

Appendix D Historical and Recent borehole logs

Contract Name READING						Borehole No. 1	
						Sheet 1 of 1	
Method of boring Shell and Auger				Ground level 125.63'			
Diameter 8"				Start 5.6.74			
				Finish 6.6.74			
Daily progress	Water levels	In-situ tests	Samples	Depth (ft)	Reduced level (ft OD)	Thickness (ft)	Description of Strata
				2'0"		2'0"	Reinforced concrete
				2'0"	123.6		
				3'0"	122.6	1'0"	Clayey gravel
5/6	▽			4'6"	121.1	1'6"	Hardcore
	7/6		J				
6/6	▽	5/6		9'0"	116.6	4'6"	Firm blue and grey silty organic clay with some gravel
	6/6	N=9	B				
		N=10	B			7'0"	Medium dense becoming dense fine to coarse flint gravel
		N=35	B	16'0"	109.6		
5/6				17'		3'0"	Medium dense fine to coarse flint gravel with cobbles and a trace of fine to coarse sand
5/6		N=29	B	19'0"	106.6		
		N=9	B			6'0"	Medium dense fine to coarse flint gravel with a little fine to coarse sand
		N=12	B	25'0"	100.6		
			U			5'0"	Hard chalk and flints in a stiff chalk binder
6/6				30'0"	95.6		
6/6			W				Bottom of Borehole

Contract Name					READING	Borehole No. 2		
						Sheet 1 of 2		
Method of boring		Shell and Auger		Ground level		125.76 ft O.D		
Diameter		8" and 6"		Start		25.5.74		
				Finish		4.6.74		
Daily progress	Water levels	In-situ tests	Samples	Depth (ft)	Reduced level (ft OD)	Thickness (ft)	Description of Strata	
25/5 26/5 26/5 25/5 25/5 26/5 26/5 27/5 27/5				1'0"	124.8	1'0"	Clayey Gravel	Made Ground
		N=5	B	3'6"	122.3	2'6"	Hardcore	
		25/5	U			4'0"	Soft blue and brown silty organic clay with some medium gravel	
		26/5	W					
		N=13	B	7'6"	118.3			
		N=24	B			9'0"	Medium dense fine to coarse flint gravel with some fine to coarse sand	
		N=18	B					
		N=19	B	16'6"	109.3			
		N=20	B			6'0"	Medium dense, fine to coarse flint gravel with a trace of coarse sand	
		N=22	B	22'6"	103.3			
		N=18	B			6'0"	Medium dense fine to coarse flint gravel with cobbles and a trace of medium to coarse sand	
		N=17	B	28'6"	97.3			
				30'0"	95.8	1'6"	Fine to coarse flint gravel with some fine to coarse sand and a trace of chalk fragments	
		N=7	J					
	U			Hard chalk and flints in a stiff becoming very stiff chalk binder				
	J							
N=10	J							

Contd/.

Casing reduced to 6" at 30' depth

Terresearch Limited

Report No. S 24/762

Appendix 4 Sheet 2

Contract Name READING						Borehole No. 2	
						Sheet 2 of 2	
Method of boring Diameter				Ground level Start Finish			
Daily progress	Water levels	In-situ tests	Samples	Depth (ft)	Reduced level (ft OD)	Thickness (ft)	Description of Strata
		N=23	J			30'0"	Hard chalk and flints in a stiff becoming very stiff chalk binder
4/6			U	60'0"	65.8		
4/6							Bottom of Borehole

Contract Name READING						Borehole No. 3	
Method of boring Shell and Auger						Ground level 125.19 ft O.D	
Diameter 8" and 6"						Start 22.5.74	
						Finish 24.5.74	
Daily progress	Water levels	In-situ tests	Samples	Depth (ft)	Reduced level (ft OD)	Thickness (ft)	Description of Strata
				1'0"	124.2	1'0"	Clayey gravel
		N=6	B	3'6"	121.7	2'6"	Hardcore
25/5						4'0"	Soft blue brown and grey silty organic clay with some medium gravel
24/5		24/5	U	7'6"	117.7		
23/5		N=9	W, B				
		N=9	B				
		N=12	B				
		N=40	B	16'0"			
		N=44	B			21'0"	Loose to medium dense to dense fine to coarse flint gravel with fine to coarse sand becoming more sandy with depth, cobbles towards base
		N=49	B				
		N=29	B				
24/5		N=5	B	28'6"	96.7		
24/5			B				
		N=8	J				Hard chalk and flints in a stiff chalk binder
			BU*				
		N=8	J				
			J				

Contd/.

