

APPENDIX B

FIELDWORK

Key to Exploratory Holes



Soil Mechanics

DESCRIPTIONS

** : Driller's Description

SAMPLES

U : Undisturbed sample (100mm diameter unless otherwise stated).
P : Piston sample
TW : Thin Wall Sample
NR : No Recovery
B : Bulk Sample - large disturbed
D : Tub Sample - small disturbed
W : Water Sample
G : Gas Sample
CS : Core Sample
R : Root Sample
E : Environmental / Chemical Sample
M : Moisture Content Sample

GROUNDWATER

1 :
▼ : Groundwater strike with strike number.
1 :
▽ : Groundwater rise with strike number.
Date/Water : Date of shift (day/month)/Depth to water at end of previous shift shown above the date and depth to water at beginning of shift given below the date.

IN SITU TESTING

S : Standard Penetration Test - split barrel sampler
C : Standard Penetration Test - solid 60° cone
FVT(R) : Field Vane Test (R) indicates remoulded strength
HVp / HVr : Hand Vane Test, peak and residual values, in kPa.
K(F/C/R/P) : Permeability Test (falling, constant or rising head, packer)
PMT : Pressuremeter Test

MEASURED PROPERTIES

N : Standard Penetration Test - blows required to drive 300mm after seating drive.
TCR : Total Core Recovery (excludes artificial fractures), %.
SCR : Solid Core Recovery (excludes artificial fractures), %.
RQD : Rock Quality Designation (excludes artificial fractures), %.
lf : Fracture spacing, mm. The term non-intact (NI) is used where the core is fragmented. Additional detail is often given by quoting minimum, average and maximum fracture spacing, excludes artificial fractures unless noted otherwise.
W : Water flush returns, estimated percentage returns with colour where relevant.
 c_u : Undrained Shear Strength (kPa)

REFERENCES

BS 1377 : 1990 : British Standard Methods of test for soils for civil engineering purposes. British Standards Institution.
BS 5930 : 1999 : Code of Practice for Site Investigations.

Notes : These symbols are used on the exploratory hole records.

Project PROPOSED OFFICE DEVELOPMENT
EASTERN ROAD, BRACKNELL
Project no. 149850
Carried out for John B Reed Limited

Figure

A1

Borehole Log



Soil Mechanics

Drilled by IS Logged by SJD Checked by CB		Equipment and Methods Inspection Pit from 0.00m to 1.20m. Cable Percussion 150 mm diameter from 1.20m to 20.00m.				Ground Level Coordinates + 21.10 m	
Samples and Tests				Strata			
Depth	Type & No.	Records	Date Casing	Time Water	Description	Depth, Level (Thickness)	Legend
0.50 - 1.00	B1		22/08/2000		TARMAC **	0.05 +21.05	
1.00 - 1.10	D2				CONCRETE **	0.15 +20.95	
1.20 - 1.85	D3	S.N=9 2,2/2,2,2,3	1.20	dry	Brick and clay fill material. ** (MADE GROUND)	0.40 +20.70	
2.00 - 2.10	D4				Firm to stiff orange brown mottled light grey sandy CLAY with occasional purple brown fibrous root remains. With a little subangular to subrounded fine flint gravel to 2.50m. (LONDON CLAY FORMATION)	(2.60)	
2.20 - 2.65	U5	30 blows	1.20	dry		At 1.20m; becoming very sandy.	
2.65 - 2.80	D6						
3.00 - 3.10	D7						
3.20 - 3.65	U8	48 blows	3.00	dry		3.00 +18.10	
3.65 - 3.80	D9						
4.00 - 4.10	D10						
4.20 - 4.65	D11	S.N=13 3,2/3,3,4,3	3.00	dry			
5.00 - 5.10	D12						
5.20 - 5.65	U13	33 blows	3.00	dry			
5.65 - 5.80	D14				Stiff dark grey brown slightly sandy CLAY with some fine to medium sand sized selenite crystals and occasional medium gravel sized shell fragments. Sand is light grey fine to medium and found within occasional partings. (LONDON CLAY FORMATION)	(6.00)	
6.00 - 6.10	D15						
6.70 - 7.15	U16	29 blows	3.00	dry			
7.15 - 7.30	D17						
8.00 - 8.10	D18						
8.20 - 8.35	D20	S.50 50/50	3.00	dry			
8.20 - 8.70	B19						
9.00 - 9.10	D21				8.30-9.00m: claystone fragments.		
9.70 - 10.15	U22	43 blows	3.00	dry	Stiff dark grey very sandy gravelly CLAY. Gravel is rounded medium to coarse flint. (LONDON CLAY FORMATION)	9.00 +12.10 (1.00)	
						10.00 +11.10	
Groundwater No. Struck Behaviour				Remarks 1. Chiselling from 8.30m to 8.60m (45 minutes) claystone. 2. Gas standpipe (50mm) installed to 6.00m. 3. ** Denotes drillers description.			
Notes : For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1 : 50			Project Project no. Carried out for		PROPOSED OFFICE DEVELOPMENT EASTERN ROAD, BRACKNELL 140215 John B Reed Ltd		Borehole BH1 Sheet 1 of 2

