

	British Geologic			SIL.				Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Boreho Number	r
Machine: Flush :				j Diamet e 40mm ca:	er sed to 9.00m		l Level (mOD) 139.40	Client Highways Agency	Job Number WAL0600	
Core Dia: mm Method:			Locatio		362476 N	Dates 20/10/2006- 24/10/2006		Engineer Arup	Sheet 1/3	-
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.		Z 1
1.20			0	0		138.2	0 1.20	Open Hole. For likely material description, see CP1211.		
1.20			(9)	35)						
36)	91	71	0	0		(<	(8.80)			
10.00			0		20/10/2006: 20/10/2006: 20/10/2006: 23/10/2006:	129.4				
10.00 Remarks					1	129.40	<u>√ 10.00</u>	Scale (approx) Logged	ı
								1:50	TL	
								Figure	No.	



(494) G	ritish ieologica		•	9				Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1211	
Machine: Casing Diameter Flush : 140mm cased to 9.00m						Ground Level (mOD		Client Highways Agency	Job Number WAL06009	
Core Dia: mi	n		Location 445143 E 362476 N			Dates 20/10/2006- 24/10/2006		Engineer	Sheet	
Method :								Arup	2/3	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend Mater	
(5)	100	73	7	0		(4	(1.50)	Completely weathered MUDSTONE, recovered as soft to firm becoming firm to stiff orange brown mottled grey (locally slightly sandy) CLAY with occasional purple brown organic debris.		
11.50 11.50-11.74 12.30	97	76	39	0	25/17,21,12 SPT 25'/75 50/166	127.90	11.50	Generally weak (variably very weak) grey thinly laminated MUDSTONE thinly to medium interbedded with weak to moderately weak grey SILTSTONE. Fractures: subhorizontal (10 degrees to 25 degrees), very closely to medium spaced, smooth, planar and undulating, tight to open, occasionally with soft grey clay infill up to 4mm; vertical (80 degrees to 90 degrees), smooth, undulating, moderately open.		
13.00 13.00-13.22 13.50	100	83	28	0	25/20,30 SPT 25*/75 50/142 P2		(4.40)			
14.45 14.50					P3	(e				
15.50	100	88	79	0	P4	123.50	15.90			
16.00	100	- 00	0	0	P5		(1.10)	Moderately weak (variably moderately strong) dark thinly colour laminated light grey fine grained SANDSTONE locally with frequent very thin black speckling. Fractures: horizontal (5 degrees to 10 degrees), closely to medium spaced, smooth, planar; subvertical (50 degrees to 60 degrees), rough, planar.		
17.00 17.40 17.50 17.50-17.64	100	60	30	0	P6 25/50 SPT 25*/75	122.40	17.00	Generally moderately weak (variably weak and moderately strong) dark grey SILTSTONE with frequent partially decomposed organic debris. Thinly to medium interbedded with weak to moderately weak thinly laminated dark grey mudstone. Fractures: horizontal (0 degrees to 15 degrees), very closely and closely spaced, smooth, planar and		
17.75	100	95	45	0	50/64 P7		(2.00)	undulating; vertical, smooth, undulating to irregular; others random, irregular.		
19.00 19.60-19.90					U8	120.40	19.00	Generally moderately weak (variably moderately strong) light and dark grey thinly colour and cross colour laminated SILTSTONE thinly to medium interbedded with moderately strong light grey fine grained sandstone with thin wispy black interlaminae. Fractures: subhorizontal (15 degrees to 30 degrees), closely spaced, smooth, planar; subvertical to vertical (60 degrees to 85 degrees), smooth, planar and	x x x x x x x x x x x x x x x x x x x	
Remarks								Scale	Logged	
								(approx)	-	
								1:50	TL.	
								Figure	NO.	



	British Geologica NATURAL ENVIRO			L		Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI - CONTRACT 2	Borehole Number RC1211			
Flush : Core Dia: mm			Casing Diameter 140mm cased to 9.00m Location 445143 E 362476 N			Ground Level (mOD) 139.40 Dates 20/10/2006- 24/10/2006		Client Highways Agency Engineer Arup		oer 80099
										Sheet 3/3
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
	100	95	55	0	23/10/2006:18.12m 23/10/2006: 23/10/2006:DRY 24/10/2006:	(<		undulating, moderately open; occasionally others, irregular, apparently random strike.		× × × × × × × × × × × × × × × × × × ×
21.40 21.50 22.00	100	95	70	0	P9			Between 21.60m and 22.00m; sandstone.	X X X X X X X X X X X X X X X X X X X	t (((((((((((((((((((
22.80	100	95	35	0	P10		(6.00)	(AC)	X X X X X X X X X X X X X X X X X X X	× I
23.50			0	0				Between 23.20m and 23.50m; sandstone.	X X X X X X X X X X X X X X X X X X X	×××××××××××××××××××××××××××××××××××××××
24.30 24.50	Sample /	Tests	0 Casing Depth (m)	0				Between 24.30m and 24.50m; medium bed of moderately weak dark grey mudstone; fractures are subvertical, closely spaced, smooth and subhorizontal, very closely spaced. Between 24.50m and 25.00m; sandstone.	X X X X X X X X X X X X X X X X X X X	×××××××××××××××××××××××××××××××××××××××
24.60	P11				24/10/2006: 24/10/2006:	114.40	25.00	Complete at 25.00m	*****	
			(D)							
						(e			(
Remarks				61			<u> </u>	Scale (approx		
								1:50 Figure	No.	-