

PLACE DIRECTORATE
South Yorkshire Mining Advisory Service



To: Asset Management

FAO: Paul Allison

My Ref: M4391/2

Your Ref: E01792

Date: 26th October 2016

Enquiries to: Mr. M. Lyons

Ext: 2690

Subject: E01792 – LAND ADJ. 16 SURREY CLOSE, WORSBROUGH COMMON S70 4NB.

Further to your consultation request of the 14th October 2016, I can confirm the following.

SITUATION

A mining report has been requested for the above named site, as shown edged orange on the attached plan no. M4391/2A. This report provides a review of the mining and geological history of the site and an assessment for the potential for mining legacy risks. The report makes recommendations regarding the need for any investigative and/or remediation requirements.

GEOLOGICAL
INFORMATION

Geological records indicate that the land is underlain by sandstones, shales and mudstones of the Middle Coal Measures, as indicated on the attached plan. A geological fault is indicated some 80m away clear of the site to the north-west. Natural fissures may be present in the sandstone bedrock that may have been opened out by the past deep mining activities as detailed below.

The Two Foot coal seam is conjectured to outcrop just to the west as indicated. According to geological and past mining information, this coal is anticipated as being around 600mm in thickness, and with strata dipping to the east in this vicinity it will be expected at shallow depth beneath the site.

MINING

Shallow Mining

Although no shallow coal workings are known in the Two Foot coal seam beneath the site itself, the seam is known to have been worked underground in close proximity (*the former Albion Colliery approx. 130m to the east, abandoned in 1905*). Considering this, the risk of any uncharted shallow workings beneath the site is considered as **MODERATE** in this instance.

Deep Mining

Deep mining operations have taken place beneath this area in various coal seams, the latest being in the Thorncliffe Seam at around 390m deep in 1971. All subsidence movement from these workings will be long complete, and as no deep coalfields now remain it should not be affected for the foreseeable future.

Mine Entries

Closest known mine shaft is located some 70m away to the south as shown on plan. Considering the mining and geological information the risk of encountering other mine entries of which there are no records is considered as **MODERATE** in this instance.

FORMER
LAND USES

According to historical records the site itself appears free from any past industrial uses to have caused any contamination issues.

LANDFILL

According to the Borough Landfill Register the site does not lie within 250m of any past landfill operation.

CONCLUSIONS

1. The site will be stable from the deep coal mining aspect for the foreseeable future.
2. Shallow coal mining risks are considered as MODERATE for this site, considering the potential for workings being encountered in the Two Foot Coal Seam that is expected near the surface in this vicinity. An intrusive site investigation is likely to be required for any proposed development to mitigate against surface instability due to void migration. A permit would be required from the Coal Authority to facilitate this.
4. Considering the MODERATE risk for discovering an uncharted mine entry, a watching brief should be implemented during any future ground works for any signs of such a feature. The Coal Authority (as custodians) should be consulted if a mine entry is encountered or suspected.
3. A slight risk will be present for fissures being encountered in sandstone bedrock. Future development may require suitably strengthened foundations where any weak ground conditions are encountered, and prior treatment works to stabilise the features may also be required.
4. Any coal exposed should be blinded off to help prevent spontaneous combustion from occurring.
5. Considering the possible shallow coal and/or coal workings, along with sandstone bedrock, all usual safety precautions should be taken regarding possible fugitive gases in any future excavation work taking place.

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Report prepared by M. Lyons 26th October, 2016.



Principal Mining Engineer.

