



[illegible]

 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI - CONTRACT 2		Borehole Number RC1257	
Boring Method Cable Percussion		Casing Diameter 140mm cased to 15.00m		Ground Level (mOD) 125.20		Client Highways Agency		Job Number WAL060099	
		Location 444700 E 357999 N		Dates 08/11/2006		Engineer Arup		Sheet 2/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(16.00)			
16.00					109.20	16.00	Generally weak to moderately weak (variably very weak) thinly laminated dark grey MUDDSTONE with occasional carbonised plant remains and rare subrounded coarse gravel size ironstone nodules. Fractures: where evident horizontal, very closely to closely spaced, smooth, planar, open, occasionally with soft slightly gravelly clay infill (up to 12mm), subvertical (70 degrees), smooth, planar. Between 16.10m and 16.60m; generally non-intact.		
16.60	97	49	14	0	P1				
17.50-17.68 17.50					/30,41,29 SPT 0'/0 100/177				
18.10-18.31	67	13	0	0	U2	(5.10)	Between 18.50m and 20.50m; structure frequently lost, generally very weak to weak.		
19.00-19.19 19.00					/26,39,35 SPT 0'/0 100/186				
	93	24	7	0					
Remarks								Scale (approx) 1:50	Logged By TL
								Figure No.	



 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI-CONTRACT 2			Borehole Number RC1257	
Machine: Flush : Core Dia: mm Method :		Casing Diameter 140mm cased to 15.00m		Ground Level (mOD) 125.20		Client Highways Agency		Job Number WAL060099		
		Location 444700 E 357999 N		Dates 08/11/2006		Engineer Arup		Sheet 3/3		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
20.50-20.51 20.50 20.60					/50 SPT 0'/0 50/6 P3		(5.10)	Between 20.50m and 20.60m; thin bed of strong siltstone.		
21.30			0	0		104.10 103.90	21.10 (0.20) 21.30	Recovered non-intact as weak brittle black COAL.		
22.00-22.15 22.00 22.10	95	40	28	0	/37,55,8 SPT 0'/0 100/153		(0.80)	Very weak becoming moderately weak to weak light grey MUDSTONE with frequent carbonised plant remains. Fractures: where evident very closely spaced, random, irregular.		
23.50-23.59 23.50					/57,43 SPT 0'/0 100/92					
24.00-24.25	100	77	52	0	U4		(3.90)			
25.00-25.00 25.00					/50 SPT 0'/0 50/4					
26.00 26.50-26.75 26.50-26.51 26.50	100	87	79	0	U5 /50 SPT 0'/0 50/7	99.20	26.00	Generally moderately strong (variably moderately weak) dark grey thinly laminated MUDSTONE, thinly interbedded with moderately strong to strong light and dark grey thinly colour laminated siltstone. Fractures: horizontal (0 degrees to 15 degrees), closely and medium spaced, smooth, planar, occasionally with grey silt infill (up to 2mm); subvertical (75 degrees), smooth, planar to irregular.		
28.00-28.00 28.00 28.00-28.30	100	62	33	0	/50 SPT 0'/0 50/2 U6		(3.50)			
					08/11/2006: 08/11/2006:	95.70	29.50	Between 29.00m and 29.50m; 1 no vertical fracture.		
Remarks								Scale (approx) 1:50	Logged By TL	Figure No.