

12824/PD/HP/A

3 April 2023

Merthyr Valleys Homes Ltd
Ty Brychan
22 Lansbury Road
Gellideg
Merthyr Tydfil
CF48 1HA

For the attention of Mr Paul Wyatt

Dear Sirs,

Proof Drilling Ironstone Mining Investigation – Swansea Road, Merthyr Tydfil

Further to your instruction, a rotary drilling investigation of the above site has been undertaken in order to assess the shallow mining risk beneath the above site, which includes an area to the north west of the site that was previously inaccessible. We can report as follows:

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Background

A site investigation report was carried out for the above site by Intégral Géotechnique in August 2017 report reference 12034/PB/17/SI, which included a desk study, rotary drilling, trial pitting, soakaway testing, window sampling, contamination testing, gas monitoring together with recommendations.

The above report gives details that the site is likely to be underlain at shallow depths by a series of sub-horizontal southerly dipping ironstones collectively known as the Rosser Ironstone Veins, which occur within the approximately 10m thick sequence of strata that underlies the Garw coal seam. These ironstone veins are known to have been extensively mined in the area in the past.

The rotary drilling undertaken during the above site investigation identified some evidence of broken ground likely to be backfilled ironstone workings beneath the site. In addition, the above report recommended further plot specific rotary proof drilling to establish the extent of any shallow ironstone mine-workings.

This report details the recent and previous proof drilling carried out on the proposed plots on site at locations indicated on Figure 1. Previously an area was not accessible to the north west of the site due the presence of Japanese Knotweed, trees and vegetation.

Drilling Works

In order to confirm the approximate extent of the area that is underlain by the shallow ironstone mine workings, thirty-six boreholes were drilled beneath the site using Klemm rotary drilling rigs.

The hydraulically operated drilling rig used compressed air and water generating an air mist as the flushing medium. All of the probeholes were approximately 105mm in diameter and were extended to penetrate through the horizons of the ironstone seam or mine workings or otherwise and into the underlying solid strata.

The borehole locations are shown on the attached plan and the borehole logs, which are based on the driller's logs, are also enclosed in Appendix A.

Based upon the findings of the previous investigation works, the boreholes were drilled down to a depth of 25mbgl, in order to prove the extent and depths of the any potential ironstone vein and/or its associated mine-workings.

Findings from Rotary Drilling Works

The rockhead was encountered at depths of between 5.7 to 19.1mbgl in BH19 and BH8 respectively. The overlying deposits typically consisted of significant portion of made ground, which in general comprised of colliery spoil ranging from approximately 4.5 to 9.0mbgl, subsequently encountering natural superficial deposits down to rockhead. The rock strata consisted of bands of mudstone, sandstone and ironstone down to 25.0mbgl.

Twenty-two of the twenty-eight boreholes drilled did not encountered any evidence of shallow mine-workings or broken ground or voids.

Six of the twenty-eight drilled boreholes did encounter broken ground but typically with only temporary loss of flush indicting that any shallow mining workings have been substantially backfilled. These boreholes are BH17, BH19, BH22, BH23, BH24 and BH25 all located close to the sites south west boundary.

No significant ground water was encountered in any of boreholes. On completion of the drilling each borehole was sealed with a bentonite plug.

Based on the rotary drilling works, the lack of workings or evidence or significant backfilling of working there is a low risk of shallow mining risk present beneath the area of the site where proof drilling was carried out and a programme of ground stabilisation by drilling and grouting is not required in these areas.

Reclamation and Foundation Recommendations.

Reinforced concrete rafts on improved made ground are considered to be a sufficient precaution against the perceived level of remnant mining risk.

Due to the loose nature and poor state of compaction of the existing made ground, it is recommended to undertake 'turn and compact' preparatory earthworks in order to improve the strength of the shallow made ground.

The recommended ground improvement technique would be to excavate and process the existing made ground materials down to depths of typically approximately 2m, proof roll the reduced formations, infill any 'soft spots' with structural fill, then replace the acceptable portion of the excavated materials in a controlled manner. The replaced materials should be placed in layers, in accordance with the DTp Specification for Highway Works.

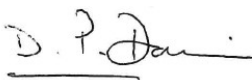
The acceptable well compacted existing colliery spoil materials should be capped off with a minimum 500mm thick regulating layer of well compacted imported granular materials, such as Department of Transport (DTp) Type 1 sub-base, or similar approved.

Following the implementation of all the above ground improvement techniques, reinforced raft-type concrete foundations could be used, assuming a maximum applied bearing pressure of 50kN/m².

Rafts should be designed for a 3m lack of support design criteria and 1.5m cantilever at building corners.