03/09/2000 12:17:50

Borehole Log



Soil Mechanics

Drilled by IS Logged by SJD Checked by CB	Equipment and Methods Inspection Pit from 0.00m to 1.20m. Cable Percussion 150 mm diameter from 1.20m to 20.00m.	Ground Level Coordinates + 21.10 m
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Samples and Tests					Strata		
Depth	Type & No.	Records	Date Casing	Time Water	Description	Depth, Level (Thickness)	Legend
10.15 - 10.30	D23						
11.00 - 11.10	D24						
11.20 - 11.65	U25	62 blows	3.00	dry			
11.65 - 11.80	D26						
12.00 - 12.10	D27						
12.70 - 13.15	D28	S.N=34 4,7/8,8,9,9	3.00	dry			
13.50 - 13.60	D29				11.60-15.50m: with occasional fine gravel sized shell fragments.		
14.20 - 14.65	U30	71 blows	3.00	dry			
14.65 - 14.80	D31				Very stiff fissured dark grey brown slightly sandy CLAY with some fine to medium sand sized selenite crystals. Fissures are very closely spaced and randomly orientated. Sand is light brown fine to medium and found within very closely spaced partings. (LONDON CLAY FORMATION)	(10.00pen)	
15.50 - 15.60	D32						
15.70 - 16.15	U33	63 blows	3.00	dry			
16.15 - 16.30	D34						
16.70 - 16.80	D35						
17.20 - 17.65	D36	S.N=39 4,7/8,9,11,11	3.00	dry			
18.50 - 18.60	D37						
18.70 - 19.15	U38	68 blows	3.00	dry			
19.15 - 19.30	D39						
19.90 - 20.00	D40		22/06/2000		At 19.90m: with some medium gravel sized shell fragments.	20.00 +1.10	
					BOREHOLE ENDS AT 20.00 m.		

Groundwater No. Struck Behaviour 1 15.50 Rising to 15.10 after 20 mins.	Remarks
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Notes : For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1 : 50	Project PROPOSED OFFICE DEVELOPMENT EASTERN ROAD, BRACKNELL Project no. 140215 Carried out for John B Reed Ltd	Borehole BH1 Sheet 2 of 2
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03/09/2000 12:18:18

Borehole Log



Soil Mechanics

Drilled by IS Logged by SJD Checked by CB	Equipment and Methods Inspection Pit from 0.00m to 1.20m. Cable Percussion 150 mm diameter from 1.20m to 20.00m.	Ground Level Coordinates + 21.40 m
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Samples and Tests				Strata			
Depth	Type & No.	Records	Date Casing	Time Water	Description	Depth, Level (Thickness)	Legend
0.35 - 0.45	D1		21/06/2000		Brown and orange brown clayey sandy GRAVEL. Gravel is subangular to rounded flint. A few rootlets. (MADE GROUND)	0.10 +21.30	
0.60 - 1.00	B2					0.25 +21.15	
						(0.35)	
1.00 - 1.10	D3				Grey and purple very sandy GRAVEL. Gravel is medium to coarse with occasional cobbles of subangular to rounded flint. (MADE GROUND)	0.80 +20.80	
1.20 - 1.65	U4	14 blows					
1.65 - 1.80	D5				Soft orange brown mottled blue grey and black sandy gravelly CLAY with occasional rootlets. Gravel is subangular to subrounded fine to medium flint. (MADE GROUND)	(2.40)	
2.20 - 2.65	U6	19 blows	2.20	dry			
2.65 - 2.80	D7				Firm light grey and orange brown slightly sandy to sandy CLAY with occasional root remains. (LONDON CLAY FORMATION)		
3.00 - 3.10	D8						
3.20 - 3.65	D9	S.N=8 1,2/2,2,2,2	3.00	dry	Stiff fissured grey brown slightly sandy CLAY with occasional fine to medium sand sized selenite crystals. Fissures are extremely closely spaced and undulose. sand is light grey fine to medium and found within occasional partings. (LONDON CLAY FORMATION)	3.00 +18.40	
4.00 - 4.10	D10						
4.20 - 4.65	U11	30 blows	3.00	dry	At 6.70m: weak light grey claystone fragments < 20mm thick.		
4.65 - 4.80	D12						
5.20 - 5.65	U13	38 blows	3.00	dry	Stiff fissured grey brown slightly sandy CLAY with occasional fine to medium sand sized selenite crystals. Fissures are extremely closely spaced and undulose. sand is light grey fine to medium and found within occasional partings. (LONDON CLAY FORMATION)	(6.00)	
5.65 - 5.80	D14						
6.20 - 6.30	D15				Stiff dark grey brown slightly sandy CLAY with some fine to medium gravel sized shell fragments (Driller notes some pebbles). (LONDON CLAY FORMATION)		
6.70 - 7.15	D16	S.N=22 4,3/5,6,5,6	3.00	dry			
8.00 - 8.10	D17				Stiff dark grey brown slightly sandy CLAY with some fine to medium gravel sized shell fragments (Driller notes some pebbles). (LONDON CLAY FORMATION)	9.00 +12.40	
8.20 - 8.65	U18	46 blows	3.00	dry			
8.65 - 8.80	D19				Stiff dark grey brown slightly sandy CLAY with some fine to medium gravel sized shell fragments (Driller notes some pebbles). (LONDON CLAY FORMATION)	(1.50)	
9.00 - 9.10	D20						
9.70 - 10.15	U21	44 blows	3.00	dry			

