

**Environmental  
Geotechnical  
Specialists**



# REPORT

|            |              |
|------------|--------------|
| job number | site address |
| date       |              |
| written by |              |
| checked by | issued by    |

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GEO TECHNICAL  
ENVIRONMENTAL

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## **A REPORT ON A COAL MINING RISK ASSESSMENT**

**at**

**LAND AT HOLMFIELD, CLAYTON WEST, HUDDERSFIELD, HD8 9LZ**

**for**

**MR S. COSGROVE**

**ARCHITECTS: CREATIVE ARCHITECTURE LTD**

**Report No J3596/16/EDS**

**August 2016**

### **1. INTRODUCTION**

It is understood that as part of the planning application for the erection of two detached dwellings at the site, a Coal Mining Risk Assessment has been requested by the planning authority. Consequently, a desktop study was commissioned in order to assess the risk to the development from coal mining. This report presents the findings of the study.

### **2. GEOLOGICAL DESK STUDY**

The geological desk study has been undertaken using the following sources of information.

- British Geological Survey map sheet<sup>1</sup>.
- British Geological Survey *Geology of Britain Viewer*<sup>2</sup>.
- Coal Authority Report<sup>3</sup>.
- British Geological Survey *Borehole Records*<sup>4</sup>.

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<sup>1</sup> Sources: British Geological Survey (NERC) Map Sheet 86; Glossop; Solid and Drift Edition

<sup>2</sup> Sources: British Geological Survey (NERC) *Geology of Britain Viewer* [online resource from [www.bgs.ac.uk](http://www.bgs.ac.uk)]

<sup>3</sup> Coal Authority Reference: 51001227528001 dated 3<sup>rd</sup> August 2016.

<sup>4</sup> Sources: British Geological Survey (NERC) *Borehole Records* [online resource from <http://www.bgs.ac.uk/>]

## 2.1 **British Geological Survey Maps and Viewer**

The appropriate map sheet for the site and the geology viewer has been examined and the following table presents the indicated geology:

**Table 1: Geological Data for the Site**

| Strata Type         | Strata Name                                       | Previous Name <sup>5</sup>    | Description <sup>5</sup>                                                                                                                                                                       |
|---------------------|---------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Superficial Geology | None indicated on BGS records.                    |                               |                                                                                                                                                                                                |
|                     | Pennine Lower Coal Measures Formation (sandstone) | Lower Coal Measures Formation | Interbedded grey mudstone, siltstone and pale grey sandstone, commonly with mudstones containing marine fossils in the lower part, and more numerous and thicker coal seams in the upper part. |

It should be appreciated that an unnamed sandstone member of the Pennine Lower Coal Measures is anticipated to be present below the site. This strata is anticipated to prograde down into undifferentiated mudstones, siltstones and sandstones.

There are no dip indicators relevant to the site (i.e within the same faulted block) shown on the geological map. However, taking into account the outcrop patterns and the topography of the area, it may be anticipated that the solid geology within the local area dips shallowly to the south-east.

There are three coal seams within the vicinity of the site. These coal seams are summarised as follows:

**Table 2: Summary of coal seams within the vicinity of the site.**

| Seam Name                                                        | Seam thickness <sup>5*</sup> | Outcrop distance from site <sup>5</sup> |
|------------------------------------------------------------------|------------------------------|-----------------------------------------|
| Whinmoor Coal (Cumberworth Thick) & Black Bed (Shertcliffe Coal) | 1.30m<br>0.30m – 0.80m       | 280m NW                                 |
| Top Lousey Coal (Low Silkstone)                                  | 0.33m <sup>6</sup>           | 150m NW                                 |
| Blocking (Silkstone) Coal                                        | 0.10m – 1.20m                | 140m SE                                 |

\*All distances are given as approximations only. It should be noted that coal seam thicknesses vary over relatively short distances

The geological data for the surrounding area suggests that the Whinmoor Coal and the Black Bed Coal is shown to outcrop 280m to the north-west of the site. These seams are shown as the same coal band on the map, and therefore it may be assumed that due to decompression of the stratigraphical sequence these seams have converged. Taking the above into consideration, the true thickness of this coal sequence is unknown. However, a maximum thickness of 2.10m of workable coal may be assumed. Taking into account the topography of the local area and the generalised dip of the strata, the geological data suggests that these coal seams may be observed at depths ranging between 14.0m and 24.0m below ground level.

