

Appendix E

Exploratory Hole Location Plan, Exploratory Hole Logs and Photographs

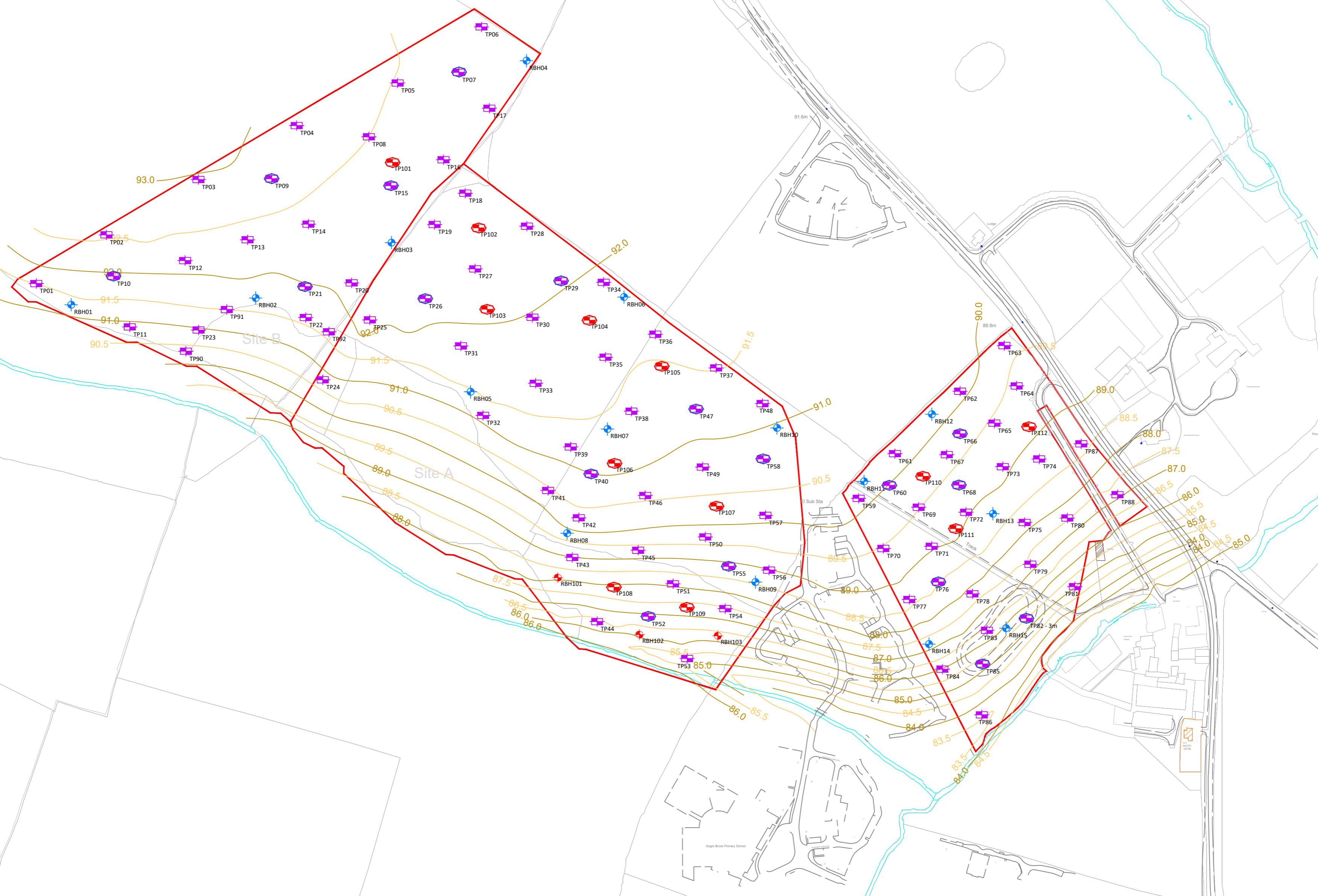


KEY

- Site Boundary (approximate)
- RBHXX Rotary Borehole (Hydrock January 2021)
- TPXX Soakaway Pit (Hydrock January 2021)
- RBHXX Rotary Borehole (Hydrock September 2020)
- TP## Trial Pit (Hydrock September 2020)
- SA## Soakaway Pit (Hydrock September 2020)

NOTES

1. All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing.
2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.
3. This drawing has been based on the following drawings and information: SV Surveying Ltd drawing number: 19280-19-01 Rev 1 dated: 09/09/2019. Also based on image supplied by the Client.



SECOND ISSUE - UPDATED WITH ADDITIONAL HOLES FOR SUPPLEMENTARY INVESTIGATION					
PO2	CA	16/12/2020	AB	16/12/2020	16/12/2020
FIRST ISSUE					
PO1	SD	23/09/2020	CA	23/09/2020	23/09/2020
REVISION NOTES/COMMENTS					
REV.	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY

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CLIENT
 Firethorn Developments Limited

PROJECT
 North West Bicester ECO Development

TITLE
 Exploratory Hole Location Plan

HYDROCK PROJECT NO. C-13603-C	SCALE @ A2 1:2500
PURPOSE OF ISSUE SUITABLE FOR INFORMATION	STATUS S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 13603-HYD-XX-ZZ-DR-GE-1003	REVISION PO2



Method: Dynamic Sampled & Rotary Cored	Date(s): 07/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457110.73, 225318.39	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 91.44m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth (m)	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min If. Mean Max							
1.20 - 2.00 110mm 100% rec	1.20	SPT	N=28 (2,3,5,7,8,8)						Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	91.14		
									Firm yellowish brown very gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	1.20	(0.90)	90.24		
2.00 - 3.50	2.00	SPT	50/45mm (6,19,50)						Firm locally stiff light yellowish brown locally mottled grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (CORNBRASS FORMATION)	2.30	(1.10)	89.14		
								NI	Weak to moderately weak light yellowish brown LIMESTONE. Fractures are very closely spaced, horizontal to sub-vertical, planar smooth to undulating smooth and with local clay infill. (FOREST MARBLE FORMATION)	2.75	(0.45)	88.69		
3.50 - 5.00	3.37 - 3.49	C							Very stiff light grey slightly sandy silty CLAY. (FOREST MARBLE FORMATION)	3.37	(0.62)	88.07		
	3.50	SPT	50/42mm (25,50)					2	Moderately weak light grey LIMESTONE. Fractures are very closely spaced, horizontal, planar smooth and clean. (FOREST MARBLE FORMATION)	3.55	(0.18)	87.89		
	4.50 - 4.60	D							Very stiff purplish grey slightly sandy silty CLAY. (FOREST MARBLE FORMATION)	4.35	(0.80)	87.09		
	4.82 - 5.00	C						0	Moderately weak light grey LIMESTONE. No fractures. (FOREST MARBLE FORMATION)	4.82	(0.18)	86.62		
	5.00	SPT	50/35mm (25,50)						End of Borehole at 5.00m	5.00	(0.18)	86.44		

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Comaccio 205	07/09	1745	5.00	2.00	150	2.00	Water	Grey

General Remarks:
 1. Hand dug starter to pit to 1.20m to check for services. 2. Borehole advanced using dynamic sampling from 1.20m to 2.00m. 3. Groundwater was encountered at 2.00m (sealed with casing at 2.00m), remaining at 2.00m after 20 minutes. Flow rate slow. 4. Borehole advanced by rotary coring from 2.00m to 5.00m. 5. Gas and groundwater monitoring well installed to 5.00m (response zone 2.00m to 5.00m) topped with a cast iron raised cover on completion.



Method: Dynamic Sampled & Rotary Cored	Date(s): 08/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457272.97, 225324.28	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 91.60m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min If. Mean Max							
1.20 - 2.00 110mm 100% rec	1.20	SPT	N=32 (18,15,5,5,7)						Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	91.30		
	2.00 - 3.50								Firm light yellowish brown locally mottled grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (HEAD DEPOSITS)	0.90	(0.60)	90.70		
2.00 - 3.50	2.15 - 2.30	C					NI 12		Yellowish brown clayey sub-angular to sub-rounded fine to coarse limestone GRAVEL. (HEAD DEPOSITS)	1.20	(0.30)	90.40		
	2.82 - 3.00	C		93	65	22			Very stiff orangish brown locally yellowish grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (CORNBURASH FORMATION)	2.00	(0.80)	89.60		
3.50 - 5.00	3.50	SPT	50/195mm (16,6,14,30)						Moderately weak light bluish grey to pale grey LIMESTONE with occasional fine gravel sized fossil fragments. Fractures are closely spaced, horizontal, planar smooth to planar rough with local sand infill. (FOREST MARBLE FORMATION)	3.50				
	5.00	SPT	50/87mm (11,19,27)				NI		Very stiff light grey slightly sandy slightly gravelly silty CLAY. Gravel is sub-angular medium limestone. (FOREST MARBLE FORMATION)	4.92		86.68		
									Recovered as gravel sized fragments. (FOREST MARBLE FORMATION) End of Borehole at 5.00m	5.00	(0.08)	86.60		

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Comaccio 205	08/09	1345	5.00	2.15	150		Water	Grey

General Remarks:

1. Hand dug starter to pit to 0.90m to check for services. Unable to hand dig through limestone at 0.90m. 2. Borehole advanced using dynamic sampling from 0.90m to 2.00m. 3. Groundwater was not encountered. 4. Borehole advanced by rotary coring from 2.00m to 5.00m. 5. Gas and groundwater monitoring well installed to 5.00m (response zone 2.00m to 5.00m) topped with a cast iron raised cover on completion.



Method: Dynamic Sampled & Rotary Cored	Date(s): 08/09/2020 - 09/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457392.30, 225373.00	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 92.16m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min If. Mean Max							
1.30 - 2.00	1.20	SPT	50/225mm (12,15,17,19,14)				NI	▼	Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	91.86		
									Firm light yellowish brown locally mottled grey slightly sandy gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (HEAD DEPOSITS)	1.30	(1.00)	90.86		
2.00 - 3.50									Moderately weak light orangish brown locally grey LIMESTONE. Recovered as gravel sized fragments. (CORNBURASH FORMATION)	1.75	(0.45)	90.41		
									Very stiff orangish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (CORNBURASH FORMATION)	2.00	(1.25)			
3.50 - 5.00	3.50	SPT	50/95mm (18,21,29)				1		Moderately weak light yellowish brown and grey LIMESTONE with occasional fine gravel sized fossil fragments. Fractures are very closely spaced, horizontal to sub-vertical, planar rough and clean. (FOREST MARBLE FORMATION)	3.50	(0.50)	88.66		
									Very stiff dark grey slightly sandy silty CLAY. (FOREST MARBLE FORMATION)	4.00	(1.21)			
4.71 - 5.00	4.71 - 5.00	C SPT	50/155mm (16,20,22,8)				1		Moderately weak light whitish grey LIMESTONE. Fractures are sub-horizontal, very closely spaced, planar rough and clean. (FOREST MARBLE FORMATION)	4.71	(0.29)	87.45		
									End of Borehole at 5.00m	5.00	(0.29)	87.16		

Progress and Observations									Returns (colour)	General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)		
Comacco 205	08/09	1720	5.00	1.85	150	1.30	Water	Grey	1. Hand dug starter to pit to 1.30m to check for services. 2. Groundwater was encountered at 1.30m (sealed with casing). Flow rate slow. 3. Borehole advanced by rotary coring from 1.30m to 5.00m. 4. Gas and groundwater monitoring well installed to 5.00m (response zone 1.00m to 5.00m) topped with a cast iron raised cover on completion.	



Method: Rotary Cored	Date(s): 09/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457511.03, 225533.07	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 92.18m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth magl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min Mean Max							
0.70 - 1.20 110mm 100% rec									Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	91.88		
1.20 - 2.00	1.20	SPT	50/30mm (11,13,50)	100	5	0	NI		Firm light yellowish brown locally mottled grey slightly sandy gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (HEAD DEPOSITS)	0.70	(0.40)	91.48		
2.00 - 3.50	2.00	SPT	50/95mm (9,13,21,29)				7		Moderately weak light grey mottled orangish brown LIMESTONE. Recovered as gravel sized fragments. (CORNBURASH FORMATION)	1.70	(1.00)	90.48		
							NI		Moderately weak light grey mottled orangish brown LIMESTONE. Fractures are horizontal to sub-horizontal, very closely spaced, undulating rough, mostly clean with local clay infill. (CORNBURASH FORMATION)	2.00	(0.70)			
									Stiff orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (FOREST MARBLE FORMATION)	2.40	(0.40)	89.78		
									Very stiff bluish grey slightly sandy slightly gravelly silty CLAY. Gravel is sub-rounded fine to medium mudstone and limestone. (FOREST MARBLE FORMATION)	2.80	(0.40)	89.38		
3.50 - 5.00	3.50	SPT	50/30mm (10,50)						Moderately weak light grey LIMESTONE. Fractures are closely spaced, horizontal, planar rough and clean. (FOREST MARBLE FORMATION)	3.00	(1.20)			
	4.00 - 4.12	C					3		Very stiff bluish grey slightly sandy slightly gravelly silty CLAY. Gravel is sub-rounded fine to medium mudstone and limestone. (FOREST MARBLE FORMATION)	4.00	(0.52)	88.18		
	4.13 - 4.23	C							Moderately weak light grey LIMESTONE. No fractures. (FOREST MARBLE FORMATION)	4.52	(0.36)	87.66		
	4.23 - 4.52	C							Very stiff bluish grey slightly sandy slightly gravelly silty CLAY. Gravel is sub-rounded fine to medium mudstone and limestone. (FOREST MARBLE FORMATION)	4.88	(0.12)	87.30		
	4.88 - 5.00	C					0		Moderately weak light grey LIMESTONE. No fractures. (FOREST MARBLE FORMATION)	5.00	(0.12)	87.18		
	5.00	SPT	50/12mm (18,50)						End of Borehole at 5.00m					

Progress and Observations										Chiselling			General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)		
Comaccio 206	09/09	1400	5.00	1.20	150	1.10	Water	Grey				1. Hand dug starter to pit to 0.70m to check for services. Unable to hand dig through limestone at 0.70m. 2. Borehole advanced using dynamic sampling from 0.70m to 1.20m. 3. Groundwater was encountered at 1.10m (sealed with casing). Flow rate slow. 4. Borehole advanced by rotary coring from 1.20m to 5.00m. 5. Gas and groundwater monitoring well installed to 5.00m (response zone 0.50m to 5.00m) topped with a cast iron raised cover on completion.	



Method: Rotary Cored	Date(s): 16/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457461.83, 225241.80	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 91.67m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth magl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min Mean Max							
0.60 - 1.20 110mm 100% rec									Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	91.37		
1.20 - 2.00	1.20	SPT	N=28 (1,2,1,8,8,11)	50	0	0	NI		Firm light yellowish brown locally mottled grey slightly sandy gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (HEAD DEPOSITS)	0.60	(0.30)	91.07		
2.00 - 3.50									Medium dense light orangish brown and grey slightly clayey sub-angular to sub-rounded limestone GRAVEL. (HEAD DEPOSITS)	2.00	(1.40)	89.67		
3.50 - 5.00	3.50	SPT	50/18mm (13,50)	100	59	25	18		Stiff light orangish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (CORNBURASH FORMATION)	2.50	(0.50)	89.17		
	3.96 - 4.06	C							Moderately weak light yellowish brown and light grey LIMESTONE with occasional fine gravel sized fossil fragments. Fractures are horizontal to sub-horizontal, very closely spaced, planar rough to undulating rough, clean with local sand infill. (CORNBURASH FORMATION)	3.50	(1.00)	88.17		
	4.06 - 4.22	C							Moderately weak light grey LIMESTONE with occasional fine gravel sized fossil fragments. Fractures are horizontal to sub-horizontal, very closely spaced, planar rough to undulating rough, clean with local sand infill. (CORNBURASH FORMATION)	4.00	(0.50)	87.67		
	4.22 - 4.32	C							Very stiff dark bluish grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium mudstone and limestone. (FOREST MARBLE FORMATION)	4.32	(0.50)	87.17		
	4.32 - 4.33	C					3		Very stiff grey slightly sandy CLAY with rare fine gravel sized shell fragments. (FOREST MARBLE FORMATION)	4.33	(0.50)	86.97		
	4.33 - 4.50	C					0		Extremely weak light grey LIMESTONE grading to very stiff light grey CLAY. (FOREST MARBLE FORMATION)	4.50	(0.20)	86.97		
	4.50 - 5.00	C							Moderately weak light grey LIMESTONE. No fractures. (FOREST MARBLE FORMATION)	4.70	(0.30)	86.67		
	5.00	SPT	50/97mm (9,12,17,33)						Moderately weak light grey LIMESTONE. No fractures. (FOREST MARBLE FORMATION)	5.00	(0.30)	86.67		
End of Borehole at 5.00m														

Progress and Observations										Chiselling			General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)		
Comaccio 206	16/09	1700	5.00	1.20	150		Water	Cream				1. Hand dug starter to pit to 0.60m to check for services. Unable to hand dig through limestone at 0.60m. 2. Borehole advanced using dynamic sampling from 0.60m to 1.20m. 3. Groundwater was not encountered. 4. Borehole advanced by rotary coring from 1.20m to 5.00m. 5. Gas and groundwater monitoring well installed to 3.00m (response zone 1.00m to 3.00m) topped with a cast iron raised cover on completion.	



Project: North West Bicester Eco Development

Borehole No RBH06

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Method: Rotary Cored	Date(s): 16/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457596.76, 225325.11	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 91.72m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min If. Mean Max							
0.40 - 1.20 110mm 100% rec									Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.40	(0.40)	91.32		
1.20 - 2.00	1.20	SPT	N=33 (2,3,7,6,9,11)	100	0	0	NI		Firm light orangish brown and grey very gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	1.20	(0.80)	90.52		
2.00 - 3.50									Dense light orangish brown and grey slightly clayey sub-angular to sub-rounded fine to coarse limestone GRAVEL. (HEAD DEPOSITS)	1.65	(0.45)	90.07		
									Stiff locally very stiff light orangish brown and mottled grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (CORNBURASH FORMATION) <i>..... with a band of fine to medium mudstone gravel between 1.90m to 2.00m.</i>	2.00	(1.20)			
									Very weak light grey mottled orangish brown LIMESTONE. Fractures are extremely closely spaced, vertical to horizontal, undulating rough and with a clayey sand infill. (CORNBURASH FORMATION)	2.85		88.87		
3.50 - 5.00	3.50	SPT	50/12mm (11,50)						Moderately weak dark grey LIMESTONE. Fractures are very closely spaced, horizontal, planar rough, mostly clean with local clay infill. (FOREST MARBLE FORMATION)	3.73	(0.88)	87.99		
	3.73 - 3.88	C					3		Very stiff dark bluish grey slightly sandy slightly gravelly CLAY with rare shell fragments. Gravel is sub-angular to sub-rounded fine to medium mudstone and limestone. (FOREST MARBLE FORMATION)	4.10	(0.37)	87.62		
	3.88 - 4.00	C												
	4.00 - 4.10	C												
	4.60 - 4.70	D												
	5.00	SPT	50/108mm (7,11,19,31)							5.00	(0.90)	86.72		
End of Borehole at 5.00m														

Progress and Observations										Chiselling			General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)		
Comaccio 207	16/09	1310	5.00	1.10	150		Water	Cream				1. Hand dug starter to pit to 0.40m to check for services. Unable to hand dig through limestone at 0.40m. 2. Borehole advanced using dynamic sampling from 0.40m to 1.20m. 3. Groundwater was not encountered. 4. Borehole advanced by rotary coring from 1.20m to 5.00m. 5. Gas and groundwater monitoring well installed to 4.00m (response zone 1.00m to 4.00m) topped with a cast iron raised cover on completion.	



