

Date: 2 July 2024
Ref: EBC01070/LET03/PD

Attn. C Buckley - Director

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Dear Craig

PROPOSED HOUSING DEVELOPMENT, DOBFIELD ROAD, ROCHDALE

Thank you for your email dated 26 June 2024. The planning condition relating to potential risks from past coal mining states:

'Prior to the occupation of the development, or it being taken into beneficial use, a signed statement or declaration prepared by a suitably competent person confirming that the site is, or has been made, safe and stable for the approved development shall be submitted to the Local Planning Authority for approval in writing. This document shall confirm the methods and findings of the intrusive site investigations and the completion of any remedial works and/or mitigation necessary to address the risks posed by past coal mining activity'.

Potential risks from past coal mining activity at the site were initially assessed by LK Group, via a Desk Based Coal Mining Risk Assessment (Report ref: LKC 20 1164, date: February 2020).

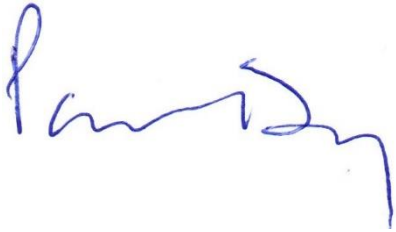
Subsequent to this, physical investigation works were carried out by another specialist, including the drilling of 3 no rotary boreholes to a depth of 30 metres in areas where shallow seams were anticipated.

The results of this investigation were presented in a further report by Earth Environmental & Geotechnical (Report ref: A5182/22/SI/V3, date: March 2023). This report concluded that there was no risk to the development from past coal mining activity. The reason for this was there was no evidence of shallow workings (the seams encountered were very thin, and were intact), and there was no risk from ground gas.

The relevant extracts from the specialist consultants report are shown overleaf (Earth Environmental & Geotechnical - report ref: A5182/22/SI/V3 - March 2023; pp 39-40, p 42).

We trust this is of assistance, and we suggest that this letter is forwarded to the planning authority.

Yours sincerely



Paul Day MEng CEng MICE
Director, Elliot Bond Consulting Limited

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cc A Chohan – PIC
 J Hanson - CODA