Groundwater No. Struck Behaviour	Remarks 1. Gas Standpipe (50mm) installed to 6.00m.
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Notes : For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1 : 50	Project PROPOSED OFFICE DEVELOPMENT EASTERN ROAD, BRACKNELL Project no. 140215 Carried out for John B Reed Ltd	Borehole BH2 Sheet 1 of 2
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03/09/2000 12:18:40

Borehole Log



Soil Mechanics

Drilled by IS Logged by SJD Checked by CB	Equipment and Methods Inspection Pit from 0.00m to 1.20m. Cable Percussion 150 mm diameter from 1.20m to 20.00m.	Ground Level +21.40 m Coordinates
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Samples and Tests				Strata			
Depth	Type & No.	Records	Date Casing	Time Water	Description	Depth, Level (Thickness)	Legend
10.15 - 10.30	D22				As sheet 1	(1.50)	
10.50 - 10.60	D23					10.50 +10.90	
11.20 - 11.65	D24	S.N=24 4,6/6,5,6,7	3.00	dry	11.20-11.70m: slightly gravelly with rare fine plant remains.		
12.00 - 12.10	D25						
12.70 - 13.15	U26	41 blows	3.00	dry			
13.15 - 13.30	D27						
13.50 - 13.60	D28						
14.20 - 14.65	U29	56 blows	3.00	dry			
14.65 - 14.80	D30						
15.00 - 15.15	D31				Very stiff dark grey brown slightly sandy CLAY with occasional fine to medium gravel sized shell fragments. Sand is light brown fine to medium and found within partings. (LONDON CLAY FORMATION)	(9.50pen)	
15.70 - 16.15	D32	S.N=39 6,8/8,10,9,12	3.00	dry			
16.50 - 16.80	D33						
17.20 - 17.65	U34	51 blows	3.00	dry			
17.65 - 17.80	D35						
18.20 - 18.40	D36						
18.70 - 19.15	U37	58 blows	3.00	dry			
19.15 - 19.30	D38						
				21/06/2000			
					BOREHOLE ENDS AT 20.00 m.	20.00 +1.40	

Groundwater No. Struck Behaviour 1 15.50 Rising to 15.30 after 20 mins.	Remarks
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Notes : For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1 : 50	Project PROPOSED OFFICE DEVELOPMENT EASTERN ROAD, BRACKNELL Project no. 140215 Carried out for John B Reed Ltd	Borehole BH2 Sheet 2 of 2
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03/09/2000 12:18:59



Borehole Log

Drilled by IS Logged by SJD Checked by CB	Equipment and Methods Inspection Pit from 0.00m to 1.20m. Cable Percussion 150 mm diameter from 1.20m to 20.00m.	Ground Level Coordinates + 21.25 m
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Samples and Tests				Strata			
Depth	Type & No.	Records	Date Casing	Time Water	Description	Depth, Level (Thickness)	Legend
0.50 - 1.00	B1		23/08/2000		Brown and orange brown clayey sandy GRAVEL. Gravel is subangular to rounded flint. A few rootlets. (MADE GROUND)	(0.30) 0.30 +20.95	
1.20 - 1.65	U2	18 blows			Stiff light grey mottled orange brown sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to medium flint. (LONDON CLAY FORMATION)	(2.70)	
1.65 - 1.80	D3						
2.00 - 2.10	D4						
2.20 - 2.65	D5	S.N=10 2,2,2,3,2,3	2.00	dry			
3.00 - 3.10	D6						
3.20 - 3.65	U7	28 blows	3.00	dry	3.00-4.60m: sandy. At 5.20m: light grey brown very weak claystone fragments approx 30mm thick. Stiff to very stiff fissured grey brown slightly sandy CLAY with occasional medium gravel sized shell fragments and fine to medium sand sized selenite crystals. Fissures are very closely spaced and randomly orientated. (LONDON CLAY FORMATION)	(6.30)	
3.65 - 3.80	D8						
4.20 - 4.65	U9	37 blows	3.00	dry			
4.65 - 4.80	D10						
5.20 - 5.65	D11	S.N=16 2,3,4,3,5,4					
6.00 - 6.10	D12		3.00	dry			
6.70 - 7.15	U13	41 blows					
7.15 - 7.30	D14						
7.50 - 7.60	D15						
8.20 - 8.65	U16	53 blows	3.00	dry			
8.65 - 8.80	D17				At 8.65m: with extremely closely spaced planar fissures dipping at approx 45 deg.	9.30 +11.95 (2.70)	
9.20 - 9.40	D18						
9.70 - 10.15	D19	S.N=17 4,3,3,4,4,6	3.00	dry			

