Date: 19th March 2025

Enquiries to: Mr. P. James

Our ref: M931/8

Your ref:

SYMAS
Principal Mining Engineer
Barnsley Metropolitan Borough Council
PO Box 604
Barnsley S70 9FE

FOR THE ATTENTION OF MATTHEW YOUNG, BMBC ASSETS

COAL MINING RISK ASSESSMENT FOR EXTENSION/ADAPTATION AT SHAWLANDS PRIMARY SCHOOL, BARNSLEY

INTRODUCTION

A small extension/adaptation is proposed at Shawlands Primary school, Shaw Street Barnsley, in the area circled orange on the attached drawing.

This report provides a review of the geology and mining history of the site and an assessment for the potential of coal mining legacy risks.

GEOLOGICAL INFORMATION

Geological records indicate the site to be immediately underlain by mudstones and siltstones of the Middle Coal Measures.
The Barnsley Coal seam (approx. thickness 3m) is present beneath the school site at a relatively shallow depth.

MINING INFORMATION

Potential for Shallow Mine Workings, Mine entries and associated risks.

The site is designated as being located within a Mining Remediation Authority planning referral area due to the shallow depth of the Barnsley Coal seam and the potential for coal mining legacy related hazards and risks. The Barnsley seam is a good quality coal which has been extensively mined in the Barnsley area. Ancient unrecorded shallow coal mine workings and associated hazards, such as incidents of surface instability, have occurred throughout the borough down dip of the Barnsley seam outcrop. Crown holes in the order of 2 metres in diameter have been experienced where the upward migration of shallow mining voids has occurred when present in the Barnsley seam to around 15m depth.

SYMAS has no records of any shallow mine workings beneath the school site and there are no records of any mine entries in the immediate vicinity.

A site investigation was undertaken on the site in 1971 prior to the construction of the school. A further limited borehole site investigation was undertaken in 2003. The borehole positions in the vicinity of the proposed extension are shown on the attached drawing. The borehole logs are appended to this report.
The site investigations proved the Barnsley coal seam to be unworked and intact at a depth of approx. 14 metres below surface.

The risk of mining legacy related risks affecting the proposal are therefore considered as LOW.

Deep Mining

The area has been affected by deep mining subsidence from underground deep mine workings in the past. However all workings predate the schools construction and therefore the school has not been affected by deep coal mining subsidence. The site now lies remote from the active coalfield and should not be influenced by deep mining subsidence for the foreseeable future.

Mine Gas

SYMAS has no records of any fugitive mine gas or water issues affecting the site.

FORMER LAND USES

Historical ordnance survey plans do not indicate any previous built development or industrial land use prior to the construction of the school.

CONCLUSIONS

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

2. The Barnsley Coal seam is present at a depth of approximately 14m beneath the site. Site investigations undertaken on the school site adjacent to the proposed extension have proved intact coal.

3. Foundations excavations should be closely inspected. In the event of any weak or unusual ground conditions being observed, SYMAS should be notified for an onsite inspection.
SYMAS has no record of the foundation design of the existing school buildings and extensions.