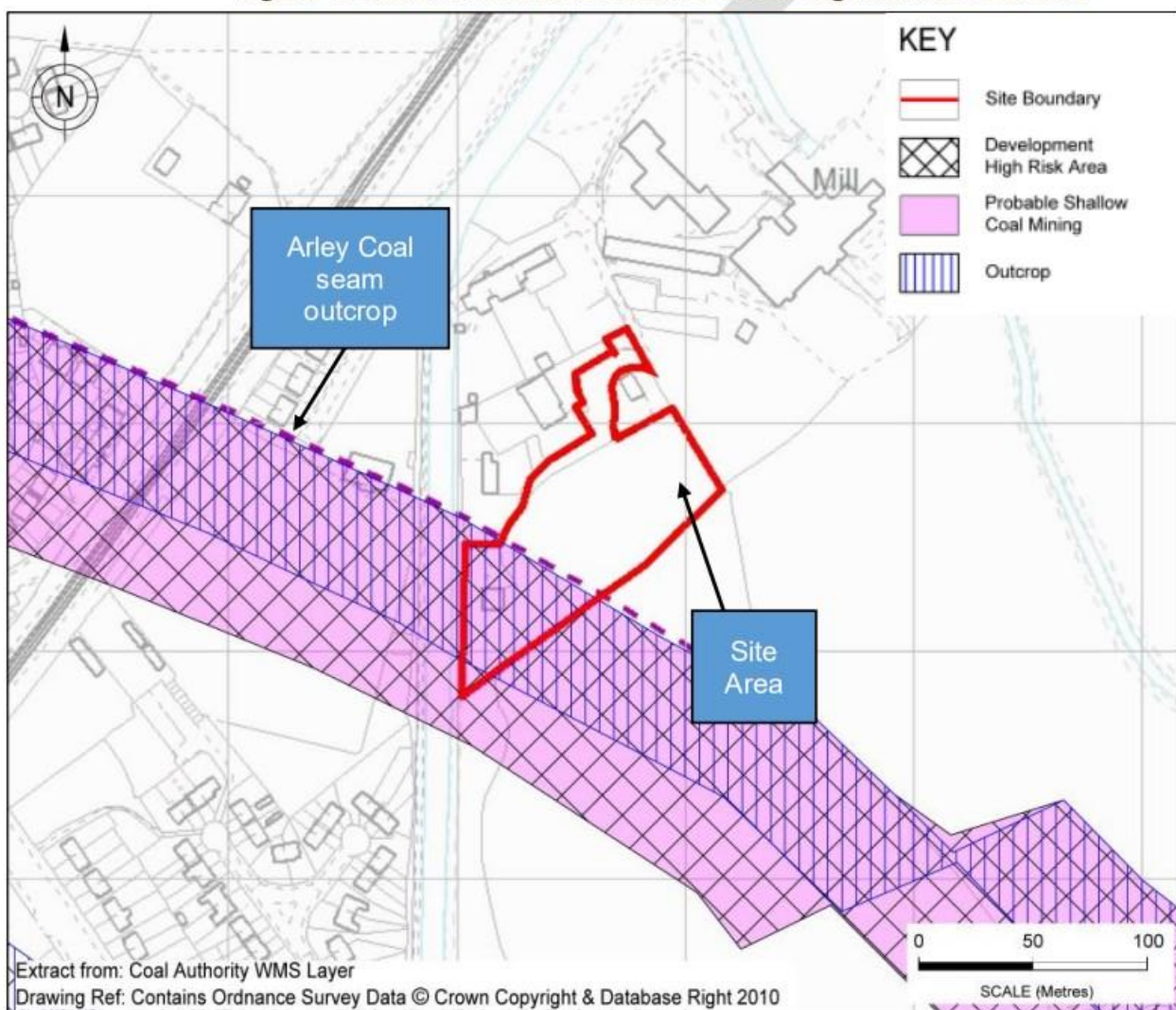
Encs Report extracts (A5182/22/SI/V3 - March 2023)

11.0 COAL MINING RISK ASSESSMENT

Three rotary open hole boreholes were drilled in the southwest of the site as this area lies within a Coal Authority Development High Risk Area due to the locally outcropping and potentially workable Arley coal seam.

Figure 11 (below) presents an extract from LK Consult's Coal Mining Risk Assessment, based on data from the Coal Authority Consultant Mining Report, that shows the location of the locally outcropping Arley seam, along with the Development High Risk area and the area of Probable Shallow Coal Mining.

Figure 11 Extract from LK Consult Coal Mining Risk Assessment



In general, superficial deposits were encountered below the site to approximately 8.00m bgl and were underlain by bedrock comprising a sequence of grey mudstones and sandstones. Occasional thin (<0.10m) bands of competent sandstone were encountered within the mudstones, with thin bands of mudstone encountered within some of the sandstones.

