MINERAL REPORT

SYMAS

Date: 27th November, 2012

My Ref: PJ/M2385/3

CONFIDENTIAL

LAND AT GENN LANE, WARD GREEN, BARNSLEY

INTRODUCTION

The land at Genn Lane, Ward Green (edged orange on the attached drawing M2385/3A) is being considered for re-development with the construction of affordable housing. The site is located within a Coal Authority planning referral area. This report reviews the geology and mining history of the site and provides a risk assessment with regard to the potential for mining legacy related hazards.

GEOLOGICAL INFORMATION

Geological records indicate the site to be immediately underlain by mudstones and siltstones of the Middle Coal Measures.
Land to the west of the site is covered by an unknown thickness of made ground associated with a former landfill site.
The conjectured surface position of an east-west trending geological fault is shown approximately 30m to the north of the site.
The Low Beamshaw Coal seam (approx. thickness 450 to 600mm) is conjectured to outcrop at the south western corner of the site in the position shown on the attached drawing. The seam dips at approximately 1 in 15 to the NE and is therefore likely to be at or close to the surface beneath the land.

MINING INFORMATION

Shallow Mine Workings

SYMAS has no records of any shallow mine workings in the Low Beamshaw seam beneath the site or in the general area.
Ground investigations were undertaken in 2001 approximately 100m to the south east for an extension to Ward Green Primary School. The investigation encountered the Low Beamshaw seam intact at a shallow depth.
Given the seams limited thickness and quality and it presence at surface, the risk of unrecorded ancient shallow mine workings being present is considered to be LOW to NEGLIGABLE.

Deep Mining

The area has been affected by deep mining subsidence from underground mine workings in five coal seams. The most recent workings were undertaken in the 1960's. The site now lies remote from the active coalfield and should not be influenced by deep mining subsidence for the foreseeable future.

FORMER LAND USES

Historical ordnance survey plans do not indicate any previous industrial land use prior to the construction of the existing buildings.

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LANDFILL

A former landfill site is located immediately to the west. The landfill was completed in 1989 and contains excavation, demolition and construction waste. The site is designated as a category 4 landfill site or a site which was licensed to accept material that would not normally be expected to give rise to landfill gas.

GROUND CONDITIONS

Ground conditions in the general area are known to locally comprises shrinkable clays and mudstones. Foundations should be cut to competent bedrock and/or suitably designed. Any coal encountered should be removed and the excavation sides blinded off with a lean mix concrete to prevent the risk of spontaneous combustion occurring.

CONCLUSIONS

1. The site is stable from the deep mining subsidence aspect and should remain so for the foreseeable future.

2. The Low Beamshaw Coal Seam is likely to be present at or close to the surface. Given the seams limited thickness, the risk of ancient unrecorded shallow mine workings or mining legacy risks being present is considered to be LOW to NEGLIGABLE.

   Any coal encountered during the excavation of foundations should be removed and the excavation sides blinded off with a lean mix concrete to prevent spontaneous combustion from occurring. The foundations should be formed on competent bedrock and will be subject to building regulation inspection and approval.

3. Historical ordnance survey plans do not indicate any previous industrial land use which could have caused contamination problems.

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Report prepared by P. James 27th November, 2012.

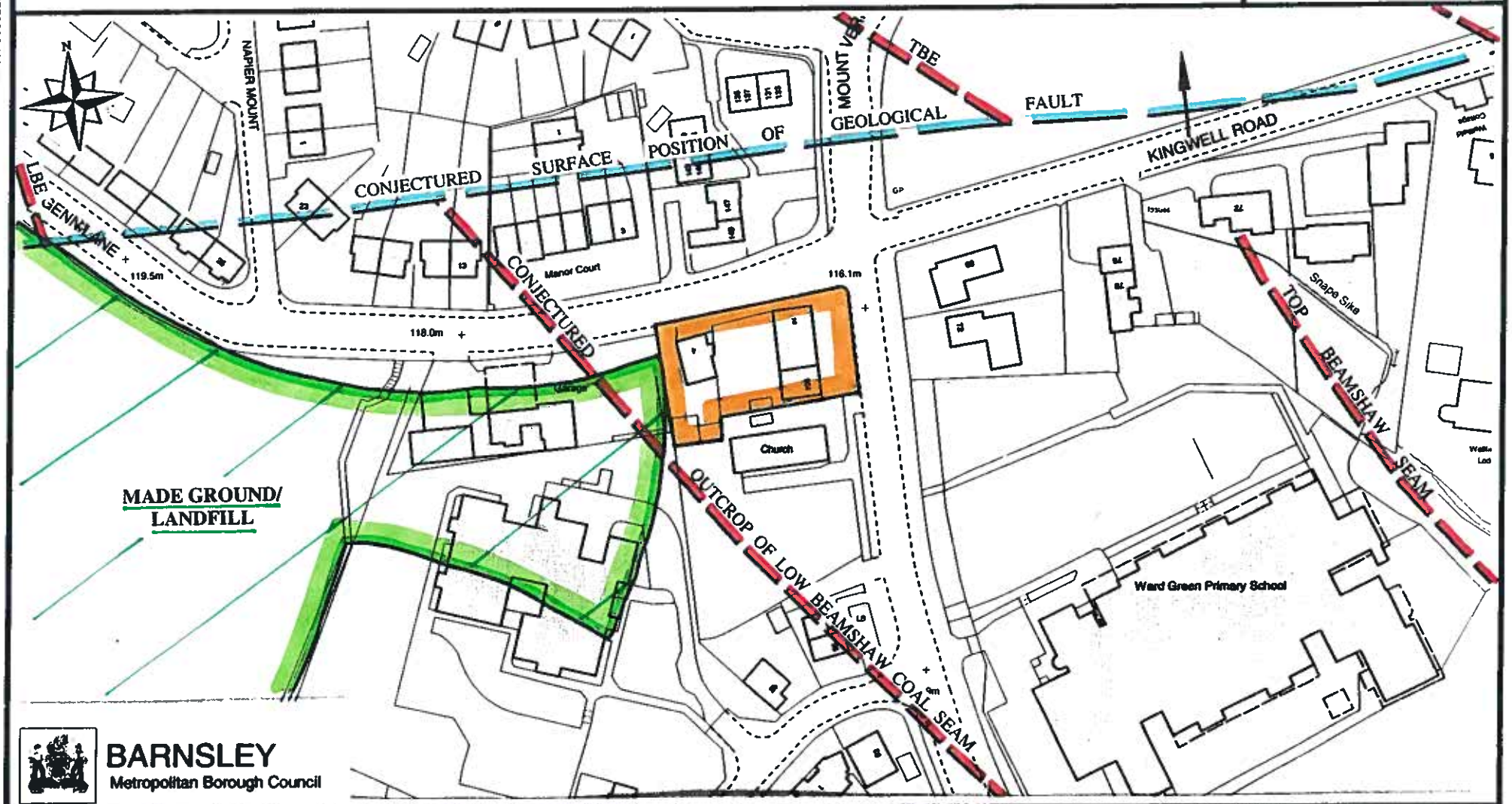
P. James,
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DRAWING TITLE

LAND AT GENN LANE
WARD GREEN

DRAWING NO.

M2385/3A



BARNSLEY
Metropolitan Borough Council

SCALE	DATE		O.S REFERENCE
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