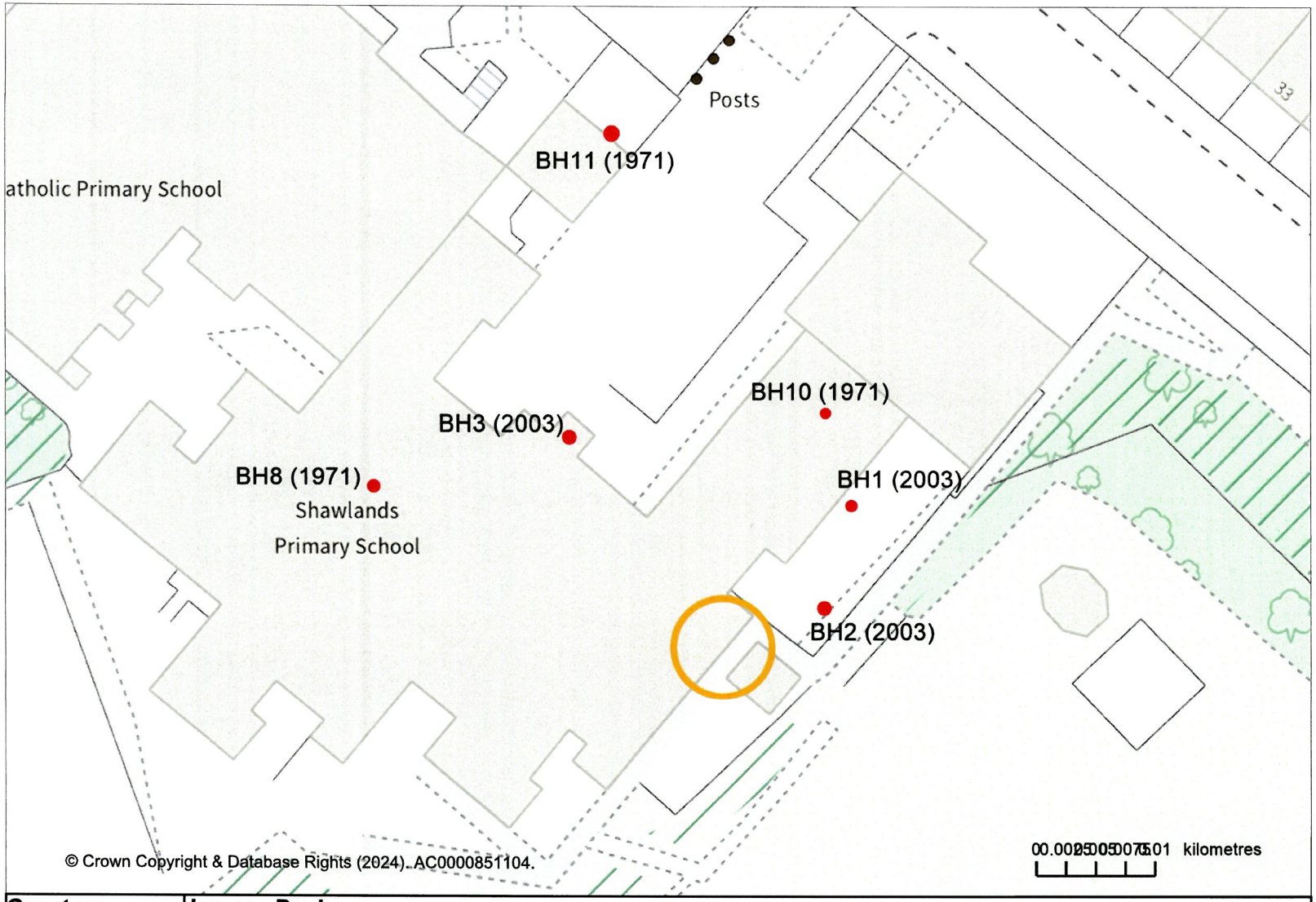
4. Consultation with the Mining Remediation Authority is required prior to any investigation or operation that involves entry into any coal or mines of coal, including coal mine shafts, adits and workings. The Documentation which supports the Authority's Permissions procedures can be viewed at www.coal.gov.uk/services/permissions/index.cfm.

Report prepared by P. James 19th March, 2025.

P James

P. James,
Principal Mining Engineer.

SYMAS



OS Maps Outdoor

Creator:	**James , Paul**
Date:	**Thursday, March 20, 2025**
Scale:	**1:500**

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BARNSLEY
Metropolitan Borough Council

SOUTH YORKSHIRE MINING ADVISORY SERVICE

BOREHOLE RECORD

SITE Shawlands Junior & Infants School

BOREHOLE NO. BH1

BORING METHOD Openhole

ORDNANCE DATUM LEVEL

BOREHOLE DIAMETER 100 mm

STANDING WATER LEVEL -

DATE COMMENCED 25th February, 2003

DATE COMPLETED 25th February, 2003

DEPTH From	DEPTH To	Description of Strata	Thickness	Remarks
m	m		m	
0	0.4	Top Soil	0.4	
0.4	2.0	Brown sandy clay	1.6	
2.0	6.4	Mod strong yellow grey/mudstone	4.4	
6.4	14.9	Grey mudstone	8.5	Water from 12.00 m
14.9	18.6	Coal	3.7	Barnsley Seam
18.6	21.0	Grey mudstone	2.4	
21.0	30.0	Strong grey/brown mudstone	9.0	
		Hole terminated at 30.0 m		