<sup>5</sup> Sources: British Geological Survey (NERC) Lexicon of Named Rock Units [online resource from [www.bgs.ac.uk](http://www.bgs.ac.uk)]

<sup>6</sup> Source: Memoirs of the Geological Survey of England and Wales Explanation of Sheet 77; The Geology of the Country around Huddersfield and Halifax;

In addition, it is anticipated that the Top Lousey Coal seam may be observed at depths ranging between 7.0m and 17.0m bgl.

As the Blocking Coal Seam is present to the south-east of the site, and the solid geology within the local area is anticipated to dip to the south-east, this coal seam is not anticipated to be present below the surface of the site.

## 2.2 Coal Authority Mines Report

As part of this study a Non-residential Coal Authority Mining Report has been obtained. The report is presented as Appendix 2 and for the purposes of discussion has been summarised below:

**Table 3: Summary of the Non-residential Coal Authority Mining Report**

| Has the search report highlighted evidence or potential of: |                                  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------|----------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ref                                                         | Mining Feature                   | Yes/No | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1                                                           | Underground Coal Mining: Past    | Yes    | The property is not within a surface area that could be affected by past underground mining. However the property is in an area where the Coal Authority believe 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 prior to any site works or future development activity.                                                                                                                                                                                       |
| 2                                                           | Underground Coal Mining: Present | No     | The property is not within a surface area that could be affected by present underground mining.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3                                                           | Underground Coal Mining: Future  | Yes    | The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using 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                     | Yes    | 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              | No     | Please refer to Con29M Non-Residential Mining Report (51001227528001) for further information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 6                                                           | Opencast Coal Mining: Past       | No     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 7                                                           | Opencast Coal Mining: Present    | No     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 8                                                           | Opencast Coal Mining: Future     | No     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 9                                                           | Coal Mining Subsidence           | No     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 10                                                          | Mine Gas                         | No     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 11                                                          | Hazards Related to Coal Mining   | No     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 12                                                          | Withdrawal of Support            | No     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## 2.3 Geological Survey Borehole Records

The British Geological Survey (NERC) keeps borehole records from across Britain which are available for public viewing through their website<sup>7</sup>. As part of this study, the records in the area around the site have been reviewed in order to assist in establishing the geological conditions.

Based upon records provided by the British Geological Survey (NERC) the following table has been produced as a summary for the most applicable features of note in relation to this study, the logs of the boreholes are presented as Appendix 3:

**Table 4: Notable Geological Features**

| Borehole | Approx. Distance from Site | Depth below ground level   | Coal Seam Thickness |
|----------|----------------------------|----------------------------|---------------------|
| SE20NE25 | 1000m SW                   | Coal: 5.10m<br>Coal: 6.90m | 1.30m<br>0.40m      |
| SE20NE24 | 1200m SW                   | Coal: 5.70m<br>Coal: 6.90m | 0.80m<br>0.50m      |

It should be appreciated that there was limited borehole data within the vicinity of the site. Some shorter borehole scans were available, however, were felt to be of limited use to this study. In addition, there were other boreholes at a greater distance from the site which have been detailed above; however, these were felt to be of lesser value as they may not represent ground conditions comparable to those found below the site.

In general terms, the boreholes indicate that below a capping of clays, interbedded layers of sandstone and mudstone were encountered. This strata is anticipated to represent the Pennine Lower Coal Measures formation. Two coal seams of significant thickness were observed within these boreholes, however, it should be appreciated that the above depths and thicknesses of the coal seams are not directly comparable to the strata conditions anticipated to be present below the site surface. Nevertheless, the boreholes have indicated that coal of workable thicknesses may be found at shallow depth within the local area.

### 3. **RISK ASSESSMENT**

The risk to the stability of the proposed residential development has been evaluated from the data obtained and with reference to the following ratings and definitions:

- Low - The possibility of instability is unlikely therefore no further action is necessary.
- Moderate - The possibility of instability is likely and further investigation or remedial action may be required.
- High - The possibility of instability is highly likely and further investigation or remedial action will be necessary.