Casing reduced to 6" at 30' depth

Contract Name READING

Borehole No. 3

Sheet 2 of 2

Method of boring
DiameterGround level
Start
Finish

Daily progress	Water levels	In-situ tests	Samples	Depth (ft)	Reduced level (ft OD)	Thickness (ft)	Description of Strata
		N=9					
			B				
		N=18	B			31'6"	Hard chalk and flints in a stiff chalk binder
24/5			U	60'0"	65.2		
							Bottom of Borehole

AP geotechnics 01784 438038		Project	GREAT BRIGHAM MEAD, READING	BOREHOLE BH1 1/3
Co-ordinates 471350 E 174250 N		Client	McKay Securities	Project No. 1497
Scale 1:50		Agent	Peter Brett Associates	Ground Level

Samples / Tests		(Date)	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth	Casing					
B1	0.20 - 0.50	(05/10/98)		0.20	Grasscrete paving over light brown sand sub-base (0.20)		
					FILL: Loose very dark brown ash, concrete and brick fragments with organic odour (0.60)		
B2	0.80 - 1.20			0.80			
U1 (20)	1.20 - 1.65	1.20		1.20	Soft to firm dark grey slightly gravelly silty CLAY with roots (0.40)		
W1	1.60						
D1	1.65				Firm light grey blue and orange brown slightly sandy CLAY with roots (0.90)		
D2	2.10						
U2 (29F)	2.20 - 2.65	2.20		2.10	Soft blue grey and light brown sandy CLAY with occasional subangular flint medium gravel and roots (0.60)		
B3	2.20 - 2.70						
C1 [14]	2.70 - 3.15	2.70		2.70	Medium dense light brown and grey well graded sandy GRAVEL of subangular flints (5.00)		
B4	2.70 - 3.20						
C2 [18]	3.80 - 4.25	3.80					
B5	3.80 - 4.30						
C3 [20]	5.00 - 5.45	5.00					
B6	5.00 - 5.50						
C4 [22]	5.90 - 6.35	5.90					
B7	5.90 - 6.40						
C5 [15]	7.00 - 7.45	7.00			traces of chalk		
B8	7.00 - 7.50						
D3	7.70			7.70			
S6 [10]	8.00 - 8.45	8.00			Pale brown white CHALK with flints (4.30)		

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	Cased to
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water				
2.20	1.60	fast	2.20	not	05/10/98	1630	20.00	16.50	4.60			0.15	16.50
					06/10/98	0830	20.00	16.50	1.50				

Remarks Full water balance maintained in gravel.
Excavating from 0m to 0.2m for 0.25 hours.
Water added from 3.2m to 7.7m.

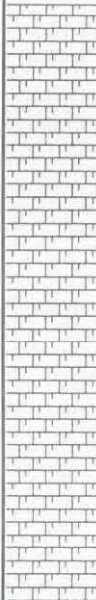
AP Geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING		BOREHOLE BH1 2/3	
Co-ordinates 471350 E 174250 N		Client McKay Securities		Project No. 1497	
Scale 1:50		Agent Peter Brett Associates		Ground Level	

Samples / Tests		(Date)	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth	Casing					
D4	8.00				Pale brown white CHALK with flints		
U3 (35)	9.00 - 9.40	9.00					
S7 [13] D5	9.50 - 9.95 9.50	9.00					
U4 (50F) B9	10.20 - 10.65 10.20 - 11.00	10.00					
S8 [15] D6	11.00 - 11.45 11.00	11.00					
U5 (60F)	11.80 - 12.25	11.80		12.00	White CHALK with flints (8.00)		
S9 [18] D7	12.40 - 12.85 12.40	12.00					
U6 (60F)	13.20 - 13.65	13.00					
S10 [17] D8	14.00 - 14.45 14.00	14.00					
U7 (70)	14.80 - 15.25	14.50					
S11 [19] D9	15.40 - 15.85 15.40	15.00					

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	Cased to
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water				
					05/10/98	1630	20.00	16.50	4.60				
					06/10/98	0830	20.00	16.50	1.50				

Remarks

A P geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING	BOREHOLE BH1 3/3
Co-ordinates 471350 E 174250 N		Client McKay Securities	Project No. 1497
Scale 1:50		Agent Peter Brett Associates	Ground Level

Samples / Tests		(Date)	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth	Casing					
U8 (80)	16.30 - 16.75	16.00			White CHALK with flints		
S12[20] D10	17.20 - 17.65 17.20	16.50					
U9 (80F)	18.00 - 18.45	16.50					
S13[22] D11	19.00 - 19.45 19.00	16.50					
U10(85F)	19.50 - 19.95	16.50					
		(05/10/98)		20.00	Complete		

