

CLIENT			
Bloor Homes Western			
PROJECT			
Land at Withycombe Farm Banbury			
TITLE			
Topographical Survey			
SCALE			
6801		DATE	
1:500		July 2021	
DRAWN			
JL		CHECKED	
LB		LB	
REF NO.		STATUS	
3877 (2632)		FINAL	
		SHEET	
		1 of 2	



LEGEND			
Buildings	Overhead Cable	IC	Inspection chamber
Wall	Concrete edge	PI	Pipe insert
Kerf line	Yard edge	GR	Gravel
Line marking	Crack edge	DR	Drainage kerf
Drop kerf	Crack edge	DR	Drainage kerf
Centre line	Crack edge	DR	Drainage kerf
Bank Top	Bank Bottom	DR	Drainage kerf
Station and Name	Station Level	DR	Drainage kerf
Tree / Bush / Spacing	Area of Undergrowth	DR	Drainage kerf
Hedge	Ridge Level	DR	Drainage kerf
Iron Railings	Iron Railings	DR	Drainage kerf
Wire Mesh	Wire Mesh	DR	Drainage kerf
Post & Rail	Post & Rail	DR	Drainage kerf
Post & Wire	Post & Wire	DR	Drainage kerf
Chain Link	Chain Link	DR	Drainage kerf
Woolen Panels	Woolen Panels	DR	Drainage kerf
Concrete Panels	Concrete Panels	DR	Drainage kerf
Steel Palisade	Steel Palisade	DR	Drainage kerf

NOTES

This plan should only be used for the original purpose. Any Surveyor accepts no responsibility for this plan if applied to any party other than the original client. Do not scale, all dimensions should be checked on site prior to design and construction.

Drainage information (where applicable) has been visually inspected from the surface and therefore no allowance has been made for any sub-surface entry into manholes, chambers or voids. Therefore any details relating to depths, sizes, ETC will be approximate only.

The contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work starts.

Should there be any conflict between the details indicated on this drawing and those indicated on other drawings, the engineer should be informed prior to construction or site.

It is important to note that the same accuracies implied by the plotting scale are equally applicable to digital data supplied for CAD.

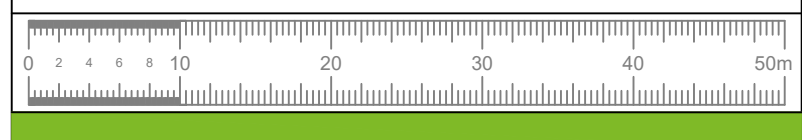
Every effort is made to identify all visible above ground features, however it should be borne in mind that there may be items obscured at the time of survey.

Visible features in the vicinity of the boundaries, as shown on this survey may not represent the extent of legally conveyed ownership.

THE SURVEY HAS BEEN ORIENTATED TO THE OSGB36 NATIONAL GRID (OSGB36) VIA A GLOBAL POSITION SYSTEM (GPS) AND THE O.S. ACTIVE NETWORK (OS AN).

A TRUE OSGB36 COORDINATE HAS BEEN ESTABLISHED NEAR TO THE SITE CENTRE VIA A TRANSFORMATION USING THE OSTN02 & OSGB36 TRANSFORMATION MODELS. THE SURVEY HAS BEEN CORRELATED TO THIS POINT AND A FURTHER ONE OR MORE OSGB36 POINTS ESTABLISHED TO CREATE A TRUE O.S. BEARING FOR ANGLE ORIENTATION.

SURVEY STATION INFORMATION			
Station	Easting	Northing	Level
AX1	443246.356	240124.895	151.487
AX2	443250.391	240125.213	154.843
AX3	443181.893	240426.785	151.238
AX4	443209.650	240285.855	152.813
AX5	443166.782	240510.069	150.514








01283 550969
info@axis-surveys.com


www.axis-surveys.com



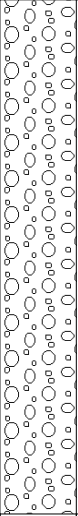

Laurus House, First Avenue, Centrum 100
Banbury-on-Trent, DE14 2WH







CLIENT	Bloor Homes Western		
PROJECT	Land at Withycombe Farm Banbury		
TITLE	Topographical Survey		
SCALE	1:500	DATE	July 2021
DRAWN	JL	CHECKED	LB
REF NO.	3877 (2/32)	STATUS	FINAL
		SHEET	2 of 2