Groundwater No. Struck Behaviour	Remarks 1. Gas standpipe (50mm) installed to 6.00m. 2. ** denotes drillers description.
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Notes : For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1 : 50	Project PROPOSED OFFICE DEVELOPMENT EASTERN ROAD, BRACKNELL Project no. 140215 Carried out for John B Reed Ltd	Borehole BH3 Sheet 1 of 2
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03/09/2000 12:19:19

Borehole Log



Soil Mechanics

Drilled by IS Logged by SJD Checked by CB	Equipment and Methods Inspection Pit from 0.00m to 1.20m. Cable Percussion 150 mm diameter from 1.20m to 20.00m.	Ground Level +21.25 m Coordinates
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Samples and Tests				Strata			
Depth	Type & No.	Records	Date	Time	Description	Depth, Level (Thickness)	Legend
			Casing	Water			
10.50 - 10.60	D20				As sheet 1	(2.70)	
11.20 - 11.65	U21	57 blows	3.00	dry			
11.65 - 11.80	D22						
12.50 - 12.60	D23				Very stiff dark grey brown slightly sandy CLAY. Sand is light brown and fine and found within medium gravel sized pockets and partings. (LONDON CLAY FORMATION)	12.00 +9.25	
12.70 - 13.15	U24	51 blows	3.00	dry			
13.15 - 13.30	D25						
14.00 - 14.10	D26						
14.20 - 14.65	D27	S.N=26 2,4/6,6,7,7	3.00	dry			
15.00 - 15.10	D28						
15.70 - 16.15	U29	64 blows	3.00	dry			
16.15 - 16.30	D30						
16.60 - 16.70	D31						
17.20 - 17.65	U32	70 blows	3.00	dry			
17.65 - 17.80	D33						
18.20 - 18.40	D34						
18.70 - 19.15	D35	S.N=30 4,8/7,7,8,8	3.00	dry	16.00-20.00m: with occasional fine to medium and occasionally coarse gravel sized shell fragments.	(8.00pen)	
23/08/2000						20.00 +1.25	
BOREHOLE ENDS AT 20.00 m.							

Groundwater No. Struck Behaviour 1 15.60 Rising to 15.40 after 20 mins.	Remarks
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Notes : For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1 : 50	Project PROPOSED OFFICE DEVELOPMENT EASTERN ROAD, BRACKNELL Project no. 140215 Carried out for John B Reed Ltd	Borehole BH3 Sheet 2 of 2
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03/09/2000 12:19:37

Borehole Log



Soil Mechanics

Drilled by IS Logged by SJD Checked by CB	Equipment and Methods Inspection Pit from 0.00m to 1.20m. Cable Percussion 150 mm diameter from 1.20m to 10.30m.	Ground Level +20.89 m Coordinates
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Samples and Tests				Strata			
Depth	Type & No.	Records	Date Casing	Time Water	Description	Depth, Level (Thickness)	Legend
			23/08/2000		CONCRETE**		
0.35 - 0.50	D1				Compacted sand and gravel with some roots**	0.20 +20.89	
0.50 - 1.00	B2					0.35 +20.54	
						0.50 +20.39	
1.20 - 1.65	U3	11 blows	1.20	dry	Light brown very sandy GRAVEL. Gravel is angular to subangular fine to coarse flint and concrete. (MADE GROUND)		
1.65 - 1.80	D4					(2.50)	
2.20 - 2.85	U5	27 blows			Firm to stiff light grey mottled orange brown sandy CLAY. (LONDON CLAY FORMATION)		
2.65 - 2.80	D6						
3.20 - 3.65	D7	S.N=9 1,2/2,2,3,2	3.00	dry		3.00 +17.89	
4.00 - 4.10	D8						
4.20 - 4.65	U9	29 blows	3.00	dry			
4.65 - 4.80	D10						
5.20 - 5.65	U11	31 blows	3.00	dry			
5.65 - 5.80	D12				Stiff grey fissured slightly sandy CLAY with occasional fine to medium sand sized selenite crystals. Fissures are very closely spaced and randomly orientated. Sand is fine yellow brown and found within partings. (LONDON CLAY FORMATION)	(6.00)	
6.00 - 6.10	D13						
6.70 - 7.15	D14	S.N=16 2,4/4,5,3,4	3.00	dry			
7.50 - 7.60	D15						
8.20 - 8.65	U16	46 blows	3.00	dry	At 8.50m: becoming very stiff with some whole shells.		
8.65 - 8.80	D17						
9.00 - 9.10	D18						
9.70 - 10.15	U19	47 blows	3.00	dry	Very stiff grey fissured slightly sandy CLAY with some whole shells and shell fragments. Fissures are very closely spaced and random. (LONDON CLAY FORMATION)	9.00 +11.89 (1.30)	