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	Cased to
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water				
					05/10/98	1630	20.00	16.50	4.60				
					06/10/98	0830	20.00	16.50	1.50				

Remarks

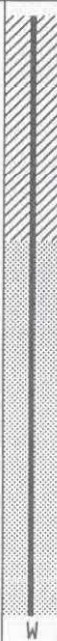
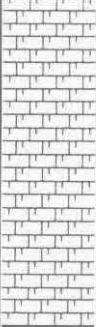
AP geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING		BOREHOLE BH2 1/3	
Co-ordinates 471350 E 174250 N		Client McKay Securities		Project No. 1497	
Scale 1:50		Agent Peter Brett Associates		Ground Level	

Samples / Tests		(Date) Casing	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth						
D1	0.20	(06/10/98)			FILL: Bricks, gravel and sand (1.00)		
B1	0.50 - 0.80						
C1 [10] B2	1.00 - 1.45 1.00 - 1.70	1.00		1.00	FILL: Loose very dark brown sandy clay with gravel and brick fragments (0.70)		
D2 U1 (25) W1	1.70 1.70 - 2.15 2.00	1.50		1.70 1.90	Firm dark brown sandy CLAY (0.20)		
D3	2.15				Firm dark grey brown slightly silty gravelly CLAY (0.70)		
C2 [26] B3	2.60 - 3.05 2.60 - 3.10	2.60		2.60	Medium dense light brown very sandy GRAVEL of subangular fints (4.70)		
C3 [23] B4	3.70 - 4.15 3.70 - 4.20	3.70					
C4 [15] B5	5.00 - 5.45 5.00 - 5.50	5.00					
C5 [22] B6	6.10 - 6.55 6.10 - 6.50	6.10					
S6 [5] D4	7.40 - 7.85 7.40	7.40		7.30	Off white CHALK with flints (12.70)		

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water			Cased to	
2.60	2.00	fast	2.60	not	06/10/98	1630	15.50	15.00	6.50			0.15	16.50
					07/10/98	0830	15.50	15.00	2.60				
					07/10/98		20.00	16.50	2.30				

Remarks Full water balance maintained in gravel
Water added from 2.6m to 7.3m.

A P geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING		BOREHOLE BH2 2/3	
Co-ordinates 471350 E 174250 N		Client McKay Securities		Project No. 1497	
Scale 1:50		Agent Peter Brett Associates		Ground Level	

Samples / Tests		(Date)	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth	Casing					
U2 (35)	8.50 - 8.95	8.50			Off white CHALK with flints		
S7 [8] D5	9.00 - 9.45 9.00	9.00					
U3 (40F) B7	9.80 - 10.25 9.80 - 10.40	9.80					
S8 [10] D6	10.60 - 11.05 10.60	10.50					
U4 (50F) B8	11.30 - 11.75 11.30 - 12.00	11.30					
S9 [18] D7	12.00 - 12.45 12.00	12.00					
U5 (75)	12.80 - 13.25	12.50					
S10[26] D8	13.60 - 14.05 13.60	13.50					
B9	14.10 - 15.00						
S11[24] D9	15.00 - 15.45 15.00	15.00					
D10 U6 (100F)	15.70 15.70 - 16.15	15.70			.. flint pushing ahead of drilling tools 14.1-15.0m		

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	Cased to
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water				
					06/10/98	1630	15.50	15.00	6.50				
					07/10/98	0830	15.50	15.00	2.60				
					07/10/98		20.00	16.50	2.30				

Remarks

AP geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING		BOREHOLE BH2 3/3	
Co-ordinates 471350 E 174250 N		Client McKay Securities		Project No. 1497	
Scale 1:50		Agent Peter Brett Associates		Ground Level	

Samples / Tests		(Date)	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth	Casing					
S12[26] D11	16.60 - 17.05 16.60	16.50			Off white CHALK with flints		
U7 (100F) B10	17.30 - 17.75 17.30 - 17.80	16.50					
S13[32] D12	18.00 - 18.45 18.00	16.50					
S14[33] D13	19.50 - 19.95 19.50	16.50					
				20.00	Complete		

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	Cased to
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water				
					06/10/98	1630	15.50	15.00	6.50				
					07/10/98	0830	15.50	15.00	2.60				
					07/10/98		20.00	16.50	2.30				

Remarks

AP geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING	BOREHOLE WS1 1/1
Co-ordinates E N		Client McKay Securities	Project No. 1497
Scale 1:50		Agent Peter Brett Associates	Ground Level

Samples / Tests		(Date) Casing	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth						
		(15/10/98)			FILL: Brown sand with ash, gravel and bricks (0.90)		
D1	0.50						
D2	0.90			0.90	Firm very dark brown peaty CLAY (0.30)		
				1.20	Soft to firm light blue grey and orange brown silty CLAY (1.50)		
D3	1.40						
D4	1.90						
D5	2.40						
				2.70			
D6	2.90			3.00	Brown silty sandy GRAVEL (0.30)		
			W				

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	Cased to
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water				
1.50													

Remarks
Borehole formed by continuous dynamic "window" sampler.

