

 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2			Borehole Number RC1243	
Machine: Flush : Core Dia: mm Method :		Casing Diameter 140mm cased to 19.30m		Ground Level (mOD) 66.30		Client Highways Agency			Job Number WAL060099A	
		Location 445412 E 373443 N		Dates 21/09/2006- 27/09/2006		Engineer Arup			Sheet 1/4	
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
			0	0			(1.20)			
1.20						65.10	1.20	Open hole.		
Remarks										
								Scale (approx) 1:50	Logged By TL	
								Figure No.		





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			Location 445412 E 373443 N		Dates 21/09/2006- 27/09/2006		Engineer Arup		Sheet 2/4	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
								OPEN HOLE (as previous sheet)		
	98	85	50	0			(20.95)			
					21/09/2006: 21/09/2006: 21/09/2006: 26/09/2006:					
					26/09/2006: 26/09/2006:					
Remarks								Scale (approx) 1:50	Logged By TL	
								Figure No.		



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		Location 445412 E 373443 N		Dates 21/09/2006-27/09/2006		Engineer Arup		Sheet 3/4		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					26/09/2006: 27/09/2006:			OPEN HOLE (as previous sheet) At 21.75m; driller noted rock head.		
22.15			0	0	C1	44.15	22.15 (0.25)	MADE GROUND. Recovered as dark grey brown clayey angular to subrounded medium to coarse gravel of sandstone and ironstone.		
22.40						43.90	22.40	Generally moderately weak (variably weak to moderately strong) light green grey and dark grey black thinly and thickly colour laminated fine grained SANDSTONE. Closely thinly and thickly interlaminated with weak dark grey siltstone and occasional very thin beds of strong light brown ironstone (up to 40mm). Weathering: occasionally weakened by leaching (up to 50mm), generally non-intact and weak; locally closely fractured frequent black discolouration on fracture surfaces. Fractures: horizontal (0 degrees to 10 degrees), medium spaced, smooth, planar and undulating, tight; vertical, rough, undulating.		
22.55-22.93	94	90	64	0			(3.25)	Between 22.60m and 22.95m; flow laminated. Between 23.20m and 23.25m; locally very weak.		
24.45			0	0	P3			Between 24.50m and 24.60m; locally very weak.		
25.10			0	0				Between 24.90m and 25.10m; medium bed of moderately weak dark grey black siltstone with occasional subrounded coarse gravel size ironstone nodules (up to 50mm).		
25.50			0	0		40.65	25.65	Moderately weak dark and light grey thinly and thickly colour laminated SILTSTONE (occasionally very thinly interbedded with fine grained sandstone up to 45mm). Weathering: occasionally weakened by leaching in dark grey zones (up to 150mm), extremely closely to very closely fractured, generally weak. Fractures: horizontal (0 degrees to 10 degrees), closely and medium spaced, smooth, planar and undulating, moderately open.		
25.65			0	0	C2		(2.35)	Between 26.70m and 26.90m; locally weak, extremely closely to very closely spaced.		
26.70			0	0				Between 27.45m and 28.00m; grading to moderately weak light green grey and dark grey black thinly and thickly colour laminated fine grained sandstone.		
26.90	100	94	39	0				Weak to moderately weak dark grey black thinly laminated carbonaceous MUDSTONE with medium spaced very thin beds of strong light brown ironstone (up to 60mm). Fractures: subhorizontal (20 degrees to 30 degrees), closely spaced, smooth, planar, open; subvertical (65 degrees to 70 degrees), apparently closely spaced smooth, planar, open; occasional others irregular, apparently random strike.		
27.00-27.44								At 29.10m; 50mm bed strong brown ironstone.		
27.45			0	0				At 29.40m; 50mm bed strong brown ironstone.		
28.00							(2.45)	At 29.65m; 40mm bed strong brown ironstone.		
								At 29.85m; 60mm bed strong brown ironstone.		
Remarks								Scale (approx) 1:50	Logged By TL	
								Figure No.		



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Boring Method Cable Percussion		Casing Diameter 140mm cased to 19.30m		Ground Level (mOD) 66.30		Client Highways Agency		Job Number WAL060099A		
		Location 445412 E 373443 N		Dates 21/09/2006- 27/09/2006		Engineer Arup		Sheet 4/4		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
28.10 30.30	P4 P5			27/09/2006: 27/09/2006: 27/09/2006:13.96m	35.85	30.45	Complete at 30.45m			
Remarks							Scale (approx) 1:50	Logged By TL	Figure No.	