**.

Detailed findings

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.

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.

1 Past underground coal mining

The property is in a surface area that could be affected by underground mining in 8 seams of coal at 80m to 340m depth, and last worked in 1953.

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 Professional opinion sections 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 recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

This information is based on the information that the Coal Authority has at the time of this enquiry.

Based on the Coal Authority's knowledge of the mining circumstances at the time of this enquiry, there may be unrecorded mine entries in the local area that do not appear on Coal Authority records.

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 within the boundary of the Rockingham opencast site from which coal has been removed by opencast methods.

The property is within the boundary of an opencast site from which coal has been removed by opencast methods.

The property is 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.

Statutory cover



Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.

www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form



Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call **01623 646 333**. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary



Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings

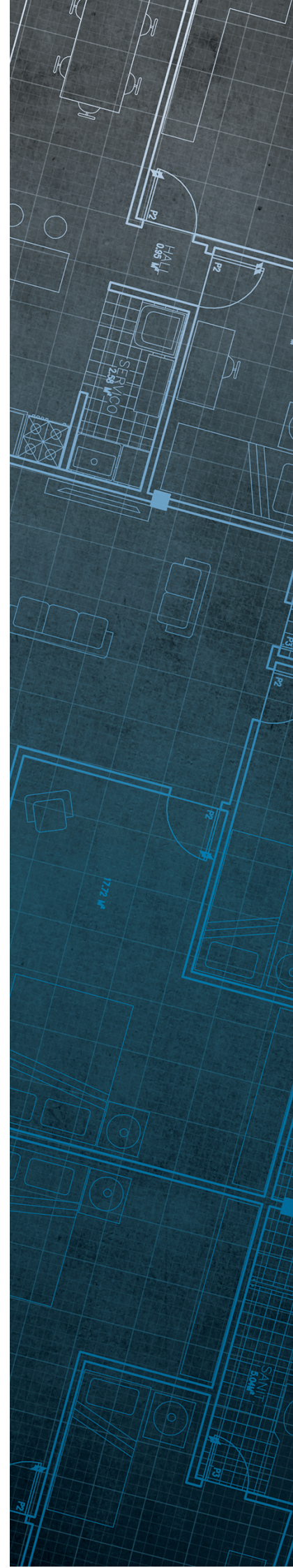


The Coal
Authority

Consultants Coal Mining Report

Birdwell, Plot 2, Dearne Valley
Parkway
South Yorkshire

Date of enquiry:	15 January 2021
Date enquiry received:	15 January 2021
Issue date:	15 January 2021
Our reference:	51002346941002
Your reference:	5419



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

Birdwell, Plot 2, Dearne Valley Parkway
South Yorkshire

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

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Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
ROCKINGHAM	LIDGETT	Coal	64RA	75	Beneath Property	3.8	North-East	66	1942
ROCKINGHAM	FLOCKTON THICK	Coal	64RD	141	Beneath Property	2.9	North-East	104	1951
unnamed	TOP FENTON	Coal	64RG	185	North-West	3.4	North-East	109	1931
unnamed	TOP FENTON	Coal	64RH	191	Beneath Property	3.5	North-East	109	1920
ROCKINGHAM	LOW FENTON	Coal	64RK	195	Beneath Property	3.4	North-East	137	1953
unnamed	PARKGATE	Coal	64RQ	206	North-West	3.7	North-East	147	1890
unnamed	PARKGATE	Coal	64PM	211	Beneath Property	2.3	East	152	1888
unnamed	MIDDLETON MAIN	Coal	64RT	243	Beneath Property	3.7	North-East	102	1904
unnamed	MIDDLETON MAIN	Coal	6IH4	249	North	4.6	North-East	94	1918
UNAMED	SILKSTONE	Coal	64SB	290	Beneath Property	3.5	North-East	180	1918
unnamed	SILKSTONE	Coal	64SI	297	North-West	3.9	North-East	160	1909
unnamed	SILKSTONE	Coal	6IHB	301	North-West	4.7	North-East	147	1903
ROCKINGHAM	SILKSTONE	Coal	6IHA	309	North	3.9	North-East	180	1900
unnamed	WHINMOOR	Coal	64RY	338	South-West	3.8	East	91	1947

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:

NE852	17828	NE274
NE855	NE853	NE856
12953	8805	NE851

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
SWALLOW WOOD	Coal	Yes	Within	N/A	9

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
36.8	North-West

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.