AP Geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING		BOREHOLE WS2 1/1	
Co-ordinates E N		Client McKay Securities		Project No. 1497	
Scale 1:50		Agent Peter Brett Associates		Ground Level	

Samples / Tests		(Date)	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth	Casing					
		(15/10/98)					
				0.10	TARMAC (0.10)		
				0.30	CONCRETE (0.20)		
D1	0.50				FILL: Dark brown clay with brick and concrete fragments (0.70)		
D2	1.00			1.00			
					FILL: Loose gravelly clay (0.50)		
D3	1.40			1.50			
					Soft pale blue grey silty CLAY (0.50)		
D4	1.90			2.00			

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	Cased to
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water				

Remarks Borehole formed by continuous dynamic "window" sampler.
Hole collapsed, preventing further progress.

 geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING	BOREHOLE WS3 1/1
Co-ordinates E N		Client McKay Securities	Project No. 1497
Scale 1:50		Agent Peter Brett Associates	Ground Level

Samples / Tests		(Date) Casing	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth						
		(15/10/98)		0.08	TARMAC (0.08)		
				0.50	CONCRETE (0.43)		
D1	0.70				FILL: Brown sand with roots, gravel, ash and clinker (0.50)		
D2	1.10			1.00	FILL: Firm brown grey silty clay with occasional roots and ash (0.40)		
D3	1.60			1.40	Soft orange brown and blue grey silty CLAY (1.50)		
D4	2.10						
D5	2.70						
			W	2.90			

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	Cased to
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water				
2.00													

Remarks Borehole formed by continuous dynamic "window" sampler
Terminated on impenetrable stratum.

 geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING	BOREHOLE WS4 1/1
Co-ordinates E N		Client McKay Securities	Project No. 1497
Scale 1:50		Agent Peter Brett Associates	Ground Level

Samples / Tests		(Date) Casing	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth						
		(15/10/98)		0.20	TARMAC over CONCRETE (0.20)		
				0.30	FILL: Brick hardcore (0.10) Firm brown grey gravelly CLAY with some peat (Possible FILL) (0.50)		
D1	0.50			0.80			
D2	1.00			1.10	Firm very dark brown PEAT (0.30)		
				1.50	Very soft brown silty sandy CLAY with occasional flint gravel (0.40)		
D3	1.40				Soft to firm blue grey silty CLAY (0.70)		
D4	1.90			2.20			
D5	2.40				Brown and grey sandy GRAVEL (0.80)		
D6	2.80			3.00			

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	Cased to
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water				
1.60													

Remarks Borehole formed by continuous dynamic "window" sampler.

AP geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING		BOREHOLE WS5 1/1	
Co-ordinates E N		Client McKay Securities		Project No. 1497	
Scale 1:50		Agent Peter Brett Associates		Ground Level	

Samples / Tests		(Date) Casing	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth						
		(15/10/98)		0.08	CONCRETE (0.08)		
D1	0.50			0.60	FILL: Firm brown, grey and black clay with brick fragments and ash (0.53)		
D2	1.00				Soft black and grey sandy SILT with flint gravel (Possible FILL) (0.80)		
D3	1.50			1.40	Soft to firm blue grey silty CLAY (0.80)		
D4	2.00			2.20			
D5	2.50				Brown silty sandy GRAVEL (0.80)		
D6	2.90		W	3.00			

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Percussive Boring	
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water			Dia	Cased to
1.80													

Remarks Borehole formed by continuous dynamic "window" sampler.