Groundwater No groundwater observed	Remarks 1. Gas standpipe (50mm) installed to 6.00m. 2. ** Denotes drillers description.
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Notes : For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1 : 50	Project PROPOSED OFFICE DEVELOPMENT EASTERN ROAD, BRACKNELL Project no. 140215 Carried out for John B Reed Ltd	Borehole BH4 Sheet 1 of 2
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03/09/2000 12:19:58

Borehole Log



Soil Mechanics

Drilled by IS Logged by SJD Checked by CB	Equipment and Methods Inspection Pit from 0.00m to 1.20m. Cable Percussion 150 mm diameter from 1.20m to 10.30m.	Ground Level +20.89 m Coordinates					
Samples and Tests			Strata				
Depth	Type & No.	Records	Date Casing	Time Water	Description	Depth, Level (Thickness)	Legend
10.15 - 10.30 	D20		23/08/2000		As sheet 1 ----- BOREHOLE ENDS AT 10.30 m.	(1.30pen) 10.30 +10.59 	
Groundwater				Remarks			
Notes : For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1 : 50			Project PROPOSED OFFICE DEVELOPMENT EASTERN ROAD, BRACKNELL Project no. 140215 Carried out for John B Reed Ltd			Borehole BH4 Sheet 2 of 2	

03/09/2000 12:20:09

Borehole Log



Soil Mechanics

Drilled by IS Logged by SJD Checked by CB		Equipment and Methods Inspection Pit from 0.00m to 1.20m. Cable Percussion 150 mm diameter from 1.20m to 19.30m.			Ground Level Coordinates +20.31 m		
Samples and Tests				Strata			
Depth	Type & No.	Records	Date Casing	Time Water	Description	Depth, Level (Thickness)	Legend
0.50 - 1.00	B1		28/06/2000		TOPSOIL** Brick and clay stone fill ** (MADE GROUND)	0.10 +20.21 (0.40) 0.50 +19.81	
1.20 - 1.65	D2	S.N=7 1,2,2,1,2,2			Firm to stiff orange brown mottled light grey slightly sandy CLAY with occasional root remains (LONDON CLAY FORMATION)	(2.50)	
2.20 - 2.65	U3	18 blows					
2.65 - 2.80	D4						
3.20 - 3.65	U5	21 blows	3.00	dry		3.00 +17.31	
3.65 - 3.80	D6						
4.20 - 4.65	D7	S.N=14 2,2/3,4,4,3	3.00	dry			
5.20 - 5.65	U8	27 blows					
5.65 - 5.80	D9				Stiff grey slightly sandy CLAY with occasional fine to medium sand sized selenite. Sand is found within occasional partings. (LONDON CLAY FORMATION)	(6.00)	
6.70 - 7.15	U10	34 blows					
7.15 - 7.30	D11						
8.20 - 8.65	D12	S.N=23 3,4/6,5,6,6	3.00	dry			
9.00 - 9.10	D13				Very stiff grey slightly sandy slightly gravelly CLAY with occasional fine to medium sand sized selenite. Gravel is rounded medium to coarse flint. Sand is light brown and fine and located within lenses and partings. (LONDON CLAY FORMATION)	9.00 +11.31	
9.70 - 10.15	U14	41 blows				(3.00)	
Groundwater No. Struck Behaviour				Remarks 1. Borehole backfilled with arisings. 2. Gas monitoring probe installed to 0.90m adjacent to borehole.			
Notes : For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1 : 50			Project Project no. Carried out for		PROPOSED OFFICE DEVELOPMENT EASTERN ROAD, BRACKNELL 140215 John B Reed Ltd		Borehole BH5 Sheet 1 of 2

03/09/2000 12:20:29

Borehole Log



Soil Mechanics

Drilled by IS Logged by SJD Checked by CB	Equipment and Methods Inspection Pit from 0.00m to 1.20m. Cable Percussion 150 mm diameter from 1.20m to 19.30m.	Ground Level +20.31 m Coordinates
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Samples and Tests				Strata				
Depth	Type & No.	Records	Date	Time	Description	Depth, Level (Thickness)	Legend	
			Casing	Water				
10.15 - 10.30	D15				As sheet 1	(3.00)		
10.50 - 10.60	D16							
11.20 - 11.65	U17	44 blows	3.00	dry				
11.65 - 11.80	D18							
			27/06/2000			12.00 +8.31		
12.50 - 12.60	D19	S.N=23 3,7/6,6,5,6			Very stiff grey slightly sandy CLAY with occasional fine gravel sized shell fragments and fine to medium sand sized selenite crystals. Sand is light brown and fine and found within partings. (LONDON CLAY FORMATION)	(5.10)		
12.70 - 13.15	D20							
13.60 - 13.70	D21							
14.20 - 14.65	U22	47 blows	3.00	dry				
14.65 - 14.80	D23							
15.10 - 15.20	D24							
15.70 - 16.15	U25	39 blows	3.00	dry				
16.15 - 16.30	D26							
16.90 - 17.00	D27							
17.20 - 17.65	D28	S.N=34 5,7/7,8,9,10	3.00	dry				16.90-17.10m: moderately weak claystone fragments.
18.30 - 18.40	D29							(2.20pen)
18.70 - 19.15	U30	61 blows	3.00	dry	Very stiff dark green grey fissured CLAY with occasional fine to medium sand sized selenite and fine gravel sized shell fragments. Fissures are very closely spaced tight and undulose. (LONDON CLAY FORMATION)			
19.15 - 19.30	D31		27/06/2000					
BOREHOLE ENDS AT 19.30 m.						19.30 +1.01		

