




[illegible]



 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2			Borehole Number RC1212	
Machine: Flush : Core Dia: mm Method :		Casing Diameter 140mm cased to 10.00m		Ground Level (mOD) 136.30		Client Highways Agency		Job Number WAL060099A		
		Location 445210 E 362588 N		Dates 31/10/2006- 01/11/2006		Engineer Arup		Sheet 2/3		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.80						125.50	10.80	Stiff mottled grey, orange and brown slightly sandy CLAY with subrounded fine and medium lithorelics of very weak mudstone. Sand is fine.		
	40	0	0	0		124.80	11.50	Very weak, laminated to very thinly bedded grey MUDSTONE, locally firm to stiff grey clay, with occasional thin beds of moderately weak fine grained sandstone. Fractures are extremely closely to closely spaced, randomly orientated, generally, tight, irregular and smooth.		
13.00 13.00-13.38					6,10/24,28,30 SPT 82/225					
	100	53	0	0			(4.50)	Between 13.50m and 13.70m; band of grey fine grained sandstone.		
14.50 14.50-14.54					/100 SPT 0*/0 100/40					
			0	0						
15.50	83	70	8	0				Between 15.50m and 15.90m; becoming dark grey carbonaceous mudstone with thin laminae of coal.		
16.00 16.00-16.01 16.10					/100 SPT 0*/0 100/14 P1	120.30	16.00	Moderately strong thinly to thickly laminated MUDSTONE with occasional extremely closely spaced thin laminae of light grey siltstone. With occasional bands of angular coarse ironstone gravel and carbonised plant remains. Fractures are subhorizontal, very closely to closely spaced, generally open, irregular and slightly rough.		
	23	0	0	0			(1.85)	At 16.85m; band of ironstone gravel. Between 16.90m and 17.00m; very weak weathered grey mudstone.		
17.50			0	0	/39,61 31/10/2006:					
17.50-17.58 17.85					31/10/2006: SPT 0*/0 100/82 31/10/2006:	118.45	17.85	No recovery.		
	87	67	0	0	01/11/2006:		(1.15)			
19.00						117.30	19.00	Weak to moderately weak indistinctly bedded black carbonaceous MUDSTONE with extremely closely spaced thin laminae of coal. Fractures are horizontal, very closely spaced, tight, planar and smooth.		
						116.90	19.40	Very weak, laminated to very thinly bedded grey MUDSTONE, locally firm to stiff grey clay, with occasional thin beds of moderately weak fine grained sandstone.		
Remarks								Scale (approx) 1:50	Logged By SM	
								Figure No.		



 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2		Borehole Number RC1212	
Boring Method Cable Percussion		Casing Diameter 140mm cased to 10.00m		Ground Level (mOD) 136.30		Client Highways Agency		Job Number WAL060099A	
		Location 445210 E 362588 N		Dates 31/10/2006- 01/11/2006		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
19.40	P2			01/11/2006: 01/11/2006: 01/11/2006:	115.80	(1.10) 20.50	Fractures are extremely closely to closely spaced, randomly orientated, generally, tight, irregular and smooth. Complete at 20.50m		
Remarks							Scale (approx) 1:50	Logged By SM	
							Figure No.		