Samples / Tests		(Date) Casing	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth						
		(16/10/98)			GRASSCRETE block on sandy gravel sub-base (0.40)		
D1	0.50			0.40	FILL: Brick hardcore and chalk gravel (0.70)		
D2	1.00			1.10			
D3	1.50				Soft blue grey silty CLAY (1.00)		
D4	2.00			2.10			
D5	2.50				Brown very sandy GRAVEL (0.90)		
				3.00			

Remarks	Borehole formed by continuous dynamic "window" sampler. Hole collapsed, preventing standpipe installation. Slight hydrocarbon odour in gravel.
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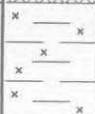
AP geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING		BOREHOLE WS7 1/1	
Co-ordinates E N		Client McKay Securities		Project No. 1497	
Scale 1:50		Agent Peter Brett Associates		Ground Level	

Samples / Tests		(Date) Casing	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth						
		(16/10/98)					
D1	0.50			0.30	GRASSCRETE paving over sandy gravel sub-base (0.30)		
D2	1.00				FILL: Compact brown sandy clay with brick and concrete fragments, gravel and occasional ash (1.00)		
D3	1.30			1.30			

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	Cased to
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water				

Remarks Borehole formed by continuous dynamic "window" sampler.
 Terminated on impenetrable stratum.
 Three attempts to progress beyond 1.3m depth in vicinity of WS7, all unsuccessful.
 Hole dry.

AP geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING		BOREHOLE WS8 1/1	
Co-ordinates E N		Client McKay Securities		Project No. 1497	
Scale 1:50		Agent Peter Brett Associates		Ground Level	

Samples / Tests		(Date) Casing	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth						
		(16/10/98)		0.25	GRASSCRETE paving over sandy gravel sub-base (0.25)		
D1	0.40			0.50	FILL: Firm dark brown clay with brick fragments (0.25)		
D2	0.90				FILL: Soft dark grey and black gravelly clay with occasional brick fragments (0.70)		
D3	1.40			1.20	Soft blue grey silty CLAY (0.80)		
D4	1.90			2.00	Brown sandy GRAVEL (1.00)		
D5	2.50			3.00			

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	Cased to
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water				
1.80													

Remarks Borehole formed by continuous dynamic "window" sampler.

AP geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING		BOREHOLE WS9 1/1	
Co-ordinates E N		Client McKay Securities		Project No. 1497	
Scale 1:50		Agent Peter Brett Associates		Ground Level	

Samples / Tests		(Date) Casing	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth						
		(16/10/98)			GRASSCRETE paving laid on sand sub-base. (0.30)		1 ▽
D1	0.50			0.30 0.45	FILL: Dark brown sandy clay with brick fragments (0.15)		
				0.70	FILL: Very dark grey ash and clinker (0.25)		
D2	1.00			1.10	FILL: Soft dark brown sandy gravelly clay with occasional brick fragments (0.40)		
				1.30	Firm very dark brown PEAT (0.20)		
D3	1.50				Soft blue grey silty CLAY (0.90)		
D4	2.00			2.20	Brown very sandy GRAVEL (0.80)		
D5	2.50						
D6	2.90			3.00			

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	Cased to
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water				
1.50													

Remarks Borehole formed by continuous dynamic "window" sampler.

A P Geotechnics 01784 438038		Project GREAT BRIGHAM MEAD, READING	BOREHOLE WS10 1/1
Co-ordinates E N		Client McKay Securities	Project No. 1497
Scale 1:50		Agent Peter Brett Associates	Ground Level

Samples / Tests		(Date) Casing	Inst.	Depth	Description of Strata (thickness)	Legend	Level
Type	Depth						
		(16/10/98)			GRASSCRETE paving over sand sub-base (0.30)		
D1	0.50			0.30	FILL: Brown sand with ash and brick fragments (0.80)		
D2	1.00			1.10			
D3	1.50			1.30	Firm brown silty CLAY (0.20)		
D4	2.00				Soft blue grey and orange brown silty sandy CLAY with occasional shell debris (1.70)		
D5	2.50						
D6	3.00			3.00			

Groundwater Strikes					Groundwater Observations					Chiselling		Percussive Boring	
Depth					Date	Time	Depth			Depth	Hours	Dia	Cased to
Struck	Rose to	Rate	Cased	Sealed			Bore	Casing	Water				
1.70													

Remarks Borehole formed by continuous dynamic "window" sampler.



