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Our Ref: P8443 - CMRA-1
Date: 18th April 2018

Mr P Riley
675, Burton Road,
Midway
Swadlincote,
Derbyshire
DE11 0DL

Dear Sirs

RE: Proposed Development at 675 Burton Road, Midway. DE11 0DL.

We have as requested carried out a Coal Mining Risk Assessment in accordance with guidance provided by the Coal Authority and as required by the Local Authority as part of the planning process.

The result of our assessment is detailed below:-

1.0 Introduction

We have been informed that you propose to develop the site for residential purposes. A proposed development plan (Appendix A) has been made available and shows that the site will be developed with the addition of two traditional single storey dwellings and associated infrastructure.

As far as we are aware the site has not been the subject of a Desk Study (Phase 1) or Intrusive Ground Investigation (Phase 2).

Recommendations will be made as to how the risks associated with coal mining can be mitigated.

A site location plan is attached to the Coal Authority mining report included in Appendix B.

2.0 Sources of Information

The following sources of information have been used:-

- Ø Coal Authority Mining Report
- Ø BGS Geological Mapping at a scale of 1:10000.
- Ø BGS Memoirs
- Ø BGS Borehole Records
- Ø Coal Authority interactive mapping

3.0 Identification and assessment of site specific risks

The Coal Authority (CA) mining report states that the site is not within a surface area that could be affected by past underground mining. Therefore the risk posed to the ground surface from recorded workings is assessed as **negligible**.

The CA report confirms the likely presence of coal seams at or close to the ground surface that may have been worked at some time in the past. Accordingly the risk posed to the ground surface from any un-recorded workings in shallow coal seams is assessed as **high**.

The CA confirms that the site does not lie within 200m of the boundary of an opencast site from which coal is being removed by opencast methods. The CA confirms that the property does not lie within 800m of an opencast site for which a licence has been granted or is currently being determined. The CA confirms that the site is not within the boundary of an opencast from which coal has been removed by opencast methods. The risk from current, future or past opencast workings is therefore assessed as **negligible**.

The CA confirms that there are no known coal mining entries within, or within 20 metres of the boundary of the property. Therefore the risk to surface stability from recorded mine entries is assessed as **negligible**.

The Coal Authority also confirms that their records may be incomplete, consequently, there may exist in the local area mine entries of which the Coal Authority have no knowledge and if shallow un-recorded workings are present beneath the site, the risk of un-recorded mine entries should be assessed as **moderate**.

The CA is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining. Therefore the risk to the site from geological faults or other lines of weakness being affected by coal mining is assessed as **negligible**.

The CA states that there is no record of mine gas emission requiring action by the CA within the boundary of the property. It seems reasonable to conclude that the risk to the proposed development from mine gas emissions is **negligible**. However, this does not preclude a risk from ground gases from other sources.

Where coal measures strata lies close to the ground surface foundations could potentially penetrate or encounter coal seams within their excavation. There is therefore a potential for spontaneous combustion. The risk from spontaneous combustion from near surface coal seams is generally assessed as **low** but some form of precautionary mitigation might be required.

The site is underlain by the following geological formations:-

- Ø Oadby Till
- Ø Bromsgrove Sandstone
- Ø Coal Measures

4.0 Mitigation Strategy Proposed

The mitigation strategy proposed relates to the potential presence of shallow un-recorded workings and un-recorded mine entries.

The Sources of Information (2.0) suggest the following:-

- Ø The geological mapping suggests that the site is underlain by The Oadby Till, which comprises pebbly clay. The Oadby Till is shown to be underlain in the main by the Bromsgrove Sandstone Formation comprising sandstone with mudstone bands. In the

extreme southern corner of the site the Oadby Till is shown to be underlain by the Polesworth Formation comprising pebbly sandstone, conglomerate and sandstone.

