









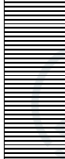
 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						W201		Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI - CONTRACT 2		Borehole Number RC1202		
Machine: Flush : Core Dia: mm Method :			Casing Diameter 140mm cased to 3.00m			Ground Level (mOD) 175.25		Client Highways Agency		Job Number WAL060099		
			Location 444816 E 360281 N			Dates 13/11/2006		Engineer Arup		Sheet 1/2		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water	
0.00	PIT		0	0	Groundwater was not apparent during boring(1) at 0.00m. B1 C1 B2 K2			TOPSOIL. Dark brown sandy slightly gravelly to gravelly clay with frequent becoming occasional rootlets. Gravel is angular to subangular fine and medium of sandstone and mudstone.			√1	
0.00-0.50 0.50 0.50-1.20 0.70	28	0	0	0			(1.20)					
1.20-1.58 1.20						25/2,2,3,4 SPT 25'/75 N=11	174.05	1.20	Poor recovery. Possible MADE GROUND. Light yellow brown with some light grey mottling slightly sandy clay with subangular to subrounded medium to coarse gravel sized fragments of sandstone and carbonaceous mudstone. Sand is fine and medium. Possible			
2.50-2.88 2.50 2.50	47	0	0	0		25/3,2,2,5 SPT 25'/75 N=12 D5		(2.48)				
4.00 3.68					D6							
4.00-4.33 4.00	100	0	0	0	25/16,10,29,50 SPT 25'/75 105/256	171.57	3.68	Weak locally very weak and moderately weak light grey brown SILTSTONE. Discontinuities are extremely closely to very closely spaced randomly orientated smooth and rough with some clay coating <1mm and some black staining.				
4.22						171.03	4.22	Weak locally very weak and moderately weak light grey and light brown MUDSTONE. Fractures are subhorizontal (25 degrees) smooth, stained black. Vertical fractures are planar, smooth with some clay infill 1mm thick and some black staining. Randomly orientated fractures are extremely closely to closely spaced rough and smooth with some clay coating <1mm.				
5.50-5.62 5.50 5.50					25/50 SPT 25'/75 50/47 D7		(2.68)					
6.00								From 6.00m to 6.90m; with occasional fossilized plant traces and occasional thin coal laminae.				
7.10-7.38 6.90 6.90					U2 P1							
7.10-7.20 7.10 7.20	89	86	60	0	25/50 SPT 25'/75 50/21	168.35	6.90	From 6.90m to 7.20m; moderately strong slightly micaceous siltstone with occasional fossilised plant remains. Moderately strong light brown fine grained SANDSTONE. Fractures are medium spaced subhorizontal rough with occasional clay coating <1mm and with some iron staining.				
8.25												
8.60 8.70-8.81 8.70 9.00	100	55	16	0	25/50 P3 SPT 25'/75 50/37 W401	167.00	8.25	Moderately weak locally moderately strong grey SILTSTONE. Fractures are extremely closely to closely spaced horizontal and subhorizontal smooth and rough with some black and orange staining. With occasional clay coating <1mm thick.				
								From 8.55m to 8.75m; assumed zone of core loss. From 8.70m to 9.50m locally thinly interlaminated with mudstone.				
	94	27	11	0			(3.00)					
Remarks										Scale (approx) 1:50	Logged By OP	
										Figure No.		



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Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.25			0	0	25/7, 9, 9, 11 SPT 25'/75 N=36		(3.00)	SILTSTONE (as previous sheet)		
11.25	59	0	0	0		164.00	11.25	Weak (variably very weak to moderately weak) grey MUDSTONE. Horizontal fractures are extremely closely to closely spaced smooth, generally clean. Randomly orientated microfractures are extremely closely spaced. Vertical to subvertical fractures are rough with occasional clay infill <1mm.		
11.80 11.80-12.18	63	20	6	0			(3.60)			
13.25	Sample / Tests		Casing Depth (m)	Water Depth (m)						
13.25 13.55	D8 P4					160.40	14.85	Complete at 14.85m		
					13/11/2006: 13/11/2006:					
Remarks										
									Scale (approx) 1:50	Logged By OP
									Figure No.	