Method: Rotary Cored	Date(s): 15/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457582.33, 225209.08	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 91.44m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth (m)	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill	
	Depth (m)	Type	Results	TCR	SCR	RQD	Min If. Mean Max								
1.20 - 2.00	1.20	SPT	50/195mm (5,10,15,17,18)					NI	Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	91.14			
										Firm light yellowish brown locally mottled grey slightly sandy gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (HEAD DEPOSITS)	1.20	(0.90)	90.24		
2.00 - 3.50	2.00	C		88	0	0			Moderately weak light orangish brown and grey LIMESTONE. Recovered as gravel sized fragments. (CORNBRASS FORMATION)	2.00	(0.80)				
											Stiff orangish brown and grey slightly sandy slightly gravelly CLAY with occasional silt partings. Gravel is sub-angular to sub-rounded fine to medium limestone and mudstone. (CORNBRASS FORMATION)	2.64	(0.64)	89.44	
3.50 - 5.00	3.50	SPT	50/87mm (16,9,25,25)					NI	Moderately weak light grey stained orangish brown and with local black flecks LIMESTONE. No fractures. (CORNBRASS FORMATION)	2.70	(0.06)	88.74			
										Firm orangish brown and grey CLAY. (CORNBRASS FORMATION)	2.86	(0.16)	88.58		
										Weak to moderately weak light grey locally stained orangish brown and with local black flecks LIMESTONE. Fractures are horizontal to vertical, extremely closely spaced, undulating rough and clean. (CORNBRASS FORMATION)	3.50	(0.64)	87.94		
										Moderately weak pale grey locally orangish brown LIMESTONE. Fractures are horizontal, very closely spaced, undulating rough and clean. (FOREST MARBLE FORMATION)	4.00	(0.50)	87.44		
										Very stiff greenish grey and orangish grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium mudstone and limestone. (FOREST MARBLE FORMATION)	4.45	(0.45)	86.99		
	3.68 - 3.80	C		100	27	15			Moderately weak light grey LIMESTONE. Fracture is sub-horizontal, undulating rough and clean. (FOREST MARBLE FORMATION)	4.70	(0.25)	86.74			
	4.48 - 4.58	C							Very weak dark grey MUDSTONE grading to very stiff CLAY. (FOREST MARBLE FORMATION)	5.00	(0.30)	86.44			
	5.00	SPT	50/155mm (6,11,16,15,19)						End of Borehole at 5.00m						

Progress and Observations										Chiselling			General Remarks:	
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	1. Hand dug starter to pit to 1.20m to check for services. 2. Groundwater was not encountered.3. Borehole advanced by rotary coring from 1.20m to 5.00m. 4. Gas and groundwater monitoring well installed to 4.50m (response zone 1.00m to 4.50m) topped with a cast iron raised cover on completion.		
Comacco 208	15/09	1630	5.00	1.20	150		Water	Cream						



Method: Rotary Cored	Date(s): 15/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457546.71, 225117.35	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 90.33m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min Mean Max							
0.80 - 1.20 110mm 100% rec 1.20 - 2.00	1.20	SPT	N=37 (2,0,7,9,11,10)	100	13	0	5		Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL) Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (HEAD DEPOSITS)	0.30	(0.30)	90.03		
2.00 - 3.50							NI 29		Moderately weak light grey and orangish brown LIMESTONE. Fractures are horizontal to sub-horizontal, very closely spaced, planar rough and clean. (CORNBRAH FORMATION) Weak light orangish brown and grey LIMESTONE. Fractures are horizontal to sub-vertical, extremely closely spaced, undulating rough to planar rough and with sand infill. (CORNBRAH FORMATION)	1.75	(0.25)	88.58		
	2.85 - 3.00 3.00 - 3.18	C		100	33	22			Moderately weak light grey locally stained orangish brown LIMESTONE. Fractures are horizontal to sub-horizontal, very closely spaced, planar rough to undulating rough, mostly clean with local sand infill. (CORNBRAH FORMATION)	2.00	(0.50)	88.33		
3.50 - 5.00	3.50	SPT	50/248mm (6,9,11,13,21,5)						Stiff yellowish brown locally grey slightly sandy CLAY. (FOREST MARBLE FORMATION) Very stiff dark bluish grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine mudstone. (FOREST MARBLE FORMATION)	2.50	(0.80)	87.83		
	4.30 - 5.00	C		100	47	47	NI 0		Stiff yellowish brown locally grey slightly sandy CLAY. (FOREST MARBLE FORMATION) Very stiff dark bluish grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine mudstone. (FOREST MARBLE FORMATION)	3.30	(0.20)	87.03		
	5.00	SPT	50/10mm (11,13,50)						Moderately weak light grey stained reddish brown and orangish brown LIMESTONE. No fractures. (FOREST MARBLE FORMATION) recovered as gravel sized fragments between 4.15m to 4.30m. no fractures between 4.30m and 5.00m. End of Borehole at 5.00m	3.50	(0.65)	86.83		
										4.15	(0.85)	86.18		
										5.00		85.33		

Progress and Observations										Chiselling			General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)		
Comaccio 209	15/09	1215	5.00	1.20	150		Water	Cream				1. Hand dug starter to pit to 0.70m to check for services. Unable to hand dig through limestone at 0.70m.2. Borehole advanced using dynamic sampling from 0.70m to 1.20m. 3. Groundwater was not encountered.4. Borehole advanced by rotary coring from 1.20m to 5.00m. 5. Gas and groundwater monitoring well installed to 5.00m (response zone 1.00m to 5.00m) topped with a cast iron raised cover on completion.	



Method: Rotary Cored	Date(s): 16/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457712.34, 225074.37	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 88.47m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth (m)	Thickness (m)	Level (m OD)	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min If. Mean Max							
0.60 - 1.20 110mm 100% rec									Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	88.17		
1.20 - 2.00	1.20	SPT	N=21 (3,8,5,6,4,6)	0	0	0			Firm orangish brown slightly sandy gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (HEAD DEPOSITS)	1	(0.90)	87.27		
2.00 - 3.50									No recovery. (HEAD DEPOSITS)	1.20				
										2.00	(0.80)	86.47		
									Very weak light grey stained orangish brown LIMESTONE. Recovered as gravel sized fragments. (FOREST MARBLE FORMATION)	2	(1.20)			
										3.20		85.27		
3.50 - 4.10	3.50	SPT	50/245mm (12,13,17,10,19,4)	100	0	0			Moderately weak light grey locally stained orangish brown LIMESTONE with occasional fine gravel sized fossil fragments. Fractures are horizontal to vertical, very closely spaced, undulating rough with sand infill. (FOREST MARBLE FORMATION)	3.20	(0.30)	84.97		
4.10 - 5.00									Moderately weak light grey locally stained reddish brown LIMESTONE. Recovered as gravel sized fragments. (FOREST MARBLE FORMATION)	3.50	(0.60)	84.37		
	4.37 - 4.54	C							Moderately weak locally weak light grey locally stained reddish brown LIMESTONE with occasional fine gravel sized fossil fragments. Fractures are horizontal locally sub-vertical, closely to medium spaced, planar rough to planar smooth and clean. (FOREST MARBLE FORMATION)	4	(0.90)			
	4.54 - 4.65	C								4.10		84.37		
	4.65 - 5.00	C								4.10		84.37		
	5.00	SPT	50/160mm (15,13,18,19)					 stained black between 4.30m and 4.40m. local sand infill at 4.40m. End of Borehole at 5.00m	5		83.47		

Progress and Observations										Chiselling			General Remarks: 1. Hand dug starter to pit to 0.60m to check for services. Unable to hand dig through limestone at 0.60m. 2. Borehole advanced using dynamic sampling from 0.60m to 1.20m. 3. Groundwater was not encountered. 4. Borehole advanced by rotary coring from 1.20m to 5.00m. 5. Gas and groundwater monitoring well installed to 5.00m (response zone 1.00m to 5.00m) topped with a cast iron raised cover on completion.			
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)					
Comaccio 210	16/09	1930	5.00	2.00	150		Water	Cream								



Project: North West Bicester Eco Development

Borehole No RBH10

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Method: Rotary Cored	Date(s): 17/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457731.33, 225210.01	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 90.67m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth magl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min If. Mean Max							
1.20 - 2.00	1.20	SPT	50/187mm (9,14,16,16,18)				NI		Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.40	(0.40)	90.27		
2.00 - 3.50				88	5	0			Weak light orangish brown and grey LIMESTONE. Recovered as gravel sized fragments. (CORNBURASH FORMATION)		(1.50)			
3.50 - 5.00	3.50	SPT	50/75mm (25,50)				5		Stiff orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (CORNBURASH FORMATION)	1.90		88.77		
							2		Moderately weak to weak light grey locally stained orangish brown LIMESTONE. Fractures are horizontal to sub-horizontal, very closely spaced, undulating rough and with clay infill. (CORNBURASH FORMATION)	2.00	(0.10)	88.67		
							NI		Weak light yellowish brown LIMESTONE interbedded with bands of firm light yellowish brown slightly sandy CLAY. (CORNBURASH FORMATION)	2.57		88.10		
				100	17	0	0		Stiff dark bluish grey slightly sandy CLAY. (FOREST MARBLE FORMATION)	2.77	(0.20)	87.90		
							0		Weak light yellowish brown LIMESTONE interbedded with bands of firm light yellowish brown slightly sandy CLAY. (CORNBURASH FORMATION)	3.00	(0.23)	87.67		
									Stiff dark bluish grey slightly sandy CLAY. (FOREST MARBLE FORMATION)	3.20	(0.20)	87.47		
									Extremely weak light grey MUDSTONE. Recovered as gravel sized fragments. (FOREST MARBLE FORMATION)	3.50	(0.30)	87.17		
				57	0	0			Moderately weak light grey locally stained orangish brown LIMESTONE with occasional fine gravel sized fossil fragments. Fractures are sub-horizontal to vertical, very closely spaced, undulating rough and clean. (FOREST MARBLE FORMATION)		(1.50)			
									Very stiff dark grey slightly sandy CLAY. (FOREST MARBLE FORMATION)	5.00		85.67		
	5.00	SPT	50/225mm (11,12,12,12,26)						End of Borehole at 5.00m					

Progress and Observations									Chiselling			General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	
Comaccio 211	17/09	1200	5.00	1.20	150		Water	Brown/grey				1. Hand dug starter to pit to 0.40m to check for services. Unable to hand dig through limestone at 0.40m. 2. Borehole advanced using open hole drilling (with casing) from 0.40m to 1.20m. 3. Groundwater was not encountered. 4. Borehole advanced by rotary coring from 1.20m to 5.00m. 5. Gas and groundwater monitoring well installed to 3.50m (response zone 1.00m to 3.50m) topped with a cast iron raised cover on completion.



Method: Rotary Cored	Date(s): 10/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457807.86, 225163.02	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 90.14m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth (m)	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min If. Mean Max							
1.20 - 2.00	1.20	SPT	50/225mm (5,8,10,17,23)				NI		Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.40	(0.40)	89.74		
2.00 - 3.50				100	0	0			Weak light orangish brown and grey LIMESTONE. Recovered as gravel sized fragments. (CORNBURASH FORMATION)	1.60	(1.20)	88.54		
									Stiff orangish brown and light grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (CORNBURASH FORMATION)	2.20	(0.60)	87.94		
									Firm dark grey stained orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (FOREST MARBLE FORMATION) becoming stiff below 2.60m. becoming very stiff below 2.90m.	3.50	(1.30)			
3.50 - 5.00	3.50	SPT	50/115mm (10,12,25,25)				0		Moderately weak grey LIMESTONE. No fractures. (FOREST MARBLE FORMATION)	3.58	(0.08)	86.64		
									Stiff dark grey slightly sandy CLAY. (FOREST MARBLE FORMATION)	3.70	(0.12)	86.44		
	4.00	D							Stiff light grey slightly sandy CLAY. (FOREST MARBLE FORMATION)	3.85	(0.15)	86.29		
				100	10	0			Very stiff dark greenish grey slightly sandy slightly gravelly CLAY with occasional fine gravel sized shell fragments. Gravel is sub-angular to sub-rounded fine mudstone. (FOREST MARBLE FORMATION)	4.50	(0.65)			
									Stiff dark grey CLAY. (FOREST MARBLE FORMATION)	4.62	(0.12)	85.52		
									Stiff light grey slightly sandy CLAY. (FOREST MARBLE FORMATION)	4.90	(0.28)	85.24		
	5.00	SPT	50/225mm (11,14,15,17,18)				1		Extremely weak light grey LIMESTONE. Fracture is horizontal, undulating, rough and clean. (FOREST MARBLE FORMATION)	5.00	(0.10)	85.14		
									End of Borehole at 5.00m					

Progress and Observations									Chiselling			General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	
Comaccio 212	10/09	1615	5.00	1.85	150		Water	Brown/grey				1. Hand dug starter to pit to 0.40m to check for services. Unable to hand dig through limestone at 0.40m.2. Borehole advanced using open hole drilling (with casing) from 0.40m to 1.20m. 3. Groundwater was not encountered.4. Borehole advanced by rotary coring from 1.20m to 5.00m. 5. Gas and groundwater monitoring well installed to 5.00m (response zone 1.00m to 5.00m) topped with a cast iron raised cover on completion.



Method: Rotary Cored	Date(s): 09/09/2020 - 10/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457867.47, 225222.09	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 90.12m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth magl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min Mean Max							
1.20 - 2.00	1.20	SPT	50/87mm (6,8,15,35)				NI		Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.40	(0.40)	89.72		
2.00 - 3.50				100	20	0	10		Weak light grey and orangish brown LIMESTONE. Recovered as gravel sized fragments. (CORNBURASH FORMATION)	1.40	(1.00)	88.72		
									Moderately weak light grey and orangish brown LIMESTONE with occasional fine gravel sized fossil fragments. Fractures are very closely to extremely closely spaced, horizontal to vertical, undulating rough, mostly clean with locally sand infill. (CORNBURASH FORMATION)	2.00	(0.60)	88.12		
				100	0	0			Very stiff light grey and orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (CORNBURASH FORMATION)	3.00	(1.00)	87.12		
3.50 - 5.00	3.50	SPT	50/115mm (8,12,17,33)				4		Very stiff light grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium mudstone. (FOREST MARBLE FORMATION)	3.50	(0.50)	86.62		
									Moderately weak light grey LIMESTONE. Fractures are horizontal, very closely spaced, planar rough and clean. (FOREST MARBLE FORMATION)	3.80	(0.30)	86.32		
				100	7	0			Very stiff dark grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine mudstone. (FOREST MARBLE FORMATION)	4.00	(1.20)			
	5.00	SPT	50/107mm (10,13,19,31)							5.00		85.12		
End of Borehole at 5.00m														

Progress and Observations									Chiselling			General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	
Comaccio 212	09/09	1815	1.20	1.20	150		Water	Cream				1. Hand dug starter to pit to 0.40m to check for services. Unable to hand dig through limestone at 0.40m. 2. Borehole advanced using open hole drilling (with casing) from 0.40m to 1.20m. 3. Groundwater was not encountered. 4. Borehole advanced by rotary coring from 1.20m to 5.00m. 5. Gas and groundwater monitoring well installed to 5.00m (response zone 2.00m to 5.00m) topped with a cast iron raised cover on completion.
Comaccio 213	10/09	1200	5.00	2.35	150		Water	Cream/grey				



Method: Rotary Cored	Date(s): 10/09/2020 - 11/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457921.10, 225134.58	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 88.56m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth magl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min Mean Max							
1.20 - 2.00	1.20	SPT	50/225mm (10,12,15,18,17)	75	0	0	NI		Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.50	(0.50)	88.06		
2.00 - 3.50							0 NI 38		Weak to moderately weak light grey and orangish brown LIMESTONE. Recovered as gravel sized fragments. (CORNBRASS FORMATION)	1.60	(1.10)	86.96		
2.00 - 3.50							0 NI 38		Firm locally stiff orangish brown and mottled grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (FOREST MARBLE FORMATION)	2.00	(0.40)	86.56		
3.50 - 5.00	3.50	SPT	50/225mm (12,12,18,20,12)	100	20	0			Moderately weak light grey locally stained orangish brown LIMESTONE with occasional fine gravel sized fossil fragments. Fractures are horizontal to vertical, extremely closely spaced, planar rough to undulating rough, mostly clean with local clay infill. (FOREST MARBLE FORMATION)	3.50	(1.50)	85.06		
3.50 - 5.00	5.00	SPT	N=50 (10,12,11,15,15,9)	100	0	0			Very stiff dark grey slightly sandy slightly gravelly CLAY with rare fine gravel sized shell fragments. Gravel is sub-angular to sub-rounded fine mudstone and limestone. (FOREST MARBLE FORMATION)	5.00	(1.50)	83.56		
End of Borehole at 5.00m														

Progress and Observations									Chiselling			General Remarks: 1. Hand dug starter to pit to 0.50m to check for services. Unable to hand dig through limestone at 0.50m.2. Borehole advanced using open hole drilling (with casing) from 0.50m to 1.20m. 3. Groundwater was not encountered.4. Borehole advanced by rotary coring from 1.20m to 5.00m. 5. Gas and groundwater monitoring well installed to 5.00m (response zone 1.00m to 5.00m) topped with a cast iron raised cover on completion.
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	
Comackio 213	10/09	1920	3.50	1.20	150		Water	Brown				
Comackio 213	11/09	1045	5.00	1.20	150		Water	Brown				



Method: Rotary Cored	Date(s): 12/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457864.94, 225019.84	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 87.41m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth (m)	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min Mean Max							
1.20 - 2.00	1.20	SPT	50/192mm (8,15,19,17,14)				NI		Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	87.11		
				100	5	0			Firm orangish brown slightly sandy gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (HEAD DEPOSITS)	0.60	(0.30)	86.81		
									Weak light grey and orangish brown LIMESTONE. Recovered as gravel sized fragments. (FOREST MARBLE FORMATION)	1	(1.20)			
										1.80		85.61		
2.00 - 3.50							NI		Very stiff light brown and grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (FOREST MARBLE FORMATION)	2.00	(0.20)	85.41		
									Weak light grey locally stained yellow and orange brown locally black LIMESTONE with rare fine gravel sized fossil fragments and rare mudstone gravels. Recovered as gravel sized fragments. (FOREST MARBLE FORMATION)	2.25	(0.25)	85.16		
									Stiff light grey locally stained orangish brown slightly sandy slightly gravelly CLAY with occasional fine gravel sized shell fragments. Gravel is sub-angular to sub-rounded fine to medium limestone and mudstone. (FOREST MARBLE FORMATION)	2.40	(0.15)	85.01		
				100	0	0			Stiff dark grey locally mottled orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium mudstone and limestone. (FOREST MARBLE FORMATION)	3	(1.10)			
3.50 - 5.00	3.50	SPT	50/160mm (9,11,15,15,20)				NI		Weak light grey stained orangish brown LIMESTONE. Recovered as gravel sized fragments. (FOREST MARBLE FORMATION)	3.50		83.91		
	4.00 - 4.49	C					4		Moderately weak light grey locally yellow LIMESTONE with occasional fine gravel sized fossil fragments. Fractures are horizontal to sub-horizontal, closely spaced, planar smooth to undulating smooth and clean. (FOREST MARBLE FORMATION)	4.00	(0.50)	83.41		
	4.49 - 4.64	C												
	4.70 - 4.90	C												
	4.90 - 5.00	C												
	5.00	SPT	50/32mm (19,50)						End of Borehole at 5.00m	5.00		82.41		

Progress and Observations										Chiselling			General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)		
Comaccio 213	12/09	1430	5.00	1.20	150		Water	Cream				1. Hand dug starter to pit to 0.50m to check for services. Unable to hand dig through limestone at 0.60m.2. Borehole advanced using open hole drilling (with casing) from 0.60m to 1.20m. 3. Groundwater was not encountered.4. Borehole advanced by rotary coring from 1.20m to 5.00m. 5. Gas and groundwater monitoring well installed to 5.00m (response zone 1.00m to 5.00m) topped with a cast iron raised cover on completion.	



Method: Rotary Cored	Date(s): 14/09/2020	Logged By: CA	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457932.70, 225033.90	Checked By: CV	Flush: Water
Hydrock Project No: C-13603	Ground Level: 85.60m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min Mean Max							
1.20 - 2.00	1.20	SPT	50/220mm (3,9,11,13,26)				NI		Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	85.30		
				50	0	0			Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium limestone. (HEAD DEPOSITS)	1.20		84.40		
2.00 - 3.50									Moderately weak to weak light yellowish brown and whitish grey LIMESTONE. Recovered as gravel sized fragments. (FOREST MARBLE FORMATION)	2.00		83.60		
				100	24	19	1		Very stiff dark greenish grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine mudstone and limestone. (FOREST MARBLE FORMATION)	3.10	(1.10)			
	3.10 - 3.23	C						 band of black organic matter at 2.75m.	3.50		82.50		
3.50 - 5.00	3.24 - 3.50	SPT	50/125mm (15,29,21)				15		Moderately weak light grey locally stained yellowish brown LIMESTONE. Fracture is horizontal, undulating, rough and clean. (FOREST MARBLE FORMATION)	4.10	(0.40)			
	3.50								Very stiff dark bluish grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine mudstone. (FOREST MARBLE FORMATION)	4.30	(0.60)			
	4.30 - 4.40	C		100	26	7			Moderately weak light grey locally stained yellowish brown LIMESTONE. Fractures are very closely spaced, horizontal to sub-horizontal, planar smooth to undulating rough and clean. (FOREST MARBLE FORMATION)	5.00	(0.90)			
	5.00	SPT	50/94mm (4,18,20,30)						End of Borehole at 5.00m			80.60		

Progress and Observations										Chiselling			General Remarks: 1. Hand dug starter to pit to 1.20m to check for services. 2. Groundwater was not encountered.3. Borehole advanced by rotary coring from 1.20m to 5.00m. 4. Gas and groundwater monitoring well installed to 2.00m (response zone 2.00m to 5.00m) topped with a cast iron raised cover on completion.
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)		
Comaccio 213	14/09	1430	5.00	1.20	150		Water	Cream					



Method: Rotary Cored	Date(s): 05/01/2021	Logged By: SP	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457538.02, 225078.02	Checked By: CA	Flush: Water
Hydrock Project No: C-13603	Ground Level: 88.44m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min Mean Max							
1.20 - 2.00	1.20	SPT	N=50 (2,4,4,4,8,34)					12	Soft reddish brown slightly gravelly silty CLAY. Gravel is sub-rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	88.14		
				100	68	33			Firm light brown locally light greyish brown and orange silty CLAY. (HEAD DEPOSITS)	1	(1.20)			
									Weak light grey stained orange LIMESTONE. Fractures are horizontal very closely spaced planar rough. (FOREST MARBLE FORMATION)	1.50		86.94		
2.00 - 3.50	2.00	SPT	50/150mm (20,5,35,15)					4	Very weak light orange and light grey LIMESTONE. Fractures are very closely spaced horizontal undulating rough. (FOREST MARBLE FORMATION)	1.65	(0.15)	86.79		
				91	66	30				2	(1.55)			
									Very stiff greenish grey locally with brown staining CLAY. (FOREST MARBLE FORMATION)	3		85.24		
3.50 - 5.00	3.50	SPT	N=29 (3,4,6,7,8,8)					2		3.20				
									Very stiff grey mottled light orangish brown CLAY. (FOREST MARBLE FORMATION)	4	(0.90)			
				100	30	30				4.10		84.34		
									Moderately weak light grey locally stained orange and green LIMESTONE. Fractures are horizontal closely spaced rough and clean. (FOREST MARBLE FORMATION)	4.55	(0.45)	83.89		
	5.00	SPT	50/2mm (9,14,50)							4.55	(0.45)	83.44		
									End of Borehole at 5.00m	5.00				

Progress and Observations									Chiselling			General Remarks: 1. Hand dug pit to 1.20m to check for services. 2. Groundwater not encountered. 3. Borehole advanced from 1.20m to 5.00m using rotary coring. 4. Borehole backfilled with bentonite on completion.
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	
Comma cchio 205	05/01	1700	5.00	1.20	142		Water	Grey/brown				



Method: Rotary Cored	Date(s): 06/01/2021	Logged By: SP	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457610.04, 225028.18	Checked By: CA	Flush: Water
Hydrock Project No: C-13603	Ground Level: 86.06m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth m	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min If. Mean Max							
1.20 - 1.60 113mm 100% rec 1.20 - 3.00	1.20	SPT	N=6 (3,1,1,1,2,2)						Soft reddish brown slightly gravelly silty CLAY. Gravel is sub-rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	85.76		
										Soft locally firm orangish brown slightly gravelly slightly sandy CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	1.20	(0.90)	84.86	
3.00 - 4.50	3.00	SPT	50/75mm (25,50)						Very weak very thinly bedded light grey LIMESTONE interbedded with firm brown CLAY. (FOREST MARBLE FORMATION)	1.50	(0.30)	84.56		
										Stiff light grey mottled brown slightly gravelly CLAY. Gravel is sub-angular medium to coarse limestone. (FOREST MARBLE FORMATION)	1.70	(0.20)	84.36	
4.50 - 5.00	4.50	SPT	50/200mm (10,15,20,26,4)						Weak light grey LIMESTONE recovered as gravel sized fragments. (FOREST MARBLE FORMATION) Recovered as gravel sized fragments between 2.00 to 2.70m.	2.10	(0.40)	83.96		
										Very weak light grey LIMESTONE. Fractures are horizontal closely spaced planar rough to undulating rough with local clay infill. (FOREST MARBLE FORMATION)	3.30	(1.20)	82.76	
4.50 - 5.00	5.00	SPT	50/150mm (20,5,38,12)						Very stiff light grey and light orangish brown slightly sandy SILT/CLAY. (FOREST MARBLE FORMATION)	3.90	(0.60)	82.16		
										Very weak grey with light orange staining MUDSTONE. Fractures are horizontal and sub-horizontal very closely spaced planar rough with local clay infill. (FOREST MARBLE FORMATION)	4.00	(0.10)	82.06	
									Very stiff light grey and light orangish brown slightly sandy SILT/CLAY. (FOREST MARBLE FORMATION)	4.30	(0.30)	81.76		
									Moderately weak grey LIMESTONE. Fractures are very close to closely spaced planar clean. (FOREST MARBLE FORMATION)	4.75	(0.45)	81.31		
									Extremely weak dark brownish grey LIMESTONE with rare shell fossils. Fractures are very closely spaced planar rough with local clay infill. (FOREST MARBLE FORMATION)	5.00	(0.25)	81.06		
End of Borehole at 5.00m														

Progress and Observations										Chiselling			General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)		
Comma cchio 205	06/01	1400	5.00	1.20	142		Water	Grey/brown				1. Hand dug pit to 1.20m to check for services. 2. Groundwater not encountered. 3. Borehole advanced from 1.20m to 1.60m using dynamic sampling and from 1.60m to 5.00m using rotary coring. 4. Gas and groundwater monitoring well installed to 5.00m (0.80m to 5.00m response zone) topped with a monitoring cover on completion.	



Method: Rotary Cored	Date(s): 05/01/2021	Logged By: SP	Drilled By: Marshall Drilling
Client: Firethorn Bicester Ltd	Co-ords: 457679.01, 225026.64	Checked By: CA	Flush: Water
Hydrock Project No: C-13603	Ground Level: 85.95m OD		Scale: 1:50

Sample/Core Run (m)	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth m (gl)	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	Min If. Mean Max							
1.20 - 2.00	1.20	SPT	50/75mm (25,40)	100	0	0			Soft reddish brown slightly gravelly silty CLAY. Gravel is sub-rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	85.65		
									Soft locally firm orangish brown slightly gravelly slightly sandy CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	1.20	(0.90)	84.75		
2.00 - 3.50	3.00	SPT	50/17mm (25,50)	76	70	53	5		Very weak light grey LIMESTONE. Recovered as gravel sized fragments. (FOREST MARBLE FORMATION)	2.00	(0.80)	83.95		
									Moderately weak light grey LIMESTONE with occasional bivalve shells. Fractures are horizontal to sub-vertical closely spaced planar rough. (FOREST MARBLE FORMATION)	2.40	(0.40)	83.55		
3.50 - 5.00	4.50	SPT	50/25mm (25,50)	100	74	74	5		Extremely weak light orangish grey LIMESTONE. Recovered as fine gravel sized fragments and sand. (FOREST MARBLE FORMATION)	2.75	(0.35)	83.20		
									Moderately weak grey and orangish brown LIMESTONE. Fractures are closely spaced horizontal planar rough with local clay infill. (FOREST MARBLE FORMATION)	4.10	(1.35)	81.85		
	5.00	SPT	50/20mm (25,50)						Very weak thinly bedded greyish brown LIMESTONE interbedded with stiff brown CLAY. Fractures are very closely spaced horizontal planar rough with local clay infill. (FOREST MARBLE FORMATION)	4.45	(0.35)	81.50		
									Moderately weak grey and orangish brown LIMESTONE. Fractures are closely spaced horizontal planar rough with local clay infill. (FOREST MARBLE FORMATION)	5.00	(0.55)	80.95		
End of Borehole at 5.00m														

Progress and Observations										Chiselling			General Remarks: 1. Hand dug pit to 1.20m to check for services. 2. Groundwater not encountered. 3. Borehole advanced from 1.20m to 5.00m using rotary coring. 4. Borehole backfilled with bentonite on completion.
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)		
Commachio 205	05/01	1330	5.00	1.20	142		Water	Grey/brown					



Project: North West Bicester Eco Development

Trialpit No TP01


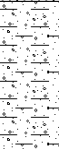
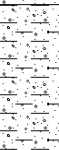
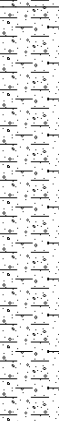
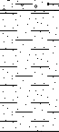
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Method: Trial Pit	Date(s): 07/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457080.01, 225337.06	Stability: No Collapse	Dimensions: 2.50m 0.60m
Hydrock Project No: C-13603	Ground Level: 91.96m OD	Plant: 8T361	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.66	
1.00	D			Orangish brown clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone. (HEAD DEPOSITS)	1.08	(0.78)	90.88	
				Moderately weak orangish brown LIMESTONE. (CORNBRAsh FORMATION) Base of Excavation at 1.10m	1.10	(0.02)	90.86	

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate slow. 3. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 07/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457141.63, 225379.86	Stability: No Collapse	Dimensions: 2.50m
Hydrock Project No: C-13603	Ground Level: 92.43m OD	Plant: 8T362	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	92.13	
0.50	D			Soft orangish brown slightly gravelly slightly sandy CLAY. Gravel is angular to sub angular fine to coarse of limestone. (HEAD DEPOSITS)	0.80	(0.50)	91.63	
0.90	D			Firm light grey mottled light brown slightly sandy slightly gravelly CLAY with occasional calcareous nodules. Gravel is sub angular to sub rounded fine to coarse of limestone. (CORNBASH FORMATION)	1	(0.50)		
1.30 - 2.30 1.40	B D			Soft to firm orangish brown mottled whitish grey slightly sandy slightly gravelly CLAY. Gravel is sub angular fine to coarse limestone lithorelicts. Sand is fine. (CORNBASH FORMATION)	1.30 2	(1.40)	91.13	
2.40	D							
2.70	D			Firm fissured brown mottled bluish grey slightly sandy CLAY with occasional shell fossils and mudstone lithorelicts. Fissures are very closely to closely spaced, non linear and randomly oriented. (FOREST MARBLE FORMATION)	2.70	(0.40)	89.73	
----- Base of Excavation at 3.10m -----					3.10		89.33	

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate slow. 3. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 08/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457222.57, 225428.56	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.83m OD	Plant: 8T363	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	92.53	
0.40	D			Orangish brown clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone. (HEAD DEPOSITS)	0.50	(0.20)	92.33	
0.70	D		▼	Weak to moderately weak fractured light yellowish brown LIMESTONE. (CORNBASH FORMATION)	1.00	(0.90)		
1.40 - 2.40	B			Firm to soft (wet) orangish brown and grey mottled gravelly CLAY. Gravel is sub angular fine to medium limestone and mudstone lithorelicts. (CORNBASH FORMATION)	2.00	(1.00)		
2.40	D			Base of Excavation at 2.40m	2.40		90.43	
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 0.80m, flow rate moderate. 3. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development


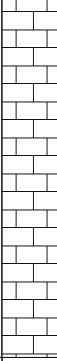
Trialpit No
TP04
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Method: Trial Pit	Date(s): 08/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457308.95, 225476.03	Stability: Collapse	Dimensions: 2.50m 0.60m
Hydrock Project No: C-13603	Ground Level: 92.65m OD	Plant: 8T364	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.30	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	92.35	
0.50	D			Weak to moderately weak fractured light yellowish brown LIMESTONE. (CORNBASH FORMATION)	1.00	(1.20)	91.15	
1.50	D							
				Base of Excavation at 1.50m				
					2			
					3			
					4			
					5			



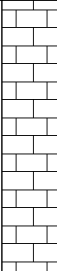
General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.00m, flow rate fast. 3. Trial pit sidewalls beginning to collapse at 1.50m due to previous groundwater entry. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 08/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457397.74, 225513.44	Stability: Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.46m OD	Plant: 8T365	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	92.16	
0.40 - 1.40	B			Weak to moderately weak fractured light yellowish brown LIMESTONE. (CORNBASH FORMATION)	1	(1.20)	90.96	
1.00	D		▼					
1.50	D							
				Base of Excavation at 1.50m				
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate fast. 3. Trial pit sidewalls beginning to collapse at 1.50m due to previous groundwater entry. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 07/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457471.55, 225562.83	Stability: Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.29m OD	Plant: 8T366	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.99	
0.50	D			Orangish brown sandy angular to sub angular fine to coarse limestone GRAVEL with a medium cobble content. Cobbles are angular to sub angular of limestone. (HEAD DEPOSITS)	1.10	(0.80)	91.19	
1.20	D		▼	Weak fractured light brown LIMESTONE with occasional clay beds. (CORNBASH FORMATION)	2.00	(0.90)	90.29	
1.50 - 2.00	B				2.00		90.29	
				Base of Excavation at 2.00m				
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate moderate. 3. Trial pit sidewalls beginning to collapse at 2.00m due to previous groundwater entry. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 04/09/2020	Logged By: TB	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457451.54, 225522.82	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.16m OD	Plant: 8T360	0.90m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.86	
				Weak fractured orangish brown sandy LIMESTONE. (CORNBASH FORMATION)	0.70	(0.40)	91.46	
				Weak fractured light brown LIMESTONE. (CORNBASH FORMATION)	1.60	(0.90)	90.56	
				Base of Excavation at 1.60m				
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater encountered at 1.30m, flow rate slow. 3. Soakaway test zone installed within trial pit (gravel between 0.60m and 1.60m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 08/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457372.49, 225466.09	Stability: Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.45m OD	Plant: 8T367	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	92.15	
0.30 - 0.60	B			Orangish brown clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone. (HEAD DEPOSITS)	0.60	(0.30)	91.85	
0.70	D		▼	Weak to moderately weak fractured light yellowish brown LIMESTONE. (CORNBASH FORMATION)	1.00	(1.00)		
1.60	D			Base of Excavation at 1.60m	1.60		90.85	
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate fast. 3. Trial pit sidewalls beginning to collapse at 1.60m due to previous groundwater entry. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 04/09/2020	Logged By: TB	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457286.99, 225429.29	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.58m OD	Plant: 8T360	0.90m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	92.28	
				Weak fractured orangish brown sandy LIMESTONE. (CORNBASH FORMATION)	1.30	(1.00)	91.28	
				Weak to moderately weak fractured light brown LIMESTONE. (CORNBASH FORMATION)	1.60	(0.30)	90.98	
----- Base of Excavation at 1.60m								
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater encountered at 1.30m, flow rate slow. 3. Soakaway test zone installed within trial pit (gravel between 0.60m and 1.60m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 04/09/2020	Logged By: TB	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457147.90, 225343.55	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.02m OD	Plant: 8T360	0.90m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.72	
				Light brown and cream sandy clayey sub-angular to sub-rounded fine to coarse limestone GRAVEL. (HEAD DEPOSITS)	0.80	(0.50)	91.22	
				Firm to stiff grey mottled light brown gravelly CLAY. Gravel angular to sub rounded fine to coarse of limestone. (HEAD DEPOSITS)	1.00	(0.20)	91.02	
▼ Base of Excavation at 1.00m								
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater encountered at 1.00m, flow rate slow. 3. Soakaway test zone installed within trial pit (gravel between 0.20m and 1.00m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 07/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457162.21, 225298.90	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 90.87m OD	Plant: 8T368	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.30	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	90.57	
0.50	D			Soft orangish brown slightly gravelly slightly sandy CLAY. Gravel is angular to sub angular fine to coarse of limestone and quartz. (ALLUVIUM)	0.80	(0.50)	90.07	
1.00	D			Soft orangish brown mottled whitish grey slightly sandy CLAY. Sand is fine. (HEAD DEPOSITS)	1.90	(1.10)	88.97	
2.00 2.00	D HSV	51kPa		Soft orangish brown mottled whitish grey slightly sandy slightly gravelly CLAY. Gravel is sub angular fine to coarse limestone. Sand is fine. (HEAD DEPOSITS)	2.40	(0.50)	88.47	
2.50 - 3.00	B			Firm fissured brown mottled bluish grey slightly sandy slightly gravelly CLAY with occasional shell fossils. Gravel is sub-angular to sub-rounded fine to medium mudstone lithorelicts. Fissures are very closely to closely spaced, non linear and randomly oriented. (FOREST MARBLE FORMATION)	3.20	(0.80)	87.67	
3.00	D				3.20		87.67	
				▼ Base of Excavation at 3.20m				
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 3.20m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 08/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457210.84, 225357.26	Stability: No Collapse	Dimensions: 2.50m
Hydrock Project No: C-13603	Ground Level: 92.18m OD	Plant: 8T369	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.88	
0.30 - 0.90	B			Soft orangish brown slightly gravelly slightly sandy CLAY. Gravel is angular to sub angular fine to coarse of limestone. (HEAD DEPOSITS)	0.70	(0.40)	91.48	
0.40	D							
0.90	D			Firm light grey mottled light brown slightly sandy slightly gravelly CLAY with occasional white powder and calcareous nodules. Gravel is sub angular to sub rounded fine to coarse of limestone (CORNBASH FORMATION)	1	(0.40)	91.08	
1.20	D		▼	Soft to firm orangish brown mottled whitish grey slightly sandy CLAY with sub angular fine to coarse limestone lithorelicts. Sand is fine. (CORNBASH FORMATION)	1.10		91.08	
1.50	HSV	92kPa	 becoming firm below 1.50m.		(1.05)		
2.20	D			Firm fissured brown mottled bluish grey slightly sandy CLAY with occasional shell fossils and mudstone lithorelicts. Fissures are very closely to closely spaced, non linear and randomly oriented. (FOREST MARBLE FORMATION)	2.15	(0.95)	90.03	
3.10	D			----- Base of Excavation at 3.10m	3		89.08	
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 08/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457265.81, 225375.52	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.25m OD	Plant: 8T370	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.00 - 0.30	B			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)		(0.30)	91.95	
0.20	ES				0.30			
0.50	D			Orangish brown clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone. (HEAD DEPOSITS)		(0.50)	91.45	
0.90	D		▼	Weak fractured light brown LIMESTONE. (CORNBASH FORMATION)	0.80			
1.50	D				1	(0.70)	90.75	
				Base of Excavation at 1.50m				
					2			
					3			
					4			
					5			