- Ø BGS boreholes around 50m and 150m to the south of the site suggest that the site will be underlain by superficial deposits comprising topsoil, boulder clay (Till) and sandy clay (probably weathered sandstone) to depths of circa 1.5m begl to 2.2m begl.
- Ø The BGS boreholes also record the superficial deposits to be underlain by solid strata comprising the Bromsgrove Sandstone Formation overlying the Polesworth Formation, to a depth of at least circa 30m begl.
- Ø Rockhead is suggested to be present at a depth of circa 1.5m begl to 2.2m begl.
- Ø The geological mapping and CA interactive mapping indicates that the Boothorpe Fault, which trends north-west to south east, lies circa 50m to the west of the site.
- Ø The memoir state that the Boothorpe Fault forms “...*the eastern boundary of the western division of the Coal-Measures, and brings up the un-productive measures against that part of the Coalfield.*”
- Ø The Boothorpe Fault is downthrown to the south west. The memoir suggests that the throw of the fault is estimated at 275m.
- Ø The memoir goes onto describe the fault to be a succession of steps, between which the beds are highly inclined. The disturbance is indicated to occur over a width of 180 to 275m.
- Ø The ground to the immediate south west of the site is suggested to be an area of landscaped ground.

The site lies to the east /south-east of the Boothorpe Fault and is likely underlain by at least 27.8m to 28.5m thickness of Triassic strata. The throw of the Boothorpe Fault suggests that the Triassic strata are underlain by un-productive measures. It is considered that even if the site is underlain by productive coals due to “stepping” of the Boothorpe Fault, that these coals will be highly disrupted and unlikely to have been worked by underground methods in the past. Therefore it is considered that the risk to the site from un-recorded workings should be reduced to **negligible**.

The site is not at risk from recorded workings and the level of risk as a result of our assessment will remain as **negligible**.

The site is not at risk from current, future or past opencast workings and the level of risk as a result of our assessment will remain as **negligible**.

The risk from mine entries has been assessed as **moderate**, however, since the likelihood of shallow workings beneath the site, both recorded or un-recorded, is negligible the risk of mine entries is also **negligible**.

The mining report indicates that the site is not at risk from mine gas emissions.

The mining report suggests that the site is not at risk from geological faults or other lines of weakness that have been affected by coal mining.

It is highly unlikely that coals will be present at or close to founding depths that might present a risk to the proposed structures due to the potential for combustion within the seam creating sufficient volume change to affect foundations. Therefore the risk from spontaneous combustion is reduced to **negligible**.

5.0 Conclusion

The risks amended in line with 4.0 above can be summarised as follows:-

Recorded Workings – **Negligible.**

Un-recorded shallow workings – **Negligible.**

Mine Entries – **Negligible.**

Opencast workings – **Negligible.**

Geological faults or other lines of weakness that have been affected by coal mining – **Negligible.**

Mine gas emissions – **Negligible.**

Spontaneous combustion – **Negligible.**

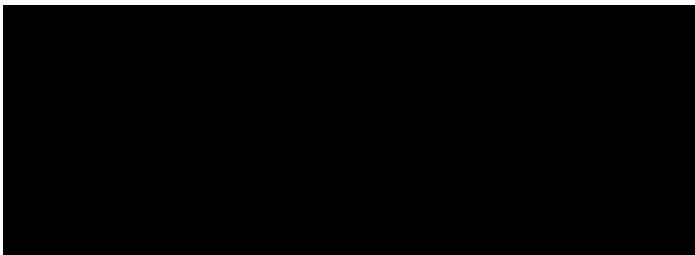
6.0 Relevant Appendices

Appendix A – Proposed Development Plan

Appendix B - Coal Authority Mining Report which includes a site location plan.

We trust that the information provided is sufficient for your current requirements. If you require any additional information or clarification of the contents of this letter then do not hesitate to contact me.

Yours faithfully



Chris Jerram C.Geol.



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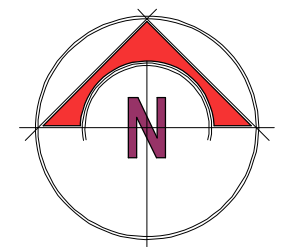
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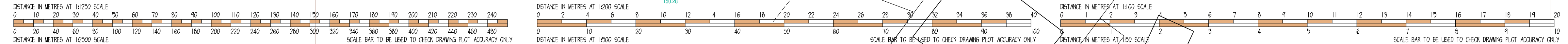
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REPRODUCED FROM THE 1:1250 ORDNANCE SURVEY MAP
WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S
STATIONERY OFFICE