Groundwater No. Struck Behaviour 1 15.80 Rising to 15.60 after 20 mins.	Remarks
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Notes : For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1 : 50	Project PROPOSED OFFICE DEVELOPMENT EASTERN ROAD, BRACKNELL Project no. 140215 Carried out for John B Reed Ltd	Borehole BH5 Sheet 2 of 2
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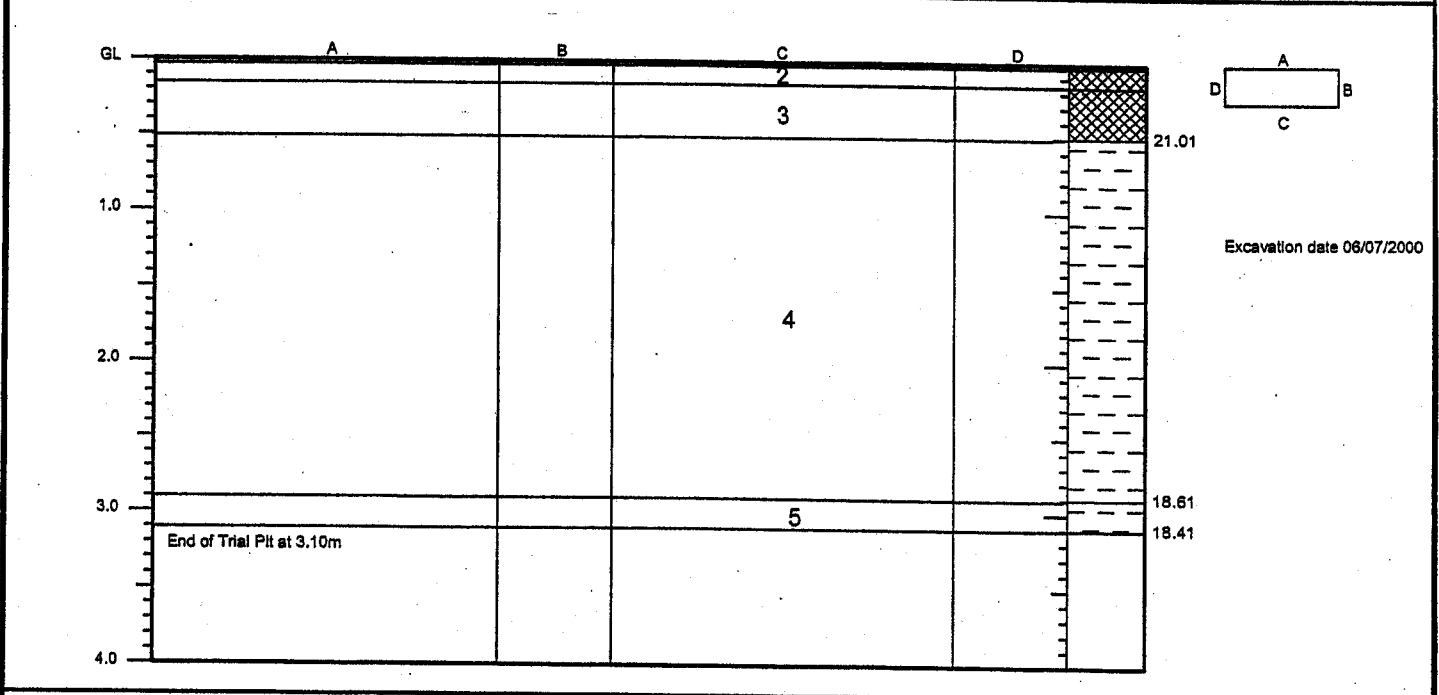
03/09/2000 12:20:47