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 faithfully,



D P Davies
For
Intégral Géotechnique (Wales) Limited

Enc:
Appendix A Rotary Borehole Logs
Figure

Appendix A
Rotary Borehole Logs

		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH01 Sheet 1 of 2	
Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO	
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100	
Diameter of Boring: 105mm				Depth of Casing: 9.00m				Dates 14/06/2022 -		Logged By: ND&DD	

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
											MADE GROUND	1
							6.00					2
												3
												4
												5
											Superficial Deposits	6
												7
												8
												9
							10.00				Mudstone	10
												11
												12
												13
												14
												15
												16
												17
												18
												19
							20.00					20

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH01 Sheet 2 of 2		
				Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100		
Diameter of Boring: 105mm				Depth of Casing: 9.00m				Dates 14/06/2022 -		Logged By: ND&DD		
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							25.00				Sandstone/Ironstone bands	21
												22
												23
												24
												25
											End of Borehole at 25.00 m	26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40
Remarks:										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		AGS

Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH02 Sheet 1 of 2				
Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO				
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100				
Diameter of Boring: 105mm				Depth of Casing: 9.00m				Dates 14/06/2022 -		Logged By: ND&DD				
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description			
		Depth (m)	TCR	SCR	RQD	FI					MADE GROUND	1		
							6.00					2		
												3		
												4		
												5		
												6		
											Superficial Deposits	7		
												8		
												9		
												10		
							11.10					11		
											Mudstone	12		
							12.00					13		
											Mudstone	14		
												15		
												16		
												17		
												18		
												19		
												20		
Remarks:									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)			W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH02 Sheet 2 of 2						
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO				
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100								
Diameter of Boring: 105mm		Depth of Casing: 9.00m				Dates 14/06/2022 -		Logged By: ND&DD								
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description					
		Depth (m)	TCR	SCR	RQD	FI										
							22.00					21				
											Sandstone/Ironstone bands	22				
												23				
												24				
							25.00					25				
											End of Borehole at 25.00 m	26				
												27				
												28				
												29				
												30				
												31				
												32				
												33				
												34				
												35				
												36				
												37				
												38				
												39				
												40				
Remarks:									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)				W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			

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Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO		
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100		
Diameter of Boring: 105mm				Depth of Casing: 10.50m				Dates 15/06/2022 -		Logged By: ND&DD		
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							7.50				MADE GROUND	1
											Superficial Deposits	2
												3
												4
												5
												6
												7
												8
												9
												10
												11
												12
												13
												14
												15
												16
							16.90				Mudstone	17
												18
												19
												20
Remarks:									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			



		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH03 Sheet 2 of 2		
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100				
Diameter of Boring: 105mm		Depth of Casing: 10.50m				Dates 15/06/2022 -		Logged By: ND&DD				
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							22.70					21
												22
												23
												24
							25.00					25
												26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Remarks:

Key:

D - Small disturbed sample
 B - Bulk disturbed sample
 ES - Environmental soil sample
 SPT - Standard Penetration Test (split spoon)
 CPT - Standard Penetration Test (solid cone)

W - Water sample
 U - Undisturbed sample
 TCR - Total Core Recovery
 SCR - Solid Core Recovery
 RQD - Rock Quality Designation



Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com					Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH04 Sheet 1 of 2	
Location: Merthyr Tydfil							Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO	
Equipment: KLEMM							Diameter of Casing: 125mm				Level:		Scale 1:100	
Diameter of Boring: 105mm							Depth of Casing: 15.50m				Dates 15/06/2022 -		Logged By: ND&DD	
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description			
		Depth (m)	TCR	SCR	RQD	FI								
							3.50			key key key incorrect incorrect incorrect key key key incorrect incorrect				



Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH04 Sheet 2 of 2			
Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO			
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm				Depth of Casing: 15.50m				Dates 15/06/2022 -		Logged By: ND&DD			
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description		
		Depth (m)	TCR	SCR	RQD	FI							
							25.00				Sandstone/Ironstone bands	21	
												22	
												23	
												24	
												25	
											End of Borehole at 25.00 m	26	
												27	
												28	
												29	
												30	
												31	
												32	
												33	
												34	
												35	
												36	
												37	
												38	
												39	
												40	
Remarks:										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		AGS	

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Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO	
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100	
Diameter of Boring: 201050mm				Depth of Casing: 16.50m				Dates 13/06/2022 -		Logged By: ND&DD	

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
											MADE GROUND	
												1
												2
												3
												4
												5
												6
												7
							8.00				Superficial Deposits	8
												9
												10
												11
												12
												13
												14
												15
												16
												17
							17.40				Mudstone	18
							18.00				Mudstone	19
												20

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH05 Sheet 2 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 201050mm		Depth of Casing: 16.50m				Dates 13/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							21.00					
											Sandstone/Ironstone bands	21
												22
												23
												24
							25.00					25
											End of Borehole at 25.00 m	26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO		
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100		
Diameter of Boring: 105mm				Depth of Casing: 16.30m				Dates 13/06/2022 -		Logged By: ND&DD		
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI					MADE GROUND	1
							8.80					2
												3
												4
												5
												6
												7
												8
												9
											Superficial Deposits	10
												11
												12
												13
												14
												15
												16
							17.20					17
											Sandstone/Ironstone bands	18
												19
							19.10				Mudstone	20
Remarks:										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		



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				Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100		
Diameter of Boring: 105mm				Depth of Casing: 16.30m				Dates 13/06/2022 -		Logged By: ND&DD		
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							23.00				Sandstone/Ironstone bands	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
							25.00				End of Borehole at 25.00 m	
Remarks:												
Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation												AGS

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Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO		
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100		
Diameter of Boring: 105mm				Depth of Casing: 18.00m				Dates 13/06/2022 -		Logged By: ND&DD		
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI					MADE GROUND	
							8.50					1
												2
												3
												4
												5
												6
												7
												8
											Superficial Deposits	9
												10
												11
												12
												13
												14
												15
												16
												17
												18
							19.00				Mudstone/Sandstone bands	19
												20
Remarks:									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			