WINDOWLESS SAMPLE LOG

Telephone: 01452 739165 , Fax: , Email: info@ccground.co.uk

Project Name: Great Brighams Mead	Project No: C7051	Co-ords: E 471344 N 174257	Hole Type WLS
Location: Reading	Level: 37.92mAOD	Scale 1 : 37.50	
Client: Stantec UK Ltd	Dates: Start: 04/03/2021 End: 04/03/2021	Logged By JH	

(m)	Water Levels	Samples & In Situ Testing			Sample	Install	Description	Depth (m)	Level (mAOD)	Legend
		No/Type	Depth (m)	Result						
1							MADE GROUND: Brown slightly gravelly slightly sandy CLAY. Gravel is angular to sub-rounded fine to coarse of brick and siliceous material. 0.40m: Black plastic pipe. Pit terminated. Borehole completed at 0.40m	(0.40) 0.40	37.52	
2										
3										
4										
5										
6										

EQUIPMENT: Hand digging tools.
 METHOD: Hand dug inspection pit: 0.00-0.40m.
 CASING: None used.
 GROUNDWATER: None encountered.
 BACKFILL: Upon completion, borehole backfilled with arisings.
 REMARKS: Borehole terminated due to encountering possible buried service at 0.40m.

Groundwater:

Date Strike Depth (m) Casing Depth (m) Depth After Observation (m)

Hole Progress:

Date Hole Depth (m) Casing Depth (m) Water Depth (m)
 04/03/2021 10:30 0.40

WINDOWLESS SAMPLE LOG



Borehole No.

WS01a

Sheet 1 of 1

Telephone: 01452 739165, Fax: , Email: info@ccground.co.uk

Project Name: Great Brighams Mead	Project No: C7051	Co-ords: E 471345 N 174257	Hole Type WLS
Location: Reading	Level: 37.85mAOD	Scale 1 : 37.50	
Client: Stantec UK Ltd	Dates: Start: 04/03/2021 End: 04/03/2021	Logged By JH	

(m)	Water Levels	Samples & In Situ Testing			Sample	Install	Description	Depth (m)	Level (mAOD)	Legend
		No/Type	Depth (m)	Result						
1		B ES	0.20				MADE GROUND: Brown slightly gravelly slightly sandy CLAY. Gravel is angular to sub-rounded fine to coarse of brick, siliceous material and concrete.	(0.60)		1
		B ES	0.50				MADE GROUND: Light brown mottled grey very sandy clayey angular to sub-rounded fine to coarse GRAVEL of brick, flint, siliceous material and concrete.	0.60 (0.50)	37.25	
		B ES	1.00				MADE GROUND: Dark brown and light yellow brown mottled white very sandy very clayey angular to sub-rounded fine to coarse GRAVEL of flint and chalk	1.10 (0.35)	36.75	
		D	1.20 - 1.45				MADE GROUND: Dark brown and black clayey angular fine to coarse SAND & GRAVEL of clinker, ash and sandstone. Sand is fine to coarse.	1.45 1.60	36.40 36.25	
2		D	1.45 - 1.60				1.55-1.65m: 1no rusted nail 6mm diameter.			2
		D	1.90				Soft dark brownish grey slightly gravelly slightly sandy CLAY with frequent decaying roots and rootlets (<3mm). Gravel is angular medium to coarse of flint.	(0.95)		
3			2.30-2.55m: Becoming gravelly.							3
		D	2.55 - 2.70				Dark brownish grey very sandy clayey angular to sub-angular fine to coarse GRAVEL of flint.	2.55	35.30	
		B	2.70 - 3.50				Orangish brown very sandy silty sub-angular to sub-rounded fine to coarse GRAVEL of flint.	2.70	35.15	
							2.70-2.80m: Locally dark orangish brown.	(0.80)		
4		D	3.50 - 3.85				Orangish brown silty sub-angular to sub-rounded fine to coarse SAND & GRAVEL of flint. Sand is fine to coarse.	3.50 (0.35)	34.35	4
		D	3.85 - 4.00				Orangish brown gravelly silty SAND. Sand is fine to coarse. Gravel is sub-angular to sub-rounded fine to medium of flint.	3.85 4.00	34.00 33.85	
							Borehole completed at 4.00m			
5										5
6										6

EQUIPMENT: Hand digging tools. Terrier 2002 tracked mounted rig.

METHOD: Hand dug inspection pit: 0.00-1.20m. Continuous disturbed sampling using 101mm sample barrel: 1.20-4.00m.

CASING: 113mm diameter to 4.00m.

GROUNDWATER: Groundwater encountered at 2.92m, rising to 2.55m after 20 minute monitoring period.

INSTALLATION: Upon completion, borehole backfilled with arisings: 3.00-4.00m. 50mm ID HDPE slotted pipe with washed gravel response zone: 0.50-3.00m. 50mm ID HDPE plain pipe: 0.10-0.50m. Flush 150mm steel cover set in concrete: 0.00-0.10m. Gas valve fitted.

REMARKS: Blowing sands up to 3.60m inside casing.

