DEC DIRECTORATE

South Yorkshire Mining Advisory Service

BARNSLEY
Metropolitan Borough Council

To:	NPS Barnsley		**FAO:**	Jim Rochester	
My Ref:	M4298/4		**Your Ref:**		
Date:	9th December, 2011	**Enquiries to:**	P. James	**Ext:**	2689

Subject: PROPOSED CHANGING ROOM EXTENSION AND REFURBISHMENT. SMITHIES LANE DEPOT

Further to your consultation request of the 6th December, please find attached a mineral report and two plans which detail the mining and geological situation for the land. Three previous site investigation reports relating to the adjacent itinerants camp are also enclosed for your information.

Principal Mining Engineer.

Enc.

MINERAL REPORT

Date:

My Ref:

CONFIDENTIAL

PROPOSED CHANGING ROOM EXTENSION AND REFURBISHMENT SMITHIES LANE DEPOT.

SITUATION

The area under consideration at the Smithies Lane depot, Barnsley, is shown edged orange on the attached drawing no. M4298/4A.

GEOLOGY

Geological records show that the site is located on the Kents Rock Sandstone of the Middle Coal Measures, which dips generally in an easterly direction in this vicinity. The bedrock (which may be fissured both naturally and mining induced by the past deep operations) is shown to be overlain by an unknown thickness of fill material and alluvium.

The Kents Thin Coal Seam (up to around 300 mm thick) is conjectured to outcrop close to the south-west as indicated on the attached drawing. This coal will dip beneath the site.

Geological faulting is conjectured to pass close by the site as indicated in blue on the attached drawing.

MINING

Shallow Mining

No historic shallow workings are known in this vicinity and considering the geological information none would be anticipated.

Deep Mining

Deep mining operations have taken place beneath this area in various coal seams many years ago, and as the site is now remote from any currently active coalfield it will not be affected for the foreseeable future.

MINE ENTRIES

The former Wharncliffe Carlton Colliery mineshafts are located some 120 m to the north-east of the site. One shaft is capped at the surface but not filled and there are no records of what, if any, treatment have taken place to the other.

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FORMER LAND USE

The relevant Ordnance Survey Sheets show the area to be adjacent to the former Wharncliffe Carlton Colliery and Coking Works, and the depot to be constructed on associated made ground.

LANDFILL

According to the Borough Landfill Register the site lies within 250m of four landfill operations, as illustrated on the attached plan no. M4298/4B. The details of these are as follows:

Site No.	Category	Waste Material Type
79	4	Construction
141	2	(No details)
142	2	(No details)
172	4	Excavation; Demolition; sub-soil

As can be seen the boundaries and material type of sites 141 and 142 are uncertain, however they are associated with the tipped material from the former Wharncliffe Carlton Colliery.

MADE GROUND

Areas of made ground are shown hatched green on drawing M4298/4A. The site depot area formed part of the Wharncliffe Carlton Colliery Tip and may contain contamination associated with the former coke works. An investigation was undertaken in 1976 on the adjacent Itinerant camp site. Boreholes proved around 7.5 m of ash, clinker, coal traces, brick and pottery etc. There was some evidence of burning within the tip and so the camp area was investigated again in 1978. No evidence of further burning was discovered.

A third site investigation was undertaken in the mid 1990's and at that time part of the itinerant camp was under construction. The position of this investigation was to the north of the itinerant camp although the exact position is unknown. The investigation confirmed the presence of made ground of between 4.15 m and 5.8 m overlying approximately 1.5 m of alluvium.

Copies of the three site investigations are attached.

It is understood that on the itinerant site the tip/made ground was partially reworked/removed to remove the coal and combustible content and capped with hardcore and concrete pads to form a developable platform prior to the construction of buildings and facilities.

FUGITIVE GAS

There is no record of any fugitive gas migration at the surface in this locality. The Borough Landfill Register classifies the adjacent itinerant site as a Category 2 Landfill Site which is described as "a site on which insufficient information is known to permit an adequate response to be made on the extent to which landfill gas may be present".

Considering the nearby mineshafts, fill material and previous instances of combustion in the tip/made ground, the presence of fugitive gases can not be ruled out.

CONCLUSIONS

1. The site is stable from the mining subsidence aspect and as it now lies remote from any currently active coalfield it should remain so for the foreseeable future.

2. Records show that the site is overlain by an unknown thickness of fill material associated with the former colliery tip and coke works. Any fill material present should be adequately investigated through trial pits and the foundations of the extension should be designed accordingly. It may be necessary to remove the fill, particularly if there is a combustion risk, and replace with a suitable backfill and appropriate raft foundations. SYMAS has no information regarding the foundation design of existing depot buildings.

