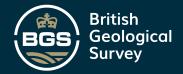


	British Geological		-	55)				Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Boreh Numb RC12	er
Machine: Flush :				Diamete Omm cas	r ed to 3.00m		Level (mOD) 92.20	Client Highways Agency	Job Numb WAL06	
Core Dia: m	nm		Locatio		69785 N		/02/2007- /02/2007	Engineer Arup	Sheet	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00	PIT		0	0		(8	(1.20)	Inspection Pit.		
1.20	58	0	0	0		91.00	(1.80)	Open Hole.		
3.00	100	3	0	0		89.20 88.57	3.00	Assumed zone of core loss. Stiff to hard, light grey extremely closely fissured CLAY.		
4.50-4.82 4.50 4.94 5.06			0 0	0	25/19,27,33,50 SPT 25 ⁴ /75 129/243	87.14	5.06	Below 4.94m; stiff clay to very weak dark grey and black carbonaceous mudstone.		
6.15 5.50 6.00-6.16 5.85 6.00 6.05	100	33	0 14 0 0	0 0 0 0	P1 25/39,50 SPT 25 ¹ /75 89/85	86.35	5.85	Weak and very weak grey SILTSTONE (locally stiff clay), with occasional to some fossilised plant remains. Discontinuities: randomly orientated, extremely closely spaced, rough, some slightly polished microfractures. Moderately strong, light grey fine grained SANDSTONE thinly interlaminated to very thinly interbedded with grey siltstone. With occasional fine to medium gravel sized ironstone nodules. Discontinuities: closely spaced,	**************************************	
6.60 7.40 7.50	93	18	0	0	P2	85.60	6.60	At 6.45m; thick lamination of ironstone. horizontal and subhorizontal, rough, with clay coating up to 2mm thick. Vertical, rough, clean. Very weak and weak, grey thickly and thinly interbedded MUDSTONE and SILTSTONE, with very closely to medium spaced thin laminae and very thin beds of ironstone. Some orange brown discolouration. Occasionally weathered to firm clay. Discontinuities: randomly orientated most		
8.80	100	20	0	0	Р3		(3.60)	commonly vertical and horizontal, extremely closely spaced, smooth and rough, some orange staining. Extremely closely to closely spaced, horizontal and subhorizontal, smooth, clean. Closely to medium spaced, 45 degrees, rough, clear		
9.00			0	0						
Remarks			(B)	36)				Scale (approx) 1:50 Figure	ОР	ed



	British Geologica ATURAL EMVIRO		-	IL.				Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Boreh Numb RC12	er
Machine:				Diamete			Level (mOD)		Job Numb	er
Flush :			14	0mm cas	sed to 3.00m		92.20	Highways Agency	WAL06	009
Core Dia: m Method :	m		Locatio	n		Dates 02	2/02/2007-	Engineer	Sheet	:
ivietilou .			44	4878 E 3	369785 N		5/02/2007	Arup	2/3	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
91						82.00	(3.60)			
10.20	100	30	18	0		02.00	10.20	Weak, variably stiff clay, grey MUDSTONE. Discontinuities: locally randomly orientated, generally vertical and horizontal,		
10.50					02/02/2007:DRY			extremely closely spaced, rough and smooth, clean. From 10.65m to 11.00m; discontinuities are horizontal		
			0	0	02/02/2007: 02/02/2007:		(1.30)	and subhorizontal, very closely to closely spaced, rough and smooth with occasional clay infill up to 2mm thick.		
12.05					05/02/2007:	-	E			
10.65					P4	80.70	11.50	West and an electric transfer to the design of the second		
11.50	100	57	17	0			E	Weak and moderately weak locally clay, dark grey, slightly carbonaceous, MUDSTONE. Discontinuities: extremely closely to closely spaced, horizontal and subhorizontal.		
12.00					-		_	smooth, generally clean. Vertical, undulating smooth, clean.		
12.10					P5		E			
	33	31	7	0						
							(3.50)			
13.50					25/31,50			From 13.53m to 13.59m; ironstone.		
13.50-13.68					SPT 25*/75 81/102		Ē	From 13.59m to 13.70m; black and very carbonaceous. From 13.70m to 14.15m; grey non carbonaceous.		
14.00			l		P6					
91	93	35	15	0				5 4405 4 4400 11 1		
<i>''</i>								From 14.35m to 14.80m; black and very carbonaceous.		
15.00						77.20	15.00	Moderately weak, variably stiff clay to very weak, grey,		
							Ė	MUDSTONE, with occasional fossilised plant remains. Discontinuities: where weathered, randomly orientated,		
								extremely closely to very closely spaced, smooth and rough clean. Vertical, rough, undulating. Where fresh, horizontal and subhorizontal, rough and smooth, occasional clay infill	,	
15.70	100	60	43	0	P7		-	up to 20mm thick. Widely spaced, subvertical, smooth persistence within the core 50mm to 100mm.		
								At 15.26m; very thin bed of ironstone.		
										▼ 1
16.50					Water strike(1) at 16.50m, no rise		È			
16.55					after 20 mins. P8		E	``		
	0.2	00	47				Ė.	From 17.15m to 17.55m; dark grey and slightly		
	93	23	17	0			E	carbonaceous.		
17.80					P9		E			
18.00					25/36.44.50		(6.00)			
18.00-18.24					SPT 25*/75 130/160					
91										
<i>']</i>	100	48	27	0		10				
							E			
19.50					-		-			
							E			
Remarks					<u> </u>	1		Scale (approx	Logge	₫ed
								(6)		
								1:50	OP	
								Figure	No.	



British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1233	
Boring Method Cable Percussion		Casing Diameter 140mm cased to 3.00m Location			Ground Level (mOD) 92.20 Dates		Client Highways Agency	Job Number WAL06009	
							Engineer		
		444878 E 369785 N			02/02/2007- 05/02/2007		Arup	3/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend &	
3)				05/02/2007:DRY					
0.70	P10					(6.00)	MUDSTONE (as previous sheet)		
.90	P11			05/02/2007:	71.20	21.00			
				05/02/2007:	-	<u> </u>	Complete at 21.00m Complete at 21.00m		
			91			<u>-</u>	(5)		
		10	2				(BC)		
						-			
						=			
()									
						=	(200)		
						=			
								13	
						<u>-</u> - - -			
emarks							Scale (approx	Logged	
							1:50	OP	
							Figure		