Groundwater:

Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
04/03/21	2.92	3.00	2.55

Hole Progress:

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)
04/03/2021 12:00	4.00	3.00	2.92

WINDOWLESS SAMPLE LOG



Borehole No.

WS02

Sheet 1 of 1

Telephone: 01452 739165, Fax: , Email: info@ccground.co.uk

Project Name: Great Brighams Mead	Project No: C7051	Co-ords: E 471390 N 174272	Hole Type WLS
Location: Reading		Level: 37.84mAOD	Scale 1 : 37.50
Client: Stantec UK Ltd		Dates: Start: 04/03/2021 End: 04/03/2021	Logged By JH

(m)	Water Levels	Samples & In Situ Testing			Sample	Install	Description	Depth (m)	Level (mAOD)	Legend
		No/Type	Depth (m)	Result						
1		B ES	0.20				MADE GROUND: Pea gravel over soft friable dark brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of brick and flint. 0.10m: Off white fabric membrane.	(0.70)		
		B ES	0.50					0.70	37.14	
		B ES	1.00				MADE GROUND: Dark brown and black very sandy very clayey angular to sub-angular fine to coarse GRAVEL of clinker, ash, brick and concrete.	(0.50)		
		D	1.40				Soft friable dark brownish grey silty CLAY with slight organic odour. 1.40-2.30m: Becoming brownish grey.	1.20	36.64	
2		D	1.90				1.75-2.30m: Becoming mottled light grey.	(1.10)		
		D	2.30 - 2.40				2.10-2.30m: Becoming very soft.	2.30	35.54	
		B	2.40 - 3.70				Soft dark grey sandy CLAY. Sand is fine to medium with frequent off white shell fragments (<4mm). Dark greenish grey sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint. 2.55-2.80m: Locally very clayey.	2.40	35.44	
								(1.30)		
3										
		D	3.70 - 4.00				Orangish brown and brown very gravelly clayey SAND. Gravel is angular to sub-rounded fine to medium of flint.	3.70	34.14	
							Borehole completed at 4.00m	(0.30)		
								4.00	33.84	
4										
5										
6										

EQUIPMENT: Hand digging tools. Terrier 2002 tracked mounted rig.

METHOD: Hand dug inspection pit: 0.00-1.20m. Continuous disturbed sampling using 101mm and 86mm sample barrels: 1.20-4.00m.

CASING: 113mm diameter to 3.00m.

GROUNDWATER: Groundwater encountered at 1.56m, no rise recorded.

INSTALLATION: Upon completion, borehole backfilled with bentonite pellets: 3.00-3.40m. 50mm ID HDPE slotted pipe with washed gravel response zone: 0.50-3.00m. 50mm ID HDPE plain pipe: 0.10-0.50m. Flush 150mm steel cover set in concrete: 0.00-0.10m. Gas valve fitted.

REMARKS: Borehole collapsed to 3.40m on completion of run 3.00-4.00m.

Groundwater:

Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
04/03/21	1.52		1.52

Hole Progress:

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)
04/03/2021 14:00	4.00	3.00	1.52

WINDOWLESS SAMPLE LOG



Borehole No.

WS03

Sheet 1 of 1

Telephone: 01452 739165, Fax: , Email: info@ccground.co.uk

Project Name: Great Brighams Mead	Project No: C7051	Co-ords: E 471427 N 174248	Hole Type WLS
Location: Reading	Level: 37.85mAOD	Scale 1 : 37.50	
Client: Stantec UK Ltd	Dates: Start: 04/03/2021 End: 04/03/2021	Logged By JH	

(m)	Water Levels	Samples & In Situ Testing			Sample	Install	Description	Depth (m)	Level (mAOD)	Legend
		No/Type	Depth (m)	Result						
1		B ES	0.20				MADE GROUND: Grass over soft dark brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of brick, flint and concrete.	(0.40)	37.45	
		B ES	0.50				MADE GROUND: Dark brown sandy very clayey angular to sub-angular fine to coarse GRAVEL of brick, flint and concrete.	(0.50)		
		B ES	1.00				MADE GROUND: Dark brown and black slightly gravelly slightly sandy silty CLAY. Gravel is angular to sub-angular fine to coarse of brick, clinker and flint. Sand is fine to medium.	(0.40)		
		D	1.30 - 1.70				Soft orangish brown mottled greenish grey and dark orangish brown slightly sandy CLAY.	(0.40)		
2		D ES	1.70 - 2.20 1.80				Soft dark greenish grey silty CLAY with frequent off white shell fragments (<1mm).	(0.50)	36.15	
		D	2.20 - 2.75				Dark greenish grey clayey SILT with frequent off white shell fragments (<3mm).	(0.55)	35.65	
3		D	2.75 - 3.30				Dark brownish grey and dark orangish brown slightly clayey very sandy silty angular to sub-rounded fine to coarse GRAVEL of flint.	(0.55)	35.10	
		D	3.30 - 3.65				Orangish brown very sandy silty angular to sub-rounded fine to coarse GRAVEL of flint.	(0.35)	34.55	
		D	3.65 - 4.00				Light yellowish brown very gravelly SAND. Sand is medium to coarse. Gravel is angular to sub-rounded fine to medium of flint.	(0.35)	34.20	
4							Borehole completed at 4.00m	4.00	33.85	
5										
6										