		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH07 Sheet 2 of 2		
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100		
Diameter of Boring: 105mm				Depth of Casing: 18.00m				Dates 13/06/2022 -		Logged By: ND&DD		
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							22.50					21
												22
												23
												24
							25.00					25
												26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Remarks:

Key:

D - Small disturbed sample
 B - Bulk disturbed sample
 ES - Environmental soil sample
 SPT - Standard Penetration Test (split spoon)
 CPT - Standard Penetration Test (solid cone)

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 U - Undisturbed sample
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Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO			
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm				Depth of Casing: 15.00m				Dates 14/06/2022 -		Logged By: ND&DD			
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description		
		Depth (m)	TCR	SCR	RQD	FI					MADE GROUND	1	
							8.40					2	
												3	
												4	
												5	
												6	
												7	
												8	
											Superficial Deposits	9	
												10	
												11	
												12	
												13	
												14	
												15	
												16	
												17	
												18	
							19.10				Mudstone	19	
												20	
Remarks:									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation				

		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH08 Sheet 2 of 2		
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100				
Diameter of Boring: 105mm		Depth of Casing: 15.00m				Dates 14/06/2022 -		Logged By: ND&DD				
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							22.20					21
												22
											Sandstone/Ironstone bands	23
												24
							25.00					25
											End of Borehole at 25.00 m	26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Remarks:

Key:
D - Small disturbed sample
B - Bulk disturbed sample
ES - Environmental soil sample
SPT - Standard Penetration Test (split spoon)
CPT - Standard Penetration Test (solid cone)

W - Water sample
U - Undisturbed sample
TCR - Total Core Recovery
SCR - Solid Core Recovery
RQD - Rock Quality Designation



		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH09 Sheet 1 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 9.00m				Dates 14/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
											MADE GROUND	1
							9.00					2
												3
												4
												5
												6
												7
												8
							10.10				Boulder CLAY	9
											Superficial Deposits	10
												11
												12
												13
							14.00				Mudstone/Sandstone	14
												15
												16
												17
												18
												19
												20

Remarks:	Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH09 Sheet 2 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 9.00m				Dates 14/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							21.00					
											Sandstone/Ironstone bands	21
												22
												23
												24
							25.00					25
											End of Borehole at 25.00 m	26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH10 Sheet 1 of 2	
Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO	
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100	
Diameter of Boring: 105mm				Depth of Casing: 10.50m				Dates 13/06/2022 -		Logged By: ND&DD	

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
											MADE GROUND	1
												2
												3
												4
												5
												6
												7
												8
							8.90				CLAY	9
												10
							11.40				Superficial Deposits	11
												12
												13
												14
												15
												16
												17
							17.20				Sandstone/Ironstone bands	18
												19
												20

Remarks:				Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)				W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation					
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		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH10 Sheet 2 of 2		
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100		
Diameter of Boring: 105mm				Depth of Casing: 10.50m				Dates 13/06/2022 -		Logged By: ND&DD		
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							25.00					21
												22
												23
												24
												25
												26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Remarks:

Key:

D - Small disturbed sample

B - Bulk disturbed sample

ES - Environmental soil sample

SPT - Standard Penetration Test (split spoon)

CPT - Standard Penetration Test (solid cone)

W - Water sample

U - Undisturbed sample

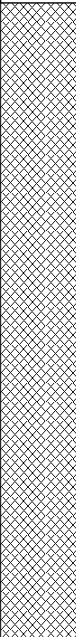
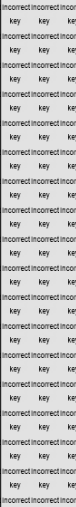
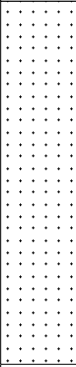
TCR - Total Core Recovery

SCR - Solid Core Recovery

RQD - Rock Quality Designation



		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH11 Sheet 1 of 2	
Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO	
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100	
Diameter of Boring: 105mm				Depth of Casing: 7.50m				Dates 13/06/2022 -		Logged By: ND&DD	

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							8.40				MADE GROUND	1
											Superficial Deposits	2
							15.20				Sandstone/Ironstone bands	3
												4
												5
												6
												7
												8
												9
												10
												11
												12
												13
												14
												15
												16
												17
												18
												19
												20

Remarks:				Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)				W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation					
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Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com						Project Name: Swansea Road						Project No.: 12824			Borehole No.: BH11 Sheet 2 of 2							
Location: Merthyr Tydfil						Client: Merthyr Valley Homes Ltd						Coordinates:			Hole Type: RO							
Equipment: KLEMM						Diameter of Casing: 125mm						Level:			Scale 1:100							
Diameter of Boring: 105mm						Depth of Casing: 7.50m						Dates 13/06/2022 -			Logged By: ND&DD							
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description											
		Depth (m)	TCR	SCR	RQD	FI																
							25.00					End of Borehole at 25.00 m										
																						21
																						22
																						23
																						24
																						25
																						26
																						27
																						28
																						29
																						30
																						31
																						32
																						33
																						34
																						35
																						36
																						37
																						38
																						39
																						40
Remarks:										Key: D - Small disturbed sampleW - Water sampleB - Bulk disturbed sampleU - Undisturbed sampleES - Environmental soil sampleTCR - Total Core RecoverySPT - Standard Penetration Test (split spoon)SCR - Solid Core RecoveryCPT - Standard Penetration Test (solid cone)RQD - Rock Quality DesignationAGS												