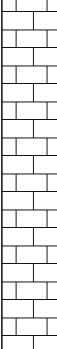
General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 0.80m, flow rate fast. 3. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 08/09/2020	Logged By: TB	Checked By: CV	
Client: Firethorn Bicester Ltd	Co-ords: 457319.34, 225389.30	Stability: No Collapse	Dimensions: 2.50m	Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.20m OD	Plant: 8T371	0.60m	

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.30	D			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.90	
0.50	D			Orangish brown clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone. (HEAD DEPOSITS)	0.80	(0.50)	91.40	
1.00 1.00 - 1.50	D D			Weak fractured light brown LIMESTONE. (CORNBASH FORMATION)	1.50	(0.70)	90.70	
1.60	D			Firm light grey mottled light brown slightly sandy slightly gravelly CLAY with occasional white powder and calcareous nodules. Gravel is sub angular to sub rounded fine to coarse of limestone (CORNBASH FORMATION)	2.50	(1.00)	89.70	
2.60	D			Firm fissured brown mottled bluish grey slightly sandy slightly gravelly CLAY with occasional shell fossils. Gravel is sub-angular to sub-rounded fine mudstone lithorelicts. Fissures are very closely to closely spaced, non linear and randomly oriented. (FOREST MARBLE FORMATION)	3.10	(0.60)	89.10	
Base of Excavation at 3.10m								
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.40m, flow rate moderate. 3. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 04/09/2020	Logged By: TB	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457391.92, 225423.10	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.33m OD	Plant: 8T360	1.00m <input type="text"/>

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	92.03	
				Weak fractured orangish brown sandy LIMESTONE. (CORNBASH FORMATION)	1.20	(1.20)	90.83	
			▼		1.50		90.83	
				----- Base of Excavation at 1.50m				
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater encountered at 1.50m, flow rate slow. 3. Soakaway test zone installed within trial pit (gravel between 0.50m and 1.50m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 07/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457438.11, 225445.94	Stability: Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.27m OD	Plant: 8T372	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.97	
0.50	D			Weak fractured light yellowish brown LIMESTONE. (CORNBASH FORMATION)		(1.30)		
1.50	D							
Base of Excavation at 1.60m					1.60		90.67	
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.10m, flow rate moderate. 3. Trial pit sidewalls beginning to collapse at 1.60m due to previous groundwater entry. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 07/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457478.41, 225491.22	Stability: Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.04m OD	Plant: 8T373	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.30	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.74	
0.50 - 1.00	B			Orangey brown sandy clayey angular to sub angular fine to coarse limestone GRAVEL with medium cobble content. Cobbles are angular to sub angular of limestone. (HEAD DEPOSITS)		(0.70)		
1.10	D		▼	Weak fractured light brown LIMESTONE with occasional clay beds. (CORNBASH FORMATION)	1.00		91.04	
1.90	D			Firm to stiff, brown, grey and reddish brown mottled slightly sandy slightly gravelly CLAY with occasional shell fossils. Gravel is sub angular fine to medium of limestone. (CORNBASH FORMATION)	1.80		90.24	
2.10	HSV	102kPa			2	(0.50)		
				Base of Excavation at 2.30m	2.30		89.74	
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.30m, flow rate moderate. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit sidewalls collapsing between 0.30m and 1.80m due to previous groundwater entry. 5. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 10/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457457.23, 225416.47	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.31m OD	Plant: 8T374	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	92.01	
0.50	D			Weak fractured orangish brown LIMESTONE. (CORNBASH FORMATION)	0.80	(0.50)	91.51	
1.00 1.00 - 1.50	D B			Moderately weak to weak fractured light brown, cream and locally orangish brown LIMESTONE. (CORNBASH FORMATION)	1.50	(0.70)	90.81	
				Base of Excavation at 1.50m				
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.40m, flow rate slow. 3. Breaker used to advance trial pit between 1.40m and 1.50m. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 10/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457430.24, 225388.96	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.35m OD	Plant: 8T375	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	92.05	
0.50	D			Moderately weak to weak fractured light brown, cream and locally orangish brown LIMESTONE. (CORNBASH FORMATION)	1.00	(1.30)		
1.50 1.60 - 2.60 1.60 1.70	D B HSV D	130kPa		Stiff locally very stiff brown, grey and rusty brown mottled slightly gravelly CLAY. Gravel is sub angular fine limestone and mudstone lithorelicts. (CORNBASH FORMATION)	1.60 2.00 2.50	(0.90)	90.75	
2.70	D			Firm to stiff orangish brown and grey mottled slightly gravelly sandy CLAY. Gravel is sub angular fine to medium mudstone lithorelicts. (FOREST MARBLE FORMATION)	2.50 3.00	(0.50)	89.85	
				Base of Excavation at 3.00m	3.00		89.35	
					4.00			
					5.00			


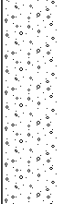

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.60m, flow rate slow. 3. Breaker used to advance trial pit between 1.40m and 1.60m.
 4. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 5. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 08/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457357.34, 225337.64	Stability: Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 91.97m OD	Plant: 8T376	

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.67	
0.60	D			Orangish brown clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone. (HEAD DEPOSITS)	0.90	(0.60)	91.07	
1.00	D			Light brown and light grey sandy very clayey sub angular fine to coarse GRAVEL of limestone. (HEAD DEPOSITS)	1.40	(0.50)	90.57	
1.40 - 2.40	B			Firm to stiff orangish brown and grey and light brown mottled slightly gravelly slightly sandy silty CLAY. Gravel is sub angular fine to coarse of limestone. (CORNBASH FORMATION)	2.40	(1.00)	89.57	
2.50	D		▼	Weak light brown LIMESTONE. (CORNBASH FORMATION)	2.60	(0.20)	89.37	
				Base of Excavation at 2.60m				
				3				
				4				
				5				

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.40m, flow rate moderate. 3. Trial pit sidewalls beginning to collapse at 2.60m due to previous groundwater entry. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 04/09/2020	Logged By: TB	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457316.27, 225334.36	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 91.85m OD	Plant: 8T360	0.90m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.55	
0.80	D			Orangish brown sandy sub-angular to sub-rounded fine to coarse limestone GRAVEL. (HEAD DEPOSITS)	1.00	(0.70)	90.85	
1.30	D			Light brown and cream sandy clayey sub-angular to sub-rounded fine to coarse limestone GRAVEL. (HEAD DEPOSITS)	1.30	(0.30)	90.55	
				Base of Excavation at 1.30m				
2								
3								
4								
5								

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater encountered at 1.30m, flow rate slow. 3. Soakaway test zone installed within trial pit (gravel between 0.30m and 1.30m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 07/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457316.92, 225307.16	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 91.71m OD	Plant: 8T377	

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.41	
0.40	D			Reddish brown gravelly clayey fine to coarse SAND. Gravel is angular to sub angular fine to coarse of limestone. (HEAD DEPOSITS)	0.60	(0.30)	91.11	
0.70	D			Weak fractured light brown and cream LIMESTONE. (CORNBASH FORMATION)	1.10	(0.50)	90.61	
1.20	D			Firm to stiff grey mottled light brown gravelly CLAY. Gravel angular to sub rounded fine to coarse of limestone. (CORNBASH FORMATION)	2.00	(0.90)	89.71	
2.00 2.10 - 2.30 2.20	HSV B D	99kPa		Firm locally stiff orangish brown and grey mottled CLAY with occasional shell fossils. (FOREST MARBLE FORMATION)	2.30	(0.30)	89.41	
▼ Base of Excavation at 2.30m								
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.30m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 07/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457222.74, 225296.17	Stability: No Collapse	Dimensions: 2.50m 0.60m
Hydrock Project No: C-13603	Ground Level: 90.99m OD	Plant: 8T378	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	90.69	
0.50	D			Reddish brown clayey gravelly fine to coarse SAND. Gravel is angular to sub angular fine to coarse of limestone. (HEAD DEPOSITS)	0.60	(0.30)	90.39	
0.70	D			Soft to firm light grey mottled light brown slightly sandy slightly gravelly CLAY with occasional calcareous nodules. Gravel is sub angular to sub rounded fine to coarse of limestone. (CORNBRAH FORMATION)	1.20	(0.60)	89.79	
1.00	HSV	51kPa			1			
1.20 - 1.60	B			Firm fissured orangish brown and grey mottled slightly sandy CLAY with occasional shell fossils. Fissures are very closely to closely spaced, non linear and randomly oriented. (FOREST MARBLE FORMATION)	2			
1.70	D				2	(1.10)		
2.10	HSV	74kPa			2			
					2.30		88.69	
					Base of Excavation at 2.30m			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.30m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 10/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457331.91, 225252.40	Stability: No Collapse	Dimensions: 2.50m 0.60m <input type="text"/>
Hydrock Project No: C-13603	Ground Level: 90.75m OD	Plant: 8T379	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft reddish brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.40	(0.40)	90.35	
0.50 0.50	D HSV	61kPa		Firm locally soft light brown slightly sandy gravelly CLAY. Gravel is angular to sub angular fine to coarse of limestone. (HEAD DEPOSITS)	0.80	(0.40)	89.95	
				Moderately weak to weak fractured light brown, cream and locally orangish brown LIMESTONE. (CORNBASH FORMATION)	1	(0.50)		
1.30 - 2.00 1.30 1.40	B HSV D	111kPa		Stiff orangish brown and grey mottled slightly gravelly sandy CLAY. Sand is fine to medium. Gravel is sub angular to sub rounded fine to medium of limestone. (FOREST MARBLE FORMATION)	1.30 2.00	(0.70)	89.45 88.75	
				Base of Excavation at 2.00m	2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

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Method: Trial Pit	Date(s): 10/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457373.28, 225305.07	Stability: No Collapse	Dimensions: 2.50m 0.60m
Hydrock Project No: C-13603	Ground Level: 91.89m OD	Plant: 8T380	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.30	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.59	
0.50 0.50 - 1.00	D B			Light brown, cream and orangish brown very clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with high cobble content. Cobbles are angular to sub angular of limestone (HEAD DEPOSITS)		(0.90)		
1.30 1.40	D HSV	101kPa		Stiff locally firm orangish and light brown gravelly slightly sandy CLAY with medium cobble and low boulder content. Gravel is angular to sub angular fine to coarse of limestone. Cobbles and boulders are angular to sub angular of limestone. (CORNBASH FORMATION)	1.20	(0.70)	90.69	
2.00	D		▼	Firm to stiff orangish brown and grey mottled slightly gravelly sandy CLAY. Sand is fine to medium. Gravel is sub angular to sub rounded fine to medium of limestone. (CORNBASH FORMATION)	1.90	(0.50)	89.99	
----- Base of Excavation at 2.40m -----					2.40		89.49	
					3			
					4			
					5			

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.10m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

Trialpit No TP26

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Method: Trial Pit	Date(s): 09/09/2020	Logged By: TB	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457422.03, 225323.71	Stability: No Collapse	Dimensions: 2.50m 0.90m
Hydrock Project No: C-13603	Ground Level: 92.04m OD	Plant: 8T360	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.74	
				Firm to stiff orangish brown slightly sandy very gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	1.20	(0.90)	90.84	
				Base of Excavation at 1.20m				
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.20m and 1.20m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 11/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457465.91, 225349.95	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.14m OD	Plant: 8T381	

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.84	
0.50	D			Grey and reddish brown sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble and boulder content. Cobbles and boulders are sub angular of limestone (HEAD DEPOSITS)	0.90	(0.60)	91.24	
1.00	D			Weak fractured orangish brown and reddish brown LIMESTONE. (CORNBASH FORMATION)	1.40	(0.50)	90.74	
1.40 1.50	HSV D	90kPa		Firm to stiff orangish brown and grey mottled slightly gravelly sandy CLAY with occasional calcareous nodules. Sand is fine to medium. Gravel is sub angular to sub rounded fine to medium of limestone. (CORNBASH FORMATION)	2.00	(0.60)	90.14	
2.00 - 2.50	B			Firm to stiff orangish brown and light grey slightly gravelly sandy CLAY. Gravel is sub angular fine to medium mudstone lithorelicts. (FOREST MARBLE FORMATION)	2.50	(0.50)	89.64	
				----- Base of Excavation at 2.50m				
				3				
				4				
				5				

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

Trialpit No TP28

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Method: Trial Pit	Date(s): 11/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457511.39, 225387.50	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.23m OD	Plant: 8T382	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.93	
0.50	D			Grey and reddish brown sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble and boulder content. Cobbles and boulders are sub angular of limestone. (HEAD DEPOSITS)	0.90	(0.60)	91.33	
1.00	D			Firm to stiff orangish brown and grey mottled slightly gravelly sandy CLAY with occasional calcareous nodules. Sand is fine to medium. Gravel is sub angular to sub rounded fine to medium of limestone. (CORNBASH FORMATION)	1.70	(0.80)	90.53	
1.80	D			Stiff orangish brown mottled grey slightly gravelly CLAY. Gravel is sub angular fine to medium limestone and mudstone lithorelicts. (CORNBASH FORMATION)	2.00	(1.10)	89.43	
2.00 - 2.50	B							
2.70	D				2.80		89.43	
				Base of Excavation at 2.80m				
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

Trialpit No TP29

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Method: Trial Pit	Date(s): 09/09/2020	Logged By: TB	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457541.49, 225339.37	Stability: No Collapse	Dimensions: 2.50m 0.90m
Hydrock Project No: C-13603	Ground Level: 91.92m OD	Plant: 8T360	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.62	
				Light brown and cream sandy clayey sub-angular to sub-rounded fine to coarse limestone GRAVEL with a high limestone cobble content. (HEAD DEPOSITS)	1.00	(0.70)	90.92	
				Soft to firm orangish and light brown slightly sandy gravelly CLAY with a medium angular to sub-angular limestone cobble content and a low angular to sub-angular limestone boulder content. Gravel is angular to sub angular fine to coarse of limestone. (HEAD DEPOSITS)	1.10	(0.10)	90.82	
				Base of Excavation at 1.10m				
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.10m and 1.10m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

Trialpit No TP30

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Method: Trial Pit	Date(s): 11/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457516.28, 225307.36	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 91.99m OD	Plant: 8T383	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.69	
0.50	D			Grey and reddish brown sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble and boulder content. Cobbles and boulders are sub angular of limestone. (HEAD DEPOSITS)	0.90	(0.60)	91.09	
1.00 - 1.50	B			Firm locally soft light grey and orangish brown slightly sandy gravelly CLAY with occasional calcareous nodules. Gravel is angular to sub angular fine to coarse of limestone. (CORNBASH FORMATION)	1.90	(1.00)	90.09	
1.40 1.50	HSV D	93kPa	 becoming stiff below 1.40m.				
2.00	D			Firm to stiff orangish brown and light grey slightly sandy gravelly CLAY. Gravel is angular to sub angular fine to coarse of limestone. (CORNBASH FORMATION)	2.40	(0.50)	89.59	
----- Base of Excavation at 2.40m -----								
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used below 2.20m. 5. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 10/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457453.41, 225282.16	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 91.85m OD	Plant: 8T384	

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.55	
0.50	D			Orangish brown clayey sandy angular to sub-angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone (HEAD DEPOSITS)	0.90	(0.60)	90.95	
1.20	D			Moderately weak orangish brown and grey LIMESTONE. (CORNBASH FORMATION)	1.10	(0.20)	90.75	
2.10	HSV	106kPa		Firm to stiff orangish brown and light grey mottled slightly gravelly sandy CLAY. Sand is fine to medium. Gravel is sub angular to sub rounded fine to medium of limestone. (CORNBASH FORMATION)	2.10	(1.00)	89.75	
2.20 2.20 - 2.60	D B			Firm to stiff orangish brown, brown and grey mottled slightly gravelly sandy CLAY. Gravel is sub angular fine to medium mudstone lithorelicts. (FOREST MARBLE FORMATION)	2.60	(0.50)	89.25	
▼ Base of Excavation at 2.60m								
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Breaker used to advance trial pit between 0.90m and 1.10m. 3. Groundwater was encountered at 2.60m, flow rate slow.
 4. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 5. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 10/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457472.89, 225221.03	Stability: No Collapse	Dimensions: 2.50m 0.60m <input type="text"/>
Hydrock Project No: C-13603	Ground Level: 91.54m OD	Plant: 8T385	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.30	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.24	
0.50	D			Orangish brown clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone (HEAD DEPOSITS)	0.90	(0.60)	90.64	
1.00	D			Firm to soft orangish brown slightly gravelly sandy CLAY. Gravel is angular to sub angular fine to coarse of limestone. (HEAD DEPOSITS)	1.20	(0.30)	90.34	
1.20 - 2.20	B			Firm to stiff orangish brown and light grey mottled slightly gravelly sandy CLAY. Sand is fine to medium. Gravel is sub angular to sub rounded fine to medium of limestone. (CORNBASH FORMATION)	2.40	(1.20)	89.14	
2.30	D				2.40		89.14	
				Base of Excavation at 2.40m				
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 10/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457519.10, 225249.32	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 91.69m OD	Plant: 8T386	0.60m <input type="text"/>