Trial Pit Log



Soil Mechanics

Logged by CB Checked by SS	Equipment and Methods Machine excavated Trial Pit from 0.00m to 3.10m. Pit dimensions: 0.90m by 1.60m.	Ground Level +21.51 m Coordinates
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Samples and Tests			Strata		
Depth (m)	Type & No.	Records	Depth (m)	No.	Description
0.00-0.15	B1		0.00-0.03	1	Grey and black sandy GRAVEL. Gravel is medium to coarse subrounded to rounded flint. With frequent rootlets and leaf matter. (MADE GROUND)
0.20-0.40	B2		0.03-0.16	2	Brown and orange brown clayey sandy GRAVEL with a few rootlets. Gravel is subangular to rounded flint. (MADE GROUND)
0.60		HVp 59, 80, 54 HVR 29, 31, 29	0.16-0.50	3	Grey and purple very sandy GRAVEL. Gravel is medium to coarse with occasional cobbles of subangular to rounded flint with occasional brick fragments and concrete, appears compacted. (MADE GROUND)
0.70-0.80	B3		0.50-2.90	4	Firm light grey and orange brown slightly sandy CLAY with occasional rootlets. (LONDON CLAY FORMATION)
1.00		HVp 127, 100, 90 HVR 56, 43, 40			Between 0.50 and 0.80m: occasional rounded flint gravel.
1.20	D4				Below 0.80m: becoming stiff and extremely closely fissured and sandy.
1.70	D5				
2.20	D6				
2.95	D7		2.90-3.10	5	Stiff grey extremely closely fissured slightly sandy CLAY. (LONDON CLAY FORMATION)

Groundwater No groundwater observed	Remarks 1. CBR Mexecon test at 0.60m (%): 0.75, 1.0, 1.0. 2. CBR Mexecon test at 1.10m (%): 3.5, 2.0, 2.5. 3. Support used: none. 4. Stability: generally stable. 5. Excavatability: easy except 0.16-0.50m difficult.
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Notes : For explanation of symbols and abbreviations see key sheet. All depths in metres. Scale 1 : 50	Project Project no. 140215 Carried out for John B Reed Ltd	PROPOSED OFFICE DEVELOPMENT EASTERN ROAD, BRACKNELL 140215 John B Reed Ltd	Trial Pit TP1 Sheet 1 of 1
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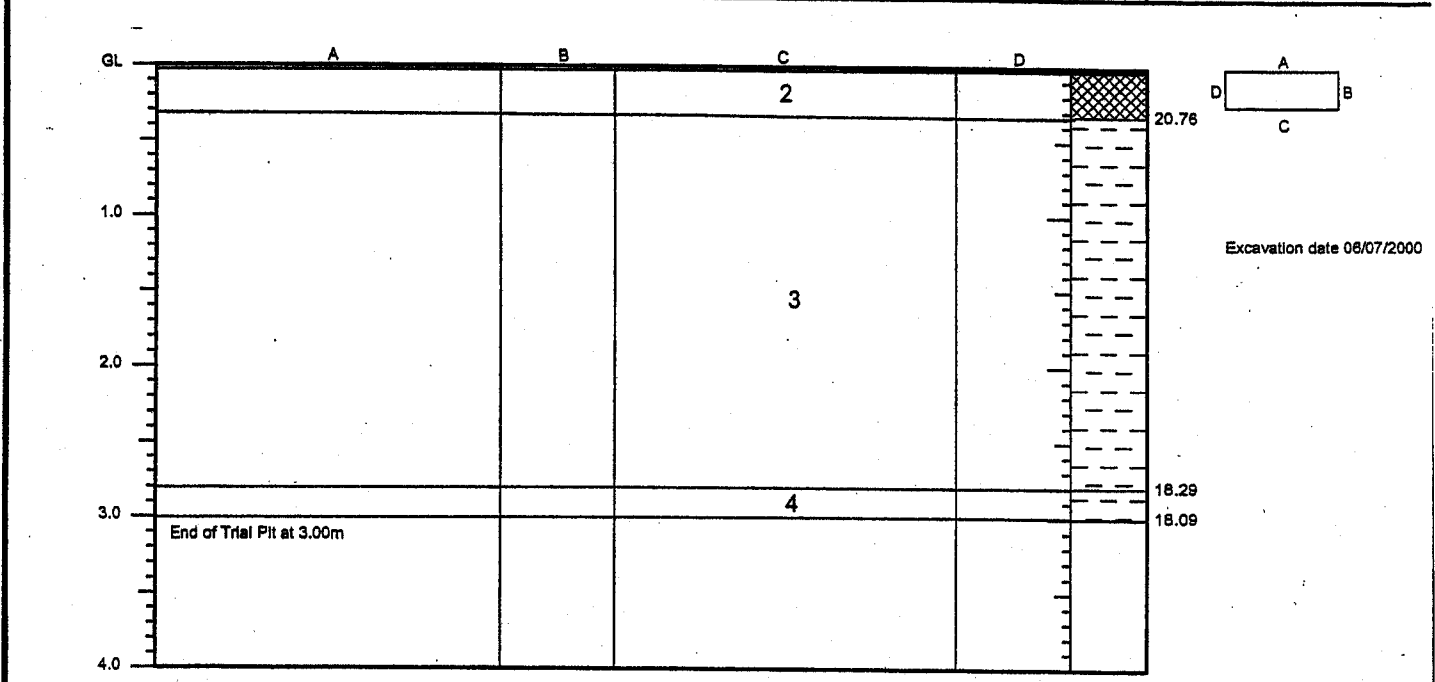
02/09/2000 16:11:56