**Table 5: Development specific risk assessment**

| Item | Risk of Instability    | Coal Seam(s) Considered                                                                      | Risk Rating |
|------|------------------------|----------------------------------------------------------------------------------------------|-------------|
| 1    | Shallow coal workings  | Whinmoor Coal (Cumberworth Thick)                                                            | Moderate    |
|      |                        | Black Bed (Shertcliffe Coal)                                                                 |             |
|      |                        | Top Lousey Coal (Low Silkstone)                                                              | Low         |
| 2    | Coal workings at depth | The property is not within a surface area that could be affected by past underground mining. | Low         |

On the basis of all of the information provided above it is concluded that there are three shallow coal seams in the vicinity of the site. As these seams may be of an economic thickness the possibility of these seams being worked below the site cannot be ruled out. Therefore it is considered that if coal was known to be close to ground level below the site, it could have been removed illicitly via shallow mining methods with relative ease.

It may be noted that guidance available from both the NHBC and the CIRIA publication, SP32 - *construction over abandoned mine workings*, suggests that competent overburden thickness above a coal seam should be greater than 10 times the thickness of a seam plus the seam thickness in order that the collapse of workings would pose a low risk to surface structures.

On this basis, assuming a maximum thickness of the Top Lousey Coal seam to be approximately 0.33m, 3.63m of competent overburden is required to prevent instability to future surface structures. As this seam is anticipated at depths ranging between 7.0m and 17.0m, and literature suggests that this seam is '*seldom of any value*', a low risk rating has been placed on this seam, and no further action is required.

However, taking the above guidance into consideration, and assuming a maximum thickness of the converged Whinmoor Coal and Black Bed Coal to be 2.10m, 23.10m of competent overburden is required to prevent instability to future surface structures. As this coal seam is anticipated to be present at depths ranging between 14.0m and 24.0m below the surface of the site, a moderate risk rating has been assigned to this seam and further investigation is recommended to prove/disprove the presence of illicit mining activity.

In regards to deeper mining which could affect the site, the Coal Authority holds no records that the property is in the likely zone of influence from past underground workings.

Therefore, there is considered to be a low risk of instability at the site due workings at depth.

#### **4. CONCLUSIONS**

In light of the potential risks of instability at the site from the working of shallow coal at the site, it cannot be recommended that development takes place without further investigation to conclusively determine the presence of such workings. This work should include physical drilling methods to explore the ground conditions.

General practice is to undertake rotary openhole boreholes at three locations across the site to mitigate against the potential for drilling through pillars associated with pillar and stall workings. Furthermore, it is normal to investigate the ground to 30m below ground level; any workings below this depth are unlikely to result in significant instability. However, in this case, the risk of instability is due to shallow workings, therefore, drilling to these depths may not be necessary and the objective should be to ensure that the seams are un-worked. It may therefore be possible to undertake one borehole to 30m in the first instance with the remaining boreholes proving the depth and continuity of the coal seam. In any event, it is considered that approval should be sought with the Local Authority as to the efficacy of this approach.