EQUIPMENT: Hand digging tools. Terrier 2002 tracked mounted rig.

METHOD: Hand dug inspection pit: 0.00-1.20m. Continuous disturbed sampling using 101mm and 86mm sample barrels: 1.20-4.00m.

CASING: 113mm diameter to 3.00m.

GROUNDWATER: Groundwater encountered at 1.93m, rising to 1.60m after 5 minute monitoring period.

INSTALLATION: Upon completion, borehole backfilled with bentonite pellets: 3.00-3.50m. 50mm ID HDPE slotted pipe with washed gravel response zone: 0.50-3.00m. 50mm ID HDPE plain pipe: 0.10-0.50m. Flush 150mm steel cover set in concrete: 0.00-0.10m. Gas valve fitted.

REMARKS: Borehole collapsed to 3.50m on completion of run 3.00-4.00m.

Groundwater:

Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
04/03/21	1.93	3.00	1.60

Hole Progress:

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)
04/03/2021 15:30	4.00	3.00	1.65

WINDOWLESS SAMPLE LOG



Borehole No.

WS04

Sheet 1 of 1

Telephone: 01452 739165 , Fax: , Email: info@ccground.co.uk

Project Name: Great Brighams Mead	Project No: C7051	Co-ords: E 471366 N 174161	Hole Type WLS
Location: Reading		Level: 38.05mAOD	Scale 1 : 37.50
Client: Stantec UK Ltd		Dates: Start: 04/03/2021 End: 04/03/2021	Logged By JH

(m)	Water Levels	Samples & In Situ Testing			Sample	Install	Description	Depth (m)	Level (mAOD)	Legend
		No/Type	Depth (m)	Result						
1		B ES	0.20				MADE GROUND: Grass over soft dark brown slightly gravelly slightly sandy CLAY with occasional roots and rootlets (<3mm). Sand is fine to coarse. Gravel is sub-angular fine to coarse of brick and flint.	(0.70)		
		B ES	0.50					0.70	37.35	
		B ES	1.00				MADE GROUND: Brown mottled light brown sandy very clayey angular to rounded fine to coarse GRAVEL of brick and flint.	(0.40)		
		D	1.50				MADE GROUND: Firm brown slightly gravelly slightly sandy CLAY. Gravel is angular to sub-rounded fine to coarse of flint and brick.	1.10	36.95	
		ES	1.80				Soft orangish brown mottled dark grey and brown silty CLAY.	(0.55)		
2		D	2.20					1.65	36.40	
		D	2.40 - 2.55				Orangish brown very sandy clayey sub-angular to sub-rounded fine to coarse GRAVEL of flint.	(0.75)		
		D	2.55 - 4.00				Orangish brown SAND & GRAVELS. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of flint.	2.40	35.65	
3								2.55	35.50	
								(1.45)		
4							Borehole completed at 4.00m	4.00	34.05	
5										
6										

EQUIPMENT: Hand digging tools. Terrier 2002 tracked mounted rig.

METHOD: Hand dug inspection pit: 0.00-1.20m. Continuous disturbed sampling using 101mm and 86mm sample barrels: 1.20-4.00m.

CASING: 113mm diameter to 3.00m.

GROUNDWATER: Groundwater encountered at 2.07m, no rise recorded.

INSTALLATION: Upon completion, borehole backfilled with arisings: 3.00-4.00m. 50mm ID HDPE slotted pipe with washed gravel response zone: 0.50-3.00m. 50mm ID HDPE plain pipe: 0.10-0.50m. Flush 150mm steel cover set in concrete: 0.00-0.10m. Gas valve fitted.

REMARKS: Blowing sands up to 2.50m inside casing.

Groundwater:

Date	Strike Depth (m)	Casing Depth (m)	Depth After Observation (m)
04/03/21	2.07		2.07

Hole Progress:

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)
04/03/2021 14:45	4.00	3.00	2.07