LICENCE NUMBER LIG 09917

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drawing
Proposed Site Plan

project
**Land To Rear Of
675 - 677 Burton Road
Midway**

client
Mr C Wymark

date 30/05/2019 revision nil -/-

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drawing number
219-14.02 nil

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The Coal
Authority

Resolving the **impacts** of mining

CON29M Non-Residential Mining Report

675 BURTON ROAD
MIDWAY
SWADLINCOTE
DERBYSHIRE
DE11 0DL

Date of enquiry: 18 April 2018
Date enquiry received: 18 April 2018
Issue date: 18 April 2018

Our reference: 51001820777001
Your reference: P8443



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

GRM DEVELOPMENT SOLUTIONS LIMITED

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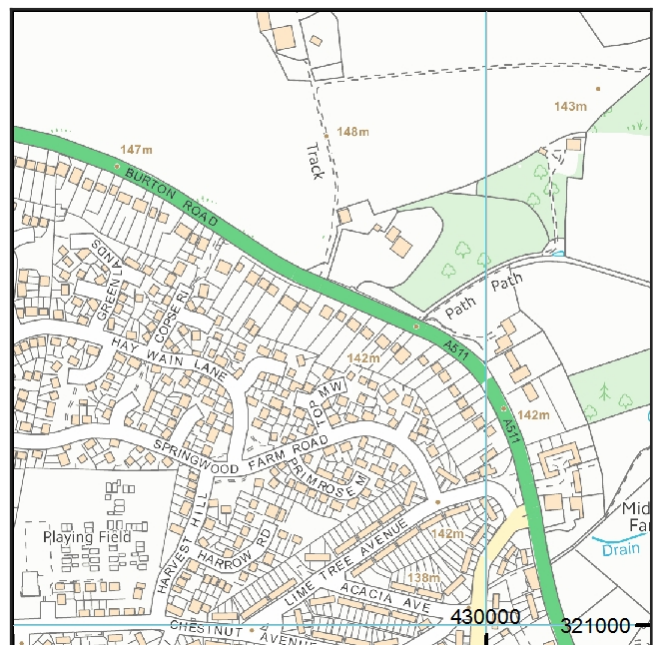
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Approximate position of property



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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 recorded 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. Please refer to the Comments section of this report for further information.

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 of the enquiry boundary, 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

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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

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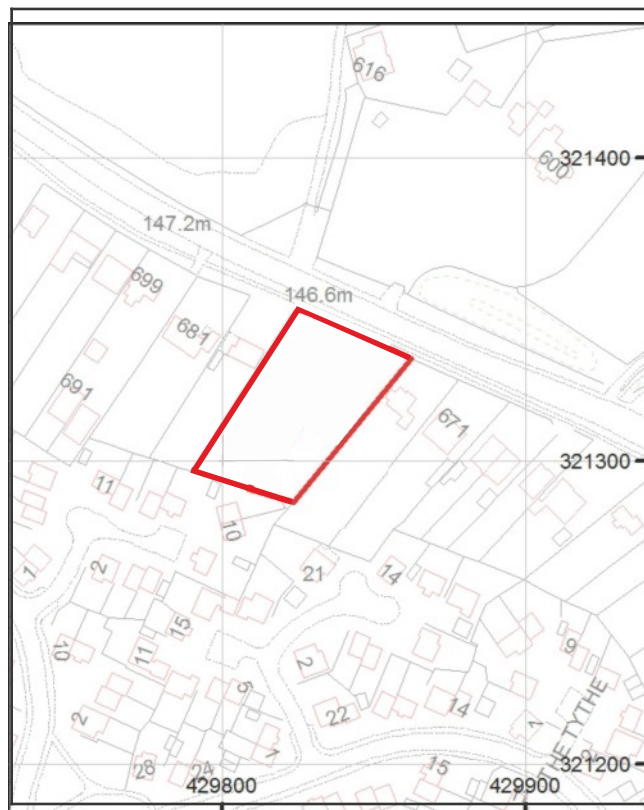
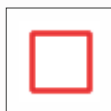
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Enquiry boundary

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Approximate position of enquiry boundary shown



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