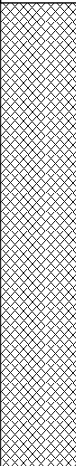
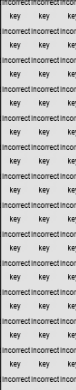
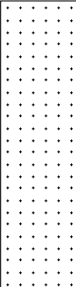
		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH12 Sheet 1 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 10.50m				Dates 14/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
											MADE GROUND	1
							10.50					2
												3
												4
												5
												6
												7
												8
												9
												10
											Superficial Deposits	11
												12
												13
												14
												15
							16.00				Mudsone	16
												17
												18
												19
							19.40				Sandstone/Ironstone bands	20

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			
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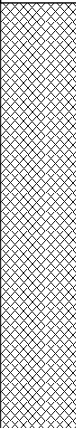
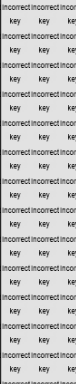
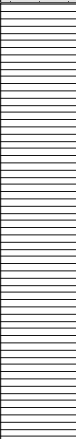
		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH13 Sheet 1 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 13.00m				Dates 14/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							6.20				MADE GROUND	1
											Superficial Deposits	2
							11.40				Mudstone	3
							12.50				Mudstone	4
							16.20				Sandstone/Ironstone bands	5

Remarks:	Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com						Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH13 Sheet 2 of 2	
Location: Merthyr Tydfil								Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO	
Equipment: KLEMM								Diameter of Casing: 125mm				Level:		Scale 1:100	
Diameter of Boring: 105mm								Depth of Casing: 13.00m				Dates 14/06/2022 -		Logged By: ND&DD	
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description				
		Depth (m)	TCR	SCR	RQD	FI									
							25.00								
											End of Borehole at 25.00 m				
													21		
													22		
													23		
													24		
													25		
													26		
													27		
													28		
													29		
													30		
													31		
													32		
													33		
													34		
													35		
													36		
													37		
													38		
													39		
													40		
Remarks:										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation					

		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH14 Sheet 1 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 11.00m				Dates 15/06/2020 -		Logged By: AD&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							5.70				MADE GROUND	1
											Superficial Deposits	2
							11.00				Mudstone	3
							17.00				Sandstone/Ironstone bands	4

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH14 Sheet 2 of 2						
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO				
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100								
Diameter of Boring: 105mm		Depth of Casing: 11.00m				Dates 15/06/2020 -		Logged By: AD&DD								
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description					
		Depth (m)	TCR	SCR	RQD	FI										
							21.00					21				
											Mudstone	22				
												23				
												24				
							25.00					25				
											End of Borehole at 25.00 m	26				
												27				
												28				
												29				
												30				
												31				
												32				
												33				
												34				
												35				
												36				
												37				
												38				
												39				
												40				
Remarks:										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)			W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			

		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH15 Sheet 1 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 9.00m				Dates 15/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
											MADE GROUND	1
							6.20					2
												3
												4
												5
												6
											Superficial Deposits	7
												8
							8.20				Sandstone/Mudstone bands	9
												10
												11
												12
												13
												14
												15
												16
												17
							18.00				Sandstone/Ironstone bands	18
												19
												20

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH16 Sheet 1 of 2						
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO				
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100								
Diameter of Boring: 105mm		Depth of Casing: 9.00m				Dates 15/06/2022 -		Logged By: ND&DD								
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description					
		Depth (m)	TCR	SCR	RQD	FI										
											MADE GROUND	1				
							6.40					2				
												3				
												4				
												5				
												6				
							8.40				Superficial Deposits	7				
												8				
											Mudstone	9				
												10				
												11				
												12				
												13				
												14				
												15				
												16				
							17.20				Ironstone	17				
												18				
												19				
												20				
Remarks:										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)			W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH16 Sheet 2 of 2					
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO			
		Equipment: KLEMM				Diameter of Casing: 125mm		Level:		Scale 1:100			
		Diameter of Boring: 105mm				Depth of Casing: 9.00m		Dates 15/06/2022 -		Logged By: ND&DD			
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description		
		Depth (m)	TCR	SCR	RQD	FI				incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect			
							21.00				Sandstone/Mudstone bands	21	
										.		22	
										.		23	
										.		24	
							25.00			.		25	
										.	End of Borehole at 25.00 m	26	
										.		27	
										.		28	
										.		29	
										.		30	
										.		31	
										.		32	
										.		33	
										.		34	
										.		35	
										.		36	
										.		37	
										.		38	
										.		39	
										.		40	
Remarks:										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			

		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH17 Sheet 1 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 7.50m				Dates 15/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
											MADE GROUND	1
							6.00					2
												3
												4
												5
												6
											Weathered Mudstone	7
							8.10					8
											Broken Drill	9
							9.00					10
											Mudstone	11
												12
												13
												14
							15.00					15
											Mudstone	16
												17
												18
							17.80					19
											Ironstone	20

