

Our Ref: DE/16608/SOAKAWAYS

Your Ref:

Contact: David Emanuel

31st March 2021

Mr Kevyn Davies (e: kevyn@kdavies.co.uk)

Dear Mr Davies

INTRUSIVE COAL MINING RISK ASSESSMENT: LAND ADJACENT TO MIN Y GORS, HEOL Y GRAIG, CWMAFAN, PORT TALBOT SA12 9YD

Terra Firma (Wales) Limited were retained by Mr K Davies to undertake an intrusive Coal Mining Risk Assessment for Land Adjacent to Min Y Gors, Heol Y Graig, Cwmafan, Port Talbot.

The shallowest seam with recorded workings is the Two Feet Nine, at a depth of 88m bgl, and an extraction thickness of 1.22m, last worked in 1900. Given the age and depth of these workings they are not deemed to pose a risk to the sites surface. However, the Coal Authority Consultants Report (Report Ref: 71006440634001, July 2020) identified the outcrop of an unnamed coal seam within the study site.

On 25th & 26th March 2021 Terra Firma Wales Ltd attended site and performed three Rotary Percussive Boreholes to 30m depth. The Location of the boreholes, along with the proposed development, are presented in **Figure 01**.

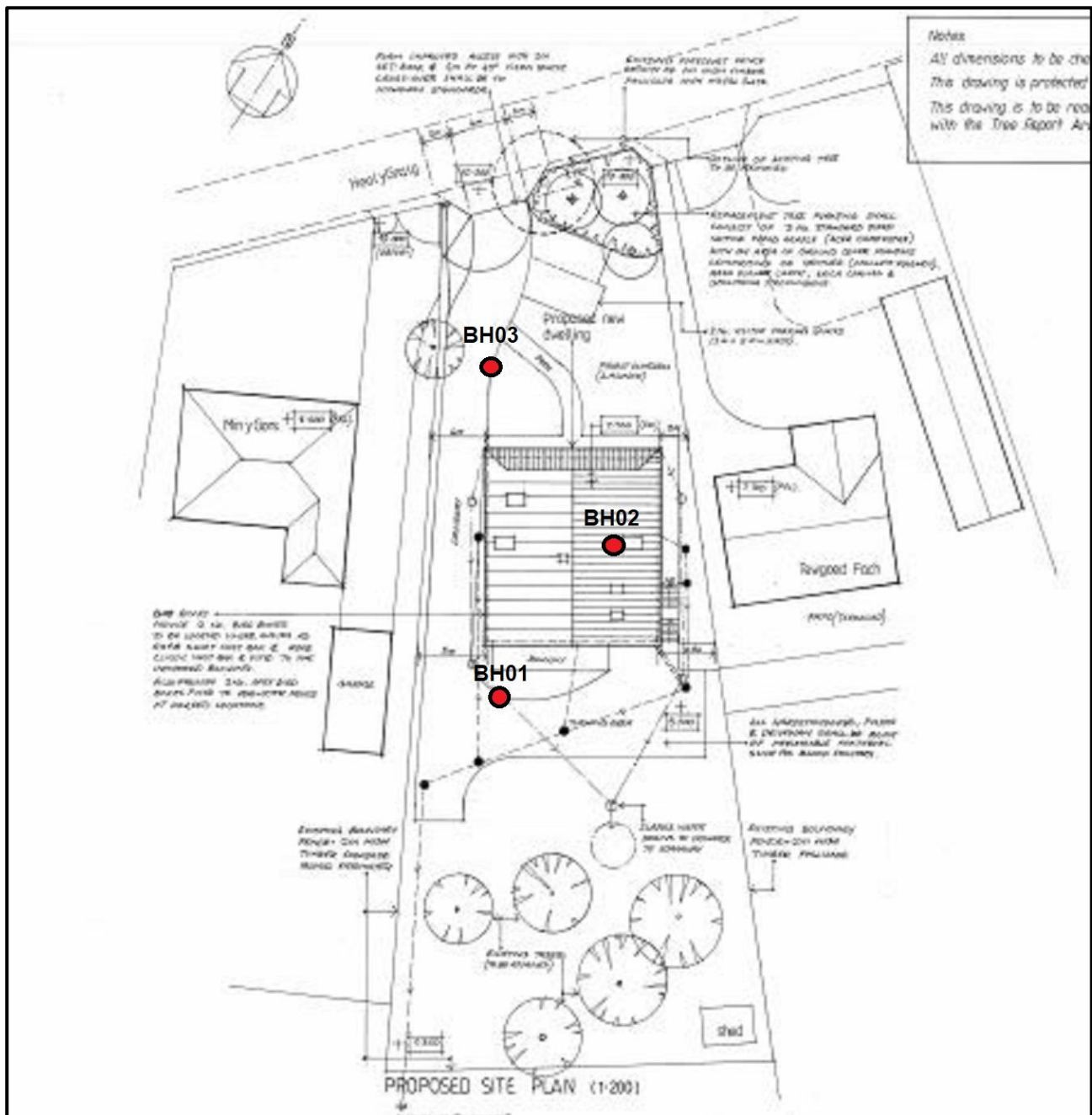


Figure 01. Borehole locations

Boreholes encountered between 15.50m and 17.00m of superficial deposits described as 'Clay' over 'Sand and Gravel'. Beneath the superficial deposits mudstone was encountered to the base of the boreholes (30m).

We therefore confirm that there is no coal seam at less than 30m depth beneath the footprint of the proposed development.

We trust that the above is to your satisfaction, however, if you have any queries or require any further information please do not hesitate to contact us.

Yours sincerely

for: Terra Firma (Wales) Ltd

Mr D Emanuel

BOREHOLE LOGS

Borehole Log

Borehole No.

BH01

Sheet 1 of 2

Project Name: Cwmafan

Project No: 16608

Co-ords:

Hole Type
RO

Location:

Level:

Scale
1:100

Client:

Dates: 25/03/2021 -

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				5.00				CLAY (DRILLERS DESCRIPTION)	1
									2
									3
									4
									5
								SAND AND GRAVEL (DRILLERS DESCRIPTION)	6
									7
									8
									9
									10
									11
									12
									13
									14
				15.50					15
								MUDSTONE (DRILLERS DESCRIPTION)	16
									17
									18
									19
									20

Remarks:

Borehole Log

Borehole No.

BH01

Sheet 2 of 2

Project Name: Cwmafan

Project No: 16608

Co-ords:

Hole Type
RO

Location:

Level:

Scale
1:100

Client:

Dates: 25/03/2021 -