Table 18: Summary of Geology Encountered

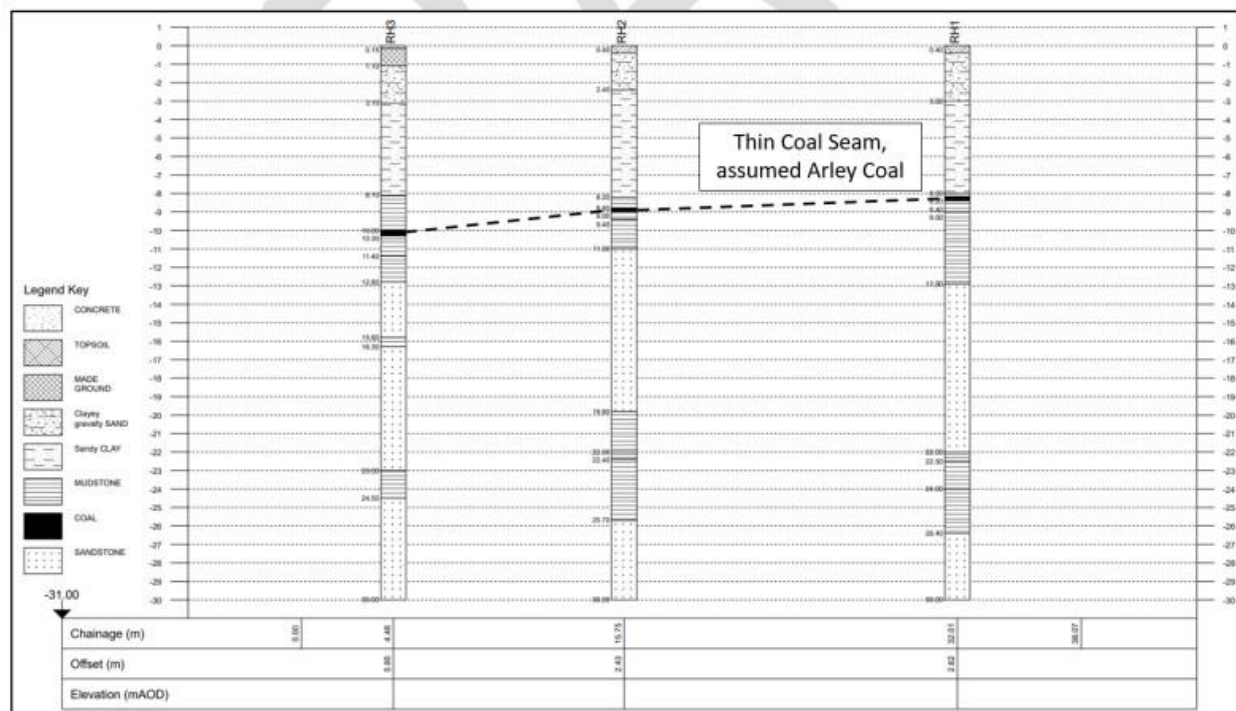
Location	Superficial Deposits/ Made Ground	Mudstone	Coal	Sandstone
RH1	GL - 8.00m	8.00 - 8.20m 8.40 - 12.90m 22.00 - 26.40m	8.20 - 8.40m	12.90 - 22.00m 26.40 - 30.00m
RH2	GL - 8.20m	8.20 - 8.80m 9.00 - 11.00m 19.80 - 25.70m	8.80 - 9.00m	11.00 - 19.80m 25.70 - 30.00m
RH3	GL - 8.10m	8.10 - 10.00m 10.30 - 12.80m 15.80 - 16.30m 23.00 - 24.50m	10.00 - 10.30m	12.80 - 15.80m 16.30 - 23.00m 24.50 - 30.00m

Coal was encountered between 8.20m and 8.40m bgl in RH1, between 8.80m and 9.00m bgl in RH2 and between 10.00m and 10.30m bgl in RH3.

All lithologies were found to be intact. There was no evidence of voiding or broken strata caused by shallow mineworking.

During drilling an infra-red gas analyser (GA2000) was used to measure the borehole annulus for the concentration of methane, carbon-dioxide, carbon monoxide and hydrogen sulphide. No elevated concentrations of any ground gas were detected during the drilling works.

Figure 12 Cross Section (A - A') of Encountered Coal Seams



12.7 Coal Mining

Three rotary open hole boreholes have been drilled in the southwest of the site, in close proximity to the locally outcropping Arley Coal Seam, to a depth of 30.00m bgl. Coal seams of between 0.20m and 0.30m thick, were encountered across all boreholes, between depths of 8.20m and 10.30m bgl.

All lithologies encountered were found to be intact, with no evidence of loss of flush, voiding or broken strata.

As a result, ground remedial measures such as strengthening of foundations or mine grouting will not be required.