



 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2			Borehole Number RC1210	
Machine: Flush : Core Dia: mm Method :		Casing Diameter 140mm cased to 1.20m		Ground Level (mOD) 154.30		Client Highways Agency		Job Number WAL060099		
		Location 445019 E 361941 N		Dates 06/11/2006- 07/11/2006		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.			Inspection Pit.		▽1
	0	0	0	0			(1.20)			
1.20						153.10	1.20	No recovery.		
	100	0	0	0			(0.80)			
2.00-2.45 2.00					1,1/2,2,2,2 SPT N=8	152.30	2.00	Firm mottled light brown and light grey slightly gravelly CLAY. Gravel is angular to subangular, fine to coarse of mudstone and ironstone.		
	33	0	0	0			(1.00)			
3.00-3.45 3.00					1/1,2,2,3 SPT N=8	151.30	3.00	Poor recovery. Recovered as firm mottled light brown and light grey slightly gravelly CLAY. Gravel is angular to subangular, fine to coarse of mudstone and ironstone.		
	67	0	0	0			(2.00)			
4.50-4.95 4.50					4,5/8,8,10,11 SPT N=37					
			0	0						
5.00						149.30	5.00	Stiff clay to very weak grey MUDSTONE. Discontinuities: extremely closely spaced randomly orientated microfractures with much black and orange staining.		
	93	50	9	0			(1.26)			
6.00-6.45 6.00					1,4/4,10,8,10 SPT N=32					
			0	0						
6.26						148.04	6.26	Very weak to weak grey MUDSTONE. Discontinuities: extremely closely to closely spaced, horizontal and subhorizontal, rough and smooth, with orange and black discolouration and occasional clay infill <1mm thick. Vertical, rough, occasionally stepped, with some orange and black discolouration.		
	98	67	0	0						
7.30					P1 25/35,15					
7.50-7.68 7.50					SPT 25'/75 50/108					
							(3.39)			
	47	18	0	0						
9.00-9.17 9.00 9.00					25/36,14 SPT 25'/75 50/93 P2			From 9.00m; slightly micaceous.		
			0	0						
9.65						144.65	9.65	Assumed zone of core loss.		
Remarks								Scale (approx) 1:50	Logged By OP/TL	
								Figure No.		

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Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
10.50	65	45	35	0	25/50 06/11/2006: DRY		(1.35)				
10.50-10.62			0	0		06/11/2006: SPT 25/75 50/48	143.30	11.00 (0.20)	Recovered non-intact as angular, fine to coarse gravel of carbonaceous MUDSTONE and COAL.		
11.00			0	0	06/11/2006:	143.10	11.20				
11.20					07/11/2006: P3			Moderately weak dark grey MUDSTONE with frequent carbonised fossil plant remains. Fractures: subhorizontal, closely spaced, frequently irregular.			
11.30	94	53	33	0							
12.00			0	0			(1.70)	Between 12.00m and 12.10m; non-intact, subangular to subrounded, medium to coarse gravel of ironstone.			
12.70											
13.15-13.40	67	43	41	0	U4	141.40	12.90	Moderately strong to strong light and dark grey thinly colour laminated micaceous SILTSTONE. Fractures: horizontal, medium spaced, smooth, planar.			
13.50			0	0	U5		(1.60)				
13.65-13.85			0	0							
14.15			0	0				Between 14.15m and 14.50m; non-intact.			
14.50						139.80	14.50 (0.50)	No recovery.			
					07/11/2006: DRY	139.30	15.00	Complete at 15.00m			
					07/11/2006:						
Remarks											
									Scale (approx) 1:50	Logged By OP/TL	
									Figure No.		