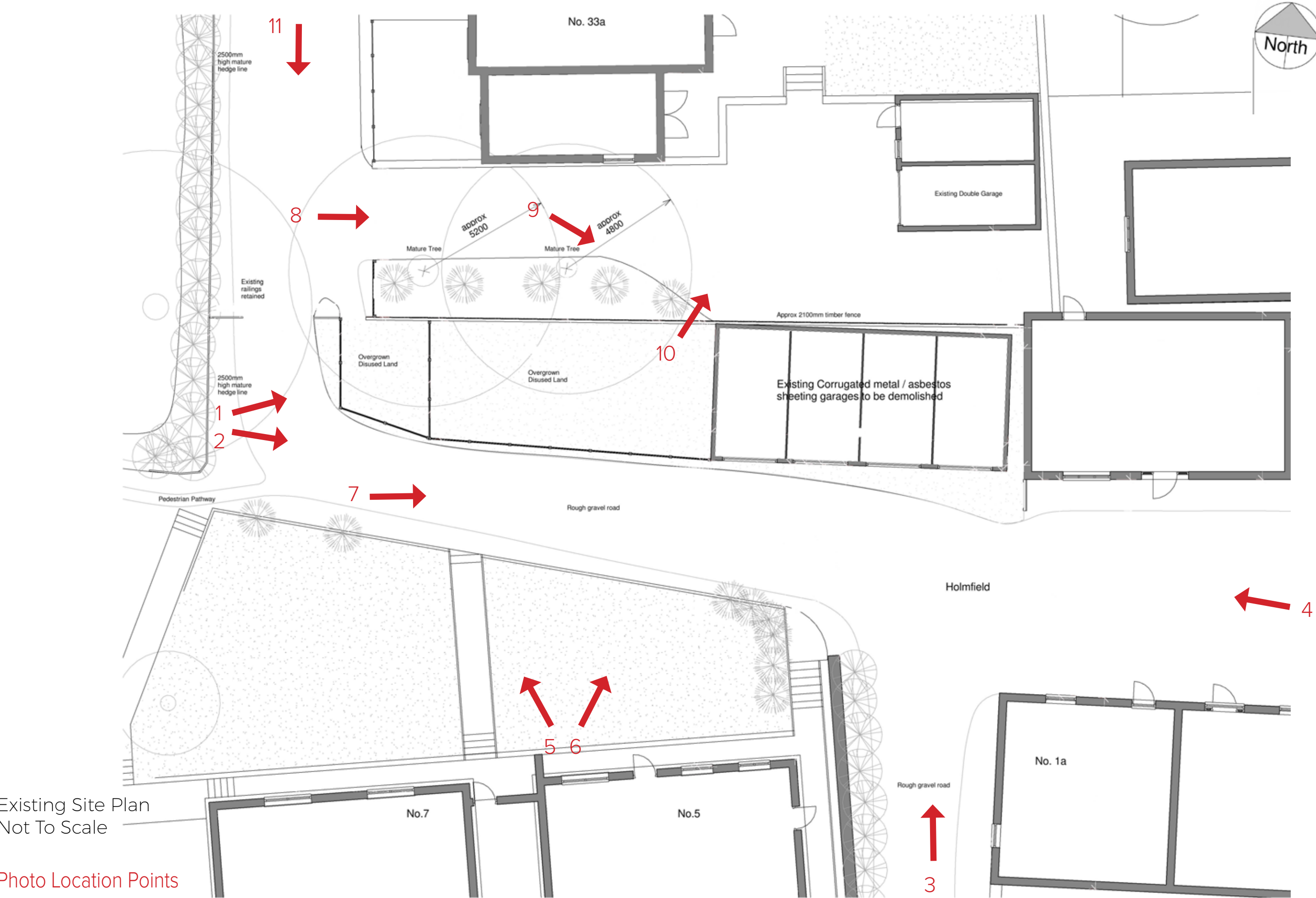
For and on behalf of  
Rogers Geotechnical Services Ltd,

C. E. Mason BSc  
Graduate Geotechnical Engineer

S.P. Rogers CEng, CGeol, MICE, MCIHT, FGS  
Technical Director

# APPENDIX 1

## SITE PLAN



Existing Site Plan  
Not To Scale

Photo Location Points

1



View of the western corner of the site and the private road leading to Church Lane