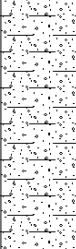



Appendix 3: Site Investigation Data



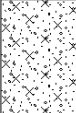

 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP01 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: GNS		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions 1.70m			
Date Excavated: 27/09/2021			Level:			Depth : 2.40m 0.60m			
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
0.10	ES		0.20			Loose brown slightly clayey sandy slightly gravelly organic rich SILT. Gravel is fine to coarse sub-angular and sub-rounded calcareous sandstone. Frequent roots and rootlets. (TOPSOIL)			
0.50	ES		0.70			Loose to medium dense orange brown slightly clayey silty slightly gravelly SAND. Gravel is fine to coarse sub-angular calcareous sandstone.			
			1.50			Medium dense to dense orange brown and grey slightly sandy very slightly gravelly COBBLES and BOULDERS of blocky and sub-angular ferruginous limestone. Gravel is fine to coarse sub-angular and sub-rounded sandstone.			
			2.40			Extremely weak light grey and light brown very thinly bedded and fissile calcareous MUDSTONE. (Recovered as fine to coarse gravels and cobbles of sub-angular tabular mudstone and limestone)			
						End of Trialpit at 2.40 m			
Remarks:						Groundwater: No groundwater encountered			
1. Soil infiltration test attempted in pit						Stability: Stable in the short term			
						Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample			









 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com		Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP02 Sheet 1 of 1	
Location: Banbury		Client: Bloor Homes Western			Logged By: GNS		Scale 1:25	
Equipment: JCB 3CX		Coordinates:			Dimensions <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> Depth : 2.00m </div> <div style="border-left: 1px solid black; padding-left: 10px;"> 1.70m </div> </div>			
Date Excavated: 27/09/2021		Level:						
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description		
Depth (m)	Type	Results						
0.10	ES		0.30			Soft brown silty sandy slightly gravelly organic rich CLAY. Gravel is fine to coarse sub-angular ferruginous sandstone. (TOPSOIL)		
0.40	ES				Medium dense becoming dense orange brown slightly silty slightly sandy to sandy COBBLES and BOULDERS (0.25m x 0.4m) of sub-angular and blocky ferruginous limestone. Gravel is fine to coarse angular and sub-angular ferruginous limestone. -Slow progress of excavation at base of pit.			
1.00	B		2.00		<div style="border-top: 1px dashed black; padding-top: 10px;"> End of Trialpit at 2.00 m </div>			
Remarks: 1. Soil infiltration test attempted in pit				Groundwater: No groundwater encountered			Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample	
				Stability: Stable in the short term.				







 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP03 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: GNS		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions 1.70m			
Date Excavated: 27/09/2021			Level:			Depth : 1.00m 0.60m			
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
0.10	ES		0.15			Loose brown and mid brown clayey slightly silty slightly gravelly organic rich SAND. Gravel is fine to coarse sub-angular sandstone. (TOPSOIL) Loose to medium dense orange brown slightly silty slightly gravelly SAND. Gravel is fine to coarse sub-angular and angular ferruginous limestone. Medium dense to dense slightly silty very slightly sandy GRAVEL. Gravel is fine to coarse blocky and sub-angular sandstone and ferruginous limestone. Dense orange brown and grey slightly silty slightly sandy slightly gravelly COBBLES and BOULDERS of blocky and sub-angular ferruginous limestone. Gravel is fine to coarse sub-angular ferruginous limestone. -Unable to excavate further due to suspected bedrock. End of Trialpit at 1.00 m			
0.40	ES		0.60						
			0.85						
			1.00						
Remarks: 1. Soil infiltration test attempted in pit			Groundwater: No groundwater encountered			Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample			
			Stability: Stable in the short term						

 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP04 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: GNS		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions 1.70m			
Date Excavated: 27/09/2021			Level:			Depth : 1.35m 0.60m			
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
0.05	ES		0.20			Loose brown orange brown slightly silty very slightly gravelly SAND. Gravel is fine to coarse sub-angular ferruginous sandstone and limestone. (TOPSOIL)			
0.50	ES					Medium dense orange brown slightly clayey slightly gravelly SAND. Gravel is fine to coarse sub-angular ferruginous sandstone and limestone.			
			1.10			Dense orange brown and grey slightly sandy very slightly gravelly COBBLES and BOULDERS (0.25m x 0.3m) of angular and sub-angular and blocky ferruginous fossiliferous limestone. Gravel is fine to coarse sub-angular ferruginous limestone.			
			1.35			-Slow progress of excavation due to suspected bedrock. End of Trialpit at 1.35 m			
Remarks:			Groundwater: No groundwater encountered			Key:			
			Stability: Stable in the short term			D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample			