Trial Pit Log



Soil Mechanics

Logged by CB Checked by SS	Equipment and Methods Machine excavated Trial Pit from 0.00m to 3.00m. Pit dimensions: 0.90m by 1.90m.	Ground Level + 21.09 m Coordinates
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Samples and Tests			Strata		
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Depth (m)	Type & No.	Records	Depth (m)	No.	Description
0.20-0.30	B1	HVp 121, 112, 96 HVR 45, 46, 36	0.00-0.03	1	Grey and black sandy GRAVEL. Gravel is medium to coarse subrounded to rounded flint. With frequent rootlets and leaf matter. (MADE GROUND)
0.30			0.03-0.33	2	Brown and orange brown clayey sandy GRAVEL with occasional rootlets. Gravel is subangular to rounded flint. (MADE GROUND)
0.40	D2		0.33-2.80	3	Stiff fissured orange brown mottled light grey slightly sandy CLAY. Fissures are extremely closely spaced. Occasional rootlets to 1.00m. (LONDON CLAY FORMATION)
0.80-1.00	B3				
1.20	D4				
1.40		HVp 75, 74, 76 HVR 30, 30, 34			Below 0.60m: Becoming slightly sandy to sandy.
1.80	D5				
2.30	D6				
2.70	D7				
2.90	D8		2.80-3.00	4	Stiff to very stiff grey extremely closely fissured slightly sandy CLAY (LONDON CLAY FORMATION)

Groundwater No groundwater observed	Remarks 1. CBR Maxecone test at 0.30m (%): 3.0, 3.0, 3.5. 2. CBR Maxecone test at 1.40m (%): 2.0, 2.0, 2.0. 3. Support used: none. 4. Stability: generally stable. 5. Excavatability: easy.
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Notes : For explanation of symbols and abbreviations see key sheet. All depths in metres. Scale 1 : 50	Project PROPOSED OFFICE DEVELOPMENT EASTERN ROAD, BRACKNELL Project no. 140215 Carried out for John B Reed Ltd	Trial Pit TP2 Sheet 1 of 1
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02/09/2000 16:12:07

Instrument Monitoring



Soil Mechanics

Hole No	Inst Type	Tip Depth (m BGL)	Observation		Depth to Water (m BGL)	Head Above Tip (m)	Remarks
			Date	Time			
BH1	G	6.00	01/08/2000		1.78	4.22	
			14/08/2000		1.80	4.20	
			23/08/2000		1.91	4.09	
			29/08/2000		1.95	4.05	
BH2	G	6.00	01/08/2000		2.15	3.85	
			14/08/2000		2.31	3.69	
			23/08/2000		2.48	3.52	
			29/08/2000		2.48	3.52	
BH3	G	6.00	01/08/2000		2.48	3.52	
			14/08/2000		2.53	3.47	
			23/08/2000		2.85	3.15	
			29/08/2000		2.86	3.14	
BH4	G	6.00	01/08/2000		1.93	4.07	
			14/08/2000		2.02	3.98	
			23/08/2000		2.26	3.74	
			29/08/2000		2.20	3.80	
BH5	G	0.90	23/08/2000				dry
			29/08/2000				dry

Notes
 Type : SP - Standpipe Piezometer, S - Standpipe,
 G - Gas Standpipe, H - Hydraulic,
 R - Remote Readout (Pneumatic, vib. wire, etc)

Project EASTERN ROAD, BRACKNELL
 Project no. 140215
 Carried out for John B Reed Ltd

Sheet 1

Gas Monitoring



Soil Mechanics

Hole	Tip Depth (m BGL)	Date	Barometric Pressure (mbars)	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	Flow Rate (l/h)	Comments	
BH1	6.00	01.08.00	1002	0.0	0.3	18.5	-		
		14.08.00	999	0.0	2.0	17.4	-		
		23.08.00	1017	0.0	0.1	20.4	-		
		29.08.00	1014	0.0	0.1	20.6	-		
BH2	6.00	01.08.00	1002	0.0	2.0	0.5	-		
		14.08.00	999	0.0	2.5	0.6	-		
		23.08.00	1017	0.0	2.9	1.5	-		
		29.08.00	1014	0.0	3.4	2.3	-		
BH3	6.00	01.08.00	1002	0.0	0.0	18.5	-		
		14.08.00	999	0.0	0.0	18.4	-		
		23.08.00	1017	0.0	0.2	19.7	-		
		29.08.00	1014	0.0	0.3	20.1	-		
BH4	6.00	01.08.00	1002	0.0	0.0	18.9	-		
		14.08.00	999	0.0	0.1	18.9	-		
		23.08.00	1017	0.0	0.0	20.2	-		
		29.08.00	1014	0.0	0.0	20.3	-		
BH5	0.90	23.08.00	1017	0.0	0.0	20.3	-		
		29.08.00	1014	0.0	0.0	20.5	-		
Notes Geotechnical Instruments GA-94 Gas Monitor used.			Project EASTERN ROAD, BRACKNELL					Figure	
			Project no. 140215						
			Carried out for John B Reed Ltd						