2



View east over the site from the corner of the Private Road and Holmfield

3



View of the south elevation of the site from Holmfield

4



View westards of the site along Holmfield

5



View north west  
over the site from  
the Retirement  
Bungalows



View eastwards along Holmfield

6



View north east over the site from the Retirement Bungalows

8



View of the Northern Boundary and of No. 33a

9



View of the Northern Boundary of the site

10

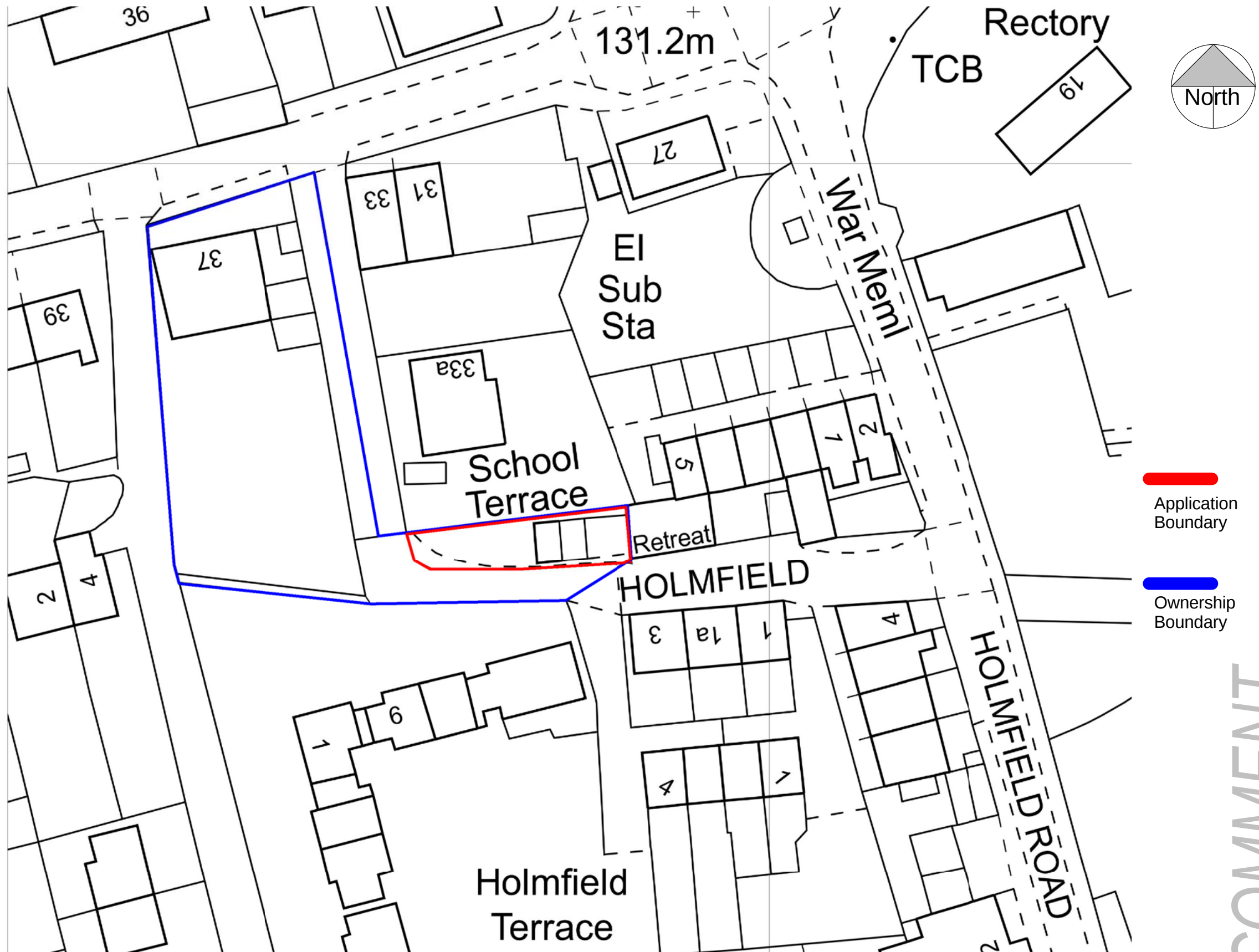


View over the northern boundary of the site towards the rear of No. 33a

11



View looking south to the site from the Private Road



| Scale Bars |    | TO BE USED ONLY AS GUIDANCE |      |      |    |  |
|------------|----|-----------------------------|------|------|----|--|
| 1:100      | mm | 1000                        | 3000 | 5000 |    |  |
| 1:200      | mm |                             | 5000 | 8000 |    |  |
| 1:500      | M  | 5                           | 15   | 25   |    |  |
| 1:1250     | M  | 10                          | 30   | 50   | 70 |  |

KEYPLAN

GENERAL NOTES  
The Contractor is to check all dimensions and conditions on site before commencing. Do not scale from this drawing. All errors and omissions to be reported to the architectural designer prior to commencement. This drawing must be read in conjunction with the relevant specification clauses. This drawing must not be used on site unless issued for construction. This drawing must not be used for purposes other than that for which it is provided. It is supplied without liability for any errors or omissions. All drawings subject to statutory authority approval.