Remarks:				Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)				W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation					
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Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BH17 Sheet 2 of 2							
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO							
Equipment: KLEMM		Diameter of Casing: 125mm		Level:		Scale 1:100							
Diameter of Boring: 105mm		Depth of Casing: 7.50m		Dates 15/06/2022 -		Logged By: ND&DD							
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description		
		Depth (m)	TCR	SCR	RQD	FI							
							23.40					21	
												22	
												23	
											Mudstone	24	
							25.00					25	
											End of Borehole at 25.00 m	26	
												27	
												28	
												29	
												30	
												31	
												32	
												33	
												34	
												35	
												36	
												37	
												38	
												39	
												40	
Remarks:									Key: D - Small disturbed sampleB - Bulk disturbed sampleES - Environmental soil sampleSPT - Standard Penetration Test (split spoon)CPT - Standard Penetration Test (solid cone) W - Water sampleU - Undisturbed sampleTCR - Total Core RecoverySCR - Solid Core RecoveryRQD - Rock Quality Designation				AGS

Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH18 Sheet 1 of 2		
Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO		
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100		
Diameter of Boring: 105mm				Depth of Casing: 9.00m				Dates 16/06/2022 -		Logged By: ND&DD		
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							6.00				MADE GROUND	1
												2
												3
												4
												5
							7.40				Superficial Deposits	6
												7
											Weathered Mudstone	8
												9
							9.10				Mudstone	10
												11
												12
												13
												14
							15.00				Ironstone/Sandstone	15
												16
												17
												18
												19
												20
Remarks:									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BH18 Sheet 2 of 2						
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO						
Equipment: KLEMM		Diameter of Casing: 125mm		Level:		Scale 1:100						
Diameter of Boring: 105mm		Depth of Casing: 9.00m		Dates 16/06/2022 -		Logged By: ND&DD						
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							25.00					21
												22
												23
												24
												25
												26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40
Remarks:										Key: D - Small disturbed sampleB - Bulk disturbed sampleES - Environmental soil sampleSPT - Standard Penetration Test (split spoon)CPT - Standard Penetration Test (solid cone) W - Water sampleU - Undisturbed sampleTCR - Total Core RecoverySCR - Solid Core RecoveryRQD - Rock Quality Designation		AGS

		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH19 Sheet 1 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 9.00m				Dates 16/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							5.70				MADE GROUND	1
												2
												3
												4
												5
												6
												7
												8
							9.10					9
							9.80					10
												11
												12
												13
												14
												15
												16
												17
												18
												19
							19.40					20

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH19 Sheet 2 of 2		
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100				
Diameter of Boring: 105mm		Depth of Casing: 9.00m				Dates 16/06/2022 -		Logged By: ND&DD				
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							25.00					21
												22
												23
												24
												25
												26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Remarks:

Key:

D - Small disturbed sample

B - Bulk disturbed sample

ES - Environmental soil sample

SPT - Standard Penetration Test (split spoon)

CPT - Standard Penetration Test (solid cone)

W - Water sample

U - Undisturbed sample

TCR - Total Core Recovery

SCR - Solid Core Recovery

RQD - Rock Quality Designation



		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH20 Sheet 1 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 7.50m				Dates 16/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
											MADE GROUND	1
							6.50					2
												3
												4
												5
												6
											Mudstone	7
												8
							9.50					9
											Sandstone	10
												11
							11.70					12
											Mudstone	13
												14
												15
												16
												17
												18
												19
												20

Remarks:	Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH20 Sheet 2 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 7.50m				Dates 16/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							21.00					
											Sandstone/Ironstone bands	21
												22
												23
												24
							25.00					25
											End of Borehole at 25.00 m	26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH21 Sheet 1 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 6.00m				Dates 16/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							6.00				MADE GROUND	1
											Mudstone	2
							10.00				Sandstone/Ironstone	3
							12.70				Mudstone	4
												5
												6
												7
												8
												9
												10
												11
												12
												13
												14
												15
												16
												17
												18
												19
												20

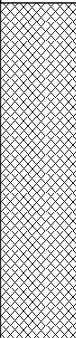
Remarks:	Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH21 Sheet 2 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 6.00m				Dates 16/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							21.50					21
											Sandstone/Ironstone bands	22
												23
												24
							25.00					25
											End of Borehole at 25.00 m	26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH22 Sheet 1 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 4.50m				Dates 17/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							4.50				MADE GROUND	1
											Mudstone	2
							8.50				Broken Ground	3
							9.70				Mudstone	4
												5
												6
												7
												8
												9
												10
												11
												12
												13
												14
												15
												16
												17
												18
												19
												20

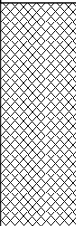
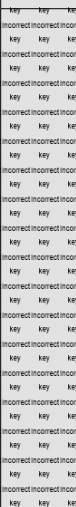
Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			
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		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH22 Sheet 2 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 4.50m				Dates 17/06/2022 -		Logged By: ND&DD			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							21.50					21
											Sandstone/Ironstone bands	22
												23
												24
							25.00					25
											End of Borehole at 25.00 m	26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH23 Sheet 1 of 2	
Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO	
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100	
Diameter of Boring: 105mm				Depth of Casing: 10.30m				Dates 17/06/2022 -		Logged By: DT&DR	

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							3.00				MADE GROUND	1
											Very weak Mudstone	2 3 4 5 6 7 8
							8.50				CLAY - Superficial Deposits	9
							10.10				Mudstone	10 11 12
							12.20				Broken Ground	13
							13.30				Normal Drilling	14 15 16 17 18 19 20