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								MUDSTONE (DRILLERS DESCRIPTION)	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
				30.00				End of Borehole at 30.000m	31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks:

Borehole Log

Borehole No.

BH02

Sheet 1 of 2

Project Name: Cwmafan

Project No: 16608

Co-ords:

Hole Type
RO

Location:

Level:

Scale
1:100

Client:

Dates: 26/03/2021 -

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				6.00				CLAY (DRILLERS DESCRIPTION)	1
									2
									3
									4
									5
									6
				16.50				SAND AND GRAVEL (DRILLERS DESCRIPTION)	7
									8
									9
									10
									11
									12
									13
									14
									15
									16
								MUDSTONE (DRILLERS DESCRIPTION)	17
									18
									19
									20

Remarks:

Borehole Log

Borehole No.

BH02

Sheet 2 of 2

Project Name: Cwmafan

Project No:
16608

Co-ords:

Hole Type
RO

Location:

Level:

Scale
1:100

Client:

Dates: 26/03/2021 -

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
								MUDSTONE (DRILLERS DESCRIPTION)	21
									22
									23
									24
									25
									26
									27
									28
									29
									30
				30.00				End of Borehole at 30.000m	31
									32
									33
									34
									35
									36
									37
									38
									39
									40

Remarks:

Borehole Log

Borehole No.

BH03

Sheet 1 of 2

Project Name: Cwmafan

Project No:
16608

Co-ords:

Hole Type
RO

Location:

Level:

Scale
1:100

Client:

Dates: 26/03/2021 -

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
				6.00				CLAY (DRILLERS DESCRIPTION)	1
									2
									3
									4
									5
									6
								SAND AND GRAVEL (DRILLERS DESCRIPTION)	7
									8
									9
									10
									11
									12
									13
									14
									15
									16
				17.00				MUDSTONE (DRILLERS DESCRIPTION)	17
									18
									19
									20

Remarks:



Tel: 02920 735354
info@terrafirmawales.co.uk
www.terrafirmawales.co.uk

Geotechnical & Geoenvironmental Specialists

Borehole Log

Borehole No.

BH03

Sheet 2 of 2

Project Name: Cwmafan

Project No:
16608

Co-ords:

Hole Type
RO

Location:

Level:

Scale
1:100

Client:

Dates: 26/03/2021 -

Logged By

Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Well	Legend	Stratum Description	
	Depth (m)	Type	Results						
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									22
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				30.00					30
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Remarks: