

### 9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

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### 9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

# 10. Mining

## 10.1 Coal Mining

Coal mining areas within 75m of the study site

None identified

Database searched and no data found.

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## 10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary

None identified

Database searched and no data found.

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## 10.3 Brine Affected Areas

Brine affected areas within 75m of the study site

None identified

Guidance: No Guidance Required.

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# Contact Details

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## British Geological Survey Enquiries

Kingsley Dunham Centre  
Keyworth, Nottingham NG12 5GG  
Tel: 0115 936 3143.  
Fax: 0115 936 3276.  
Email:

Web: [www.bgs.ac.uk](http://www.bgs.ac.uk)

BGS Geological Hazards Reports and general geological enquiries:  
[enquiries@bgs.ac.uk](mailto:enquiries@bgs.ac.uk)



## Environment Agency

National Customer Contact Centre, PO Box 544  
Rotherham, S60 1BY  
Tel: 03708 506 506

Web: [www.environment-agency.gov.uk](http://www.environment-agency.gov.uk)

Email: [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk)



## Public Health England

Public information access office  
Public Health England, Wellington House  
133-155 Waterloo Road, London, SE1 8UG  
[www.gov.uk/phe](http://www.gov.uk/phe)

Email: [enquiries@phe.gov.uk](mailto:enquiries@phe.gov.uk)  
Main switchboard: 020 7654 8000



## The Coal Authority

200 Lichfield Lane  
Mansfield  
Notts NG18 4RG  
Tel: 0345 7626 848  
DX 716176 Mansfield 5  
[www.coal.gov.uk](http://www.coal.gov.uk)



## Ordnance Survey

Adanac Drive, Southampton  
SO16 0AS  
Tel: 08456 050505



## Local Authority

Authority: Cherwell District Council  
Phone: 01295 252 535

Web: <http://www.cherwell-dc.gov.uk/>

Address: Bodicote House, Bodicote, Banbury, Oxfordshire, OX15 4AA

## Gemapping PLC

Virginia Villas, High Street, Hartley Witney,  
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**Groundsure**

LOCATION INTELLIGENCE

**emapsite™**

Acknowledgements: Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, Natural England/Natural Resources Wales who retain the Copyright and Intellectual Property Rights for the data.

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<https://www.groundsure.com/terms-and-conditions-may25-2018>

# **APPENDIX C**

# BOREHOLE LOG - ROTARY

R1

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

1 of 2

**Start** 28/08/2018

**Coordinates** E 456273.00 N 223133.00

**Scale**

1:50

**End** 28/08/2018

**Ground Level** 84.88m AOD

**Total Depth**

12.00m

Depth (m)	TCR SCR RQD	If	Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Description of Strata	Legend	GW	Install
						84.58	(0.30)	Topsoil - driller's description. (TOPSOIL)			
							0.30	CLAY with Cornbrash (limestone) - driller's description.			
							(1.20)				
			S	1.50	N >50	83.38	1.50	No recovery.			
							(1.50)				
3.00			C	3.00	N >50	81.88	3.00	Firm to stiff interbedded dark grey and greenish grey CLAY. Rare dark speckling possible bioturbation. (CORNBASH FORMATION)			
	74 68 66		NA					<i>Between 3.61m and 3.79m bgl: band of medium strong light grey mottled bluish grey limestone.</i>			
							(2.35)	<i>Between 4.10m and 4.50m bgl: No recovery.</i>			
4.50								<i>From 4.50m bgl: frequent black speckling - possible bioturbation.</i>			
	100 84 79							<i>Between 4.96m and 5.35m bgl: band of slightly gravelly clay. Gravel is fine to medium subangular to subrounded limestone.</i>			
						79.53	5.35	Very weak light grey very thinly to thickly bedded LIMESTONE. (CORNBASH FORMATION)			
6.00			C	5.66 - 5.94				<i>Between 5.35m and 5.39m bgl: non intact.</i>			
			C	6.00 - 6.08			(1.38)	<i>Between 5.49m and 5.57m bgl: non intact.</i>			
								<i>Between 6.25m and 6.52m bgl: subvertical fracture.</i>			
	98 47 43		NA					<i>From 6.66m bgl: becoming slightly clayey and brownish grey.</i>			
						78.15	6.73	Firm greenish grey CLAY. (CORNBASH FORMATION)			
7.50							(0.86)	<i>Between 6.91m and 7.11m bgl: very dark colouration possible bioturbation.</i>			
			C	7.65 - 7.71			77.29	7.59	Weak greenish grey mottled bluish grey and light grey LIMESTONE. (CORNBASH FORMATION)		
	99 41 23		NA					<i>Between 7.59m and 8.09m bgl: slightly silty with occasional lenses of black bioturbated clay (&lt;1mm x 5mm).</i>			
							76.66	8.22	<i>Between 7.74m and 7.76m bgl: non intact.</i>		
							(0.39)	<i>At 7.94m bgl: band of silty limestone &lt;9mm thick.</i>			
							76.27	8.61	<i>Between 7.95m and 8.09m bgl: subhorizontal fracture with dark grey staining on fracture surface.</i>		
9.00								Firm brownish grey CLAY. (CORNBASH FORMATION)			
	100 90 90		C	9.47 - 9.82				<i>Between 8.34m and 8.61m bgl: very dark colouration</i>			
								<i>At 8.34m bgl: loading structures from firmer clay into softer clay.</i>			
								Weak grey mottled bluish grey and brownish grey thinly to thickly bedded LIMESTONE. (CORNBASH FORMATION)			

Continued next sheet

**Installation:** 50mm diameter standpipe installed to 12.00m bgl.

**Remarks:** Borehole backfilled with arisings on completion.

Groundwater Strikes					Drilled: Dynamic Sampling (UK) Ltd Logged: ST Checked: AP
Depth Strike	Rise	Remarks	Cased	Sealed	

Diameter: 120mm to 12.00m

# BOREHOLE LOG - ROTARY

R1

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

2 of 2

**Start** 28/08/2018

**Coordinates** E 456273.00 N 223133.00

**Scale**

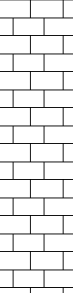
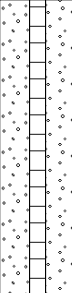
1:50

**End** 28/08/2018

**Ground Level** 84.88m AOD

**Total Depth**

12.00m

Depth (m)	TCR SCR RQD	If	Sample / Test Type	Depth (m)	Result	Level (mAOD)	Strata Depth (thickness) (m)	Description of Strata	Legend	GW	Install
10.50			C	10.35 - 10.50			(3.39)	Weak grey mottled bluish grey and brownish grey thinly to thickly bedded LIMESTONE. (CORNBRAsh FORMATION) <i>Between 8.79m and 9.42m bgl: subvertical fracture with darker grey staining on fracture surface.</i> <i>Between 9.42m 9.56m bgl: band of dark grey clay.</i> <i>Between 9.74m and 9.78m bgl: dark grey staining.</i> <i>Between 10.50m and 10.66m bgl: band of dark grey clay.</i>			
	99 86 86	NI 160 940						<i>From 11.64m bgl: becoming fossiliferous to base.</i>			
12.00						72.88	12.00	End of Borehole at 12.00m			

**Installation:** 50mm diameter standpipe installed to 12.00m bgl.

**Remarks:** Borehole backfilled with arisings on completion.

Groundwater Strikes					Drilled: Dynamic Sampling (UK) Ltd Logged: ST Checked: AP
Depth Strike	Rise	Remarks	Cased	Sealed	

**Diameter:** 120mm to 12.00m



# BOREHOLE LOG - ROTARY

R2

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

1 of 2

**Start** 31/08/2018

**Coordinates** E 456254.00 N 222987.00

**Scale**

1:50

**End** 31/08/2018

**Ground Level** 84.60m AOD

**Total Depth**

11.50m

Depth (m)	TCR SCR RQD	If	Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Description of Strata	Legend	GW	Install
							(0.30)	Topsoil - Driller's description. (TOPSOIL)			
						84.30	0.30	Cornbrash (limestone) - driller's description.			
							(0.70)				
			S	1.00	N = 39	83.60	1.00	No recovery.			
							(1.76)				
2.50			C	2.50	N >50						
			NA			81.84	2.76				
	82 61 56		C	3.08 - 3.21		81.61	(0.23) 2.99	Brown slightly sandy gravelly CLAY. Gravel is fine to coarse subrounded limestone. (Drilling induced loss of strength - recovered soft). (CORNBASH FORMATION)			
			C	3.43 - 3.67			(1.01)	Medium strong bluish grey and light grey LIMESTONE. (CORNBASH FORMATION)			
4.00						80.60	4.00	At 3.04m bgl: non intact, recovered as 1No. gravel of limestone. At 3.04m bgl: subhorizontal fracture with brownish grey penetrative staining (10-20mm). At 3.14m bgl: 1No. pocket of brown clay with penetrative staining in limestone. At 3.21m bgl: subhorizontal fracture with brownish grey penetrative staining approximately 20mm thick. At 3.40m bgl: subhorizontal fracture with brownish grey penetrative staining approximately 50mm thick. Between 3.41 and 4.00m bgl: fossiliferous			
	95 45 45		NA				(1.57)				
5.50			C	5.69 - 6.11		79.03	5.57	Firm to stiff greenish grey slightly gravelly CLAY. Gravel is fine subrounded limestone. (CORNBASH FORMATION)			
							(0.62)	Between 4.47m and 4.62m bgl: rare pockets of black bioturbated clay. Between 4.67m and 4.85m bgl: rare pockets of yellowish brown clay. Between 5.17m and 5.50m bgl: frequent fine subrounded gravel of limestone.			
	93 57 51		NA			78.41	6.19	Weak light grey thinly to medium bedded LIMESTONE. (CORNBASH FORMATION)			
							(0.93)	At 6.11m bgl: subhorizontal fracture.			
7.00						77.48	7.12	Stiff greenish grey mottled black bioturbated CLAY. (CORNBASH FORMATION)			
								Between 6.51m and 6.73m bgl: frequent yellowish brown and dark grey staining.			
	100 47 47							Weak brownish grey mottled grey and light grey silty LIMESTONE. Occasionally fossiliferous with rare calcite veining. (CORNBASH FORMATION)			
8.50								Between 7.56m to 7.71m bgl: band of stiff greenish grey silty clay. Between 7.65m and 7.67m bgl: band of fractured limestone (medium to coarse angular to subangular gravel). Between 7.71m and 8.38m bgl: subvertical fracture. Between 7.85m and 7.86m bgl: non intact, recovered as medium to coarse angular to subrounded gravel. Between 8.00m and 8.04m bgl: non intact, recovered as medium to coarse angular to subrounded gravel.			
	99 71 56						(4.38)	Between 9.07m and 9.16m bgl: band of greenish grey mottled dark grey clay. Between 9.16m and 9.27m bgl: 1No. fracture approximately 45 degrees clean smooth planar. Between 9.61m and 9.68m bgl: 1No. fracture approximately 45 degrees with quartzite veining.			
10.00			C	9.69 - 9.76							

Continued next sheet

**Installation:** 50mm diameter standpipe installed to 11.50m bgl.  
**Remarks:** Borehole backfilled with arisings on completion.

Groundwater Strikes					Drilled: Dynamic Sampling (UK) Ltd Logged: ST Checked: AP
Depth Strike	Rise	Remarks	Cased	Sealed	
8.50	8.50				

Diameter: 120mm to 11.50m

# BOREHOLE LOG - ROTARY

R2

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

2 of 2

**Start** 31/08/2018

**Coordinates** E 456254.00 N 222987.00

**Scale**

1:50

**End** 31/08/2018

**Ground Level** 84.60m AOD

**Total Depth**

11.50m

Depth (m)	TCR SCR RQD	If	Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Description of Strata	Legend	GW	Install
11.50	99 88 67		C	9.89 - 10.00		73.10	11.50	Weak brownish grey mottled grey and light grey silty LIMESTONE. Occasionally fossiliferous with rare calcite veining. (CORNBRAsh FORMATION) <i>Between 10.00m and 10.23m bgl: band of very stiff/weak greenish grey clay/mudstone.</i> <i>At 10.45m bgl: subhorizontal fracture clean smooth stepped.</i> <i>Between 10.55m and 10.58m bgl: subhorizontal fracture with greenish grey penetrative staining.</i> <i>Between 10.61m and 10.63m bgl: recovered as medium to coarse subangular to subrounded gravel of limestone.</i> <i>Between 10.67m and 10.83m bgl: dark grey staining.</i> End of Borehole at 11.50m			
			C	10.46 - 10.57							
			C	11.27 - 11.34							

**Installation:** 50mm diameter standpipe installed to 11.50m bgl.

**Remarks:** Borehole backfilled with arisings on completion.

Groundwater Strikes					Drilled: Dynamic Sampling (UK) Ltd Logged: ST Checked: AP
Depth Strike	Rise	Remarks	Cased	Sealed	
8.50	8.50				

**Diameter:** 120mm to 11.50m

# BOREHOLE LOG - ROTARY

R3

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

1 of 2

**Start** 29/08/2018

**Coordinates** E 456389.42 N 222879.19

**Scale**

1:50

**End** 29/08/2018

**Ground Level** 82.35m AOD

**Total Depth**

11.50m

Depth (m)	TCR SCR RQD	If	Sample / Test Type	Depth (m)	Result	Level (mAOD)	Strata Depth (thickness) (m)	Description of Strata	Legend	GW	Install
							(0.30)	Topsoil - driller's description.			
						82.05	0.30	(TOPSOIL)			
								Cornbrash (limestone) - driller's description.			
							(0.70)				
1.20			S	1.00	N >50	81.35	1.00	No recovery.			
	15 0 0										
							(1.30)				
2.50			C	2.50	N >50	80.05	2.30	Non intact recovered as grey mottled greyish brown gravel of LIMESTONE.			
			NA			79.98	(0.07)	(CORNBRAsh FORMATION)			
							2.37	Firm to stiff brown and bluish grey mottled yellowish brown and greyish brown sandy gravelly CLAY. Gravel is fine to coarse subangular to subrounded limestone.			
			C	3.28 - 3.37		79.37	(0.61)	(CORNBRAsh FORMATION)			
	87 55 34						2.98	Between 2.37m and 2.50m bgl: no recovery At 2.72m bgl: 1No. coarse subangular gravel of limestone.			
4.00			C	4.56 - 4.67			(2.29)	Weak light grey mottled grey and bluish grey thinly to very thinly bedded LIMESTONE. Occasionally silty.			
			NI					(CORNBRAsh FORMATION)			
								At 3.16m bgl: subhorizontal fracture with coarse sand infill <1mm on fracture surface.			
			C	5.01 - 5.22				Between 3.53m to 3.65m bgl: band of greenish grey slightly silty clay.			
	67 43 32							At 3.62m bgl: rare pocket of black bioturbated clay.			
			C	5.23 - 5.32				Between 3.81m and 3.87m bgl: band of grey silty slightly gravelly clay. Gravel is fine to medium angular to subrounded limestone.			
5.50			C	5.23 - 5.32		77.08	5.27	Gravel is fine to medium angular to subrounded limestone.			
								Between 4.00m and 4.49m bgl: no recovery.			
								Between 4.78m and 4.87m bgl: band of dark grey silty gravelly clay. Gravel is fine to coarse subangular to subrounded limestone.			
								Between 5.14m and 5.17m bgl: pockets of dark brown bioturbated clay.			
	99 54 46							Firm to stiff greenish grey mottled light grey CLAY with rare gravel. Gravel is fine to medium subrounded to rounded limestone. Rare lenses of black and dark brown bioturbated clay.			
								(CORNBRAsh FORMATION)			
7.00			NA				(3.80)	Between 7.00m and 7.31m bgl: no recovery.			
								Between 7.31m and 7.87m bgl: band of extremely strong light grey limestone.			
	79 34 29							Between 8.08m and 8.31m bgl: occasional yellowish brown mottling.			
8.50								Between 8.54m and 8.66m bgl: band of very soft (drilling induced).			
								Between 8.74m and 8.85m bgl: becoming extremely weak/ very stiff greenish grey mudstone/clay.			
								Between 8.90m and 8.93m bgl: pyrite speckling.			
								Between 9.03m and 9.07m bgl: green clay pockets with fine pyrite speckling.			
	100 33 33		C	9.61 - 9.73		73.28	9.07	Very weak brownish grey mottled light grey and bluish grey LIMESTONE. Rarely fossiliferous.			
10.00								(CORNBRAsh FORMATION)			

Continued next sheet

**Installation:** 50mm diameter standpipe installed to 11.50m bgl.

**Remarks:** Borehole backfilled with arisings on completion.

Groundwater Strikes					Drilled: Dynamic Sampling (UK) Ltd Logged: ST Checked: AP
Depth Strike	Rise	Remarks	Cased	Sealed	
9.50	7.60		2.50		

Diameter: 120mm to 11.50m



# BOREHOLE LOG - ROTARY

R4

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

1 of 2

**Start** 23/08/2018

**Coordinates** E 456440.00 N 223054.00

**Scale**

1:50

**End** 23/08/2018

**Ground Level** 82.90m AOD

**Total Depth**

11.50m

Depth (m)	TCR SCR RQD	If	Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Description of Strata	Legend	GW	Install
							(0.30)	Topsoil - driller's description. (TOPSOIL)			
						82.60	0.30	Cornbrash (limestone) - driller's description.			
							(0.70)				
1.20			S	1.00	N >50	81.90	1.00	No recovery.			
							(0.88)				
	48 20 13					81.02	1.88	Soft greenish grey slightly silty CLAY. (CORNBASH FORMATION)			
						80.91	(0.11)				
						80.79	1.99	Non intact, recovered as brownish grey slightly clayey medium to coarse subangular to subrounded gravel of strong LIMESTONE. (CORNBASH FORMATION)			
2.50			C	2.50	N >50		(0.12)	Between 1.97m and 1.99m bgl: pockets of dark grey organic material.			
			NA				2.11				
							(1.60)				
	97 79 70					79.19	3.71	Stiff to very stiff greyish brown and greenish grey CLAY with frequent orange staining and black mottling - possible bioturbation. (CORNBASH FORMATION)			
4.00			C	4.00 - 4.07			(0.61)	Weak thinly to medium bedded dark grey mottled greenish grey fossiliferous LIMESTONE. (CORNBASH FORMATION)			
				4.14 - 4.25		78.58	4.32	Between 4.07m and 4.09m bgl: band of stiff greenish grey clay. Between 4.15m and 4.18m bgl: band of soft dark grey clay with occasional pockets of black bioturbated clay. Between 4.20m and 4.22m bgl: band of dark grey silty clay.			
	97 64 59		NA				(1.18)	Stiff to very stiff brownish grey mottled greenish grey CLAY with occasional black mottling - possible bioturbation. Rare pockets of light grey silty clay. (CORNBASH FORMATION)			
5.50			C	5.82 - 5.91		77.40	5.50	Very weak light brownish grey calcareous MUDSTONE. (CORNBASH FORMATION)			
							(1.01)	Between 6.07m and 6.12m bgl: band of soft light brownish grey clay. Between 6.30m and 6.33m bgl: band of soft light brownish grey clay.			
	85 66 61					76.39	6.51	Weak light grey LIMESTONE. (CORNBASH FORMATION)			
							(0.52)				
7.00						75.87	7.03	Soft to firm dark grey CLAY. (CORNBASH FORMATION)			
							(1.01)	Between 7.03m and 7.23m bgl: no recovery.			
								Between 7.77m and 8.04m bgl: becoming slightly silty.			
	86 51 41		NA			74.86	8.04	Between 7.95m and 7.99m bgl: band of very silty clay.			
8.50						74.62	(0.24)	Very weak brownish grey micaceous MUDSTONE with frequent black mottling - possible bioturbation. (CORNBASH FORMATION)			
							8.28	Between 8.13m and 8.17m bgl: band of dark greenish grey CLAY.			
								Weak dark grey mottled grey, light grey and bluish grey LIMESTONE. Rarely fossiliferous. (CORNBASH FORMATION)			
								Between 8.50m and 8.66m bgl: band of greenish grey silty clay. Between 9.21m and 9.76m bgl: subvertical fracture rough undulating with greenish grey staining.			
	95 87 83		NI 190 550								
10.00			C	9.75 - 9.79			(3.22)	Between 9.83m and 9.86m bgl: band of black and dark grey mottled			
								Continued next sheet			

**Installation:** 50mm diameter standpipe installed to 11.50m bgl.  
**Remarks:** Borehole backfilled with arisings on completion.

Groundwater Strikes					Drilled: Dynamic Sampling (UK) Ltd Logged: ST Checked: AP
Depth Strike	Rise	Remarks	Cased	Sealed	
8.50	0.00				

Diameter: 120mm to 11.50m

# BOREHOLE LOG - ROTARY

R4

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

2 of 2

**Start** 23/08/2018

**Coordinates** E 456440.00 N 223054.00

**Scale**

1:50

**End** 23/08/2018

**Ground Level** 82.90m AOD

**Total Depth**

11.50m

Depth (m)	TCR SCR RQD	If	Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Description of Strata	Legend	GW	Install
11.50	105 89 89		C	9.87 - 10.00		71.40	11.50	Weak dark grey mottled grey, light grey and bluish grey LIMESTONE. Rarely fossiliferous. (CORNBRAsh FORMATION) <i>Between 9.83m and 9.86m bgl: band of black and dark grey mottled bioturbated clay.</i> <i>Between 10.11m and 10.16m bgl: greenish grey mottling.</i> <i>At 10.23m bgl: subhorizontal fracture smooth undulating closed with calcite coating.</i> <i>At 10.98m bgl: subhorizontal fracture with &lt;2mm clay infill.</i> <i>At 11.18m bgl: subhorizontal fracture with &lt;1mm clay infill.</i> <i>Between 11.38m and 11.45m bgl: fracture at approximately 45 degrees clean.</i>			
			C	10.00 - 10.46							
								End of Borehole at 11.50m			

**Installation:** 50mm diameter standpipe installed to 11.50m bgl.

**Remarks:** Borehole backfilled with arisings on completion.

Groundwater Strikes					Drilled: Dynamic Sampling (UK) Ltd Logged: ST Checked: AP
Depth Strike	Rise	Remarks	Cased	Sealed	
8.50	0.00				

**Diameter:** 120mm to 11.50m

# BOREHOLE LOG - ROTARY

R5

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

1 of 2

**Start** 21/08/2018

**Coordinates** E 456423.00 N 223153.00

**Scale**

1:50

**End** 21/08/2018

**Ground Level** 83.93m AOD

**Total Depth**

12.00m

Depth (m)	TCR SCR RQD	If	Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Description of Strata	Legend	GW	Install
						83.73	(0.20) 0.20	Topsoil - driller's description. (TOPSOIL)			
							(1.30)	CLAY with Cornbrash (limestone) - driller's description.			
1.50			S	1.00	N >50						
						82.43	1.50	No recovery.			
							(0.78)				
	49 27 24	NA				81.65	2.28	Soft dark grey CLAY.			
						81.57	(0.08)	(CORNBASH FORMATION)			
			C	2.72 - 2.79		81.46	2.36	Soft brown mottled light grey CLAY.			
							(0.11)	(CORNBASH FORMATION)			
3.00			C	3.00	N >50		2.47	Weak to medium strong light grey mottled bluish grey thinly to very thinly bedded LIMESTONE with light brown staining along fracture surfaces. Rare lenses of black and dark brown bioturbated clay.			
			C	3.33 - 3.40			(2.19)	(CORNBASH FORMATION)			
	92 67 31	NI 190 580	C	3.53 - 3.61				Between 2.47m and 2.62m bgl: non intact, recovered as slightly silty slightly clayey subrounded coarse gravel. At 2.76m bgl: subhorizontal fracture with light brown staining 2-4mm thick. At 2.84m bgl: subhorizontal fracture with light brown penetrative staining around fracture and orange staining on fracture surface. Between 3.00m and 3.05m bgl: band of bluish grey slightly sandy clay. At 3.63m bgl: pocket of black bioturbated clay 3mm x 25mm. Between 3.85m and 3.88m bgl: band of black and dark brown lenses of bioturbated clay 3mm x 30mm. Between 4.07m and 4.20m bgl: occasional lenses of dark brown bioturbated clay 1mm x 4mm. Between 4.23m and 4.32m bgl: band of soft (34kpa HSV - drilling disturbed) dark grey sandy silty clay.			
4.50						79.27	4.66	No recovery.			
							(1.01)	Strong thinly to medium bedded LIMESTONE. Rare lenses of black and dark brown bioturbated clay.			
	21 15 15	NA	C	5.61 - 5.83				(CORNBASH FORMATION)			
6.00						78.26	5.67	Stiff greenish grey CLAY.			
							(0.22)	Weak light grey LIMESTONE.			
						78.04	5.89	(CORNBASH FORMATION)			
							(1.08)	Very soft (drilling disturbed) greenish grey and bluish grey mottled CLAY.			
	100 84 84		C	6.88 - 7.06				At 8.11m bgl: black bioturbated clay.			
						76.96	6.97	(CORNBASH FORMATION)			
							(0.53)	Weak light grey LIMESTONE.			
7.50						76.43	7.50	(CORNBASH FORMATION)			
							(1.17)	Very soft (drilling disturbed) greenish grey and bluish grey mottled CLAY.			
	99 19 19	NA						At 8.11m bgl: black bioturbated clay.			
						75.26	8.67	Brownish grey clayey SILT.			
							(0.04)	(CORNBASH FORMATION)			
9.00						75.22	8.71	Weak bluish grey mottled light grey LIMESTONE.			
								(CORNBASH FORMATION)			
	100 58 53		C	9.38 - 9.81				Between 9.06m to 9.31m bgl: Band of very stiff greenish grey slightly silty CLAY. At 9.23m bgl: bivalve fossil. Between 9.42m and 9.55m bgl: fossiliferous. At 9.78m bgl: subhorizontal fracture.			

Continued next sheet

**Installation:** 50mm diameter standpipe installed to 12.00m bgl.

**Remarks:** Borehole backfilled with arisings on completion.

Groundwater Strikes					Drilled: Dynamic Sampling (UK) Ltd Logged: ST Checked: AP
Depth Strike	Rise	Remarks	Cased	Sealed	
7.30	7.30				

Diameter: 120mm to 12.00m

# BOREHOLE LOG - ROTARY

R5

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

2 of 2

**Start** 21/08/2018

**Coordinates** E 456423.00 N 223153.00

**Scale**

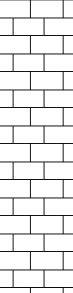
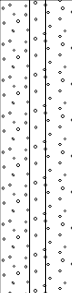
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**End** 21/08/2018

**Ground Level** 83.93m AOD

**Total Depth**

12.00m

Depth (m)	TCR SCR RQD	If	Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Description of Strata	Legend	GW	Install
10.50			C	10.43 - 10.50			(3.29)	Weak bluish grey mottled light grey LIMESTONE. (CORNBRAsh FORMATION) At 9.90m bgl: subhorizontal fracture. At 10.18m bgl: fracture at 45 degrees. Between 10.61m and 10.76m bgl: fracture at 45 degrees with black clay infill <1mm.			
	97 61 51		NI 290 650					Between 11.41m and 12.00m bgl: frequent pockets of black bioturbated clay. Between 11.41m and 11.43m bgl: band of greenish grey very silty clay.			
12.00						71.93	12.00	End of Borehole at 12.00m			

**Installation:** 50mm diameter standpipe installed to 12.00m bgl.

**Remarks:** Borehole backfilled with arisings on completion.

Groundwater Strikes					Drilled: Dynamic Sampling (UK) Ltd Logged: ST Checked: AP
Depth Strike	Rise	Remarks	Cased	Sealed	
7.30	7.30				

**Diameter:** 120mm to 12.00m



# BOREHOLE LOG - ROTARY

R6

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

1 of 1

**Start** 24/08/2018

**Coordinates** E 456523.00 N 223314.00

**Scale**

1:50

**End** 24/08/2018

**Ground Level** 83.92m AOD

**Total Depth**

6.00m

Depth (m)	TCR SCR RQD	If	Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Description of Strata	Legend	GW	Install
						83.72	(0.20) 0.20	Topsoil - driller's description. (TOPSOIL)			
							(0.80)	Cornbrash (limestone) - driller's description.			
			S	1.00	N >50	82.92	1.00	Very stiff brown CLAY - driller's description.			
1.50			C	1.50	N >50	82.42	1.50	No recovery.			
	35 17 17						(0.93)				
			NA			81.49	2.43				
							(0.41)	Soft brown mottled greyish brown and orangish brown slightly sandy silty CLAY.			
3.00			C	3.00	N >50	81.08	2.84	(CORNBRAsh FORMATION)			
			NA			80.92	(0.16) 3.00	Between 2.74m and 2.78m bgl: band of brown slightly clayey slightly sandy medium to coarse subrounded to rounded gravel of limestone.			
			C	3.32 - 3.38		80.63	(0.29) 3.29	At 2.82m bgl: pocket of dark grey clay (20mm x 40mm). Very weak light grey mottled greenish grey LIMESTONE.			
			C	3.73 - 3.81			(1.21)	(CORNBRAsh FORMATION) No recovery.			
	79 58 26		NI	3.73 - 3.81				At 3.23m bgl: band of orange staining (2mm thick).			
			C	4.10 - 4.16				Weak grey mottled brownish grey and light grey very thinly to thinly bedded LIMESTONE. Rare black mottling - possible bioturbation.			
4.50			C	4.50	N >50	79.42	4.50	(CORNBRAsh FORMATION)			
			NA				(0.90)	Between 3.73m and 3.75m bgl: non intact, recovered as coarse subrounded to rounded limestone gravel Between 3.85m and 3.91m bgl: band of clayey silty limestone. Between 4.49m and 4.45m bgl: band of very stiff grey clay.			
	39 21 11		C	5.34 - 5.51		78.52	5.40	No recovery.			
			NI	5.34 - 5.51			(0.60)	Weak grey mottled bluish grey LIMESTONE.			
			C	5.74 - 5.82				(CORNBRAsh FORMATION) Between 5.56m and 5.69m bgl: band of dark grey silty clay.			
6.00			C	5.84 - 5.91		77.92	6.00	Between 5.98m and 6.00m bgl: band of stiff grey clay.			
			C	6.00	N >50			End of Borehole at 6.00m			

**Installation:** 50mm diameter standpipe installed to 6.00m bgl.  
**Remarks:** Borehole backfilled with arisings on completion.

Groundwater Strikes					Drilled: Dynamic Sampling (UK) Ltd Logged: ST Checked: AP
Depth Strike	Rise	Remarks	Cased	Sealed	

Diameter: 120mm to 6.00m

# SPT SUMMARY SHEET

**Project:** Howes Lane, Bicester  
**Client:** Albion Land Two Ltd  
**Project No:** AG2873-18

Borehole No.	Borehole depth (m)	Bottom depth (m)	Casing depth (m)	Water Level (m)	Equipment ref.	Seating Drive				Test Drive				Test Type	N Value
						Blows	Pen (mm)	Blows	Pen (mm)	Total Pen (mm)					
R1	1.50	1.95			GC.01	8 11	75 75	12 12 13 13	75 75 75 70	295	S	>50			
R1	3.00	3.04			GC.01	25	10	50	30	30	C	>50			
R2	1.00	1.45			GC.01	6 8	75 75	9 9 10 11	75 75 75 75	300	S	39			
R2	2.50	2.81			GC.01	8 14	75 75	17 20 13	75 75 10	160	C	>50			
R3	1.00	1.11			GC.01	25	40	50	65	65	S	>50			
R3	2.50	2.83			GC.01	7 14	75 75	20 22 8	75 75 30	180	C	>50			
R4	1.00	1.20			GC.01	17 8	75 40	40 10	75 10	85	S	>50			
R4	2.50	2.88			GC.01	11 13	75 75	15 15 19 1	75 75 75 0	225	C	>50			
R5	1.00	1.16			GC.01	25	60	36 14	75 20	95	S	>50			
R5	3.00	3.39			GC.01	11 12	75 75	14 14 12 10	75 75 75 10	235	C	>50			
R6	1.00	1.14			GC.01	25	50	36 14	75 10	85	S	>50			
R6	1.50	1.68			GC.01	20 5	75 30	41 9	75 0	75	C	>50			
R6	3.00	3.03			GC.01	25	10	50	20	20	C	>50			
R6	4.50	4.52			GC.01	25	0	50	20	20	C	>50			
R6	6.00	6.06			GC.01	25	10	50	50	50	C	>50			

**Notes:**

1. Test carried out in general accordance with BS EN ISO 22476-3:2005
2. N values have not been subjected to any correction.
3. Test carried out using split spoon S, or solid cone C.



# Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

**Dynamic sampling uk ltd**  
**5-8 victory parkway**  
**victory road**  
**Derby**  
**DE24 8ZF**

Hammer Ref: GC.01  
 Test Date: 18/05/2018  
 Report Date: 22/05/2018  
 File Name: GC.01.spt  
 Test Operator: A.PARKER.

### Instrumented Rod Data

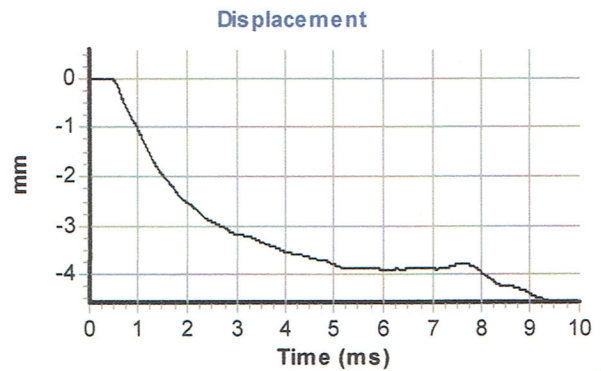
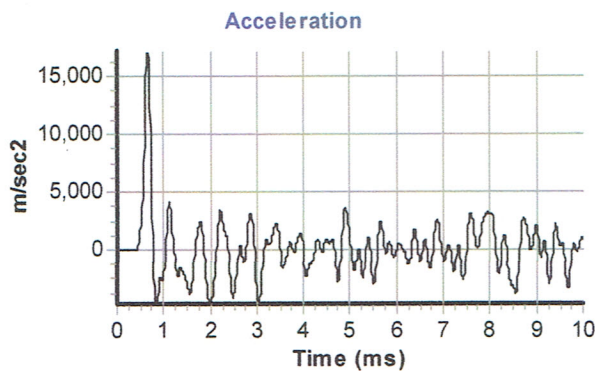
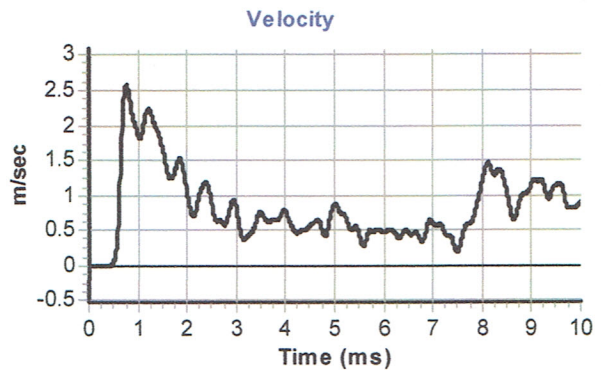
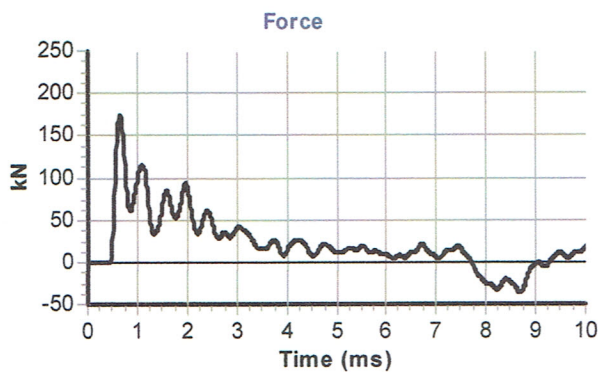
Diameter  $d_r$  (mm): 54  
 Wall Thickness  $t_r$  (mm): 6.9  
 Assumed Modulus  $E_a$  (GPa): 208  
 Accelerometer No.1:  
 Accelerometer No.2:

### Hammer Information

Hammer Mass  $m$  (kg): 63.5  
 Falling Height  $h$  (mm): 760  
 String Length  $L$  (m): 15.0

### Comments / Location

Rotary hammer tested at Dynamic samplings yard.



### Calculations

Area of Rod A ( $mm^2$ ): 1021  
 Theoretical Energy  $E_{theor}$  (J): 473  
 Measured Energy  $E_{meas}$  (J): 274

**Energy Ratio  $E_r$  (%):** **58**

Signed: A.parker.  
 Title: Associate Director.

The recommended calibration interval is 12 months


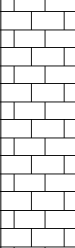
# TRIAL PIT LOG

TP1

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 17/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 85.32m AOD      **Coordinates** E 456117.00 N 222901.00      **Total Depth** 1.15m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			85.07	(0.25) 0.25	E	Crops over soft dark brown gravelly silty CLAY with frequent rootlets and occasional roots <5mm. Gravel is fine to coarse subrounded to rounded limestone. (TOPSOIL)		
				(0.90)	H/VH	Very weak to weak thinly bedded bluish grey mottled light grey LIMESTONE recovered as orangish brown silty sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Frequent cobbles of limestone. (CORNBURASH FORMATION)		
			84.17	1.15		End of Trial Pit at 1.15m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered.

**Stability:** Stable.

**Remarks:** Trial pit terminated at 1.15m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.50m
<b>Width:</b>	0.70m
<b>Logged:</b>	ST
<b>Checked:</b>	AP



# TRIAL PIT LOG

**TP3**

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

1 of 1

**Date** 16/08/2018

**Scale**

1:25


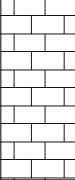

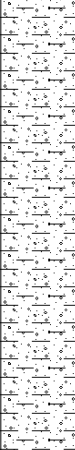
**Ground Level** 86.16m AOD

**Coordinates**

E 456137.72 N 223016.88

**Total Depth**

2.60m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	1.00		85.86	(0.30)	E	Crops over soft dark brown slightly gravelly silty CLAY with frequent rootlets and roots <7mm. Gravel is fine to medium subrounded limestone. (TOPSOIL)		
				0.30	H	Very weak thinly bedded grey LIMESTONE recovered as orangish brown slightly sandy clayey gravel. Gravel is fine to coarse subangular to subrounded limestone. Frequent subangular cobbles of limestone. (CORNBURASH FORMATION)		
				(0.60)		Soft to firm brown sandy CLAY. (CORNBURASH FORMATION)		
				0.90	M	Soft to firm light brown sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to rounded limestone. (CORNBURASH FORMATION)		
1.10								
HV	2.00	Cu = 112		(1.50)	M	From 2.00m bgl: stiff. Between 2.00m and 2.30m bgl: band of bluish grey mottled orangish brown clay.		
D	2.40							
			83.56	2.60		End of Trial Pit at 2.60m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.60m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.60m
<b>Width:</b>	0.80m
<b>Logged:</b>	ST
<b>Checked:</b>	AP

# TRIAL PIT LOG

**TP4**

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

1 of 1

**Date** 16/08/2018

**Scale**

1:25

**Ground Level** 86.44m AOD

**Coordinates**

E 456146.52 N 223055.27

**Total Depth**

2.40m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			86.16	(0.28) 0.28	E	Crops over soft dark brown sandy slightly gravelly silty CLAY with frequent rootlets and roots <5mm. Gravel is fine to coarse subangular to rounded limestone. (TOPSOIL)		
				(0.82)	H	Very weak very thinly to thinly bedded LIMESTONE recovered as orangish brown slightly clayey sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Frequent angular to subangular cobbles of limestone. (CORNBURASH FORMATION)		
			85.34	1.10		Soft to firm yellowish brown sandy gravelly CLAY. Gravel is fine to medium subangular to subrounded limestone. (CORNBURASH FORMATION)		
				(0.90)	M			
HV	1.90	Cu = 86	84.44	2.00		<i>From 1.90m bgl: stiff.</i>		
				(0.40)	M	Firm becoming stiff bluish grey mottled orangish brown slightly sandy CLAY. (CORNBURASH FORMATION)		
HV	2.30	Cu = 119	84.04	2.40				
						End of Trial Pit at 2.40m		

**Method:** Backhoe excavator

**Groundwater:** Very slight seepage at 2.60m bgl in southwest corner.

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.40m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.40m
<b>Width:</b>	0.75m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


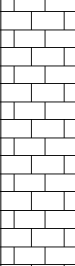
# TRIAL PIT LOG

TP5

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 16/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 86.40m AOD      **Coordinates** E 456157.23 N 223112.45      **Total Depth** 1.20m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
D	0.25		86.10	(0.30)	E	Crops over soft dark brown slightly sandy slightly gravelly CLAY with frequent rootlets and roots <8mm. Gravel is fine to medium angular to subrounded limestone. (TOPSOIL)		
B	0.90		85.20	(0.90)	VH	Very weak thinly bedded light grey mottled bluish grey LIMESTONE recovered as orangish brown silty sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Occasional subangular to subrounded cobbles of limestone. (CORNBRAsh FORMATION)		
				1.20		From 1.15m bgl: becoming weak. End of Trial Pit at 1.20m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 1.20m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.60m
<b>Width:</b>	0.80m
<b>Logged:</b>	ST
<b>Checked:</b>	AP




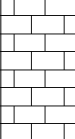
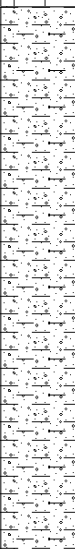
# TRIAL PIT LOG

TP6

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 16/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 86.56m AOD      **Coordinates** E 456172.00 N 223170.00      **Total Depth** 2.60m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			86.26	(0.30) 0.30	E	Crops over soft dark brown sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded limestone. (TOPSOIL)		
			85.76	(0.50) 0.80	H	Very weak thinly bedded light grey LIMESTONE recovered as orangish brown slightly sandy clayey fine to coarse angular to subrounded limestone gravel. Frequent subangular cobbles of limestone. (CORNBASH FORMATION)		
				(1.80)	M	Soft to firm light brown sandy slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded limestone. (CORNBASH FORMATION)		
			83.96	2.60		At 1.70m bgl: band of soft bluish grey clay in southern half of pit.		
						End of Trial Pit at 2.60m		

**Method:** Backhoe excavator

**Groundwater:** Slight seepage at 2.50m bgl.

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.60m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.30m
<b>Width:</b>	0.70m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


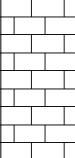

# TRIAL PIT LOG

TP7

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 17/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 85.22m AOD      **Coordinates** E 456279.89 N 223166.79      **Total Depth** 2.75m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.25		84.87	(0.35)	E	Crops over soft dark brown slightly sandy gravelly CLAY with frequent rootlets and roots <5mm. Gravel is fine to medium subrounded to rounded limestone. (TOPSOIL)		
				0.35	H	Very weak thinly bedded bluish grey LIMESTONE recovered as orangish brown silty sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Occasional subangular cobbles of limestone. (CORNBRAASH FORMATION)		
D	2.30		84.32	0.90			M	Soft to firm light brown sandy gravelly CLAY. Gravel is fine to medium subangular to subrounded limestone. (CORNBRAASH FORMATION)
				(1.80)				
B	2.75		82.52 82.47	2.70 (0.05) 2.75	VH	Weak light brown LIMESTONE recovered as 2No cobbles. (CORNBRAASH FORMATION)		
						End of Trial Pit at 2.75m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.75m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.60m
<b>Width:</b>	0.80m
<b>Logged:</b>	ST
<b>Checked:</b>	AP

# TRIAL PIT LOG

TP8

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 17/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 85.14m AOD      **Coordinates** E 456247.00 N 223104.00      **Total Depth** 4.40m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.70		84.84	(0.30)	E	Crops over soft dark brown gravelly silty CLAY with frequent rootlets and roots. Gravel is fine to medium subangular to subrounded limestone and quartzite. (TOPSOIL)		
				0.30	E	Soft dark brown mottled yellowish brown and black silty gravelly CLAY with frequent rootlets. Gravel is fine to medium subangular to rounded mixed lithologies including limestone, sandstone and quartzite. (CORNBRAsh FORMATION)		
D HV	2.30 2.40	Cu = 102	84.24	(0.60)	E	Soft to firm light brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular to rounded limestone. (CORNBRAsh FORMATION)		
				0.90	M			
HV D	3.60 3.90	Cu = 120		(2.30)		From 2.40m bgl: stiff.		
			81.94	3.20	H	Firm becoming stiff bluish grey CLAY. Occasional pockets of black bioturbated clay. (CORNBRAsh FORMATION)		
			80.74	4.40		End of Trial Pit at 4.40m		

**Method:** Backhoe excavator  
**Groundwater:** Groundwater not encountered  
**Stability:** Stable.  
**Remarks:** Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.60m
<b>Width:</b>	0.80m
<b>Logged:</b>	ST
<b>Checked:</b>	AP

# TRIAL PIT LOG

TP9

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

1 of 1

**Date** 17/08/2018

**Scale**

1:25


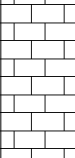


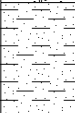

**Ground Level** 85.53m AOD

**Coordinates**

E 456218.00 N 223047.00

**Total Depth**

4.20m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW	
HV	1.60	Cu = 85	85.23	(0.30)	E	Crops over soft dark brown slightly sandy gravelly silty CLAY with frequent rootlets and roots. Gravel is fine to coarse subangular to subrounded limestone. (TOPSOIL)			
				(0.60)	H	Very weak thinly bedded bluish grey LIMESTONE recovered as orangish brown and brownish grey mottled silty clayey gravel. Gravel is fine to coarse angular to subrounded limestone. Rare cobbles of limestone. (CORNBASH FORMATION)			
				84.63	0.90		Soft to firm light brown silty gravelly CLAY. Gravel is fine to coarse subangular to subrounded limestone. Occasional subrounded cobbles of limestone. (CORNBASH FORMATION)		
							<i>From 1.40m bgl: becoming slightly gravelly.</i>		
							<i>From 1.60m bgl: stiff.</i>		
				(2.20)	M				
			82.43	3.10		Firm light grey mottled orangish brown slightly sandy CLAY. (CORNBASH FORMATION)			
				(0.40)	H				
			82.03	3.50		Firm to stiff bluish grey mottled orangish brown slightly sandy CLAY with rare pockets of black bioturbated clay <3mm. (CORNBASH FORMATION)			
				(0.70)	H				
			81.33	4.20		End of Trial Pit at 4.20m			

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.70m
<b>Width:</b>	0.80m
<b>Logged:</b>	ST
<b>Checked:</b>	AP

# TRIAL PIT LOG

TP10

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 17/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 85.41m AOD      **Coordinates** E 456198.14 N 223002.46      **Total Depth** 3.30m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
				(0.35)	E	Crops over soft dark brown slightly gravelly sandy silty CLAY with frequent rootlets and rare roots <3mm. Gravel is fine to medium subrounded to rounded limestone. (TOPSOIL)		
			85.06	0.35				
				(0.75)	H	Very weak very thinly to thinly bedded bluish grey mottled grey LIMESTONE recovered as orangish brown sandy clayey gravel. Gravel is fine to coarse angular to subrounded limestone. (CORNBASH FORMATION)		
			84.31	1.10				
				(1.20)	M	Soft to firm brownish grey mottled orangish brown slightly sandy silty CLAY. (CORNBASH FORMATION)		
			83.11	2.30				
				(0.95)	M	Firm to stiff bluish grey CLAY with occasional pockets of black bioturbated clay. (CORNBASH FORMATION)		
ES	2.60							
			82.16	3.25				
			82.11	(0.05)	VH	Weak light grey LIMESTONE recovered as gravelly clay with frequent cobbles of limestone. Gravel is fine to coarse angular to subangular limestone. (CORNBASH FORMATION)		
B	3.20			3.30				
						End of Trial Pit at 3.30m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 3.30m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.70m
<b>Width:</b>	0.80m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


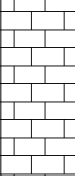
# TRIAL PIT LOG

TP11

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 17/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 84.93m AOD      **Coordinates** E 456159.19 N 222920.66      **Total Depth** 0.90m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			84.63	(0.30) 0.30	E	Crops over soft sandy silty CLAY with frequent rootlets. (TOPSOIL)		
			84.03	(0.60) 0.90	VH	Very weak to weak bluish grey and light grey mottled LIMESTONE recovered as orangish brown sandy clayey gravel. Gravel is fine to coarse angular to subrounded limestone. (CORNBRAASH FORMATION)		
						End of Trial Pit at 0.90m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 0.90m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.50m
<b>Width:</b>	0.75m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


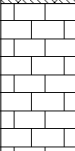
# TRIAL PIT LOG

TP12

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 17/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 84.93m AOD      **Coordinates** E 456150.00 N 222895.00      **Total Depth** 0.80m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.20		84.63	(0.30)	E	Crops over soft dark brown gravelly silty CLAY with frequent rootlets. Gravel is fine to coarse subrounded to rounded limestone. (TOPSOIL)		
				0.30				
				(0.50)	VH	Very weak to weak bluish grey and light grey mottled LIMESTONE recovered as orangish brown slightly silty slightly clayey sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Cobbles are subangular to subrounded limestone. (CORNBURASH FORMATION)		
B	0.75		84.13	0.80		End of Trial Pit at 0.80m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 0.80m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.10m
<b>Width:</b>	0.70m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


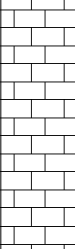
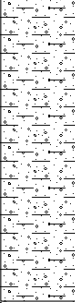
# TRIAL PIT LOG

TP13

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 15/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 84.59m AOD      **Coordinates** E 456197.71 N 222859.60      **Total Depth** 2.10m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.10		84.34	(0.25) 0.25	E	Crops over soft dark brown gravelly silty CLAY with frequent rootlets and rare roots <5mm thick. Gravel is fine to coarse subangular to rounded limestone. (TOPSOIL)		
B	0.50			(0.85)	M	Very weak very thinly bedded bluish grey LIMESTONE recovered as brown mottled orangish brown sandy clayey gravel. Gravel is fine to coarse subangular to subrounded limestone. (CORNBRAH FORMATION)  <i>From 0.70m bgl: becoming slightly clayey slightly sandy gravel.</i>		
D HV	1.80 1.90	Cu = 120	83.49	1.10  (1.00)	H	Stiff light brown mottled yellowish brown sandy gravelly CLAY. Gravel is fine to coarse subangular to subrounded limestone. (CORNBRAH FORMATION)		
			82.49	2.10		End of Trial Pit at 2.10m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.10m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.30m
<b>Width:</b>	0.80m
<b>Logged:</b>	ST
<b>Checked:</b>	AP



# TRIAL PIT LOG

**TP14**

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 15/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 84.76m AOD      **Coordinates** E 456226.00 N 222946.00      **Total Depth** 3.10m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			84.49	(0.27) 0.27	E	Crops over soft dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded limestone. (TOPSOIL)		
				(1.63)	E	Reddish brown clayey gravelly SAND. Gravel is fine to medium subangular to subrounded limestone. Deeper in northern half of pit. (CORNBRAASH FORMATION)		
D	1.80		82.86	1.90		Soft to firm light brown mottled orangish brown slightly sandy CLAY. (CORNBRAASH FORMATION)		
HV	2.30	Cu = 79		(0.90)	M	From 2.30m bgl: stiff.		
HV	3.00	Cu = 120	81.96	2.80 (0.30)	M	Stiff bluish grey CLAY with occasional pockets of black bioturbated clay (<2mm) only present in northern part of pit. (CORNBRAASH FORMATION)		▼
			81.66	3.10		End of Trial Pit at 3.10m		

**Method:**  
**Groundwater:** Slight seepage from 2.90m bgl.  
**Stability:** Stable.  
**Remarks:** Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.50m
<b>Width:</b>	0.60m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


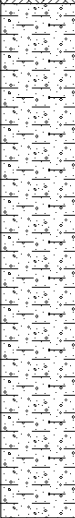
# TRIAL PIT LOG

**TP15**

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 15/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 84.60m AOD      **Coordinates** E 456253.00 N 222971.00      **Total Depth** 2.40m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.50		83.90	(0.70)	E	Crops over soft dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded limestone. (TOPSOIL)		
D	1.75		82.20	(1.70)	M	Firm light brown sandy slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded limestone. (CORNBRAsh FORMATION)		
				2.40		End of Trial Pit at 2.40m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.40m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.90m
<b>Width:</b>	0.70m
<b>Logged:</b>	ST
<b>Checked:</b>	AP

# TRIAL PIT LOG

TP16

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

1 of 1

**Date** 17/08/2018

**Scale**


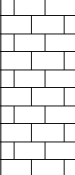
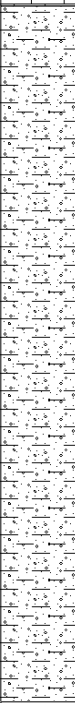

1:25

**Ground Level** 84.68m AOD

**Coordinates** E 456272.70 N 223059.21

**Total Depth**

4.00m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			84.38	(0.30) 0.30	E	Crops over soft dark brown sandy gravelly CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded limestone. (TOPSOIL)		
			83.78	(0.60) 0.90	H	Very weak grey LIMESTONE recovered as orangish brown slightly sandy slightly clayey gravel. Gravel is fine to coarse angular to subrounded limestone. Frequent cobbles of angular to subangular limestone. (CORNBRAsh FORMATION)		
				(2.30) 2.30	M	Soft to firm light brown mottled orangish brown sandy gravelly CLAY. Gravel is fine to coarse subangular to subrounded limestone. Occasional subangular to subrounded cobbles of limestone. (CORNBRAsh FORMATION)  <i>From 1.90m bgl: becoming slightly gravelly with no cobbles.</i>		
			81.48	(0.80) 3.20	M	Firm to stiff bluish grey CLAY with occasional orangish brown mottling and rare pockets of black bioturbated clay. (CORNBRAsh FORMATION)		
			80.68	4.00		End of Trial Pit at 4.00m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.70m
<b>Width:</b>	0.80m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


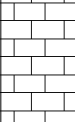
# TRIAL PIT LOG

**TP17**

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 22/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 84.71m AOD      **Coordinates** E 456281.00 N 223100.00      **Total Depth** 0.70m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			84.46	(0.25) 0.25	E	Crops over soft dark brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded limestone. (TOPSOIL)		
			84.01	(0.45) 0.70	VH	Very weak to weak light grey mottled bluish grey LIMESTONE recovered as slightly clayey sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Frequent angular to subangular cobbles of limestone (CORNBRAsh FORMATION)		
						End of Trial Pit at 0.70m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 0.70m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.10m
<b>Width:</b>	0.70m
<b>Logged:</b>	ST
<b>Checked:</b>	AP

# TRIAL PIT LOG

**TP18**

**Project** Howes Lane, Bicester

**Project No.**

AG2873-18

**Client** Albion Land Two Ltd

**Sheet**

1 of 1

**Date** 15/08/2018

**Scale**

1:25

**Ground Level** 84.50m AOD

**Coordinates** E 456340.00 N 223145.00

**Total Depth**

2.30m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			84.30	(0.20) 0.20	E	Soft dark brown gravelly silty CLAY. (TOPSOIL)		
				(0.60)	H	Very weak thinly bedded bluish grey LIMESTONE recovered as orangish brown clayey sandy gravel. Gravel is fine to coarse subangular to subrounded limestone. Frequent cobbles of subangular limestone. (CORNBRAASH FORMATION)		
			83.70	0.80				
				(1.10)	H	Stiff brownish grey slightly sandy slightly gravelly CLAY with occasional cobbles. Gravel is fine to coarse subangular to subrounded limestone. Cobbles are subangular to subrounded limestone. (CORNBRAASH FORMATION)		
HV	1.50	Cu = 120						
			82.60	1.90				
				(0.20)	H	Stiff light grey mottled orangish brown CLAY. (CORNBRAASH FORMATION)		
			82.40	2.10	H			
				(0.20)	H	Stiff light brown sandy gravelly CLAY. Gravel is fine to coarse subangular to subrounded limestone. (CORNBRAASH FORMATION)		
			82.20	2.30				
						End of Trial Pit at 2.30m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.30m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	3.00m
<b>Width:</b>	0.80m
<b>Logged:</b>	ST
<b>Checked:</b>	AP

# TRIAL PIT LOG

TP19

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 15/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 84.21m AOD      **Coordinates** E 456321.00 N 223083.00      **Total Depth** 3.10m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			83.86	(0.35) 0.35	E	Soft dark brown sandy slightly gravelly CLAY with frequent rootlets Gravel is medium to coarse subangular to subrounded limestone. (TOPSOIL)		
				(2.55)	M	Soft becoming firm brownish grey mottled orangish brown sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded limestone. (CORNBRAASH FORMATION)		
HV	2.40	Cu = 71				<i>From 2.50m bgl: becoming slightly sandy clay.</i>		
			81.31	2.90 (0.20)	VH	Stiff bluish grey CLAY. (CORNBRAASH FORMATION)		
HV	3.10	Cu = 120	81.11	3.10		End of Trial Pit at 3.10m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 3.10m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.60m
<b>Width:</b>	0.75m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


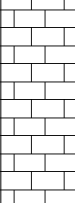
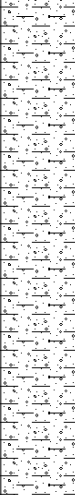
# TRIAL PIT LOG

TP20

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 15/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 84.25m AOD      **Coordinates** E 456298.00 N 223010.00      **Total Depth** 2.60m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	1.10		84.00	(0.25)	E	Soft dark brown silty gravelly CLAY. Gravel is fine to coarse subangular to subrounded limestone. (TOPSOIL)		
				0.25	H	Very weak thinly bedded grey LIMESTONE recovered as orangish brown slightly sandy slightly clayey gravel with frequent cobbles. Gravel is fine to coarse angular to subrounded limestone. Cobbles are angular to subrounded limestone. (CORNBRAH FORMATION)		
				(0.70)		Soft becoming firm brownish grey mottled orangish brown sandy gravelly CLAY. Gravel is fine to medium subangular to subrounded limestone. (CORNBRAH FORMATION)		
			83.30	0.95	M			
				(1.65)				
HV	2.30	Cu = 65	81.65	2.60		End of Trial Pit at 2.60m		
D	2.45							

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.60m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.40m
<b>Width:</b>	0.85m
<b>Logged:</b>	ST
<b>Checked:</b>	AP






# TRIAL PIT LOG

TP21

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 15/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 84.24m AOD      **Coordinates** E 456282.00 N 222949.00      **Total Depth** 2.50m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW	
HV	2.20	Cu = 96	81.74	(0.30)	E	Soft dark brown slightly gravelly silty CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded limestone. (TOPSOIL)			
				83.94	0.30	H	Very weak thinly bedded grey LIMESTONE recovered as orangish brown silty sandy gravel with frequent cobbles. Gravel is fine to coarse angular to subrounded limestone. Cobbles are angular to subrounded limestone. (CORNBURASH FORMATION)		
				83.64	0.60	M	Soft yellowish brown sandy gravelly CLAY. Gravel is fine to coarse subangular to subrounded limestone. (CORNBURASH FORMATION)		
				82.84	1.40	M	Soft to firm greyish brown slightly gravelly sandy CLAY. Gravel is fine to medium limestone. Occasional subangular cobble of limestone. Rare pockets of brown clay. (CORNBURASH FORMATION)		
				(1.10)	M	From 2.20m bgl: stiff.			
			81.74	2.50		End of Trial Pit at 2.50m			

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.50m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.80m
<b>Width:</b>	0.75m
<b>Logged:</b>	ST
<b>Checked:</b>	AP




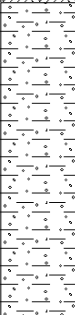
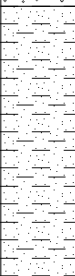
# TRIAL PIT LOG

TP22

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 15/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 83.45m AOD      **Coordinates** E 456267.00 N 222884.00      **Total Depth** 2.30m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.25		83.10	(0.35)	E	Soft dark brown sandy silty CLAY with frequent rootlets. (TOPSOIL)		
				0.35		Soft orangish brown gravelly CLAY. Gravel is fine to medium angular to subrounded limestone. (CORNBRAASH FORMATION) <i>From 0.60m bgl: becoming slightly gravelly.</i>		
				(1.05)	E			
			82.05	1.40		Firm light brown very sandy CLAY. (CORNBRAASH FORMATION)  <i>From 1.70m bgl: stiff.</i>		
D	1.60							
HV	1.70	Cu = 85		(0.90)	M	<i>From 2.00m bgl: slightly sandy clay.</i>		
HV	2.00	Cu = 120						
			81.15	2.30		End of Trial Pit at 2.30m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.30m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.60m
<b>Width:</b>	0.75m
<b>Logged:</b>	ST
<b>Checked:</b>	AP



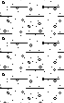
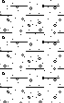
# TRIAL PIT LOG

**TP23**

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 15/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 83.67m AOD      **Coordinates** E 456261.00 N 222850.00      **Total Depth** 2.70m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
HV	2.00	Cu = 85	83.42	(0.25)	E	Soft dark brown slightly gravelly silty CLAY with frequent rootlets. Gravel is fine to coarse subangular to rounded limestone. (TOPSOIL)		
			83.07	(0.35)	VH	Weak thinly bedded bluish grey mottled grey LIMESTONE recovered as orangish brown silty sandy gravel. Gravel is fine to coarse angular to subrounded limestone. (CORNBURASH FORMATION)		
				(0.60)		Soft yellowish brown sandy slightly gravelly CLAY. Gravel is fine to medium angular to subrounded limestone. (CORNBURASH FORMATION)		
			81.97	(1.10)	M			
				(1.70)		Soft to firm light brown mottled yellowish brown and light grey slightly gravelly sandy CLAY. Gravel is fine to medium angular to subangular limestone. (CORNBURASH FORMATION)		
			80.97	(2.70)	M	End of Trial Pit at 2.70m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.70m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.50m
<b>Width:</b>	0.70m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


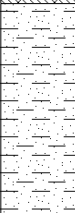
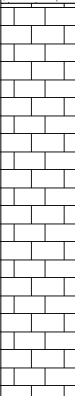
# TRIAL PIT LOG

**TP24**

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 15/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 83.06m AOD      **Coordinates** E 456301.00 N 222817.00      **Total Depth** 2.30m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.70		82.76	(0.30)	E	Soft dark brown sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded to rounded limestone. (TOPSOIL)		
				0.30	M	Soft to firm light brown mottled orangish brown with rare black bioturbation sandy silty CLAY. (CORNBASH FORMATION)		
HV D	1.80 1.90	Cu = 120	82.06	(0.70)		H/VH	Weak thinly bedded grey LIMESTONE recovered as orangish brown silty sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Rare pockets of yellowish brown sandy clay. (CORNBASH FORMATION)	
				(1.30)	End of Trial Pit at 2.30m			
			80.76	2.30				

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.30m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.40m
<b>Width:</b>	0.70m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


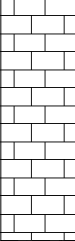
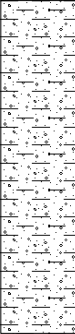
# TRIAL PIT LOG

**TP25**

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 14/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 83.06m AOD      **Coordinates** E 456321.11 N 222881.37      **Total Depth** 2.20m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
				(0.30)	E	Soft dark brown slightly gravelly slightly sandy CLAY with frequent rootlets. Gravel is fine to medium limestone. (TOPSOIL)		
			82.76	0.30				
				(0.80)	H	Very weak thinly bedded grey mottled bluish grey LIMESTONE recovered as orangish brown slightly clayey sandy gravel with rare cobbles. Gravel is fine to coarse angular to subrounded limestone. Cobbles are angular to subangular limestone. (CORNBURASH FORMATION)		
			81.96	1.10				
				(1.10)	M	Soft to firm yellowish brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subrounded limestone. (CORNBURASH FORMATION)		
			80.86	2.20				
						End of Trial Pit at 2.20m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.20m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.20m
<b>Width:</b>	0.50m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


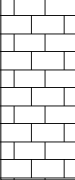
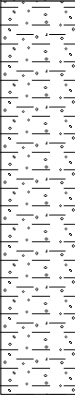
# TRIAL PIT LOG

**TP26**

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 14/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 83.46m AOD      **Coordinates** E 456339.00 N 222929.00      **Total Depth** 2.20m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.15		83.16	(0.30)	E	Soft dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded limestone. (TOPSOIL)		
				0.30	H	Very weak very thinly to thinly bedded grey LIMESTONE recovered as orangish brown sandy very clayey gravel with frequent cobbles. Gravel is fine to coarse subangular to subrounded limestone. Cobbles are subangular limestone. (CORNBURASH FORMATION)		
				(0.60)	H	Stiff yellowish brown sandy slightly gravelly CLAY. (CORNBURASH FORMATION)		
D HV	1.80	Cu = 105	81.26	(1.30)	H			
	1.80			2.20			End of Trial Pit at 2.20m	

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.20m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.70m
<b>Width:</b>	0.70m
<b>Logged:</b>	ST
<b>Checked:</b>	AP





# TRIAL PIT LOG

TP27

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 14/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 83.49m AOD      **Coordinates** E 456339.00 N 222978.00      **Total Depth** 2.30m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			83.24	(0.25)	E	Soft dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded limestone. (TOPSOIL)		
			82.99	0.25 (0.25)	H	Very weak thinly bedded grey mottled bluish LIMESTONE recovered as orangish brown slightly sandy clayey gravel. Gravel is fine to coarse subangular to subrounded limestone. (CORNBRAASH FORMATION)		
				0.50		Firm becoming stiff yellowish brown sandy CLAY. (CORNBRAASH FORMATION)		
				(1.80)	H			
			81.19	2.30		End of Trial Pit at 2.30m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.30m bgl on hard limesone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.70m
<b>Width:</b>	0.80m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


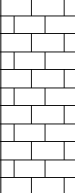
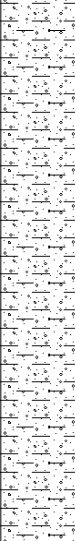
# TRIAL PIT LOG

TP28

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 14/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 83.64m AOD      **Coordinates** E 456358.00 N 223036.00      **Total Depth** 2.70m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	2.40		83.44	(0.20) 0.20	E	Soft dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to medium subangular to subrounded limestone. (TOPSOIL)		
				(0.70)	H	Very weak to weak very thin to thinly bedded bluish grey and grey LIMESTONE recovered as brown slightly sandy clayey gravel. Gravel is fine to coarse angular to subrounded of flat slabs of limestone <30mm in thickness. Occasional subangular cobbles of limestone. (CORNBASH FORMATION)		
			82.74	0.90		Firm becoming stiff light brown mottled grey and orangish brown sandy gravelly CLAY. Gravel is fine to coarse subangular to subrounded limestone. Too friable for HSVs. (CORNBASH FORMATION)		
				(1.80)	M			
			80.94	2.70		End of Trial Pit at 2.70m		

**Method:**

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.70m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.60m
<b>Width:</b>	0.80m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


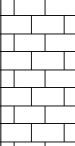
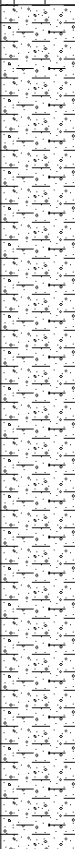


# TRIAL PIT LOG

TP29

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 14/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 83.41m AOD      **Coordinates** E 456382.00 N 223073.00      **Total Depth** 4.40m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			83.11	(0.30) 0.30	E	Soft dark brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded limestone. (TOPSOIL)		
			82.61	(0.50) 0.80	H	Very weak thinly bedded bluish grey LIMESTONE recovered as orangish brown clayey sandy gravel. Gravel is fine to coarse subangular to subrounded flat slabs of limestone. (CORNBRAASH FORMATION)		
				(2.80)		Firm to stiff light brown mottled grey and orangish brown slightly sandy gravelly CLAY. Gravel is fine to medium subangular to subrounded of limestone. (CORNBRAASH FORMATION)		
			79.81	3.60	M	Stiff friable bluish grey CLAY. (CORNBRAASH FORMATION)		
			79.01	(0.80) 4.40	H/VH	End of Trial Pit at 4.40m		

**Method:** Backhoe excavator  
**Groundwater:** Groundwater not encountered  
**Stability:** Stable.  
**Remarks:** Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.60m
<b>Width:</b>	0.80m
<b>Logged:</b>	ST
<b>Checked:</b>	AP




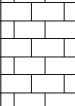
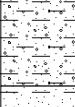
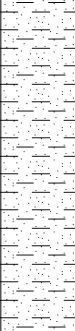
# TRIAL PIT LOG

TP30

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 20/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 84.49m AOD      **Coordinates** E 456381.48 N 223158.54      **Total Depth** 2.10m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.10		84.29	(0.20) 0.20	E	Crops over soft dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to coarse angular to subrounded limestone. (TOPSOIL)		
				(0.40)	H	Very weak very thinly to thinly bedded grey LIMESTONE recovered as orangish brown clayey sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Occasional cobble of subangular limestone. (CORNBRAASH FORMATION)		
			83.89	0.60 (0.30)	M	Soft to firm light brown sandy slightly gravelly CLAY. Gravel is fine to coarse subrounded of limestone. (CORNBRAASH FORMATION)		
			83.59	0.90		Firm brownish grey mottled orangish brown slightly sandy CLAY. (CORNBRAASH FORMATION) <i>At 1.10m to 1.25m bgl: band of orangish brown sandy clay in western half of pit.</i>		
D	1.20			(1.20)	M			
			82.39	2.10		End of Trial Pit at 2.10m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered

**Stability:** Stable.

**Remarks:** Trial pit terminated at 2.1m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.40m
<b>Width:</b>	0.80m
<b>Logged:</b>	ST
<b>Checked:</b>	AP


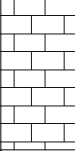
# TRIAL PIT LOG

**TP31**

**Project** Howes Lane, Bicester  
**Client** Albion Land Two Ltd  
**Date** 22/08/2018

**Project No.** AG2873-18  
**Sheet** 1 of 1  
**Scale** 1:25

**Ground Level** 84.63m AOD      **Coordinates** E 456396.00 N 223190.00      **Total Depth** 0.80m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.25		84.33	(0.30)	E	Crops over soft dark brown silty gravelly CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded of limestone. (TOPSOIL)		
B	0.75		83.83	(0.50)	VH	Very weak thinly bedded light grey LIMESTONE recovered as orangish brown slightly clayey slightly sandy gravel. Gravel is fine to coarse angular to subrounded of limestone. Frequent angular to subangular cobbles of limestone. (CORNBRAsh FORMATION)		
				0.80		End of Trial Pit at 0.80m		

**Method:** Backhoe excavator

**Groundwater:** Groundwater not encountered.

**Stability:** Stable.

**Remarks:** Trial pit terminated at 0.80m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

<b>Length:</b>	2.10m
<b>Width:</b>	0.70m
<b>Logged:</b>	ST
<b>Checked:</b>	AP