DATE 6th March, 2003

ENGINEER

SOUTH YORKSHIRE MINING ADVISORY SERVICE

BOREHOLE RECORD

SITE Shawlands Junior & Infants School

BOREHOLE NO. BH2

BORING METHOD Openhole

ORDNANCE DATUM LEVEL

BOREHOLE DIAMETER 100 mm

STANDING WATER LEVEL -

DATE COMMENCED 25th February, 2003

DATE COMPLETED 25th February, 2003

DEPTH From	DEPTH To	Description of Strata	Thickness	Remarks
m	m		m	
0	0.4	Top Soil	0.4	
0.4	3.0	Brown sandy clay	2.6	
3.0	6.5	Mod strong yellow grey/mudstone	3.5	
6.5	14.2	Grey mudstone	7.7	Water from 12.00 m
14.2	18.4	Coal	4.2	Barnsley Seam
18.4	22.0	Grey mudstone	3.6	
22.0	30.0	Strong grey/brown mudstone	8.0	
		Hole terminated at 30.0 m		

DATE 6th March, 2003

ENGINEER

SOUTH YORKSHIRE MINING ADVISORY SERVICE

BOREHOLE RECORD

SITE Shawlands Junior & Infants School BOREHOLE NO. BH3

BORING METHOD Openhole ORDNANCE DATUM LEVEL

BOREHOLE DIAMETER 100 mm STANDING WATER LEVEL -

DATE COMMENCED 25th February, 2003 DATE COMPLETED 25th February, 2003

DEPTH From	DEPTH To	Description of Strata	Thickness	Remarks
m	m		m	
0	0.6	Trench 1	0.6	
0.6	1.2	Made ground	0.6	
1.2	2.5	Yellow/grey clay	1.3	
2.5	4.0	Light grey mudstone	1.5	
4.0	4.6	Yellow/grey mudstone	0.6	
4.6	5.8	Grey mudstone	1.2	
5.8	12.5	Weak grey mudstone (soft)	6.7	Water at 9.00 m
12.5	14.5	Coal	2.0	Edge of old workings?
14.5	15.0	Grey mudstone	0.5	
		Hole terminated at 15.0 m		

DATE 6th March, 2003 ENGINEER

SE 30 NW 216

3369 0597

Holst & Co Limited

Site Investigation Division

Parkside Lane, Dewsbury Road, Leeds, LS11 5SX

Contract No. L4108/F1674 Borehole No. 8

Location Barnsley Ground Level

Client Sir John Burnett Tait Durrant & Ptrs Date 21.8.71

BOREHOLE LOG

STRATA	Legend	Depth below Ground Level	Thickness of Strata	Type of Sample	c lb/sq. ft.	ϕ deg.	m.c %	γ lb/cu. ft.	N
Topsoil and brown sandy clay		5'0	5'0		Openhole drilling				
Mudstone, siltstone and sandstone		33'0	28'0						
Coal		42'0	9'0						
Fireclay		44'0	2'0						

Water Struck at None encountered Maximum Observed Water Level

Water levels are subject to seasonal or tidal variation and should not be taken as constant

SE 30 NW 218
3373 0598

Holst & Co Limited

Site Investigation Division

Parkside Lane, Dewsbury Road, Leeds, LS11 5SX

Contract No. L4108/F1674 Borehole No. 10

Location Barnsley Ground Level

Client Sir John Burnett Tait Durrant & Ptrs Date 22.8.71

BOREHOLE LOG

STRATA	Legend	Depth below Ground Level	Thickness of Strata	Type of Sample	c lb/sq. ft.	ø deg.	m.c %	γ lb/cu. ft.	N
Topsoil and brown sandy clay		5'0	5'0		Openhole drilling				
Mudstone, siltstone and sandstone		47'0	42'0						
Coal		56'0	9'0						
Fireclay		57'0	1'0						

Water Struck at None encountered Maximum Observed Water Level

Water levels are subject to seasonal or tidal variation and should not be taken as constant

SE 30 NW 219

3371 0600

Holst & Co Limited

Site Investigation Division

Parkside Lane, Dewsbury Road, Leeds, LS11 5SX

Contract No. L4108/F1674 Borehole No. 11

Location Barnsley Ground Level

Client Sir John Burnett Tait Durrant & Ptrs Date 22.8.71

BOREHOLE LOG

STRATA	Legend	Depth below Ground Level	Thickness of Strata	Type of Sample	c lb/sq. ft.	ϕ deg.	m.c %	γ lb/cu. ft.	N
Topsoil and brown sandy clay		5'0	5'0		Openhole drilling				
Mudstone, siltstone and sandstone		38'0	33'0						
Coal		47'0	9'0						
Fireclay		49'0	2'0						

Water Struck at None encountered Maximum Observed Water Level

Water levels are subject to seasonal or tidal variation and should not be taken as constant