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	
Depth (m)	Type	Results							
0.30	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.39		
0.50	D			Grey and reddish brown sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble and boulder content. Cobbles and boulders are sub angular of limestone. (HEAD DEPOSITS)	0.80	(0.50)	90.89		
0.90	D			Firm to stiff orangey brown and light grey mottled slightly gravelly sandy CLAY. Sand is fine to medium. Gravel is sub angular to sub rounded fine to medium of limestone. (CORNBASH FORMATION)	1.60	(0.80)	90.09		
1.70	D			Firm to stiff orangey brown and light grey slightly gravelly sandy CLAY. Gravel is sub angular fine to medium mudstone lithorelicts. (CORNBASH FORMATION)	2.50	(0.90)	89.19		
2.50	D		▼	Base of Excavation at 2.50m					
					3				
					4				
					5				

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.50m, flow rate slow. 3. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 11/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457578.94, 225338.11	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 91.92m OD	Plant: 8T387	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.62	
0.50	D			Grey and reddish brown sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble and boulder content. Cobbles and boulders are sub angular of limestone (HEAD DEPOSITS)	1.50	(1.20)	90.42	
1.50 - 2.00 1.50	B HSV	140kPa		Very stiff reddish brown mottled grey slightly gravelly CLAY. Gravel is sub angular fine to medium limestone and mudstone lithorelicts. (CORNBRAsh FORMATION)	2.00	(1.20)		
2.00 2.10	HSV D	140kPa			2.70			
2.70	D			▼ Base of Excavation at 2.70m			89.22	
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.70m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used below 2.60m. 5. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 11/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457580.50, 225272.24	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 91.57m OD	Plant: 8T388	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.30	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.27	
0.40	D			Grey and reddish brown sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble and boulder content. Cobbles and boulders are sub angular of limestone (HEAD DEPOSITS)	1.20	(0.90)	90.37	
0.50 - 1.20	B							
1.30	D	72kPa		Soft to firm light grey and orangey brown slightly sandy gravelly CLAY with occasional calcareous nodules and medium cobble content . Gravel is angular to sub angular fine to coarse of limestone. Cobbles are angular to sub angular of limestone. (HEAD DEPOSITS)	1.60	(0.40)	89.97	
1.40	HSV							
1.70	D			Firm to stiff orangey brown and light grey slightly gravelly sandy CLAY. Gravel is sub angular fine to medium mudstone lithorelicts. (CORNBRAH FORMATION)	2.40	(0.80)	89.17	
2.40	D			----- Base of Excavation at 2.40m -----				
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 11/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457624.36, 225292.42	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 91.46m OD	Plant: 8T389	

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.30	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.16	
0.40	D			Moderately weak grey and reddish brown LIMESTONE. (CORNBASH FORMATION)		(1.30)		
1.60	D	140kPa		Very stiff reddish brown mottled grey slightly gravelly CLAY. Gravel is sub angular fine to medium mudstone lithorelicts. (CORNBASH FORMATION)	1.60	(0.40)	89.86	
1.60	HSV			Stiff orangish brown mottled grey slightly gravelly CLAY. Gravel is sub angular fine to medium mudstone lithorelicts. (CORNBASH FORMATION)	2.00	(0.40)	89.46	
2.40	D			Base of Excavation at 2.40m	2.40	(0.40)	89.06	
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used between 0.50m and 1.60m. 5. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 14/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457677.77, 225262.83	Stability: No Collapse	Dimensions: 2.00m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 91.25m OD	Plant: 8T390	0.80m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10 - 0.30 0.20	B ES			Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	90.95	
0.60	D			Moderately weak fractured light grey and orangish brown LIMESTONE. (CORNBASH FORMATION)	1.60	(1.30)	89.65	
2.00 2.00	B HSV	97kPa		Stiff light grey mottled orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (CORNBASH FORMATION)	2.50	(0.90)	88.75	
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)	2.52	(0.02)	88.73	
				Base of Excavation at 2.52m				

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 1.30m and 1.60m. 5. Trial pit backfilled with arisings on completion.



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Method: Trial Pit	Date(s): 14/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457603.35, 225224.79	Stability: No Collapse	Dimensions: 2.00m 1.00m
Hydrock Project No: C-13603	Ground Level: 91.23m OD	Plant: 8T391	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	90.93	
0.50	ES			Moderately weak light grey mottled orangish brown LIMESTONE. (CORNBASH FORMATION)		(0.70)		
0.80	D							
----- Base of Excavation at 1.00m -----					1.00		90.23	
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used to advance trial pit between 0.50m and 1.00m. 4. Trial pit backfilled with arisings on completion.


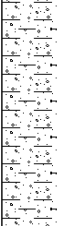



Method: Trial Pit	Date(s): 10/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457549.96, 225193.34	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 91.18m OD	Plant: 8T392	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	90.88	
0.50 - 1.00	B			Grey and reddish brown sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble and boulder content. Cobbles and boulders are sub angular of limestone. (HEAD DEPOSITS)	1.00	(0.70)	90.18	
1.10	D			Firm to stiff orangish brown and light grey mottled slightly gravelly sandy CLAY. Sand is fine to medium. Gravel is sub angular to sub rounded fine to medium of limestone. (CORNBASH FORMATION)	2.00	(1.00)	89.18	
1.40	HSV	101kPa						
2.10	D			Firm to stiff orangey brown and light grey slightly gravelly sandy CLAY. Gravel is sub angular fine to medium mudstone lithorelicts. (CORNBASH FORMATION)	2.20	(0.20)	88.98	
				Base of Excavation at 2.20m				
				3				
				4				
				5				

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 09/09/2020	Logged By: TB	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457567.86, 225169.51	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 90.98m OD	Plant: 8T360	0.90m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	90.68	
				Firm to stiff orangish brown slightly sandy very gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	1.10	(0.80)	89.88	
				Soft to firm orangish and light brown slightly sandy gravelly CLAY with a medium angular to sub-angular limestone cobble content and a low angular to sub-angular limestone boulder content. Gravel is angular to sub angular fine to coarse of limestone. (HEAD DEPOSITS)	1.40	(0.30)	89.58	
				----- Base of Excavation at 1.40m				
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.40m and 1.40m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 10/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457530.09, 225155.04	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 90.82m OD	Plant: 8T393	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	90.52	
0.50	D			Grey and reddish brown sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble and boulder content. Cobbles and boulders are sub angular of limestone. (HEAD DEPOSITS)	1.10	(0.80)	89.72	
1.20 1.20	D HSV	87kPa		Firm to stiff orangey brown and light grey mottled slightly gravelly sandy CLAY. Sand is fine to medium. Gravel is sub angular to sub rounded fine to medium of limestone. (CORNBASH FORMATION)	2.00	(0.90)	88.82	
2.00	D			----- Base of Excavation at 2.00m	2.00		88.82	
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 14/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457557.07, 225130.97	Stability: No Collapse	Dimensions: 2.20m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 90.37m OD	Plant: 8T394	0.80m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to rounded fine to coarse limestone. (TOPSOIL)	0.35	(0.35)	90.02	
0.40	ES			Moderately weak light grey mottled orangish brown LIMESTONE. (CORNBASH FORMATION)	0.90	(0.55)		
0.70 - 0.80	B							
1.00	HSV	73kPa		Firm orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (CORNBASH FORMATION)	1.80	(0.90)	89.47	
1.20	D							
				Moderately weak light grey mottled orangish brown LIMESTONE. (CORNBASH FORMATION)	1.80	(0.90)	88.57	
				Base of Excavation at 1.82m	2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 0.35m and 0.90m. 5. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 15/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457551.32, 225096.11	Stability: No Collapse	Dimensions: 2.20m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 88.86m OD	Plant: 8T395	

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown locally grey organic slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	88.56	
0.40	D			Soft yellowish brown and orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	0.70	(0.40)	88.16	
1.40	B			Weak light yellowish brown LIMESTONE with occasional bands of clay. (FOREST MARBLE FORMATION)	1.85	(1.15)	87.01	
2.00	HSV	113kPa		Stiff light bluish grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine limestone. (FOREST MARBLE FORMATION)	2.75	(0.90)	86.11	
2.20	D							
2.50	HSV	120kPa						
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)	2.80	(0.05)	86.06	
				Base of Excavation at 2.80m				

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.75m, flow rate slow. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 15/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457573.18, 225039.69	Stability: No Collapse	Dimensions: 2.20m
Hydrock Project No: C-13603	Ground Level: 86.38m OD	Plant: 8T396	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft orangish brown organic slightly sandy slightly gravelly CLAY with frequent rootlets and occasional roots. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.35	(0.35)	86.03	
0.50 0.50 0.60	D HSV ES	55kPa		Soft locally firm orangish brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	1.00	(0.65)	85.38	
				Moderately strong fractured light grey LIMESTONE. (FOREST MARBLE FORMATION)	1.30	(0.30)	85.08	
1.50 1.60	HSV D	137kPa		Very stiff light grey slightly sandy slightly gravelly CLAY with a high sub-angular limestone cobble content. Gravel is sub-angular to sub-rounded fine to coarse limestone. (FOREST MARBLE FORMATION)	2.05	(0.75)	84.33	
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)	2.10	(0.05)	84.28	
				Base of Excavation at 2.10m				
3								
4								
5								

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 14/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457609.26, 225102.45	Stability: No Collapse	Dimensions: 2.20m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 90.04m OD	Plant: 8T397	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	
Depth (m)	Type	Results							
0.10	ES			Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to rounded fine to coarse limestone. (TOPSOIL)	0.40	(0.40)	89.64		
0.50	ES			Soft locally firm yellowish brown locally orangish brown slightly sandy slightly gravelly CLAY with a medium sub-rounded limestone cobble content. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	0.95	(0.55)	89.09		
0.70	D								
1.30	D			Moderately weak fractured yellowish brown and grey LIMESTONE. (CORNBASH FORMATION)	1	(0.95)			
1.90	D			----- Base of Excavation at 1.90m -----					
					2				
					3				
					4				
					5				

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 14/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457615.45, 225150.59	Stability: No Collapse	Dimensions: 2.20m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 90.57m OD	Plant: 8T398	0.80m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to rounded fine to coarse limestone. (TOPSOIL)	0.40	(0.40)	90.17	
0.50 - 0.60	B			Moderately weak yellowish brown and grey LIMESTONE. (CORNBASH FORMATION)	1.20	(0.80)	89.37	
1.30 1.40	D HSV	107kPa		Stiff orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (CORNBASH FORMATION)	1.95	(0.75)	88.62	
1.80 - 1.90	B			Moderately weak light grey and orangish brown LIMESTONE. (FOREST MARBLE FORMATION)	2.00	(0.05)	88.57	
				Base of Excavation at 2.00m				
5								

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 0.60m and 1.20m. 5. Trial pit backfilled with arisings on completion.



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Method: Trial Pit	Date(s): 09/09/2020	Logged By: TB	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457660.19, 225226.62	Stability: No Collapse	Dimensions: 2.50m
Hydrock Project No: C-13603	Ground Level: 91.09m OD	Plant: 8T360	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	90.79	
				Stiff orangish brown very gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)		(0.70)	90.09	
----- Base of Excavation at 1.00m -----					1.00			
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.10m and 1.00m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 14/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457718.62, 225231.47	Stability: No Collapse	Dimensions: 2.20m
Hydrock Project No: C-13603	Ground Level: 90.95m OD	Plant: 8T399	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	90.65	
0.50 0.55	ES D			Soft orangish brown slightly gravelly sandy CLAY with a medium sub-rounded limestone cobble content. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	0.60	(0.30)	90.35	
0.70	D			Moderately weak light grey locally orangish brown LIMESTONE. (CORNBASH FORMATION)	1.00	(0.80)		
1.60	HSV	92kPa		Stiff grey locally orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (CORNBASH FORMATION)	1.40	(0.80)	89.55	
1.80	D				2.00	(0.80)		
----- Base of Excavation at 2.20m -----					2.20		88.75	
					3.00			
					4.00			
					5.00			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 0.70m and 1.40m. 5. Trial pit backfilled with arisings on completion.



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Method: Trial Pit	Date(s): 14/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457666.00, 225175.64	Stability: No Collapse	Dimensions: 2.00m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 90.62m OD	Plant: 8T400	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to rounded fine to coarse limestone. (TOPSOIL)	0.35	(0.35)	90.27	
0.50 0.60	ES D			Soft orangish brown locally grey slightly gravelly sandy CLAY with a medium sub-rounded limestone cobble content. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	0.90	(0.55)	89.72	
1.10	D			Light orangish brown sandy sub-angular to sub-rounded fine to coarse limestone GRAVEL. (HEAD DEPOSITS)	1.40	(0.50)	89.22	
1.60 1.70	HSV D	75kPa		Firm light orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (CORNBRASH FORMATION)	2.30	(0.90)	88.32	
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION) Base of Excavation at 2.32m	2.32	(0.02)	88.36	

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 14/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457668.30, 225114.13	Stability: No Collapse	Dimensions: 2.00m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 89.66m OD	Plant: 8T401	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20 0.30 - 0.50	ES B			Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to rounded fine to coarse limestone. (TOPSOIL)	0.50	(0.50)	89.16	
0.60 1.00 1.00	ES D HSV	72kPa		Soft orangish brown locally grey slightly gravelly slightly sandy CLAY with a medium sub-rounded limestone cobble content. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS) becoming firm below 1.00m.	1	(1.20)	87.96	
1.75	D			Moderately strong light grey and orangish brown LIMESTONE. (CORNBASH FORMATION)	1.70 1.80	(0.10)	87.86	
Base of Excavation at 1.90m					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 15/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457639.94, 225072.92	Stability: No Collapse	Dimensions: 2.00m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 88.13m OD	Plant: 8T402	0.60m <input type="text"/>

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10 0.10 - 0.20	ES B			Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	87.83	
0.40 0.60	ES D			Soft orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	1.00	(0.70)	87.13	
1.20 2.00	D D			Weak fractured light yellowish brown LIMESTONE with occasional beds of clay. (FOREST MARBLE FORMATION)	2.40 2.45	(1.40)	85.73 85.68	
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)	Base of Excavation at 2.45m			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 09/09/2020	Logged By: TB	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457618.16, 225044.24	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 86.94m OD	Plant: 8T360	0.90m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft reddish brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	86.64	
				Light reddish brown sandy clayey sub-angular to sub-rounded limestone GRAVEL with a high limestone cobble content. (HEAD DEPOSITS)	1.08	(1.08)		
				Weak grey LIMESTONE. (FOREST MARBLE FORMATION)	1.38	(0.02)	85.56	
				Base of Excavation at 1.40m	1.40		85.54	

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.40m and 1.40m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 15/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457652.33, 225007.19	Stability: No Collapse	Dimensions: 2.00m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 85.45m OD	Plant: 8T403	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft orangish brown organic slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to medium of limestone. (TOPSOIL)	0.35	(0.35)	85.10	
0.50 - 0.60	B			Soft orangish brown slightly gravelly sandy CLAY with rare rootlets. Gravel is sub-angular to sub-rounded fine to medium limestone. (HEAD DEPOSITS)	1.05	(1.05)		
1.40 - 1.45	D			Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)	1.40 1.45	(0.05)	84.05 84.00	
				Base of Excavation at 1.45m				
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 15/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457685.81, 225051.05	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 87.47m OD	Plant: 8T404	0.70m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown locally grey slightly sandy slightly gravelly CLAY with rare gravel sized fragments of brick, concrete and plastic. Gravel is sub-angular to sub-rounded fine to coarse limestone. (MADE GROUND)	0.35	(0.35)	87.12	
0.50 0.60	ES D			Soft reddish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	0.75	(0.40)	86.72	
1.00	D			Moderately weak fractured light yellowish brown and grey LIMESTONE. (FOREST MARBLE FORMATION)	1	(1.45)		
2.00 - 2.10	B				2			
2.30 2.40	HSV D	140kPa		Very stiff bluish grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse mudstone and limestone. (FOREST MARBLE FORMATION)	2.20	(0.80)	85.27	
3.00 3.00	D HSV	140kPa		Base of Excavation at 3.00m	3.00		84.47	
					4			
					5			

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



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Method: Trial Pit	Date(s): 09/09/2020	Logged By: TB	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457688.87, 225088.29	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 88.92m OD	Plant: 8T360	0.90m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.25	(0.25)	88.67	
				Soft orangish and light brown slightly sandy gravelly CLAY with a medium angular to sub-angular limestone cobble content and a low angular to sub-angular limestone boulder content. Gravel is angular to sub angular fine to coarse of limestone. (HEAD DEPOSITS)		(1.75)		
				Base of Excavation at 2.00m	2.00		86.92	

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 1.00m and 2.00m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 14/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457724.32, 225084.99	Stability: No Collapse	Dimensions: 2.20m
Hydrock Project No: C-13603	Ground Level: 89.14m OD	Plant: 8T405	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown organic slightly sandy slightly gravelly CLAY with occasional gravel sized fragments of concrete. Gravel is sub-angular to sub-rounded fine to coarse limestone. (MADE GROUND)	0.25	(0.25)	88.89	
0.40	ES			Light orangish brown and grey sandy sub-angular to sub-rounded fine to coarse limestone GRAVEL with a medium sub-rounded limestone cobble content. (HEAD DEPOSITS)		(1.05)		
0.70	D							
1.60	HSV	95kPa		Stiff light grey locally orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (FOREST MARBLE FORMATION)	1.30	(0.65)	87.84	
1.70	D							
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)	1.95	(0.05)	87.19	
				Base of Excavation at 2.00m	2.00	(0.05)	87.14	

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 14/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457721.19, 225133.12	Stability: No Collapse	Dimensions: 2.00m
Hydrock Project No: C-13603	Ground Level: 90.08m OD	Plant: 8T406	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to rounded fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	89.78	
0.40 - 0.50	B			Soft orangish brown slightly gravelly sandy CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	1.00	(0.70)	89.08	
1.60 - 1.70	B			Light grey and orangish brown very clayey sub-angular to sub-rounded fine to coarse limestone GRAVEL. (HEAD DEPOSITS)	1.45	(0.45)	88.63	
				Stiff light grey locally orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (CORNBRAsh FORMATION)	2.00	(0.55)	88.08	
				----- Base of Excavation at 2.00m	2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.