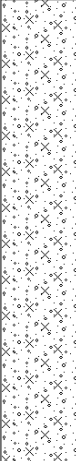

 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP05 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: GNS		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions 1.70m			
Date Excavated: 27/09/2021			Level:			Depth : 1.40m 0.60m			
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
0.20	ES		0.25			Loose brown and orange brown slightly silty very slightly gravelly SAND. Gravel is fine to coarse sub-angular ferruginous sandstone and limestone. (TOPSOIL)			
0.50	ES					Medium dense orange brown and light brown locally red brown slightly silty very slightly gravelly SAND. Gravel is fine to coarse sub-angular ferruginous sandstone and limestone.			
0.70	B		0.65			Medium dense becoming dense orange brown and grey very slightly silty very slightly sandy slightly gravelly COBBLES and BOULDERS of blocky and sub-angular ferruginous shelly limestone. Gravel is fine to coarse angular and sub-angular ferruginous limestone.			
			1.40			-Unable to excavate further due to suspected bedrock End of Trialpit at 1.40 m			
Remarks:			Groundwater: No groundwater encountered			Key:			
			Stability: Stable in the short term			D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample			













 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP06 Sheet 1 of 1		
Location: Banbury			Client: Bloor Homes Western			Logged By: GNS		Scale 1:25		
Equipment: JCB 3CX			Coordinates:			Dimensions 2.10m				
Date Excavated: 27/09/2021			Level:			Depth : 1.40m 0.60m				
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description				
Depth (m)	Type	Results								
0.10	ES		0.30			Soft brown silty slightly sandy slightly gravelly organic rich CLAY. Gravel is fine coarse sub-angular ferruginous limestone and rare brick. (TOPSOIL)				
0.50	ES					Stiff brown slightly silty slightly gravelly CLAY. Gravel is fine to coarse sub-angular and blocky ferruginous sandstone.				
0.90	B		1.10			Dense grey and orange brown slightly clayey slightly gravelly COBBLES AND BOULDERS (0.2m x 0.2m) of blocky and sub-rounded ferruginous limestone. Gravel is fine to coarse sub-angular and sub-rounded ferruginous limestone.				
			1.40			-Very slow progress of excavation				
						End of Trialpit at 1.40 m				
Remarks:						Groundwater: No groundwater encountered		Key:		
						Stability: Stable in the short term		D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample		
										






 Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP07 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: GNS		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions 2.10m			
Date Excavated: 27/09/2021			Level:			Depth : 1.40m 0.60m			
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
0.10	ES					Loose orange brown sandy organic rich slightly gravelly SILT. Gravel is fine to coarse sub-angular ferruginous limestone and occasional ceramic and earthenware. (TOPSOIL)			
0.30						Loose orange brown slightly gravelly SAND. Gravel is fine to coarse sub-angular ferruginous sandstone and limestone.			
0.50	ES					Medium dense to dense orange brown and light brown and grey slightly silty slightly sandy GRAVEL. Gravel is fine to coarse angular and subangular ferruginous limestone.			
0.80						Dense orange brown and grey slightly silty sandy slightly gravelly COBBLES and BOULDERS (0.2m x 0.2m) of blocky and sub-angular ferruginous shelly limestone. Gravel is fine to coarse sub-angular ferruginous limestone.			
1.00	B					-Very slow progress of excavation.			
1.40						End of Trialpit at 1.40 m			
Remarks:			Groundwater: No groundwater encountered			Key:			
			Stability: Stable in the short term			D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample			



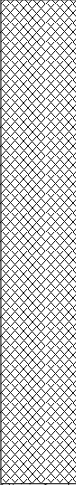
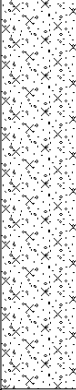