3. The presence of fugitive gases can not be ruled out. Suitable gas protection measures should be incorporated into the extension. Where any construction personnel are required to work in deep or confined excavations the usual gas monitoring procedures should be adopted.

THIS REPORT IS BASED ON AND LIMITED TO THE RECORDS IN THE POSSESSION OF SYMAS AT THE TIME THE ENQUIRY IS ANSWERED.

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This report was prepared by P. James on the 9th December, 2011.

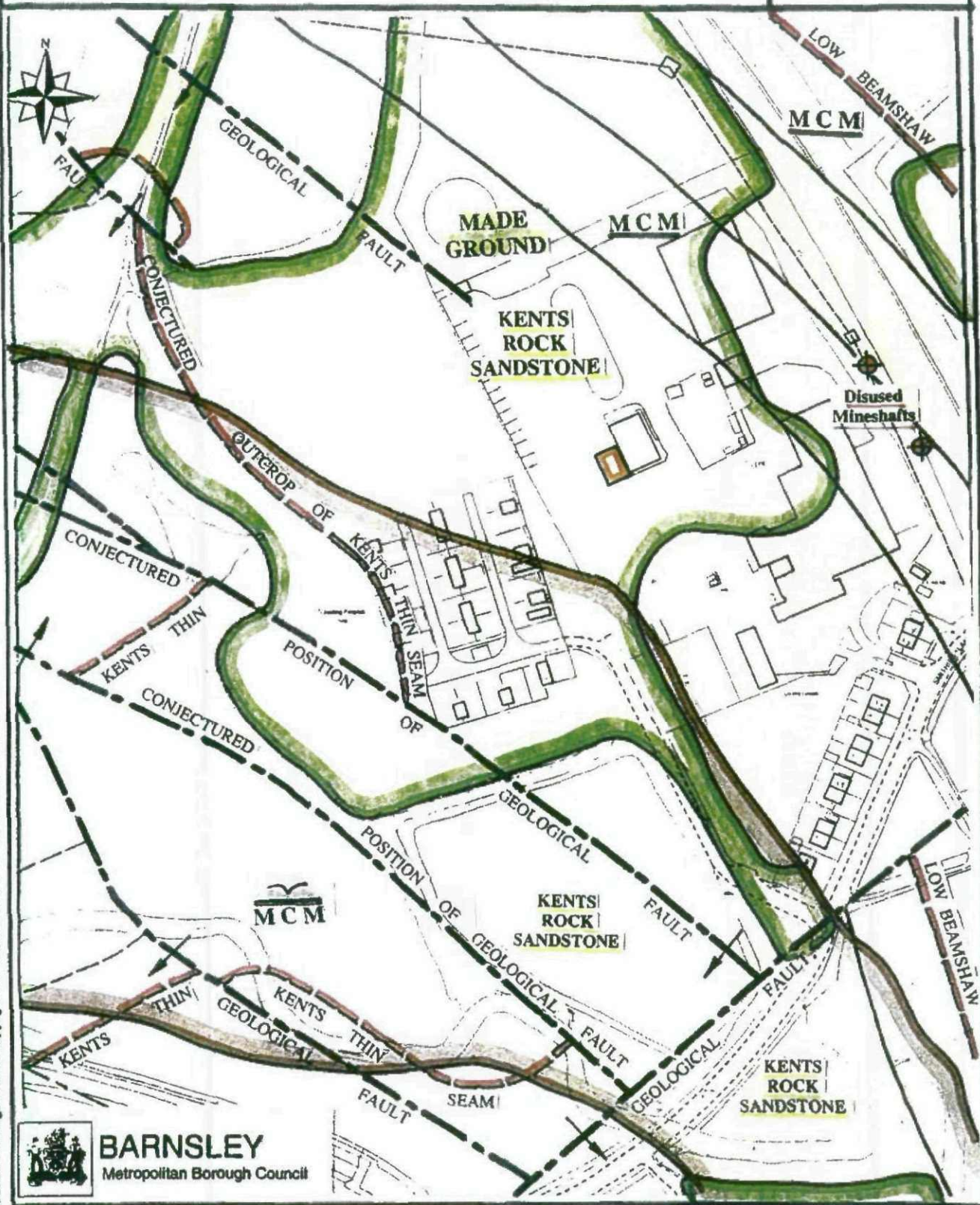
P. James,
Principal Mining Engineer.

DRAWING TITLE

PROPOSED CHANGING ROOM EXTENSION & REFURBISHMENT SMITHIES LANE DEPOT

DRAWING NO.