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Method: Trial Pit	Date(s): 09/09/2020	Logged By: TB	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457719.24, 225182.81	Stability: No Collapse	Dimensions: 2.50m 0.80m
Hydrock Project No: C-13603	Ground Level: 90.58m OD	Plant: 8T360	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.25	(0.25)	90.33	
				Light orangish brown sandy clayey sub-angular to sub-rounded limestone GRAVEL with a high limestone cobble content. (HEAD DEPOSITS)		(0.83)		
				----- Base of Excavation at 1.10m	1.08		89.50	
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.10m and 1.10m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 16/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457803.12, 225148.11	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 90.03m OD	Plant: 8T407	0.70m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.35	(0.35)	89.68	
0.50	D			Moderately weak to weak fractured light grey and yellowish brown LIMESTONE with occasional shell fragments. (CORNBASH FORMATION)	0.75	(0.40)	89.28	
1.30	D			Moderately weak to weak fractured orangish brown LIMESTONE. (CORNBASH FORMATION)	1.20	(0.45)	88.83	
1.60 1.60	D HSV	92kPa		Soft light yellowish grey locally orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (FOREST MARBLE FORMATION) becoming stiff below 1.60m.	2.00	(0.80)	88.03	
2.00 - 2.30	B			Very stiff friable light yellowish grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (FOREST MARBLE FORMATION)	3.00	(1.00)	87.03	
				Base of Excavation at 2.95m	3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 15/09/2020	Logged By: CA	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457830.10, 225159.51	Stability: No Collapse	Dimensions: 2.40m
Hydrock Project No: C-13603	Ground Level: 89.76m OD	Plant: 8T360	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft light brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to medium limestone. (TOPSOIL)	0.35	(0.35)	89.41	
				Moderately weak fractured light yellowish brown and grey LIMESTONE. (CORNBASH FORMATION)	0.80	(0.45)	88.96	
				Firm yellowish brown slightly sandy gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone lithorelicts. (CORNBASH FORMATION)	1.00	(0.20)	88.76	
				Weak fractured orangish brown locally grey LIMESTONE. (CORNBASH FORMATION)	1.30	(0.30)	88.46	
				Stiff light grey locally yellowish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone lithorelicts. (FOREST MARBLE FORMATION)	1.35	(0.05)	88.41	
				Base of Excavation at 1.35m				
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Soakaway test zone installed within trial pit (gravel between 0.80m and 1.35m) with water monitoring and filling pipes. Soil infiltration results reported separately. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 17/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457835.04, 225187.41	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 90.15m OD	Plant: 8T408	0.70m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown organic slightly gravelly sandy CLAY with occasional rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.50	(0.50)	89.65	
0.60	D			Moderately weak orangish brown and grey LIMESTONE. (CORNBASH FORMATION)	1.20	(0.70)	88.95	
1.30	D			Firm orangish brown slightly sandy gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (CORNBASH FORMATION)	1.40	(0.20)	88.75	
				Moderately weak fractured light grey locally orangish brown LIMESTONE. (FOREST MARBLE FORMATION)	1.70	(0.30)	88.45	
2.00	D			Stiff light grey mottled yellowish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (FOREST MARBLE FORMATION)	2.95	(1.25)	87.20	
2.50	HSV	95kPa			3.00	(0.05)	87.15	
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION) Base of Excavation at 3.00m	3.00	(0.05)	87.15	

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 0.70m and 1.20m. 5. Trial pit backfilled with arisings on completion.


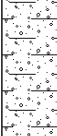
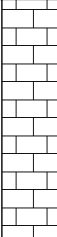


Method: Trial Pit	Date(s): 18/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457892.34, 225242.30	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 89.91m OD	Plant: 8T409	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.30	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	89.61	
0.70	D			Orangey brown very clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone (HEAD DEPOSITS)	0.80	(0.50)	89.11	
0.80 - 1.80	B							
				Moderately weak whitish grey LIMESTONE. (CORNBASH FORMATION)	1	(1.00)	88.11	
----- Base of Excavation at 1.80m					1.80		88.11	
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used below 0.80m. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 18/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457931.23, 225282.48	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 89.55m OD	Plant: 8T410	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.30	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	89.25	
0.40	D			Orangey brown very clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone (HEAD DEPOSITS)	0.80	(0.50)	88.75	
1.00	D			Moderately weak whitish grey LIMESTONE. (CORNBASH FORMATION)	1.60	(0.80)	87.95	
1.50	D				1.60		87.95	
				Base of Excavation at 1.60m				
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used below 0.80m. 4. Trial pit backfilled with arisings on completion.



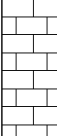
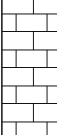


Method: Trial Pit	Date(s): 18/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457942.02, 225246.98	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 89.22m OD	Plant: 8T411	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	88.92	
0.50	D			Orangey brown very clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone (HEAD DEPOSITS)	0.80	(0.50)	88.42	
				Moderately weak whitish grey LIMESTONE. (CORNBASH FORMATION)	1.20	(0.40)	88.02	
1.30	D			Moderately weak orangish brown LIMESTONE. (CORNBASH FORMATION)	1.60	(0.40)	87.62	
				----- Base of Excavation at 1.60m				
					2			
					3			
					4			
					5			


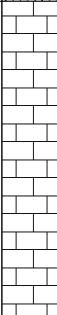
General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used below 0.80m. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 18/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457922.52, 225214.25	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 89.31m OD	Plant: 8T412	0.60m <input type="text"/>

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	89.01	
0.50	D			Orangey brown very clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone (HEAD DEPOSITS)	0.80	(0.50)	88.51	
1.00	D			Moderately weak whitish grey LIMESTONE. (CORNBASH FORMATION)	1.30	(0.50)	88.01	
1.30 - 1.80	B			Moderately weak orangish brown LIMESTONE. (CORNBASH FORMATION)	1.80	(0.50)	87.51	
				----- Base of Excavation at 1.80m	2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used below 0.80m. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 15/09/2020	Logged By: CA	Checked By: AB	
Client: Firethorn Bicester Ltd	Co-ords: 457892.23, 225204.92	Stability: No Collapse	Dimensions: 1.00m x 2.30m	Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 89.51m OD	Plant: 8T360		

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft light brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to medium limestone. (TOPSOIL)	0.25	(0.25)	89.26	
1.00	D			Moderately weak fractured light orangish brown locally grey LIMESTONE with occasional beds of clay. (CORNBASH FORMATION)	1.30	(1.05)	88.21	
				Base of Excavation at 1.30m				
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used to advance trial pit through the limestone between 0.85m to 1.30m. 4. Soakaway test zone installed within trial pit (gravel between 0.40m and 1.30m) with water monitoring and filling pipes. Soil infiltration results reported separately. 5. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 18/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457880.65, 225186.51	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 89.51m OD	Plant: 8T413	0.60m <input type="text"/>

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	89.21	
0.30 - 0.80	B			Brown very clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone (HEAD DEPOSITS)	0.80	(0.50)	88.71	
0.70	D			Moderately weak whitish grey LIMESTONE. (CORNBASH FORMATION)	1.00	(0.60)	88.11	
1.00	D							
----- Base of Excavation at 1.40m					1.40			
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used below 0.80m. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 15/09/2020	Logged By: CA	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457891.32, 225159.78	Stability: No Collapse	Dimensions: 1.00m x 2.20m
Hydrock Project No: C-13603	Ground Level: 89.10m OD	Plant: 8T360	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft light brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to medium limestone. (TOPSOIL)	0.30	(0.30)	88.80	
0.50 0.60	ES D			Moderately weak fractured grey and light yellowish brown LIMESTONE. (CORNBASH FORMATION)	0.90	(0.60)	88.20	
1.20 1.20	D HSV	63kPa		Firm light yellowish brown slightly sandy slightly gravelly CLAY. Gravel is sub-rounded fine to medium limestone lithorelicts. (CORNBASH FORMATION)	1.60	(0.70)	87.50	
				Moderately weak light yellowish brown and grey LIMESTONE. (FOREST MARBLE FORMATION)	1.70	(0.10)	87.40	
				Base of Excavation at 1.70m				
2								
3								
4								
5								

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Soakaway test zone installed within trial pit (gravel between 0.70m and 1.70m) with water monitoring and filling pipes. Soil infiltration results reported separately. 5. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

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Method: Trial Pit	Date(s): 17/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457855.88, 225140.25	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 89.33m OD	Plant: 8T414	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	89.03	
0.50	D			Weak fractured whitish grey and reddish brown LIMESTONE. (CORNBASH FORMATION)	0.90	(0.60)	88.43	
1.50 1.50 - 2.00	D B			Firm to stiff light yellow brown and light grey slightly gravelly sandy CLAY. Gravel is sub angular fine to medium limestone and mudstone lithorelicts. Sand is fine to medium. (CORNBASH FORMATION)	2.00	(1.10)	87.33	
				Base of Excavation at 2.00m				

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 16/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457824.76, 225103.95	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 89.33m OD	Plant: 8T415	0.70m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10 - 0.30 0.20	B ES			Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.40	(0.40)	88.93	[Pattern]
0.50 0.60	ES D			Light grey and orangish brown clayey sub-angular to sub-rounded fine to coarse limestone GRAVEL with a high sub-rounded limestone cobble content. (HEAD DEPOSITS)	0.85	(0.45)	88.48	[Pattern]
1.00	D			Firm orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (CORNBRAH FORMATION)	1.30	(0.45)	88.03	[Pattern]
1.50 1.50	D HSV	70kPa		Firm light grey locally mottled orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (FOREST MARBLE FORMATION)	2.00	(1.70)		[Pattern]
2.50 2.50	D HSV	113kPa	 becoming stiff below 2.50m.	3.00		86.33	[Pattern]
				Base of Excavation at 3.00m				

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.


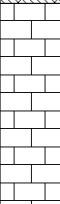

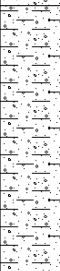


Method: Trial Pit	Date(s): 16/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457867.46, 225105.97	Stability: No Collapse	Dimensions: 2.20m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 88.89m OD	Plant: 8T416	0.70m <input type="text"/>

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.40	(0.40)	88.49	
0.50 - 0.60	B			Light grey and orangish brown clayey sub-angular to sub-rounded fine to coarse limestone GRAVEL. (HEAD DEPOSITS)	0.80	(0.40)	88.09	
0.90 1.00	D HSV	57kPa		Firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (CORNBASH FORMATION)	1.05	(0.25)	87.84	
1.20 1.50	D HSV	85kPa		Stiff light grey and yellowish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (FOREST MARBLE FORMATION)	1.80	(0.75)	87.09	
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)	1.85	(0.05)	87.04	
				Base of Excavation at 1.85m	2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 17/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457897.56, 225135.88	Stability: No Collapse	Dimensions: 2.20m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 88.86m OD	Plant: 8T417	0.70m <input type="text"/>

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	88.56	
0.40	ES			Weak fractured whitish grey and reddish brown LIMESTONE. (CORNBASH FORMATION)	1.00	(0.70)	87.86	
0.50	D							
1.10	D	104kPa		Firm orangey brown and grey slightly gravelly sandy CLAY with occasional sugary selenite crystals and shell fossils. Gravel is sub angular fine of limestone. (CORNBASH FORMATION)	1.20	(0.20)	87.66	
1.20	HSV							
2.10	D			Stiff light yellow brown and light grey slightly gravelly sandy CLAY. Gravel is sub angular fine to medium mudstone lithorelicts. Sand is fine to medium. (FOREST MARBLE FORMATION)	2.10	(0.90)	86.76	
				Base of Excavation at 2.10m				
5								

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 17/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457929.90, 225175.99	Stability: No Collapse	Dimensions: 2.50m 0.60m
Hydrock Project No: C-13603	Ground Level: 88.87m OD	Plant: 8T418	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.30	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	88.57	
0.50	D			Weak fractured light orangish brown LIMESTONE. (CORNBASH FORMATION)	0.80	(0.50)	88.07	
1.00	D			Moderately weak whitish grey LIMESTONE. (CORNBASH FORMATION)	1.20	(0.40)	87.67	
1.50	D			Moderately weak whitish grey and orangish brown LIMESTONE. (CORNBASH FORMATION)	1.60	(0.40)	87.27	
				----- Base of Excavation at 1.60m	2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used below 0.80m. 4. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

Trialpit No
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Method: Trial Pit	Date(s): 17/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457961.87, 225182.71	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 88.67m OD	Plant: 8T419	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.20	(0.20)	88.47	
0.50	D			Weak to moderately weak fractured light orangish brown LIMESTONE. (CORNBASH FORMATION)		(1.00)		
1.30	D			Moderately weak fractured whitish grey LIMESTONE. (CORNBASH FORMATION)	1.20	(0.40)	87.47	
----- Base of Excavation at 1.60m					1.60		87.07	
					2			
					3			
					4			
					5			

General Remarks:
1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 17/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457949.17, 225126.89	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 88.08m OD	Plant: 8T420	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.30	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	87.78	
0.50	D			Weak fractured whitish grey and reddish brown LIMESTONE. (CORNBASH FORMATION)	0.80	(0.50)	87.28	
0.80 - 1.20	B			Weak fractured orangish brown and whitish grey LIMESTONE. (CORNBASH FORMATION)	1.20	(0.40)	86.88	
1.30	D			Firm to stiff orangey brown and light grey slightly gravelly sandy CLAY. Gravel is sub angular fine to medium mudstone lithorelicts. Sand is fine to medium. (FOREST MARBLE FORMATION)	1.80	(0.60)	86.28	
1.80	D			----- Base of Excavation at 1.80m	2.00			
					3.00			
					4.00			
					5.00			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.



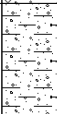
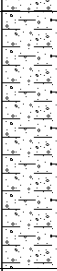


Method: Trial Pit	Date(s): 16/09/2020	Logged By: CA	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457873.27, 225074.56	Stability: No Collapse	Dimensions: 2.70m
Hydrock Project No: C-13603	Ground Level: 88.49m OD	Plant: 8T360	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft orangish brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.40	(0.40)	88.09	
0.50	D			Light grey and orangish brown sandy sub-angular to sub-rounded fine to coarse limestone GRAVEL with a medium sub-rounded limestone cobble content. (HEAD DEPOSITS)	0.65	(0.25)	87.84	
				Firm orangish brown locally grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone lithorelicts. (CORNBASH FORMATION) becoming stiff below 1.20m.	1.65	(1.00)	86.84	
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)	1.70	(0.05)	86.79	
				Base of Excavation at 1.70m				
					2			
					3			
					4			
					5			


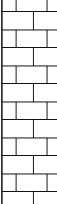


General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Soakaway test zone installed within trial pit (gravel between 0.80m and 1.70m) with water monitoring and filling pipes. Soil infiltration results reported separately. 5. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 16/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457847.67, 225059.16	Stability: No Collapse	Dimensions: 2.20m
Hydrock Project No: C-13603	Ground Level: 88.55m OD	Plant: 8T421	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	88.25	
0.50 0.60	ES D			Light grey and orangish brown sandy sub-angular to sub-rounded fine to coarse limestone GRAVEL with a medium sub-rounded limestone cobble content. (HEAD DEPOSITS)	0.70	(0.40)	87.85	
1.00	D			Firm orangish brown and yellowish grey slightly sandy slightly gravelly CLAY with a high sub-rounded limestone cobble content. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	1	(0.40)	87.45	
1.20 1.40	HSV D	72kPa		Firm light grey mottled orangish brown slightly sandy slightly gravelly CLAY with rare fossil fragments. Gravel is sub-angular to sub-rounded fine to coarse limestone. (FOREST MARBLE FORMATION)	1.10 1.95	(0.85)	86.60	
----- Base of Excavation at 2.00m -----								
2								
3								
4								
5								

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 16/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457903.22, 225064.10	Stability: No Collapse	Dimensions: 2.20m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 87.90m OD	Plant: 8T422	0.70m <input type="text"/>

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft orangish brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	87.60	
0.50	ES			Weak to moderately weak fractured light yellowish brown and grey LIMESTONE. (CORNBASH FORMATION)	1.05	(0.75)		
1.10	D			Firm locally soft orangish brown and grey slightly sandy slightly gravelly CLAY with occasional shell fragments. Gravel is sub-angular to sub-rounded fine to coarse limestone. (FOREST MARBLE FORMATION)	1.25	(0.20)	86.65	
1.40	D			Moderately weak light grey LIMESTONE with occasional fine gravel sized fossil fragments. (FOREST MARBLE FORMATION)	1.50	(0.25)	86.40	
				Base of Excavation at 1.50m				
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 17/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457954.16, 225090.12	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 87.26m OD	Plant: 8T423	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	86.96	
0.50	ES			Whitish grey and reddish brown sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble and boulder content. Cobbles and boulders are angular to sub angular of limestone. (HEAD DEPOSITS)	0.60	(0.30)	86.66	
0.70	D			Orangey brown and whitish grey clayey angular to sub angular fine to coarse GRAVEL of limestone with medium cobble and boulder content. Cobbles are angular of limestone. (HEAD DEPOSITS)	0.90	(0.30)	86.36	
1.10	D			Firm to stiff orangey brown and light grey slightly gravelly sandy CLAY. Gravel is sub angular fine to medium mudstone lithorelicts. Sand is fine to medium. (FOREST MARBLE FORMATION)	1	(0.50)	85.86	
----- Base of Excavation at 1.40m					1.40			
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 17/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457986.62, 225130.76	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 87.63m OD	Plant: 8T424	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	87.33	
0.50	D			Whitish grey and reddish brown sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble and boulder content. Cobbles and boulders are angular to sub angular of limestone. (HEAD DEPOSITS)	1.20	(0.90)	86.43	
1.30	D			Firm to stiff orangey brown and light grey slightly gravelly sandy CLAY. Gravel is sub angular fine to medium mudstone lithorelicts. Sand is fine to medium. (FOREST MARBLE FORMATION)	1.70	(0.50)	85.93	
1.70 - 1.90	B			Moderately weak light orangish brown LIMESTONE. (FOREST MARBLE FORMATION)	1.90	(0.20)	85.73	
				----- Base of Excavation at 1.90m	2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 18/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457998.91, 225069.53	Stability: No Collapse	Dimensions: 2.50m
Hydrock Project No: C-13603	Ground Level: 84.87m OD	Plant: 8T425	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	84.57	[Diagonal Hatching]
0.40	ES			Soft brown slightly gravelly sandy CLAY. Gravel is sub angular fine to coarse of limestone. (MADE GROUND)	1	(0.90)		[Cross-hatching]
0.50	D							
0.50 - 1.20	B							
1.30	D			Soft blackish brown (discoloured) slightly gravelly sandy CLAY. Gravel is sub angular fine to coarse of limestone. (MADE GROUND)	1.20	(0.40)	83.67	[Cross-hatching]
1.70	D			Soft to firm orangey brown and whitish grey slightly gravelly sandy CLAY. Gravel is angular to sub angular fine to coarse of limestone. (FOREST MARBLE FORMATION)	2	(0.70)		[Stippled]
2.40	D			Firm to stiff greenish grey CLAY with occasional rootlets. (FOREST MARBLE FORMATION)	2.30	(0.70)	82.57	[Stippled]
Base of Excavation at 3.00m					3.00		81.87	
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.00m, flow rate moderate. 3. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 16/09/2020	Logged By: CA	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457950.64, 225042.54	Stability: No Collapse	Dimensions: 2.80m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 85.15m OD	Plant: 8T360	