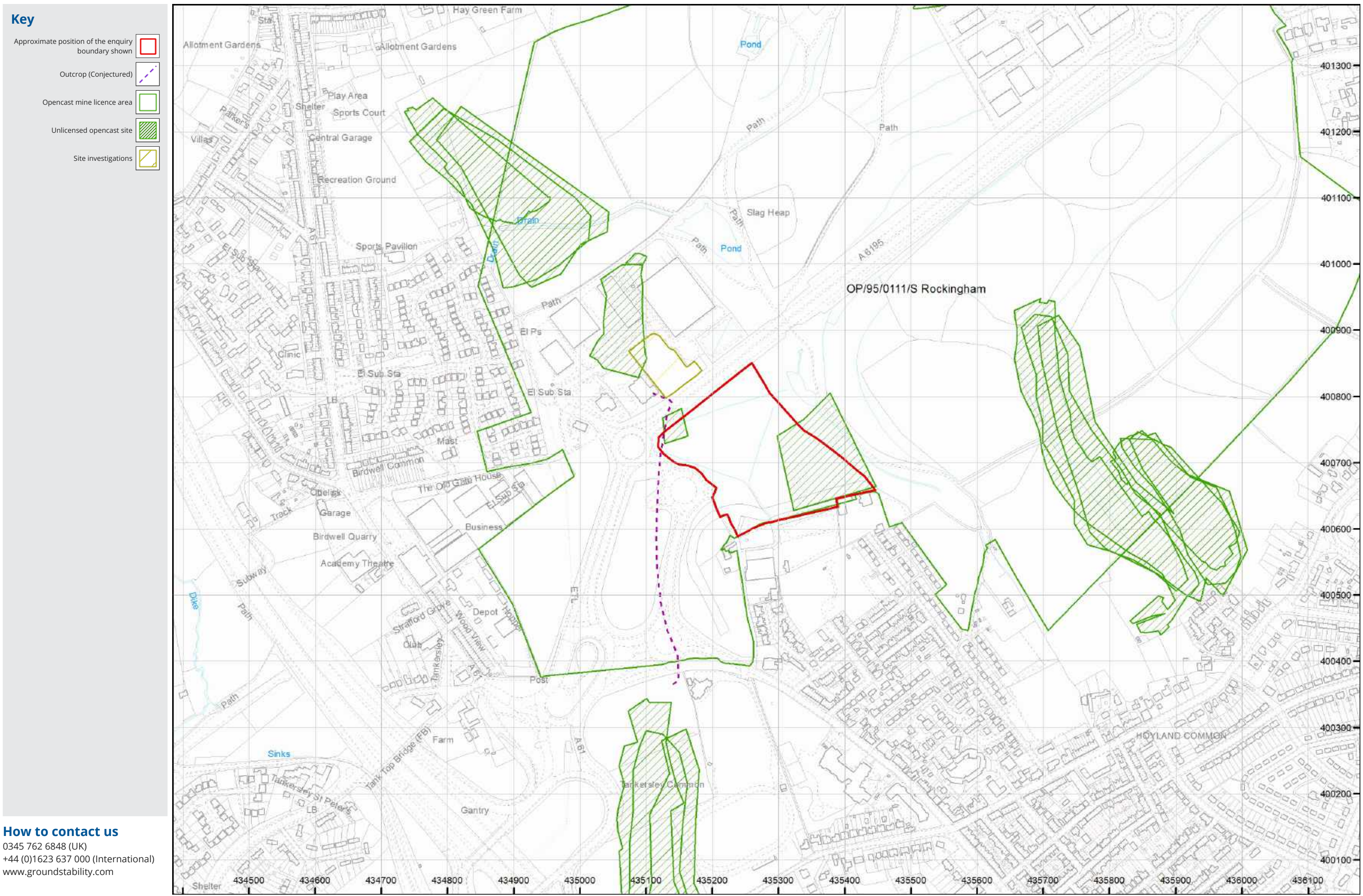
Withdrawal of support notices

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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