CDM REGULATIONS  
The contractor is responsible for informing the client, and for carrying out all measures necessary to ensure compliance with any relevant health and safety legislation, in particular the construction design and management 'CDM' regulations. Any discrepancies in the drawings should be reported to the architectural designer for decision.

STRUCTURAL INFORMATION  
for all structural information refer to structural engineers drawings and details. Drawings to be read in conjunction with all other specialist drawings. All dimensions to be checked on site before works and fabrication of components commence. All discrepancies to be reported to the architectural designer at the first opportunity.

MATERIALS  
All materials and components must be suitable for their intended purpose and location and must be manufactured and installed in accordance with all relevant british standards and codes of practice. Any reference to an approved document in this specification relates to the relevant approved document of the building regulations. All work generally to be carried out in accordance with the building regulations and the satisfaction of the approved building control inspectorate.

| Rev            | Description                                                |          | By           | Date |
|----------------|------------------------------------------------------------|----------|--------------|------|
| Client         | Mr Cosgrove                                                |          |              |      |
| Job            | 015_Land at Holmefield, Clayton West, Huddersfield HD8 9LZ |          |              |      |
| Drawing        | Site Location Plan                                         |          |              |      |
| Dwg. No.       | 015 - 100                                                  |          |              | Rev  |
| Date           | 14/03/2016                                                 | Scale    | 1 : 500      | @ A3 |
| 3D CoOrd       |                                                            | 2D CoOrd | FOR PLANNING |      |
| Project Status | Feasibility                                                | Tender   | Construction |      |
|                | Design                                                     | Contract | As Built     |      |

Drawings and models powered by **BIM** using Autodesk Revit®

**1 Holmfield Existing Site Location**  
1 : 500

Produced 22 Mar 2016 from the Ordnance Survey MasterMap (Topography) Database and incorporating surveyed revision available at this date.

The representation of a road, track or path is no evidence of a right of way.  
The representation of features as lines is no evidence of a property boundary.

Supplied by: **Stanfords 22 Mar 2016**  
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Stanfords Order Reference: OI944286  
Centre coordinates: 425779 410859



| Scale Bars |    |      |      | TO BE USED ONLY AS GUIDANCE |    |  |  |
|------------|----|------|------|-----------------------------|----|--|--|
| 1:100      | mm | 1000 | 3000 | 5000                        |    |  |  |
| 1:200      | mm |      | 5000 | 8000                        |    |  |  |
| 1:500      | M  | 5    | 15   | 25                          |    |  |  |
| 1:1250     | M  | 10   | 30   | 50                          | 70 |  |  |

KEYPLAN

**GENERAL NOTES**  
The Contractor is to check all dimensions and conditions on site before commencing. Do not scale from this drawing. All errors and omissions to be reported to the architectural designer prior to commencement. This drawing must be read in conjunction with the relevant specification clauses. This drawing must not be used on site unless issued for construction. This drawing must not be used for purposes other than that for which it is provided. It is supplied without liability for any errors or omissions. All drawings subject to statutory authority approval.

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for all structural information refer to structural engineers drawings and details. Drawings to be read in conjunction with all other specialist drawings. All dimensions to be checked on site before works and fabrication of components commence. All discrepancies to be reported to the architectural designer at the first opportunity.