Remarks:				Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)				W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation					
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Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BH23 Sheet 2 of 2						
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO						
Equipment: KLEMM		Diameter of Casing: 125mm		Level:		Scale 1:100						
Diameter of Boring: 105mm		Depth of Casing: 10.30m		Dates 17/06/2022 -		Logged By: DT&DR						
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							21.50					21
											No Returns	22
												23
												24
							25.00					25
											End of Borehole at 25.00 m	26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40
Remarks:										Key: D - Small disturbed sampleB - Bulk disturbed sampleES - Environmental soil sampleSPT - Standard Penetration Test (split spoon)CPT - Standard Penetration Test (solid cone) W - Water sampleU - Undisturbed sampleTCR - Total Core RecoverySCR - Solid Core RecoveryRQD - Rock Quality Designation		AGS

		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH24 Sheet 1 of 2	
Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO	
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100	
Diameter of Boring: 105mm				Depth of Casing: 6.00m				Dates 15/06/2022 -		Logged By: DT&DR	

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
											MADE GROUND	1
							5.00				Superficial Deposits	2
							7.10				Sandstone	3
							8.50				Broken ground (No Returns)	4
							10.10				Normal Drilling (No Returns)	5
												6
												7
												8
												9
												10
												11
												12
												13
												14
												15
												16
												17
												18
												19
												20

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BH24 Sheet 2 of 2						
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO						
Equipment: KLEMM		Diameter of Casing: 125mm		Level:		Scale 1:100						
Diameter of Boring: 105mm		Depth of Casing: 6.00m		Dates 15/06/2022 -		Logged By: DT&DR						
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							21.50					21
											Normal Drilling (No Returns)	22
												23
												24
							25.00					25
											End of Borehole at 25.00 m	26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40
Remarks:										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road			Project No.: 12824		Borehole No.: BH25 Sheet 1 of 2	
Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd			Coordinates:		Hole Type: RO	
Equipment: KLEMM				Diameter of Casing: 125mm			Level:		Scale 1:100	
Diameter of Boring: 105mm				Depth of Casing: 6.00m			Dates 16/06/2022 -		Logged By: DT&DR	

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
											MADE GROUND	1
							5.00				CLAY - Superficial Deposits	2
							7.00				Sandstone	3
							8.80				Broken Ground	4
							10.30				Sandstone	5
							12.00				Mudstone	6
												7
												8
												9
												10
												11
												12
												13
												14
												15
												16
												17
												18
												19
							20.00					20

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH25 Sheet 2 of 2		
				Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100		
Diameter of Boring: 105mm				Depth of Casing: 6.00m				Dates 16/06/2022 -		Logged By: DT&DR		
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							25.00				Sandstone	21
												22
												23
												24
												25
											End of Borehole at 25.00 m	26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40
Remarks:										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		AGS

		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH26 Sheet 1 of 2	
Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO	
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100	
Diameter of Boring: 105mm				Depth of Casing: 16.50m				Dates 14/06/2022 -		Logged By: DT&DR	

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
											MADE GROUND	1
												2
												3
												4
												5
												6
												7
							7.50				Superficial Deposits	8
												9
												10
												11
												12
												13
												14
												15
												16
												17
												18
							18.00				Mudstone	19
												20

Remarks:				Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)				W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation					
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		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH26 Sheet 2 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100			
Diameter of Boring: 105mm		Depth of Casing: 16.50m				Dates 14/06/2022 -		Logged By: DT&DR			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							21.00					
											Sandstone/Ironstone bands	21
												22
												23
												24
							25.00					25
											End of Borehole at 25.00 m	26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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Intégral Géotechnique		Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH27 Sheet 1 of 2		
Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO		
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100		
Diameter of Boring: 105mm				Depth of Casing: 16.50m				Dates 15/06/2022 -		Logged By: DT&DR		
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI					MADE GROUND	1
							7.50					2
												3
												4
												5
												6
												7
											Superficial Deposits	8
												9
												10
												11
												12
												13
												14
												15
												16
							16.90				Mudstone	17
												18
												19
												20
Remarks:									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			

		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH27 Sheet 2 of 2		
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100				
Diameter of Boring: 105mm		Depth of Casing: 16.50m				Dates 15/06/2022 -		Logged By: DT&DR				
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							22.70					21
												22
												23
												24
							25.00					25
												26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Remarks:

Key:

D - Small disturbed sample
 B - Bulk disturbed sample
 ES - Environmental soil sample
 SPT - Standard Penetration Test (split spoon)
 CPT - Standard Penetration Test (solid cone)

W - Water sample
 U - Undisturbed sample
 TCR - Total Core Recovery
 SCR - Solid Core Recovery
 RQD - Rock Quality Designation



		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH28 Sheet 1 of 2	
Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO	
Equipment: KLEMM				Diameter of Casing: 125mm				Level:		Scale 1:100	
Diameter of Boring: 105mm				Depth of Casing: 15.00m				Dates 15/06/2022 -		Logged By: DT&DR	

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
											MADE GROUND	1
												2
												3
												4
												5
												6
							7.20					7
											Superficial Deposits	8
												9
												10
												11
												12
												13
												14
												15
												16
							16.50				Mudstone	17
												18
												19
												20