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft orangish brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)		(0.60)	84.55	
0.70	ES			Soft orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	0.60	(0.25)	84.30	
1.00	D			Firm yellowish brown slightly sandy slightly gravelly CLAY with a high sub-angular to sub-rounded limestone cobble content. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	0.85	(0.50)	83.80	
1.50 1.50	B HSV	140kPa		Stiff light grey slightly sandy slightly gravelly silty CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone lithorelicts. (FOREST MARBLE FORMATION) becoming very stiff below 1.50m.	1	(0.50)	83.30	
				Moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)	1.35	(0.35)	82.95	
				Base of Excavation at 2.20m	1.85			
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 1.85m and 2.20m. 5. Soakaway test zone installed within trial pit (gravel between 1.20m and 2.00m) with water monitoring and filling pipes. Soil infiltration results reported separately. 6. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 16/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457915.93, 225032.01	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 86.26m OD	Plant: 8T426	0.70m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft orangish brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is angular to sub angular fine to medium of limestone. (TOPSOIL)	0.40	(0.40)	85.86	
0.50	ES			Soft orangish brown slightly sandy slightly gravelly CLAY with a high sub-rounded limestone cobble content. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	0.95	(0.55)	85.31	
1.00 - 1.50	B			Weak fractured light yellowish brown and grey LIMESTONE. (FOREST MARBLE FORMATION)	1.70	(0.75)	84.56	
1.90 2.00 - 2.50 2.00	D B HSV	140kPa		Very stiff light bluish grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine limestone. (FOREST MARBLE FORMATION)	2.70	(1.00)	83.56	
2.50	HSV	140kPa		Moderately weak light grey and orangish brown LIMESTONE. (FOREST MARBLE FORMATION)	2.75	(0.05)	83.51	
				Base of Excavation at 2.75m				
3								
4								
5								

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 16/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457876.79, 224997.85	Stability: No Collapse	Dimensions: 1.20m x 3.00m
Hydrock Project No: C-13603	Ground Level: 86.12m OD	Plant: 8T427	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth (m)	Thickness (m)	Level (m OD)	Legend
Depth (m)	Type	Results						
0.10	ES			Soft orangish brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is angular to sub angular fine to medium of limestone. (TOPSOIL)	0.30	(0.30)	85.82	
0.40	ES			Soft orangish brown slightly sandy slightly gravelly CLAY with a high sub-rounded limestone cobble content. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)				
0.60	B				1.10	(0.80)	85.02	
1.20	HSV	98kPa		Stiff bluish grey locally orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine limestone. (FOREST MARBLE FORMATION)	1.60	(0.50)	84.52	
1.30	D							
1.70	D			Weak to moderately weak light grey LIMESTONE. (FOREST MARBLE FORMATION)	2.00	(0.40)	84.12	
				----- Base of Excavation at 2.00m -----				
5								

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Breaker used to advance trial pit between 1.70m and 2.00m. 5. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 16/09/2020	Logged By: CA	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457911.92, 225002.53	Stability: No Collapse	Dimensions: 2.60m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 85.00m OD	Plant: 8T360	1.00m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10 - 0.30 0.20	B ES			Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse limestone. (TOPSOIL)	0.40	(0.40)	84.60	
0.50 0.50	D HSV	60kPa		Firm orangish brown slightly sandy slightly gravelly CLAY with a medium sub-angular to sub-rounded limestone cobble content. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	0.70	(0.30)	84.30	
0.90 0.90	D HSV	75kPa		Firm light grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone lithorelicts. (FOREST MARBLE FORMATION)	0.95	(0.25)	84.05	
1.20	D			Weak fractured light grey LIMESTONE. (FOREST MARBLE FORMATION)	1	(1.25)	82.80	
Base of Excavation at 2.20m					2.20		82.80	
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. A set of hand shear vane tests were carried out in the trial pit, with the results summarised on the log above. 4. Soakaway test zone installed within trial pit (gravel between 1.50m and 2.20m) with water monitoring and filling pipes. Soil infiltration results reported separately. 5. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 16/09/2020	Logged By: CA	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457911.47, 224957.69	Stability: Collapse	Dimensions: 2.50m 0.70m
Hydrock Project No: C-13603	Ground Level: 83.36m OD	Plant: 8T428	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft orangish brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is angular to sub angular fine to medium of limestone. (TOPSOIL)	0.40	(0.40)	82.96	
0.60 0.70	ES D			Soft brown slightly organic sandy CLAY with rootlets. (HEAD DEPOSITS)	1.30	(0.90)	82.06	
1.50	D			Soft grey slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	1.95	(0.65)	81.41	
2.00	D		▼	Moderately weak fractured light grey and yellowish grey LIMESTONE. (FOREST MARBLE FORMATION)	2.60	(0.65)	80.76	
----- Base of Excavation at 2.60m -----					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.95m, flow rate moderate. 3. Collapse of the sidewalls between 2.00m and 2.50m due to the groundwater entry. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 21/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457998.85, 225196.03	Stability: No Collapse	Dimensions: 0.60m x 2.50m
Hydrock Project No: C-13603	Ground Level: 88.57m OD	Plant: 8T429	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.10	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	88.27	
0.50	D			Weak fractured reddish brown LIMESTONE. (CORNBASH FORMATION)	0.60	(0.30)	87.97	
0.70	D			Weak fractured orangish brown LIMESTONE with occasional clay beds. (CORNBASH FORMATION)	1.00	(0.70)		
1.30 - 1.60	B			Moderately weak whitish grey LIMESTONE. (CORNBASH FORMATION)	1.30	(0.30)	87.27	
1.60	D			----- Base of Excavation at 1.60m	1.60		86.97	
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Breaker used below 1.30m. 4. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

Trialpit No
TP88
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Method: Trial Pit	Date(s): 21/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 458030.74, 225151.32	Stability: No Collapse	Dimensions: 2.50m 0.60m <input type="text"/>
Hydrock Project No: C-13603	Ground Level: 86.78m OD	Plant: 8T430	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft brown slightly gravelly sandy CLAY with frequent rootlets and occasional gravel sized fragments of brick. Gravel is angular to sub angular fine to coarse of limestone. (MADE GROUND)	0.20	(0.20)	86.58	
0.50	ES			Soft blackish brown and brown slightly gravelly sandy CLAY with occasional gravel sized fragments of brick. Gravel is sub angular fine to coarse of limestone. (MADE GROUND)	0.60	(0.40)	86.18	
1.00 1.00	D ES			Very weak fractured brown and grey LIMESTONE. (CORNBASH FORMATION)	1	(1.60)		
2.00	D							
----- Base of Excavation at 2.20m -----					2.20		84.58	
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.



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Trialpit No TP90

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Method: Trial Pit	Date(s): 08/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457210.96, 225276.44	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 90.30m OD	Plant: 8T432	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	90.00	
				Firm light grey mottled light brown slightly sandy slightly gravelly CLAY with occasional white powder and calcareous nodules. Gravel is sub angular to sub rounded fine to coarse of limestone. (CORNBASH FORMATION)	1.00	(0.70)	89.30	
				Soft to firm (wet) orangish brown mottled whitish grey slightly sandy slightly gravelly CLAY. Gravel is sub angular fine to coarse limestone lithorelicts. Sand is fine. (FOREST MARBLE FORMATION)	1.90	(0.90)	88.40	
▼ Base of Excavation at 1.90m					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 1.80m, flow rate moderate. 3. Trial pit backfilled with arisings on completion.



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Trialpit No TP91
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Method: Trial Pit	Date(s): 08/09/2020	Logged By: TB	Checked By: CV
Client: Firethorn Bicester Ltd	Co-ords: 457246.50, 225313.53	Stability: No Collapse	Dimensions: 2.50m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 91.50m OD	Plant: 8T433	0.60m

Samples / Tests			Water-Strikes	Stratum Description	Depth m(bgl)	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.20	
				Orangish brown clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone. (HEAD DEPOSITS)	0.60	(0.30)	90.90	
				Light brown clayey sandy angular fine to coarse GRAVEL of limestone with high cobble content. Cobbles are angular to sub angular of limestone. (HEAD DEPOSITS)	1.10	(0.50)	90.40	
				Firm light grey mottled light brown slightly sandy slightly gravelly CLAY with occasional white powder and calcareous nodules. Gravel is sub angular to sub rounded fine to coarse of limestone. (CORNBASH FORMATION)	1.50	(0.40)	90.00	
				Soft to firm (wet) orangish brown mottled whitish grey slightly sandy slightly gravelly CLAY. Gravel is sub angular fine to coarse limestone lithorelicts. Sand is fine. (FOREST MARBLE FORMATION)	2.60	(1.10)	88.90	
<div style="text-align: center;"> Base of Excavation at 2.60m </div>								
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 2.60m, flow rate moderate. 3. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 08/09/2020	Logged By: TB	Checked By: CV	
Client: Firethorn Bicester Ltd	Co-ords: 457338.26, 225295.22	Stability: No Collapse	Dimensions: 2.50m	Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 91.60m OD	Plant: 8T434	0.60m	

Samples / Tests			Water-Strikes	Stratum Description	Depth m (bgl)	Thickness (m)	Level m OD	Legend	
Depth (m)	Type	Results							
				Soft brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is angular to sub angular fine to coarse of limestone. (TOPSOIL)	0.30	(0.30)	91.30	[Hatched Pattern]	
				Orangish brown clayey sandy angular to sub angular fine to coarse GRAVEL of limestone with medium cobble content. Cobbles are angular to sub angular of limestone. (HEAD DEPOSITS)	0.50	(0.20)	91.10	[Stippled Pattern]	
				Light brown clayey sandy angular fine to coarse GRAVEL of limestone with high cobble content. Cobbles are angular to sub angular of limestone. (HEAD DEPOSITS)	0.90	(0.40)	90.70	[Stippled Pattern]	
				Firm light grey mottled light brown slightly sandy slightly gravelly CLAY with occasional white powder and calcareous nodules. Gravel is sub angular to sub rounded fine to coarse of limestone. (CORNBASH FORMATION)	1.20	(0.30)	90.40	[Stippled Pattern]	
				Firm orangish brown mottled yellowish grey slightly sandy slightly gravelly CLAY. Gravel is sub angular fine to coarse limestone lithorelicts. Sand is fine. (CORNBASH FORMATION)	2.20	(1.00)	89.40	[Stippled Pattern]	
				Base of Excavation at 2.20m					

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater not encountered. 3. Trial pit backfilled with arisings on completion.

Method: Hand-dug Pit	Date(s): 07/01/2021	Logged By: SP	Checked By: CA
Client: Firethorn Bicester Ltd	Co-ords: 457393.07, 225442.94	Stability: No Collapse	Dimensions: 0.30m <input type="text"/> Scale: 1:10
Hydrock Project No: C-13603	Ground Level: 92.29m OD	Plant: Hand Tools	

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly gravelly slightly sandy CLAY with occasional rootlets. Gravel is sub-angular to fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	91.99	
				Soft orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS)	0.55	(0.25)	91.74	
Base of Excavation at 0.55m								

General Remarks:
 1. Trial pit excavated using handtools. 2. Groundwater encountered at 0.55m rising to 0.20m after 30 minutes and prior to starting infiltration testing. Infiltration testing at this location therefore cancelled due to shallow groundwater. 3. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

Trialpit No TP102


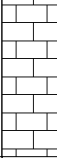
Page No. 1 of 1

Method: Trial Pit	Date(s): 06/01/2021	Logged By: SP	Checked By: CA
Client: Firethorn Bicester Ltd	Co-ords: 457469.24, 225384.74	Stability: No Collapse	Dimensions: 2.20m
Hydrock Project No: C-13603	Ground Level: 92.24m OD	Plant: 8T Tracked	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly gravelly slightly sandy CLAY with occasional rootlets. Gravel is sub-angular to fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	91.94	
				Weak to moderately weak very thinly bedded fractured orangish brown LIMESTONE. (CORNBASH FORMATION)	0.60	(0.30)	91.64	
				----- Base of Excavation at 0.60m				
					1			
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Soil infiltration testing carried out in the trial pit, results reported separately. 3. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 06/01/2021	Logged By: SP	Checked By: CA	
Client: Firethorn Bicester Ltd	Co-ords: 457476.36, 225313.62	Stability: No Collapse	Dimensions: 2.20m	Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 92.01m OD	Plant: 8T Tracked	0.70m	

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly gravelly slightly sandy CLAY with occasional rootlets. Gravel is sub-angular to fine to coarse limestone. (TOPSOIL)	0.25	(0.25)	91.76	
				Weak to moderately weak very thinly bedded fractured orangish brown LIMESTONE. (CORNBASH FORMATION)		(0.55)		
				Base of Excavation at 0.80m	0.80		91.21	
					1			
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Soil infiltration testing carried out in the trial pit, results reported seperately. 3. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

Trialpit No TP104

Page No. 1 of 1

Method: Trial Pit	Date(s): 06/01/2021	Logged By: SP	Checked By: CA
Client: Firethorn Bicester Ltd	Co-ords: 457566.05, 225304.13	Stability: No Collapse	Dimensions: 2.20m
Hydrock Project No: C-13603	Ground Level: 91.77m OD	Plant: 8T Tracked	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly gravelly slightly sandy CLAY with occasional rootlets. Gravel is sub-angular to fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	91.47	
				Weak to moderately weak very thinly bedded fractured orangish brown LIMESTONE. (CORNBASH FORMATION)	0.50	(0.20)	91.27	
				Base of Excavation at 0.50m				
					1			
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Soil infiltration testing carried out in the trial pit, results reported separately. 3. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

Trialpit No TP105

Page No. 1 of 1

Method: Trial Pit	Date(s): 06/01/2021	Logged By: SP	Checked By: CA
Client: Firethorn Bicester Ltd	Co-ords: 457630.22, 225264.05	Stability: No Collapse	Dimensions: 2.20m
Hydrock Project No: C-13603	Ground Level: 91.30m OD	Plant: 8T Tracked	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly gravelly slightly sandy CLAY with occasional rootlets. Gravel is sub-angular to fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	91.00	
				Weak to moderately weak very thinly bedded fractured orangish brown LIMESTONE. (CORNBASH FORMATION)	0.60	(0.30)	90.70	
				----- Base of Excavation at 0.60m				
					1			
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Soil infiltration testing carried out in the trial pit, results reported separately. 3. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

Trialpit No TP106

Page No. 1 of 1

Method: Trial Pit	Date(s): 06/01/2021	Logged By: SP	Checked By: CA
Client: Firethorn Bicester Ltd	Co-ords: 457587.50, 225178.05	Stability: No Collapse	Dimensions: 2.20m
Hydrock Project No: C-13603	Ground Level: 91.04m OD	Plant: 8T Tracked	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly gravelly slightly sandy CLAY with occasional rootlets. Gravel is sub-angular to fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	90.74	
				Light brown slightly gravelly clayey SAND. Gravel is angular fine to coarse limestone. (HEAD DEPOSITS)	0.80	(0.50)	90.24	
				----- Base of Excavation at 0.80m				
					1			
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Soil infiltration testing carried out in the trial pit, results reported separately. 3. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

Trialpit No
TP107
Page No. 1 of 1

Method: Trial Pit	Date(s): 06/01/2021	Logged By: SP	Checked By: CA
Client: Firethorn Bicester Ltd	Co-ords: 457678.13, 225141.15	Stability: No Collapse	Dimensions: 2.20m Scale: 1:25
Hydrock Project No: C-13603	Ground Level: 90.12m OD	Plant: 8T Tracked	0.70m

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly gravelly slightly sandy CLAY with occasional rootlets. Gravel is sub-angular to fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	89.82	
				Weak to moderately weak very thinly bedded fractured orangish brown LIMESTONE. (CORNBASH FORMATION)	0.60	(0.30)	89.52	
				Firm light yellowish brown silty CLAY. (CORNBASH FORMATION)	0.90	(0.30)	89.22	
				----- Base of Excavation at 0.90m	1			
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Soil infiltration testing carried out in the trial pit, results reported seperately. 3. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 05/01/2021	Logged By: CA	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457586.87, 225069.09	Stability: No Collapse	Dimensions: 2.10m
Hydrock Project No: C-13603	Ground Level: 87.92m OD	Plant: 8T Tracked	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse sandstone. (TOPSOIL)	0.50	(0.50)	87.42	
				Soft orangish brown slightly sandy slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to coarse limestone. (HEAD DEPOSITS) Becoming firm below 1.20m.	1.80	(1.30)	86.12	
			▼	Moderately weak light yellowish grey LIMESTONE. (FOREST MARBLE FORMATION)	2.30	(0.50)	85.62	
----- Base of Excavation at 2.30m -----								
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater encountered at 2.00m, flow rate slow. 3. Soil infiltration testing carried out in the trial pit (gravel installed from 1.50m to 2.30m), results reported seperately. 4. Trial pit backfilled with arisings on completion.



Method: Trial Pit	Date(s): 05/01/2021	Logged By: CA	Checked By: AB
Client: Firethorn Bicester Ltd	Co-ords: 457652.35, 225051.88	Stability: Collapse	Dimensions: 2.80m
Hydrock Project No: C-13603	Ground Level: 87.44m OD	Plant: 8T Tracked	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown organic slightly sandy slightly gravelly CLAY with occasional rootlets. Gravel is sub-angular to sub-rounded fine to coarse sandstone. (TOPSOIL)	0.30	(0.30)	87.14	
				Soft orangish brown slightly sandy slightly gravelly CLAY with occasional gravel sized ceramic fragments. Gravel is sub-angular to sub-rounded fine to coarse limestone. (MADE GROUND)	0.60	(0.30)	86.84	
				Very weak light yellowish grey LIMESTONE. (FOREST MARBLE FORMATION)	1.80	(1.20)	85.64	
				Stiff dark bluish and greenish grey slightly gravelly CLAY. Gravel is sub-angular to sub-rounded fine to medium mudstone and limestone. (FOREST MARBLE FORMATION)	3.00	(1.20)	84.44	
Base of Excavation at 3.00m								

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater encountered at 1.80m, flow rate slow. 3. Sidewalls collapsing locally in the trial pit between 1.40m and 1.80m. 4. Soil infiltration testing carried out in the trial pit (gravel installed from 1.60m to 3.00m), results reported seperately. 5. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

Trialpit No TP110

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Method: Trial Pit	Date(s): 07/01/2021	Logged By: SP	Checked By: CA
Client: Firethorn Bicester Ltd	Co-ords: 457857.29, 225163.93	Stability: No Collapse	Dimensions: 2.20m
Hydrock Project No: C-13603	Ground Level: 89.51m OD	Plant: 8T Tracked	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly gravelly slightly sandy CLAY with occasional rootlets. Gravel is sub-angular to fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	89.21	
				Weak to moderately weak very thinly bedded fractured orangish brown LIMESTONE. (CORNBASH FORMATION)	0.60	(0.30)	88.91	
				Base of Excavation at 0.60m				
					1			
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Groundwater was encountered at 0.50m rising to 0.20m after one hour and prior to carrying out infiltration testing. Infiltration test therefore cancelled due to shallow groundwater. 3. Trial pit backfilled with arisings on completion.



Project: North West Bicester Eco Development

Trialpit No TP111




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Method: Trial Pit	Date(s): 07/01/2021	Logged By: SP	Checked By: CA
Client: Firethorn Bicester Ltd	Co-ords: 457887.63, 225121.07	Stability: No Collapse	Dimensions: 2.20m
Hydrock Project No: C-13603	Ground Level: 88.86m OD	Plant: 8T Tracked	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly gravelly slightly sandy CLAY with occasional rootlets. Gravel is sub-angular to fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	88.56	
				Dark reddish brown slightly gravelly clayey SAND. Gravel is angular medium to coarse limestone. (HEAD DEPOSITS)	0.70	(0.40)	88.16	
				----- Base of Excavation at 0.70m -----				
					1			
					2			
					3			
					4			
					5			


General Remarks:
 1. Trial pit mechanically excavated. 2. Soil infiltration testing carried out in the trial pit, results reported separately. 3. Trial pit backfilled with arisings on completion.