**MATERIALS**  
All materials and components must be suitable for their intended purpose and location and must be manufactured and installed in accordance with all relevant british standards and codes of practice. Any reference to an approved document in this specification relates to the relevant approved document of the building regulations. All work generally to be carried out in accordance with the building regulations and the satisfaction of the approved building control inspectorate.

| Rev                                                      | Description                                              | By       | Date         |
|----------------------------------------------------------|----------------------------------------------------------|----------|--------------|
| Client                                                   | Mr Cosgrove                                              |          |              |
| Job                                                      | 015_Land at Holmfild, Clayton West, Huddersfield HD8 9LZ |          |              |
| Drawing                                                  | Existing Site Plan                                       |          |              |
| Dwg. No.                                                 | 015 - 101                                                | Rev      |              |
| Date                                                     | 14/03/2016                                               | Scale    | 1 : 100      |
|                                                          |                                                          |          | @ A2         |
| 3D Coord                                                 |                                                          | 3D Coord | FOR PLANNING |
| Project Status                                           | Feasibility                                              | Tender   | Construction |
|                                                          | Design                                                   | Contract | As Built     |
| Drawings and models powered by BIM using AutoDesk Revit® |                                                          |          |              |

## APPENDIX 2

### COAL AUTHORITY MINING REPORT



The Coal  
Authority

Resolving the **impacts** of mining

# CON29M Non-Residential Mining Report

LAND AT HOLMFIELD  
CLAYTON WEST  
HUDDERSFIELD  
WEST YORKSHIRE  
HD8 9LZ

Date of enquiry: 03 August 2016  
Date enquiry received: 03 August 2016  
Issue date: 03 August 2016

Our reference: 51001227528001  
Your reference: J3596/16/EDS



# CON29M Non-Residential Mining Report

This report is based on, and limited to, the records held by the Coal Authority and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

## Client name

Rogers Geotechnical Services Ltd

## Enquiry address

LAND AT HOLMFIELD, CLAYTON WEST,  
HUDDERSFIELD, WEST YORKSHIRE, HD8 9LZ

## How to contact us

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

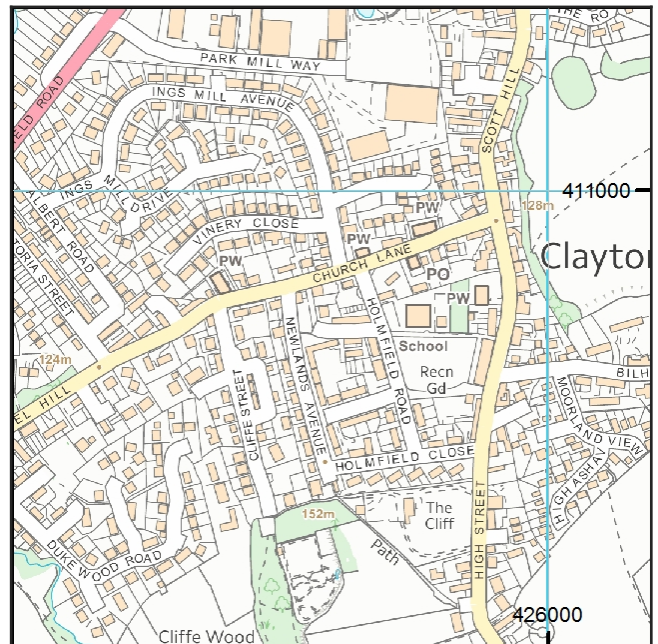
200 Lichfield Lane  
Mansfield  
Nottinghamshire  
NG18 4RG

[www.gov.uk/coalauthority](http://www.gov.uk/coalauthority)

 /company/the-coal-authority

 /thecoalauthority

 /coalauthority



Approximate position of property



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# 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  |
| 15                                                         | Information from the Cheshire Brine Subsidence Compensation Board | No  |

**For detailed findings, please go to page 4.**

# Detailed findings

## 1. Past underground coal mining

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

However the property is in an area where the Coal Authority believe 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 prior to any site works or future development activity. 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 plans to grant a licence to remove coal using 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, since 31st 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 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.

### **15. Information from the Cheshire Brine Subsidence Compensation Board**

The property lies outside the Cheshire Brine Compensation District.

# 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 and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions applicable at the time the report was produced.

