

 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2		Borehole Number RC1237		
Machine: Flush : Core Dia: mm Method :		Casing Diameter 140mm cased to 3.00m		Ground Level (mOD) 94.80		Client Highways Agency		Job Number WAL060099		
		Location 444677 E 371240 N		Dates 25/09/2006- 26/09/2006		Engineer Arup		Sheet 1/3		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00			0	0	Groundwater was not apparent during boring(1) at 0.00m.			Inspection pit.		▽1
	33	33	0	0			(1.20)			
1.35						93.60	1.20 (0.15)	Open hole.		
	38	21	0	0		93.45	1.35	Poor recovery. Firm to very stiff thinly laminated light grey white mottled orange brown slightly gravelly SILT/CLAY. Gravel is subangular fine to coarse of very weak siltstone. Possible		
					5.6/5.5,6.6 SPT N=22		(1.40)			
2.85-3.30						92.05	2.75	Approximate boundary.		
2.85								Poor recovery. Stiff grey mottled orange brown (locally slightly sandy) slightly gravelly CLAY. Gravel is angular to subangular fine and medium of very weak mudstone and siltstone. Possible		
	65	60	0	0			(2.10)			
4.35-4.80					7.6/6.5,7.7 SPT N=25					
4.35										
4.75					P1	89.95	4.85	Approximate boundary.		
	78	63	0	0				Very weak dark grey very weathered MUDSTONE, variably recovered as stiff friable thinly laminated clay. Weathering: structure very frequent lost. Fractures: where evident horizontal, extremely closely spaced, incipient and irregular.		
5.85							(2.35)			
			0	0						
7.05					P2 2.8/9,10,9,10 SPT N=38	87.60	7.20 (0.20)	Recovered non-intact as very weak black carbonaceous MUDSTONE, thinly interlaminated with weak brittle black coal.		
7.30-7.75	89	80	0	0		87.40	7.40			
7.20			0	0						
7.30										
7.40										
8.10	96	86	8	0	P3			Generally weak (variably very weak and rarely moderately weak) thinly and thickly laminated SILTSTONE grey occasionally colour laminated dark grey with rare carbonised plant remains (5 x 20mm). Fractures: horizontal (0 degrees to 15 degrees), very closely and closely spaced, smooth, planar, tight; others, generally subhorizontal and subvertical, extremely closely to closely spaced and irregular.		
9.05					P4			Between 7.40m and 7.60m; recovered as firm dark grey gravelly clay.		
8.80			0	0				Between 8.60m and 8.95m; non-intact.		
8.95							(3.50)	At 8.90m; subrounded coarse gravel size moderately strong ironstone nodule.		
9.90	100	87	14	0	P5					
Remarks								Scale (approx) 1:50	Logged By TL	
								Figure No.		

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Boring Method Cable Percussion		Casing Diameter 140mm cased to 3.00m		Ground Level (mOD) 94.80		Client Highways Agency			Job Number WAL060099	
		Location 444677 E 371240 N		Dates 25/09/2006- 26/09/2006		Engineer Arup			Sheet 3/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
19.45 20.50	P13 P14			26/09/2006: 26/09/2006: 26/09/2006:	74.00	(1.80) 20.80	degrees to 25 degrees), very closely and closely spaced, smooth, planar; subvertical, smooth planar, open; At 20.40m; very thin bed of moderately strong ironstone (35mm). occasional others generally vertical and irregular. Complete at 20.80m Complete at 20.80m			
Remarks							Scale (approx) 1:50	Logged By TL	Figure No.	