M4298/4A



SCALE	DATE		O.S REFERENCE
1:2500	12.12.11	SOUTH YORKSHIRE MINING	SE 3408
DRAWN BY: AS	CHECKED BY	ADVISORY SERVICE	P. JAMES BSc (Hons) PRINCIPAL MINING ENGINEER

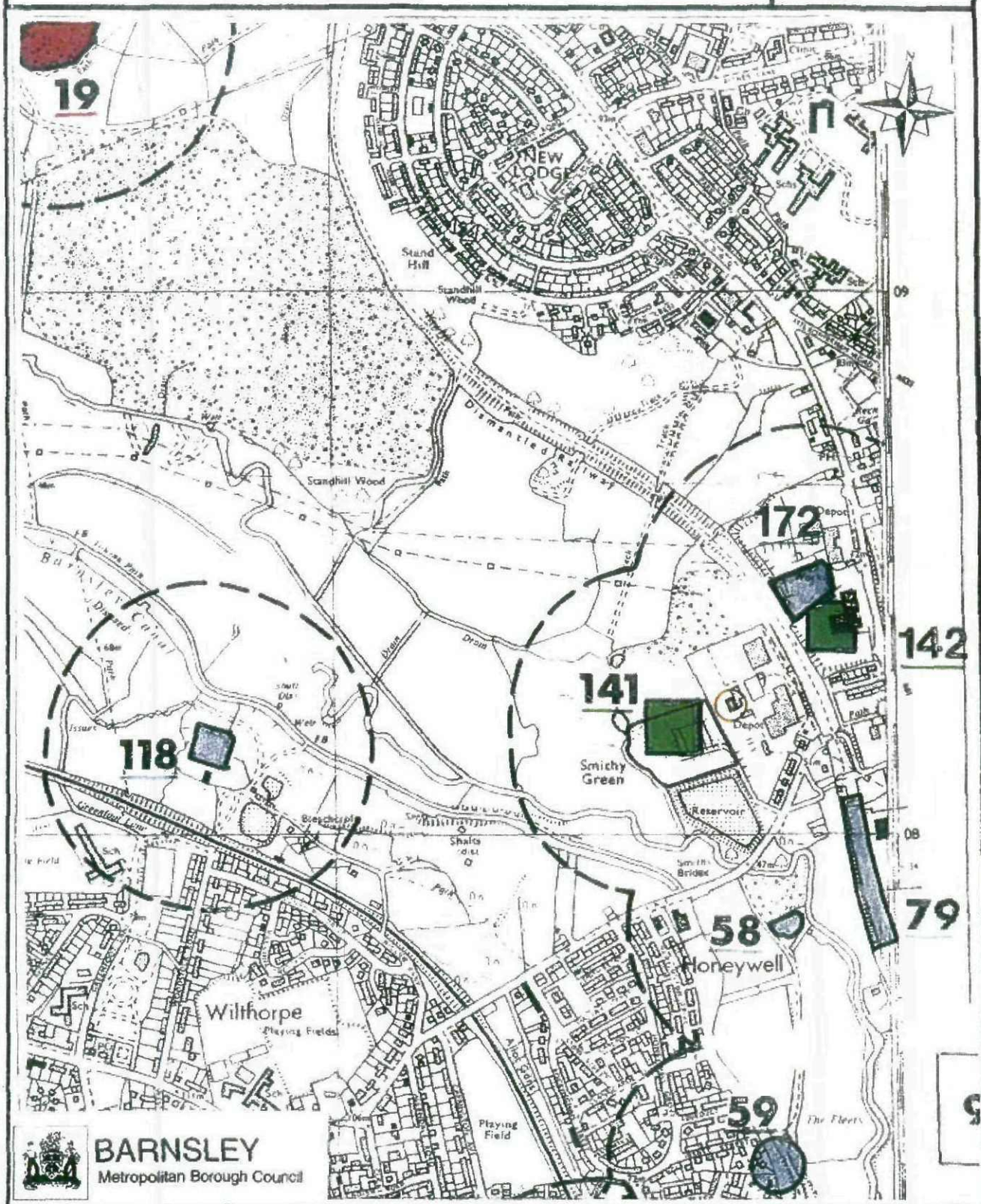
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DRAWING TITLE

PROPOSED CHANGING ROOM EXTENSION & REFURBISHMENT
SMITHIES LANE DEPOT
LANDFILL

DRAWING NO.

M4298/4B



BARNSLEY
Metropolitan Borough Council

SCALE	DATE		O.S REFERENCE
1:10000	12.12.11	**SOUTH YORKSHIRE MINING**	SE 30 NW
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