## Disclaimer

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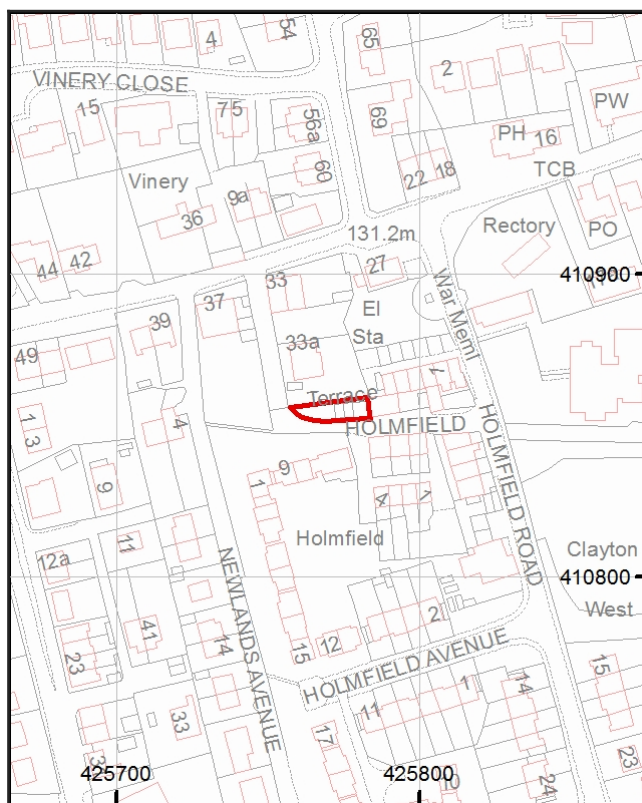
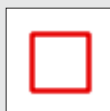
## Alternative formats

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# Enquiry boundary

## Key

Approximate position of enquiry boundary shown



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## APPENDIX 3

### BGS BOREHOLE RECORDS

SE20/41

British Geological Survey

British Geological Survey

## FORM WR-38 (cont.)

NRA  
No.

(Please type)

## D. STRATALOG

| Geological<br>Classification                                        | Description of strata | Thickness | Depth |
|---------------------------------------------------------------------|-----------------------|-----------|-------|
| (BGS only)                                                          |                       | m         | m     |
| Superficial                                                         | TOP SOIL              | 0.00      | 0.50  |
|                                                                     | CLAY BROWN            | 0.50      | 2.00  |
|                                                                     | MUDSTONE GREY         | 2.00      | 5.50  |
|                                                                     | MUDSTONE BLACK        | 5.50      | 5.70  |
| Poss. Black Band Coal                                               | COAL                  | 5.70      | 6.50  |
|                                                                     | MUDSTONE GREY         | 6.50      | 6.90  |
| Poss. Top Whin moor Coal                                            | COAL                  | 6.90      | 7.40  |
|                                                                     | MUDSTONE GREY         | 7.40      | 30.20 |
| Post. Penistone Flag                                                | SANDSTONE GREY        | 30.20     | 33.00 |
| (continue on separate page if necessary)                            |                       |           |       |
| Other Comments (eg gas encountered, saline water intercepted, etc). |                       |           |       |

RA  
5/9/97

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FORM WR-3B (cont.)

SE 20/41B

(Please type)

British Geological Survey

British Geological Survey

British Geological Survey

## D. STRATIGRAPHY

| Geological<br>Classification                                        | Description of strata | Thickness<br>m | Depth<br>m |
|---------------------------------------------------------------------|-----------------------|----------------|------------|
| (BGS only)                                                          |                       | m              | m          |
| Superficial                                                         | TOP SOIL              | 0-00           | 0-50       |
|                                                                     | CLAY BROWN            | 0-50           | 2-00       |
|                                                                     | MUDSTONE GREY         | 2-00           | 5-50       |
|                                                                     | MUDSTONE BLACK        | 5-50           | 5-70       |
|                                                                     | COAL                  | 5-70           | 6-40       |
|                                                                     | MUDSTONE GREY         | 6-40           | 6-90       |
|                                                                     | COAL                  | 6-90           | 7-30       |
|                                                                     | MUDSTONE GREY         | 7-30           | 32-20      |
|                                                                     | SANDSTONE GREY        | 32-20          | 40-40      |
| (continue on separate page if necessary)                            |                       |                |            |
| Other Comments (e.g. gas enclosures, saline water intercepted, etc) |                       |                |            |