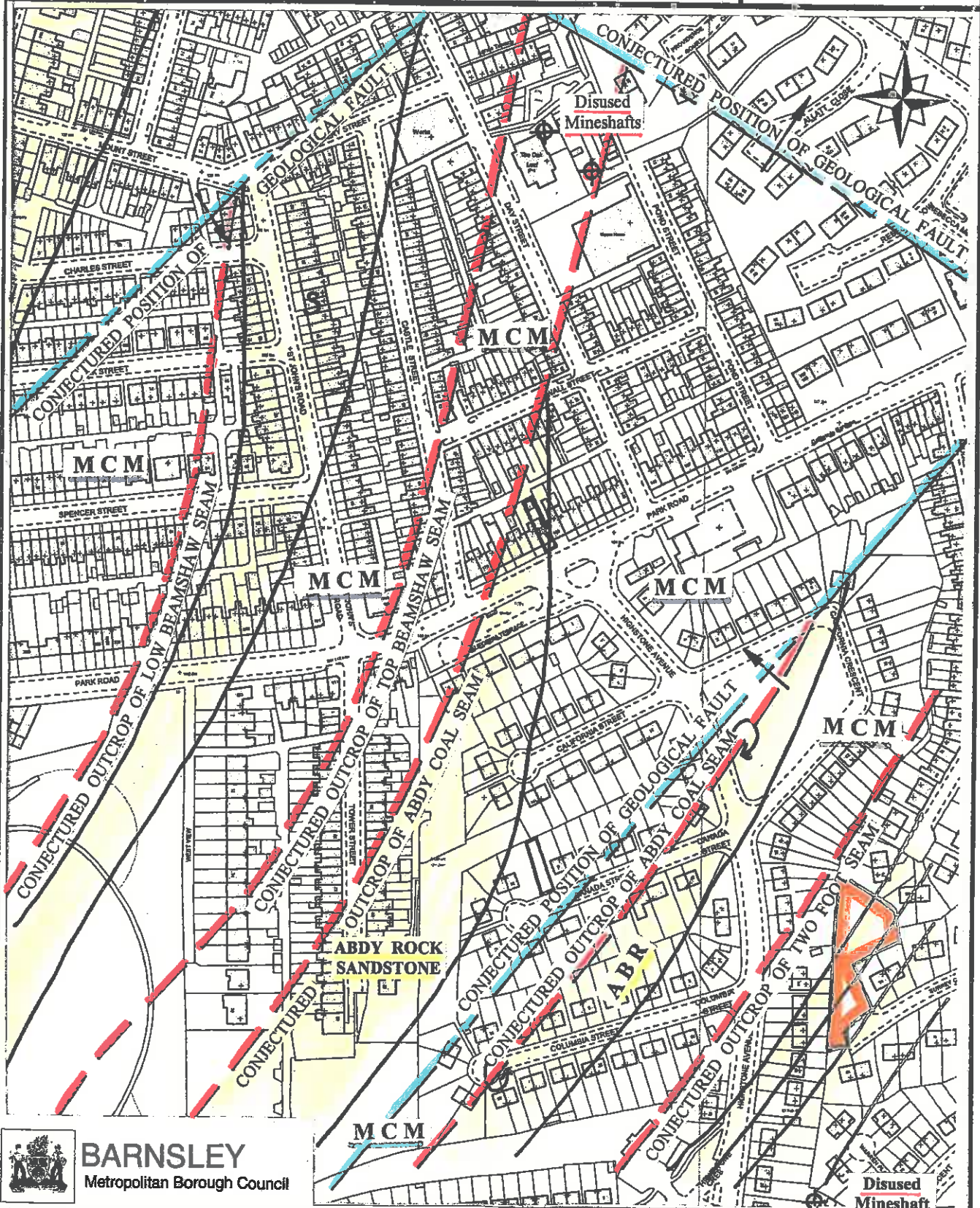
DRAWING TITLE

**E01792 - LAND ADJ 16 SURREY CLOSE
WORSBROUGH COMMON**

DRAWING NO.

M4391/2A

2012
BIMBC Licence Number 100022264



BARNSELY
Metropolitan Borough Council

SCALE 1:2500	DATE 25.10.16
DRAWN BY AS	CHECKED BY MAR

**SOUTH YORKSHIRE MINING
ADVISORY SERVICE**

O.S REFERENCE SE 3405
P JAMES BSc (Hons) PRINCIPAL MINING ENGINEER

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Date: 2 December 2022

Aidan Woodrow

aidan@sub-zero-homes.co.uk

RE : Land adj Surrey Close, Barnsley. S70 4NB

We should be pleased to assist in carrying out ground investigations at the above site. Our charges would be as follows:

<u>Rotary Boreholes (3 x 30m)</u>				
Establish on site	1	@	£2,200.00	£2,200.00
Set up at BH, drill 3 boreholes to about 30m deep and backfill (allow 2 days)	2	@	£1,950.00	£3,900.00
Water Standpipe				£450.00
Dayworks/standing time/dealing with services	0	@	£180.00	per hour
sub-total				£6,550.00

<u>Landfill/Ground Gas</u>				
Install gas monitoring points	3	@	£250.00	£750.00
Carry out gas monitoring	6	@	£175.00	£1,050.00
sub-total				£1,800.00

<u>Report</u>				
Coal Authority License				£350.00
Service plans				£550.00
Remediation Strategy (if required)				£200.00
Report	1	@	£350.00	£350.00
sub-total				£1,450.00

Total £9,800.00 + VAT

Prices exclude VAT.