<div><div>Intégral Géotechnique</div><div>Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com</div></div>			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP08 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: GNS		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions <div>2.00m</div>			
Date Excavated: 27/09/2021			Level:			Depth : 2.00m			
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
0.10	ES		0.20			Loose orange brown sandy slightly gravelly organic rich SILT. Gravel is fine to coarse sub-angular ferruginous limestone and occasional ceramic and earthenware. (TOPSOIL)			
						Medium dense orange brown silty sandy GRAVEL. with occasional cobbles of sub-angular ferruginous sandstone. Gravel is fine to coarse sub-angular ferruginous sandstone.			
						Dense orange brown and light brown slightly silty very slightly sandy slightly gravelly COBBLES and BOULDERS (0.3m x 0.4m) of sub-angular and angular ferruginous shelly and crystalline limestone. Gravel is fine to coarse sub-angular ferruginous crystalline limestone.			
			2.00			-Unable to excavate deeper due to suspected bedrock			
						End of Trialpit at 2.00 m			
Remarks:			Groundwater: No groundwater encountered			Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample			
			Stability: Stable in the short term						


			Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692			Trial Pit No.: TP09 Sheet 1 of 1					
Location: Banbury						Client: Bloor Homes Western						Logged By: GNS			Scale 1:25		
Equipment: JCB 3CX						Coordinates:						Dimensions 1.70m					
Date Excavated: 27/09/2021						Level:						Depth : 2.10m 0.60m					
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description											
Depth (m)	Type	Results															
			0.25			Loose orange brown slightly silty slightly gravelly SAND. Gravel is fine to coarse rounded to sub-angular ferruginous sandstone and limestone. (TOPSOIL)											
						Medium dense orange brown slightly silty sandy GRAVEL. Gravel is fine to coarse blocky and angular and sub-angular ferruginous sandstone. -Frequent cobbles of blocky sub-angular ferruginous sandstone below 1.50m											
			1.80			Dense orange brown and light brown and grey slightly sandy slightly gravelly COBBLES and BOULDERS (0.2m x 0.3m) of blocky sub-angular ferruginous limestone and sandstone. -Slow progress of excavation											
			2.10			End of Trialpit at 2.10 m											
Remarks:						Groundwater: No groundwater encountered						Key:					
						Stability: Stable in the short term						D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample					



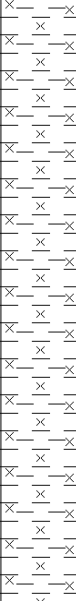
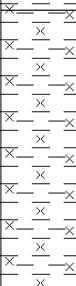





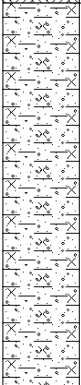
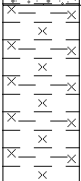

 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP10 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: GNS		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px;"> Depth : 2.20m </div> <div style="margin: 0 10px;">0.60m</div> <div style="border: 1px solid black; padding: 5px; flex-grow: 1;"> <div style="border-bottom: 1px solid black; height: 100px; width: 100%;"></div> </div> </div>			
Date Excavated: 28/07/2021			Level:						
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
0.10	ES		0.30			Soft brown silty slightly sandy slightly gravelly organic rich CLAY. Gravel is fine to coarse rounded and sub-rounded sandstone and rare angular brick and ceramic. (TOPSOIL) Firm orange brown slightly silty very slightly sandy slightly gravelly CLAY. Gravel is fine sub-angular sandstone. Stiff light brown and mottled grey slightly silty fissured CLAY.			
									
									
1.00	B		1.60			Stiff blue grey and mottled orange brown slightly silty CLAY with occasional lenses of medium dense brown silty SAND.			
									
									
			2.10			Weak orange brown thinly bedded and fissile fossiliferous ferruginous interbedded MUDSTONE and LIMESTONE.			
			2.20						
						End of Trialpit at 2.20 m			
Remarks: 1. Soil infiltration test attempted in pit			Groundwater: No groundwater encountered			Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample			
			Stability: Stable in the short term						



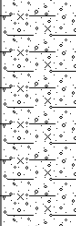
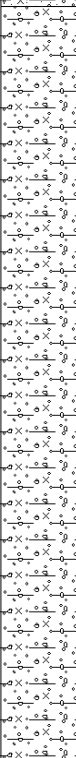