Remarks:		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BH28 Sheet 2 of 2					
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO			
Equipment: KLEMM		Diameter of Casing: 125mm				Level:		Scale 1:100							
Diameter of Boring: 105mm		Depth of Casing: 15.00m				Dates 15/06/2022 -		Logged By: DT&DR							
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description				
		Depth (m)	TCR	SCR	RQD	FI									
							22.00					21			
											Sandstone/Ironstone bands	22			
												23			
												24			
							25.00					25			
											End of Borehole at 25.00 m	26			
												27			
												28			
												29			
												30			
												31			
												32			
												33			
												34			
												35			
												36			
												37			
												38			
												39			
												40			
Remarks:										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BHA1 Sheet 1 of 2								
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO								
Equipment: KLEMM		Diameter of Casing: 150mm		Level:		Scale 1:100								
Diameter of Boring:		Depth of Casing: 10.50m		Dates 23/03/2023 -		Logged By: Apex								
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description			
		Depth (m)	TCR	SCR	RQD	FI					Made Ground	1		
							6.50					2		
												3		
												4		
												5		
												6		
											Superficial Deposits	7		
												8		
												9		
							9.80					10		
											Mudstone	11		
												12		
												13		
												14		
												15		
												16		
												17		
												18		
												19		
												20		
Remarks: Borehole dry									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)			W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

		Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BHA1 Sheet 2 of 2	
		Location: Merthyr Tydfil				Client: Merthyr Valley Homes Ltd				Coordinates:	
Equipment: KLEMM		Diameter of Casing: 150mm				Level:		Scale 1:100			
Diameter of Boring:		Depth of Casing: 10.50m				Dates 23/03/2023 -		Logged By: Apex			

Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							21.00					
											Sandstone hard bands possible ironstone	21
												22
												23
												24
							25.00					25
											End of Borehole at 25.00 m	26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40

Remarks: Borehole dry		Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		
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Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BHB1 Sheet 1 of 2								
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO								
Equipment: KLEMM		Diameter of Casing: 150mm		Level:		Scale 1:100								
Diameter of Boring:		Depth of Casing: 9.00m		Dates 24/03/2023 -		Logged By: Apex								
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description			
		Depth (m)	TCR	SCR	RQD	FI								
							6.00				Made Ground	1		
												2		
												3		
												4		
												5		
												6		
											Superficial Deposits	7		
												8		
							8.80					9		
											Mudstone	10		
												11		
												12		
												13		
												14		
												15		
												16		
												17		
												18		
							19.30					19		
											Sandstone hard bands possible ironstone	20		
Remarks: Borehole dry										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)		W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BHB1 Sheet 2 of 2								
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO								
Equipment: KLEMM		Diameter of Casing: 150mm		Level:		Scale 1:100								
Diameter of Boring:		Depth of Casing: 9.00m		Dates 24/03/2023 -		Logged By: Apex								
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description			
		Depth (m)	TCR	SCR	RQD	FI								
							25.00					21		
												22		
												23		
												24		
												25		
											End of Borehole at 25.00 m	26		
												27		
												28		
												29		
												30		
												31		
												32		
												33		
												34		
												35		
												36		
												37		
												38		
												39		
												40		
Remarks: Borehole dry									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)			W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BHC1 Sheet 1 of 2						
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO						
Equipment: KLEMM		Diameter of Casing: 150mm		Level:		Scale 1:100						
Diameter of Boring:		Depth of Casing: 10.50m		Dates 23/03/2023 -		Logged By: Apex						
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI					Made Ground	1
							5.70					2
												3
												4
												5
											Superficial Deposits	6
												7
												8
												9
												10
							10.30				Mudstone	11
												12
												13
												14
												15
												16
												17
												18
												19
												20
Remarks: Borehole dry										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BHC1 Sheet 2 of 2								
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO								
Equipment: KLEMM		Diameter of Casing: 150mm		Level:		Scale 1:100								
Diameter of Boring:		Depth of Casing: 10.50m		Dates 23/03/2023 -		Logged By: Apex								
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description			
		Depth (m)	TCR	SCR	RQD	FI								
							21.90					21		
											Sandstone hard bands possible ironstone	22		
												23		
												24		
							25.00					25		
											End of Borehole at 25.00 m	26		
												27		
												28		
												29		
												30		
												31		
												32		
												33		
												34		
												35		
												36		
												37		
												38		
												39		
												40		
Remarks: Borehole dry									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)			W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BHD1 Sheet 1 of 2						
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO						
Equipment: KLEMM		Diameter of Casing: 150mm		Level:		Scale 1:100						
Diameter of Boring:		Depth of Casing: 11.50m		Dates 23/03/2023 -		Logged By: Apex						
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							6.00				Made Ground	1
												2
												3
												4
												5
												6
											Superficial Deposits	7
												8
												9
												10
												11
							11.60					12
											Mudstone	13
												14
												15
												16
												17
												18
												19
												20
Remarks: Borehole dry										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BHD1 Sheet 2 of 2						
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO						
Equipment: KLEMM		Diameter of Casing: 150mm		Level:		Scale 1:100						
Diameter of Boring:		Depth of Casing: 11.50m		Dates 23/03/2023 -		Logged By: Apex						
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							23.50					21
												22
												23
												24
							25.00					25
												26
												27
												28
												29
												30
												31
												32
												33
												34
												35
												36
												37
												38
												39
												40
Remarks: Borehole dry										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road				Project No.: 12824		Borehole No.: BHE1 Sheet 1 of 2					
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd				Coordinates:		Hole Type: RO					
Equipment: KLEMM		Diameter of Casing: 150mm				Level:		Scale 1:100					
Diameter of Boring:		Depth of Casing: 12.00m				Dates 25/03/2023 -		Logged By: Apex					
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description		
		Depth (m)	TCR	SCR	RQD	FI							
							4.80				Made Ground	1	
												2	
												3	
												4	
											Superficial Deposits	5	
												6	
												7	
												8	
												9	
												10	
												11	
												12	
							12.80				Mudstone	13	
												14	
												15	
												16	
												17	
												18	
												19	
							19.80					20	
Remarks: Borehole dry										Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BHE1 Sheet 2 of 2								
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO								
Equipment: KLEMM		Diameter of Casing: 150mm		Level:		Scale 1:100								
Diameter of Boring:		Depth of Casing: 12.00m		Dates 25/03/2023 -		Logged By: Apex								
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description			
		Depth (m)	TCR	SCR	RQD	FI								
							25.00				Sandstone hard bands possible ironstone	21		
												22		
												23		
												24		
												25		
											End of Borehole at 25.00 m	26		
												27		
												28		
												29		
												30		
												31		
												32		
												33		
												34		
												35		
												36		
												37		
												38		
												39		
												40		
Remarks: Borehole dry									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)			W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BHF1 Sheet 1 of 2								
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO								
Equipment: KLEMM		Diameter of Casing: 150mm		Level:		Scale 1:100								
Diameter of Boring:		Depth of Casing: 12.00m		Dates 24/03/2023 -		Logged By: Apex								
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description			
		Depth (m)	TCR	SCR	RQD	FI					Made Ground	1		
							4.50					2		
												3		
												4		
											Superficial Deposits	5		
												6		
												7		
												8		
												9		
												10		
												11		
												12		
							12.50				Mudstone	13		
												14		
												15		
												16		
												17		
												18		
												19		
							19.40				Sandstone hard bands possible ironstone	20		
Remarks: Borehole dry									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)			W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