Avoiding Underground Services

Worms Eye will work with the various parties and use their best endeavours to avoid damage to underground services but WILL NOT BE HELD LIABLE for the costs or outcome of damages.

Payment terms - Phase 1 Report - Before Release of Report

Ground Investigation - 50% deposit

Interim Invoice on Completion of Site Work

Remainder on completion

For further details please see our website - www.wormseye.co.uk

Yours faithfully

David Lord

Our Ref. **Q29-11-22c**

Your Ref.

29 November 2022

A Woodrow

Re: Quote for Rotary Borehole Site Investigation Works for a Proposed Development – Land adjacent to 16 Surrey Close, Worsbrough Common S70 4NB

Further to your recent enquiry, I have pleasure in submitting the following quote for the above site where it is proposed to construct a new dwelling.

Further to your email, and with reference to the information from the SYMAS report as the site is underlain at shallow depth by the Two Foot Coal Seam and is therefore within a Development High Risk Area with regard to shallow workings associated, the following is suggested to provide an assessment of the hazard to the development from shallow coal mine workings within suspected shallow coal seams at the site and any likely remedial measures required at the site:

Rotary SI Investigation

- 1) Provision of Standard Coal Authority Permit to carry out drilling works. (£200.00 + VAT)
- 2) Excavation of two (2) no. rotary open boreholes (circa 30m conditions and access permitting) using **water flush**, under licence from the Coal Authority in order to examine the potential for shallow mine workings to exist beneath the site. (£2600.00 + VAT)
- 3) Provision of an interpretative report with recommendations by a geotechnical engineer on the shallow mining situation at the site, and any mitigation measures required for the development. (£600.00 + VAT)
- 4) Provision of CMRA for the site, in line with Coal Authority template / guidelines (£355.00 + VAT)

INTRUSIVE SI COST: £3755.00 + VAT

Prior to commencing the work, we would require plans showing all buried services including gas, BT, water, electricity and drains etc. The potential presence of these would be deemed as high, given the location of the site to the rear of the buildings

. If the above are not available, then a cost of £200.00 + VAT would be chargeable to provide stats plans. Any damage / repair to services not shown on the service plans will be at the cost of the client.

Although gas measurements would be taken from the boreholes to monitor for hazardous gas concentrations during the drilling works, no allowance has been made for installation of any Gas Monitoring wells (for longer term gas monitoring) or contamination testing as part of the investigation works. Similarly, the report would give **no** recommendation for foundation type or depth and would deal solely with the deeper geotechnical conditions at the site and record the results of gas readings the position of each of the boreholes during drilling. However, we would be able to provide a quote for this work, if required.

No site visit has been carried out to assess access for any drill rig We would require an opening circa 1.20m wide and 1.80m high. If this is not available, then a mobilisation charge of the drilling rate would be levied. No allowance has been made for the site works to be carried out outside of normal working hours, or at weekends.

With regard to Item 2 – Rotary Open Hole Drilling, the drilling would also require free and nearby access to a hosepipe type water supply. **If this is not available a sum of £250 would be required to allow us to provide this by way of towable water bowser, alternatively, if accessible and serviceable, the adjacent Fire Hydrant may be utilised, through our licenced Standpipe.** With regard to any artesian water encountered at the site, although the boreholes will be grouted up with bentonite to seal them on completion, in the unlikely event of continued flow, Geoinvestigate shall not be liable for any damage therein.

To allow us to legally drill the site we require a permit from the Coal Authority. Currently the standard Coal Authority Permits are taking around four to five weeks to obtain, I have quoted for a standard. An expedited permit would be double the cost, with site works available within three weeks.

No allowance has been made for any specialist reinstatement or clean up of any drilling arisings.

The quotation has assumed that largely favourable ground conditions will be encountered at the site.

I trust that you will find the above acceptable and we look forward to your response.

Issued on behalf of Geoinvestigate Limited by



Stuart Howe BSc(Hons) FGS
Senior Geo-environmental Engineer