 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP11 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: FG		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions 2.50m			
Date Excavated: 28/07/2021			Level:			Depth : 3.40m 0.60m			
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
0.20	ES		0.40			Soft dark brown silty sandy slightly gravelly organic rich CLAY. Gravel is fine to coarse angular to sub-angular flint, and ferruginous crystalline limestone. (TOPSOIL)			
			1.80			Firm grey blue and mottled orange brown slightly silty sandy slightly gravelly CLAY. Gravel is fine to medium sub-angular ferruginous limestone and mudstone.			
			3.40			Firm grey dark blue and mottled orange brown slightly silty slightly gravelly CLAY. Gravel is fine sub-angular ferruginous limestone and mudstone.			
						End of Trialpit at 3.40 m			
Remarks:						Groundwater: No groundwater encountered		Key:	
						Stability: Stable in the short term		D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample	
									



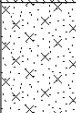
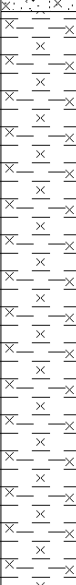


 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP12 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: GNS		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions 2.20m			
Date Excavated: 28/07/2021			Level:			Depth : 3.20m 0.60m			
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
0.60	ES		0.30			Soft brown silty slightly sandy slightly gravelly organic rich CLAY. Gravel is fine to coarse sub-angular and sub-rounded limestone. (TOPSOIL)			
					MADE GROUND: Medium dense brown slightly silty slightly gravelly SAND. Gravel is fine and medium sub-angular sandstone, limestone and rare brick and ash.				
					Medium dense light grey beige and orange brown silty slightly gravelly SAND. Gravel is fine and medium angular and sub-angular extremely weak sandstone. -Grading into poorly cemented sandstone below 3.1m BGL				
			1.90						
			3.20				End of Trialpit at 3.20 m		
Remarks: 1. Soil infiltration test attempted in pit			Groundwater: No groundwater encountered			Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample			
			Stability: Stable in the short term						

 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP13 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: GNS		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions 2.20m			
Date Excavated: 28/07/2021			Level:			Depth : 1.45m 0.60m			
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
0.10	ES					Loose brown silty slightly gravelly organic rich SAND. Gravel is fine to coarse sub-angular and sub-rounded ferruginous limestone. (TOPSOIL)			
			0.25			Loose orange brown slightly silty gravelly SAND. Gravel is fine to coarse angular ferruginous limestone.			
			0.50			Medium dense to dense orange brown slightly silty slightly sandy GRAVEL and COBBLES of sub-angular ferruginous limestone. -Becoming dense -Very slow progress of excavation below 1.4m BGL			
			1.45			End of Trialpit at 1.45 m			
Remarks:			Groundwater: No groundwater encountered			Key:			
			Stability: Stable in the short term			D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample			

 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP14 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: FG		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions 2.60m			
Date Excavated: 28/07/2021			Level:			Depth : 3.50m 0.60m			
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
			0.50			Loose brown and orange brown slightly clayey slightly gravelly SILT. Gravel is fine to coarse sub-angular and sub-rounded ferruginous crystalline limestone and mudstone. (TOPSOIL)			
						Stiff blue grey mottled yellow brown silty CLAY.			
			2.55			Stiff dark blue grey silty CLAY with fine gravel sized selenite crystals. -Grading into an extremely weak clayey mudstone below 3.0m BGL.			
			3.50			End of Trialpit at 3.50 m			
Remarks:			Groundwater: No groundwater encountered			Key:			
			Stability: Stable in the short term			D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample			

 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP15 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: FG		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions 2.60m			
Date Excavated: 28/07/2021			Level:			Depth : 2.60m 0.60m			
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
			0.40			Soft brown and orange brown silty sandy CLAY. (TOPSOIL)			
			1.70			Firm to stiff orange brown slightly silty sandy slightly gravelly CLAY. Gravel is fine and medium sub-angular ferruginous limestone and mudstone.			
			2.30			Stiff blue grey and mottled orange brown silty CLAY.			
			2.60			Dense light brown and orange brown and grey slightly clayey very slightly sandy GRAVEL. Gravel is fine to coarse angular and sub-angular calcareous shell fragments and ferruginous limestone.			
						End of Trialpit at 2.60 m			
Remarks:			Groundwater: No groundwater encountered			Key: D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample			
			Stability: Generally stable with local instability associated with cobble and boulder removal						