[illegible]

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BHG1 Sheet 1 of 2								
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO								
Equipment: KLEMM		Diameter of Casing: 150mm		Level:		Scale 1:100								
Diameter of Boring:		Depth of Casing: 10.50m		Dates 24/03/2023 -		Logged By: Apex								
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description			
		Depth (m)	TCR	SCR	RQD	FI					Made Ground	1		
							5.10					2		
												3		
												4		
												5		
											Superficial Deposits	6		
												7		
												8		
												9		
												10		
							11.00					11		
											Mudstone	12		
												13		
												14		
												15		
												16		
							17.00					17		
											Sandstone hard bands possible ironstone and mudstone bands	18		
												19		
												20		
Remarks: Borehole dry									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)			W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BHG1 Sheet 2 of 2								
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO								
Equipment: KLEMM		Diameter of Casing: 150mm		Level:		Scale 1:100								
Diameter of Boring:		Depth of Casing: 10.50m		Dates 24/03/2023 -		Logged By: Apex								
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description			
		Depth (m)	TCR	SCR	RQD	FI								
							25.00							
												21		
												22		
												23		
												24		
												25		
												26		
												27		
												28		
												29		
												30		
												31		
												32		
												33		
												34		
												35		
												36		
												37		
												38		
												39		
												40		
Remarks: Borehole dry									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)			W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BHH1 Sheet 1 of 2						
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO						
Equipment: KLEMM		Diameter of Casing: 150mm		Level:		Scale 1:100						
Diameter of Boring:		Depth of Casing: 10.50m		Dates 24/03/2023 -		Logged By: Apex						
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description	
		Depth (m)	TCR	SCR	RQD	FI						
							4.50				Made Ground	1
												2
												3
												4
												5
												6
												7
												8
												9
												10
												11
												12
												13
												14
												15
												16
												17
												18
												19
												20
Remarks: Borehole dry									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone) W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation			AGS

Intégral Géotechnique Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Swansea Road		Project No.: 12824		Borehole No.: BHH1 Sheet 2 of 2								
Location: Merthyr Tydfil		Client: Merthyr Valley Homes Ltd		Coordinates:		Hole Type: RO								
Equipment: KLEMM		Diameter of Casing: 150mm		Level:		Scale 1:100								
Diameter of Boring:		Depth of Casing: 10.50m		Dates 24/03/2023 -		Logged By: Apex								
Well	Water Strikes	Rotary Coring					Depth (m)	Level (m AOD)	N Value	Legend	Stratum Description			
		Depth (m)	TCR	SCR	RQD	FI								
							23.00					21		
												22		
												23		
												24		
							25.00					25		
												26		
												27		
												28		
												29		
												30		
												31		
												32		
												33		
												34		
												35		
												36		
												37		
												38		
												39		
												40		
Remarks: Borehole dry									Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample SPT - Standard Penetration Test (split spoon) CPT - Standard Penetration Test (solid cone)			W - Water sample U - Undisturbed sample TCR - Total Core Recovery SCR - Solid Core Recovery RQD - Rock Quality Designation		



Legend

BH1  Approximate Proof Drilling Location June 2022

BHA1  Approximate Proof Drilling Location March 2023

FIGURE 1: Proof Drilling

Apr-23
12824/PD

Merthyr Valley Homes Ltd, Swansea Road, Merthyr Tydfil

Intégral
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