Method: Trial Pit	Date(s): 07/01/2021	Logged By: SP	Checked By: CA
Client: Firethorn Bicester Ltd	Co-ords: 457951.97, 225210.89	Stability: No Collapse	Dimensions: 2.20m
Hydrock Project No: C-13603	Ground Level: 88.94m OD	Plant: 8T Tracked	Scale: 1:25


Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft brown slightly gravelly slightly sandy CLAY with occasional rootlets. Gravel is sub-angular to fine to coarse limestone. (TOPSOIL)	0.30	(0.30)	88.64	
				Dark reddish brown slightly gravelly clayey SAND. Gravel is angular medium to coarse limestone. (HEAD DEPOSITS)	0.70	(0.40)	88.24	
				Weak to moderately weak very thinly bedded fractured orangish brown LIMESTONE. (CORNBASH FORMATION)	0.80	(0.10)	88.14	
				Base of Excavation at 0.80m				
					1			
					2			
					3			
					4			
					5			

General Remarks:
 1. Trial pit mechanically excavated. 2. Soil infiltration testing carried out in the trial pit, results reported separately. 3. Trial pit backfilled with arisings on completion.

Site Investigation Photograph 1	
Date: Sept. 2020	
Direction Photograph Taken: n/a.	
Description: RBH01 1.20 – 2.00m (bottom); 2.00m to 3.00m (top).	

Site Investigation Photograph 2	
Date: Sept. 2020	
Direction Photograph Taken: n/a.	
Description: RBH01 3.00 – 4.00m (top); 4.00m to 5.00m (bottom).	

Site Investigation Photograph 3	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH02 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).	

Site Investigation Photograph 4	
Date: Sept. 2020	
Direction Photograph Taken: n/a.	
Description: RBH02 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).	

Site Investigation Photograph 5	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH03 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).	

Site Investigation Photograph 6	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH03 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).	

Site Investigation Photograph 7	
Date: Sept. 2020	
Direction Photograph Taken: n/a.	
Description: RBH04 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).	

Site Investigation Photograph 8	
Date: Sept. 2020.	
Direction Photograph Taken: n/a.	
Description: RBH04 3.00m – 4.00m (top); 4.00m – 5.00m (base).	

Site Investigation Photograph 9	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH05 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).	

Site Investigation Photograph 10	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH05 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).	

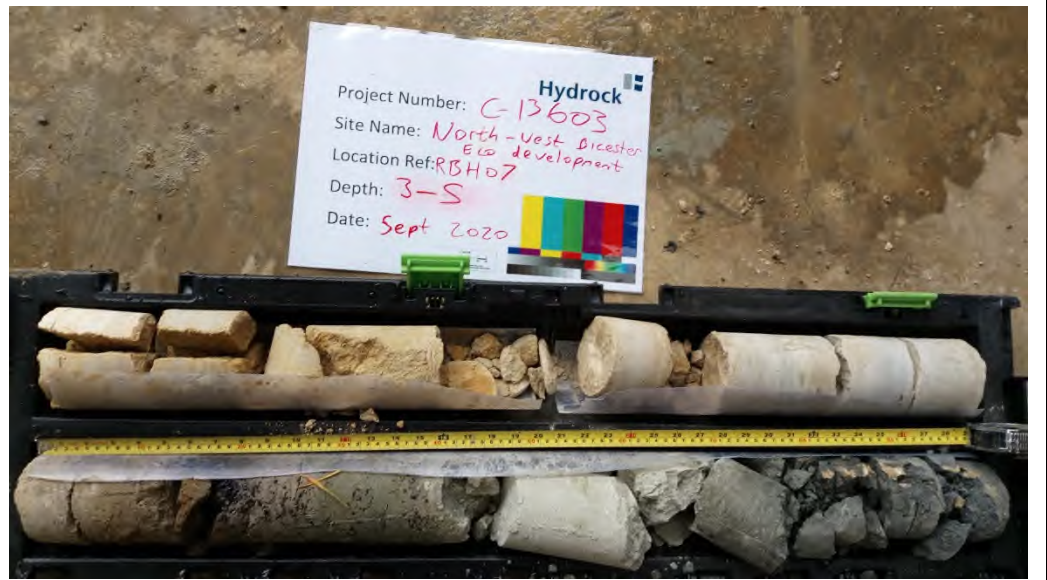
Site Investigation Photograph 11	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH06 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).	

Site Investigation Photograph 12	
Date: Sept. 2020	
Direction Photograph Taken: n/a.	
Description: RBH06 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).	

Site Investigation Photograph 13
Date: Sept. 2020
Direction Photograph Taken: n/a
Description: RBH07 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).

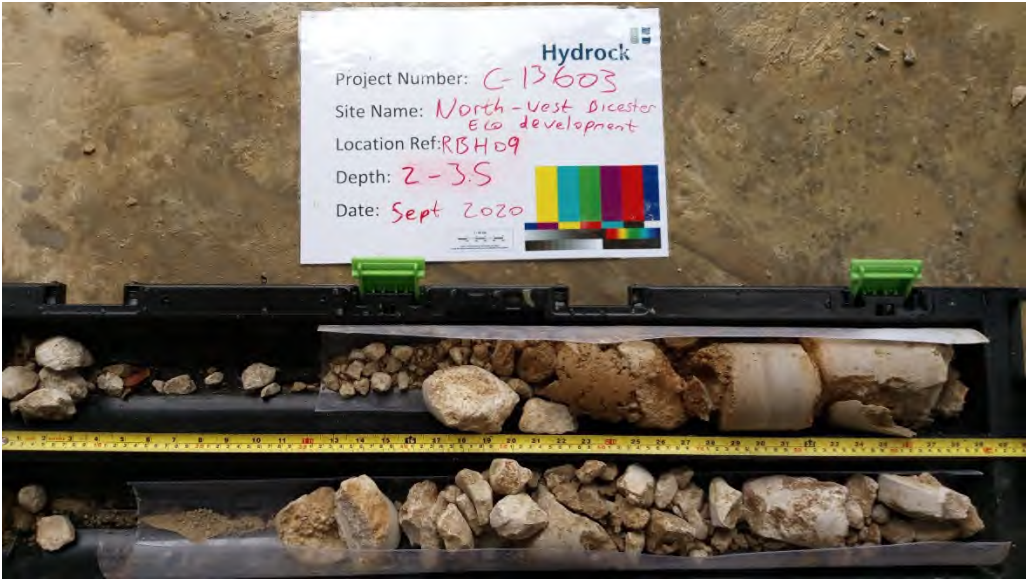


Site Investigation Photograph 14
Date: Sept. 2020
Direction Photograph Taken: n/a
Description: RBH07 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).



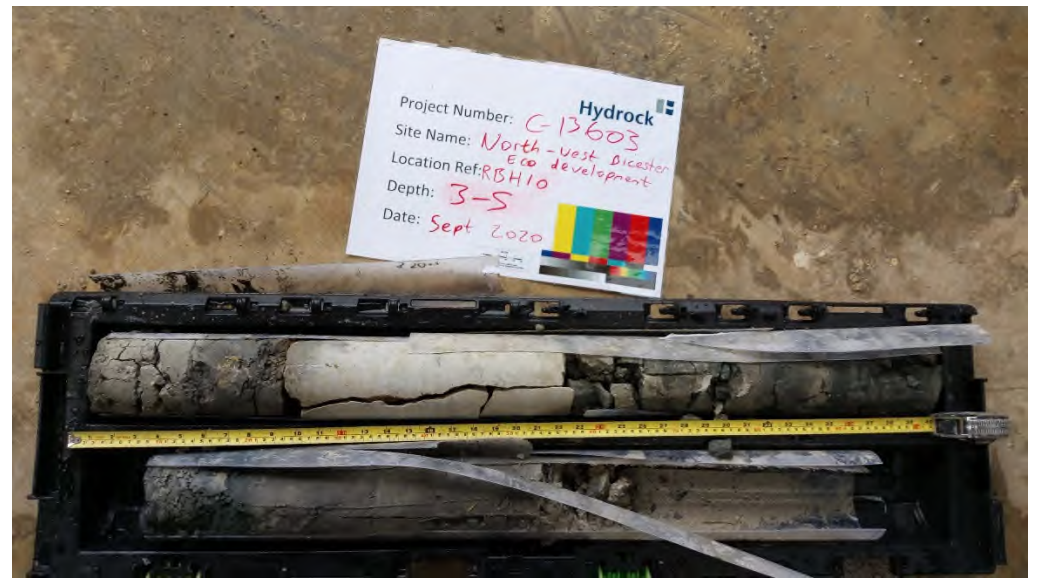
Site Investigation Photograph 15	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH08 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).	

Site Investigation Photograph 16	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH08 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).	

Site Investigation Photograph 17	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH09 2.00m – 3.00m (bottom); 3.00m – 3.50m (top).	

Site Investigation Photograph 18	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH09 3.50m – 5.00m.	

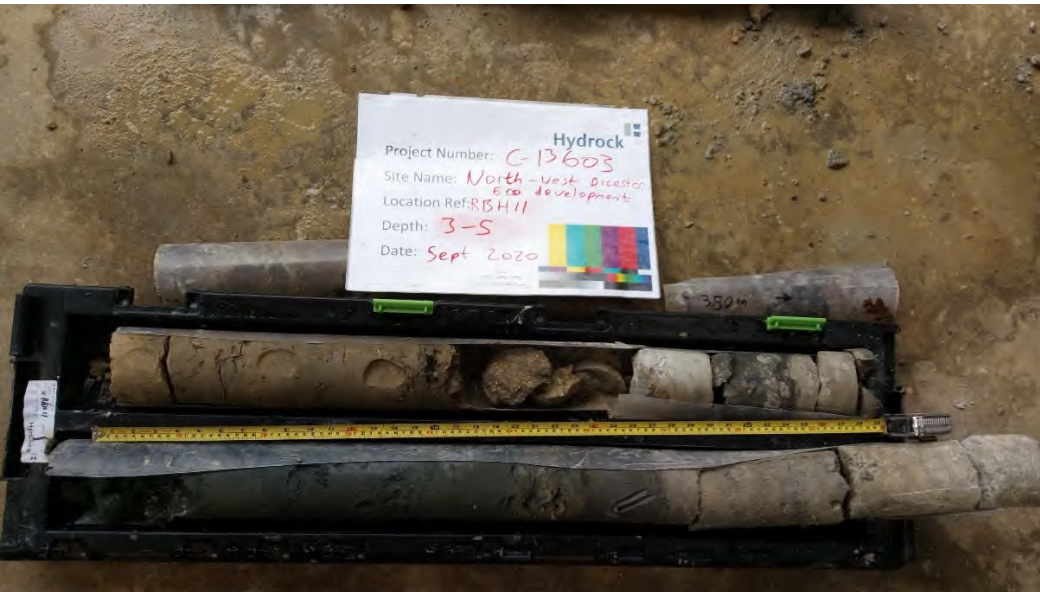
Site Investigation Photograph 19	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH10 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).	

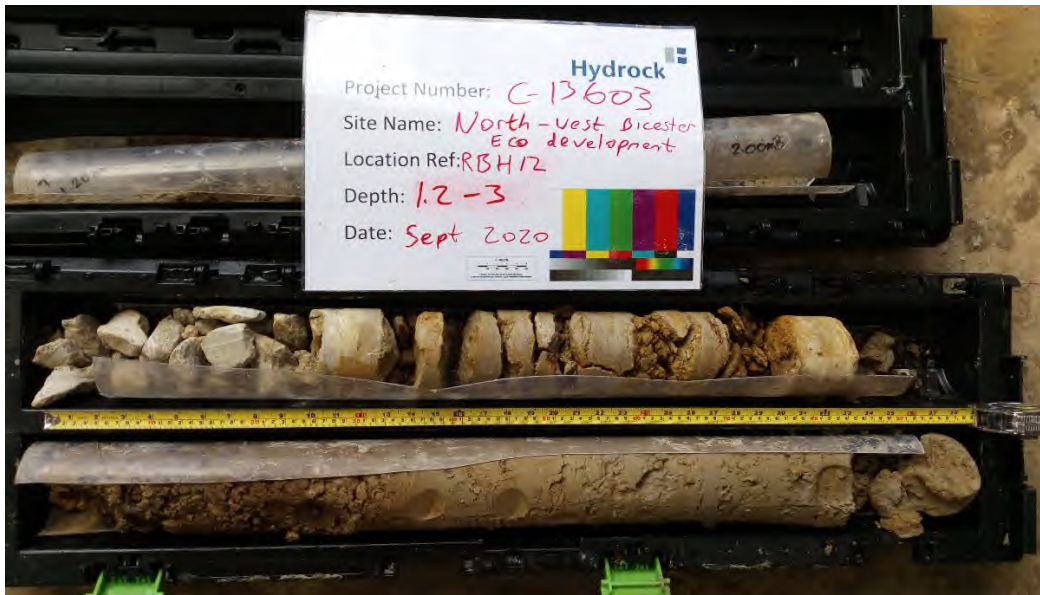
Site Investigation Photograph 20	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH10 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).	

<p>Site Investigation Photograph 21</p>
<p>Date: Sept. 2020</p>
<p>Direction Photograph Taken: n/a</p>
<p>Description: RBH11 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).</p>



<p>Site Investigation Photograph 22</p>
<p>Date: Sept. 2020</p>
<p>Direction Photograph Taken: n/a</p>
<p>Description: RBH11 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).</p>



Site Investigation Photograph 23	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH12 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).	

Site Investigation Photograph 24	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH12 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).	

Site Investigation Photograph 25	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH13 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).	

Site Investigation Photograph 26	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH13 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).	

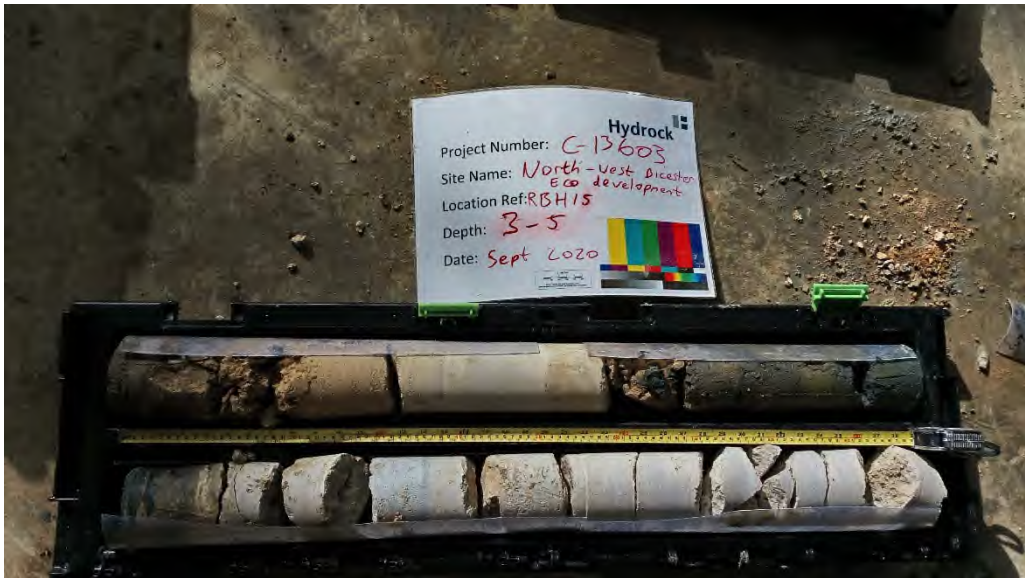
Site Investigation Photograph 27	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH14 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).	

Site Investigation Photograph 28	
Date: Sept. 2020	
Direction Photograph Taken: n/a	
Description: RBH14 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).	

<p>Site Investigation Photograph 29</p>
<p>Date: Sept. 2020</p>
<p>Direction Photograph Taken: n/a</p>
<p>Description: RBH15 1.20m – 2.00m (top); 2.00m – 3.00m (bottom).</p>




<p>Site Investigation Photograph 30</p>
<p>Date: Sept. 2020</p>
<p>Direction Photograph Taken: n/a</p>
<p>Description: RBH15 3.00m – 4.00m (top); 4.00m – 5.00m (bottom).</p>



<p>Site Investigation Photograph 1</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description: TP10 trial pit in Site B.</p>	

<p>Site Investigation Photograph 2</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description: TP10 spoil heap.</p>	

<p>Site Investigation Photograph 3</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description: TP15 showing groundwater entry (Site B).</p>	


<p>Site Investigation Photograph 4</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description: TP17 excavation and groundwater entry.</p>	

<p>Site Investigation Photograph 5</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP20 excavation and groundwater entry.</p>	

<p>Site Investigation Photograph 6</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP22 excavation and groundwater entry.</p>	

<p>Site Investigation Photograph 7</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP23 excavation and groundwater entry.</p>	

<p>Site Investigation Photograph 8</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP23 spoil heap.</p>	

<p>Site Investigation Photograph 9</p>	
<p>Date: Sept. 2020.</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP05 excavation and groundwater.</p>	

<p>Site Investigation Photograph 10</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP05 spoil heap comprising limestone of the Cornbrash Formation.</p>	

<p>Site Investigation Photograph 11</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP52 excavations (Site A).</p>	

<p>Site Investigation Photograph 12</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP52 spoil heap.</p>	

<p>Site Investigation Photograph 13</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP24 excavations.</p>	

<p>Site Investigation Photograph 14</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: Spoil heap from TP24.</p>	

<p>Site Investigation Photograph 15</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP39 excavations.</p>	

<p>Site Investigation Photograph 16</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP39 spoil heap.</p>	

<p>Site Investigation Photograph 17</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP27 excavations.</p>	

<p>Site Investigation Photograph 18</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP27 spoil heap.</p>	

<p>Site Investigation Photograph 19</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP36 excavations.</p>	

<p>Site Investigation Photograph 20</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description: TP36 spoil heap.</p>	

<p>Site Investigation Photograph 21</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP72 excavations (Caverfield)</p>	

<p>Site Investigation Photograph 22</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP72 spoil heap.</p>	

<p>Site Investigation Photograph 23</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP79 excavations.</p>	

<p>Site Investigation Photograph 24</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a.</p>	
<p>Description: TP81 excavations and groundwater entry.</p>	

<p>Site Investigation Photograph 25</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP81 spoil heap.</p>	

<p>Site Investigation Photograph 26</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP73 excavation and break out of limestone.</p>	

<p>Site Investigation Photograph 27</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP88 excavations.</p>	

<p>Site Investigation Photograph 28</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP88 spoil heap.</p>	

<p>Site Investigation Photograph 29</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP63 excavation and break out of limestone.</p>	

<p>Site Investigation Photograph 30</p>	
<p>Date: Sept. 2020</p>	
<p>Direction Photograph Taken: n/a</p>	
<p>Description: TP63 spoil heap.</p>	