 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP16 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: GNS		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions 2.00m			
Date Excavated: 28/07/2021			Level:			Depth : 3.50m 0.60m			
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
			0.20			Loose brown silty slightly gravelly organic rich SAND. (TOPSOIL)			
			1.00			Medium dense orange brown slightly silty sandy GRAVEL with frequent cobbles of ferruginous sandstone. Gravel is fine to coarse sub-angular and sub-rounded ferruginous sandstone.			
			3.50			Medium dense to dense orange brown slightly silty slightly sandy gravelly COBBLES and BOULDERS (0.25m x 0.4m) of ferruginous sandstone. Gravel is fine to coarse sub-angular and sub-rounded ferruginous sandstone.			
						End of Trialpit at 3.50 m			
Remarks:						Groundwater: No groundwater encountered		Key:	
						Stability: Stable in the short term		D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample	
									

 Intégral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692		Trial Pit No.: TP17 Sheet 1 of 1	
Location: Banbury			Client: Bloor Homes Western			Logged By: GNS		Scale 1:25	
Equipment: JCB 3CX			Coordinates:			Dimensions 2.80m			
Date Excavated: 28/07/2021			Level:			Depth : 3.50m 0.60m			
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description			
Depth (m)	Type	Results							
0.50	ES		0.20			Loose brown slightly clayey silty organic rich SAND. (TOPSOIL)			
					Loose orange brown slightly silty SAND.				
					Firm to stiff light brown and mottled grey slightly silty CLAY with localised subordinate thin bands (<50mm) of ferruginous limestone.				
			2.50			Extremely weak very thinly bedded and thinly laminated light grey and orange brown MUDSTONE / SILTSTONE. (Recovered as fine to coarse gravel and cobbles of tabular and sub-angular MUDSTONE / SILTSTONE) -Locally Calcareous			
			3.50		End of Trialpit at 3.50 m				
Remarks:			Groundwater: No groundwater encountered			Key:			
			Stability: Stable in the short term			D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample			
									

<div>Intégral Géotechnique</div>			Integral House, 7 Beddau Way Castlegate Business Park Caerphilly CF83 2AX Tel. 029 20807991 Fax. 029 20862176 mail@integralgeotec.com			Project Name: Bretch Hill, Banbury			Project No.: 12692			Trial Pit No.: TP18 Sheet 1 of 1					
Location: Banbury						Client: Bloor Homes Western						Logged By: GNS			Scale 1:25		
Equipment: JCB 3CX						Coordinates:						<div>Dimensions<div>2.30m</div><div>Depth : 1.20m</div><div>0.60m</div></div>					
Date Excavated: 28/07/2021						Level:											
Samples & In-situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description											
Depth (m)	Type	Results															
			0.15			Loose orange brown silty slightly gravelly SAND. Gravel is fine to coarse tabular and sub-angular limestone. (TOPSOIL)											
						Weak orange brown and grey thin to medium sub-horizontally bedded fissile slightly weathered, close to medium sub-vertical, open and regularly jointed and fractured ferruginous fossiliferous LIMESTONE. -Local instability associated with boulder and cobble removal. -Very slow progress of excavation											
			1.20			End of Trialpit at 1.20 m											
																1	
																2	
																3	
																4	
																5	
Remarks:				Groundwater: No groundwater encountered						Key:							
1. Soil infiltration test attempted in pit				Stability: Stable in the short term						D - Small disturbed sample B - Bulk disturbed sample ES - Environmental soil sample W - Water sample							

12692 Bretch Hill, Banbury

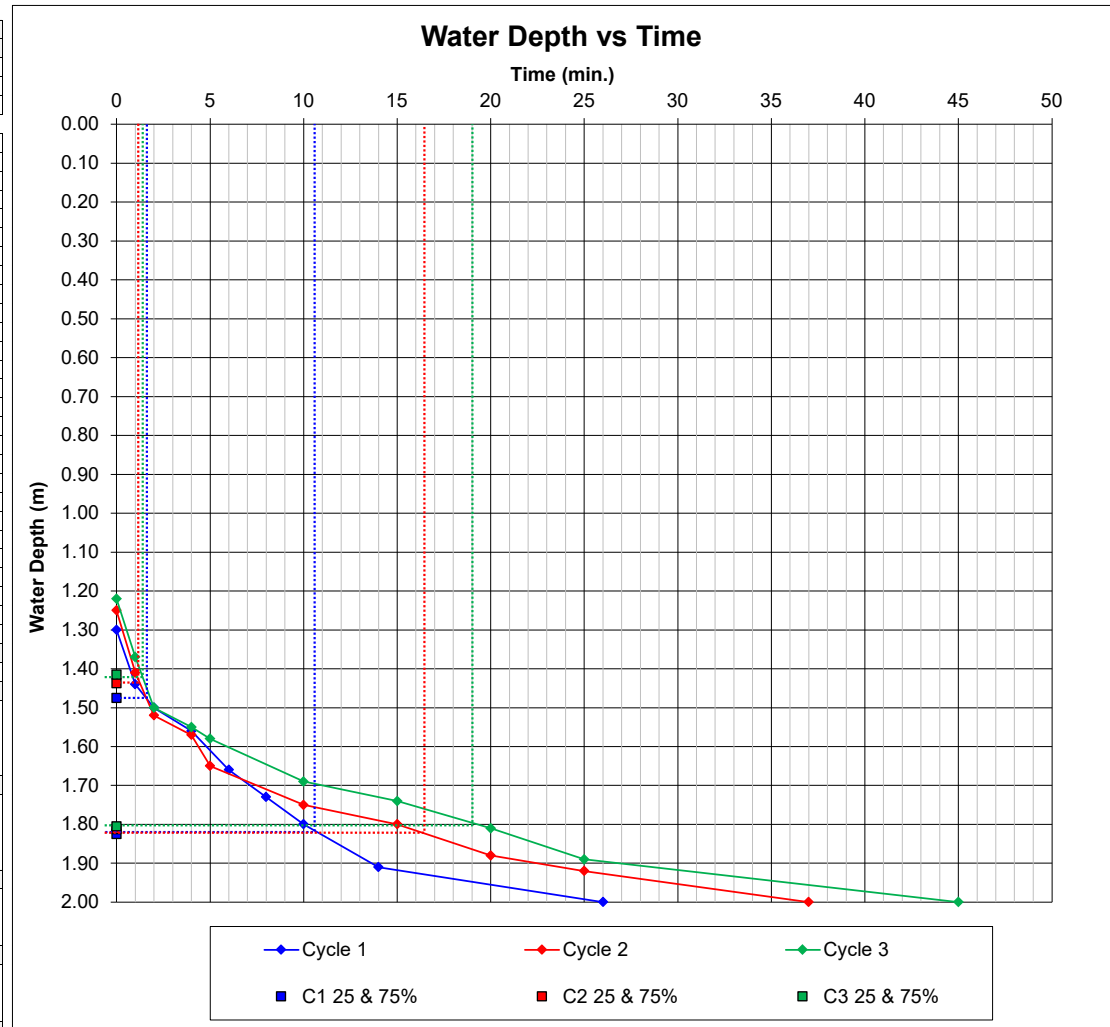
Remarks
1. Line of best fit extrapolated to estimate time of 100% outflow

[illegible]

12692 Bretch Hill, Banbury

Remarks

Final Excavation Depth (m)	Cycle 1	Cycle 2	Cycle 3
At end of testing cycle	2.00	2.00	2.00
Water Depths (m)			
Water depth at start of test	1.30	1.25	1.22
Water depth at end of test	2.00	2.00	2.00
Effective depth (measured)	0.70	0.75	0.78
% Effective storage depth	1.00	1.00	1.00
Effective Storage Depths (m)			
Effective storage depth (100%)	0.70	0.75	0.78
Effective storage depth (75%)	0.53	0.56	0.59
Effective storage depth (50%)	0.35	0.38	0.39
Effective storage depth (25%)	0.18	0.19	0.20
Outflow Time (min)			
Time for measured outflow	26	37	45
Time for 100% outflow	26	37	45
Time for 75-25% outflow	9	15	17.7
Volume of Outflow (m³)			
Over measured effective depth	0.71	0.77	0.80
Over 100% effective depth	0.71	0.77	0.80
From 75% - 25% effective depth	0.36	0.38	0.40
Surface Area (m²)			
For 100% effective storage	4.24	4.47	4.61
For 50% effective storage	2.63	2.75	2.81
Over measured depth	4.24	4.47	4.61
Soil Infiltration Rate (m/s)	Cycle 1	Cycle 2	Cycle 3
Over 100% effective depth	1.1E-04	7.7E-05	6.4E-05
Over measured depth	1.1E-04	7.7E-05	6.4E-05
Over 75% - 25% effective depth	2.5E-04	1.5E-04	1.3E-04



Design Soil Infiltration Rate: 1.3E-04 m/s