

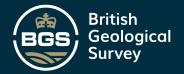
(1911) (	British Geologica ATURAL ENVIRO			ı.			Site M1 WIDENING CONTRACT 2	JUNCTION 21 TO 30 PRELIM	INARY GI -	Borehole Number RC1220A
Machine: Flush :				Diamete	er sed to 24.00m	Ground Level (mO 100.05				Job Number WAL06009
Core Dia: m Method :	m		Locatio		65414 N	Dates 29/01/2007- 31/01/2007	<b>Engineer</b> Arup			Sheet 1/4
Depth (m)	TCR	SCR	RQD	FI FI	Field Records	Level Depth (mOD) (Thicknes		Description		Legend by
0.00	ОН		0	0		(Thicknes	S) Open Hole	Description		Legend M
			(D)	350)						
	O	0	0	0		(9.00				(8)
			(B)	55)						
1.00					29/01/2007:DRY 29/01/2007: 29/01/2007:	91.05 9.00	No Recovery			(0)
	ОН		0	0	29/01/2007: 30/01/2007:		)			
Remarks					I	<u> </u>	1		Scale (approx)	Logged By
									1:50 Figure I	ОР



(222)	British Geologic			55)				Site  M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI CONTRACT 2	Num	
Machine:				Diamete			Level (mOD)		Job Num	nber
Flush :			140mm cased to 24.00m			100.05		Highways Agency	WAL0	
Core Dia: n Method:	nm		Locatio	n		Dates 29/01/2007-		Engineer	Shee	et
			445372 E 365414 N			31/01/2007		Arup	2.	2/4
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Leger	Mater Do
							(1.50)	NO DECOVERY (se assertion should		
10.50						89.55	10.50	NO RECOVERY (as previous sheet)  Open Hole		
15.00	24	0	0	0		85.05	(4.50)	MADE CROUND Progressions. Soft to firm gray, gray,	s.lb.;	
16.50	20	0	0	0				MADE GROUND. Poor recovery. Soft to firm, grey, grav clay locally orange brown. Gravel is angular and subangul fine to coarse of mudstone, siltstone and sandstone with some cobbles and boulders of mudstone and sandstone.	ar,	
16.50	43	0	0	0						
18.00	6	0	0	0		(8				
19.50										
Remarks							<del> </del>	Scal (appro	e Logg	ged
								1:50	OF	P
								Figu	re No.	



	British Beologica ATURAL ENVIRO			50				Site  M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Boreh Numbe RC122	er
Machine: Flush :				Diamete 0mm cas	er sed to 24.00m	Ground Level (mOD) 100.05		Client Highways Agency	Job Number WAL0600	
Core Dia: m Method :	m		Locatio			Dates 29	/01/2007-	Engineer	Sheet	
Denth			44	5372 E 3	665414 N		/01/2007	Arup	3/4	
Depth (m)	TCR	SCR	RQD	FI	Field Records	(mOD)	Depth (m) (Thickness	Description	Legend	Water
	54	0	0	0		(<		MADE GROUND (as previous sheet)		
1.50	56	0	0	0	- driller noted very heavy strike(1) at 21.50m. W8					∇
2.40	73	15	7	0			(10.40	(BG)		
4.00			0	0	30/01/2007:DRY 30/01/2007: 30/01/2007:DRY 31/01/2007:					
5.40	98	35	0	0		74.65	-	Moderately strong, light grey, fine grained SANDSTONE, with occasional wispy black laminae of carbonaceous material; thinly interbedded with weak grey mudstone. Discontinuities: sandstone - vertical, rough, clean; mudstone - extremely closely spaced, randomly orientated, rough,		
5.95 5.00 5.00-26.09			0	0	P1 25/50 SPT 25*/75 50/11	73.30	(1.35)	clean.	******	
	100	39	0	0			- - - - - - - -	Moderately weak, grey SILTSTONE, with closely to medium spaced, very thin and thin beds of moderately weak grey MUDSTONE locally clay. Fractures are extremely closely to closely spaced, horizontal and subhorizontal, rough, clean; vertical, rough clean. In mudstone beds, extremely closely spaced, randomly orientated, clean, smooth and rough.	XXXXXXX	
7.45 7.50 7.50-27.60			0	0	P2 25/50 SPT 25*/75 50/21		(1.70)	, and an analysis of the second secon	X X X X X X X X X X X X X X X X X X X	
9.00 9.10	44	0	0	0	P3	71.60	28.45	Weak grey MUDSTONE, with medium spaced, thin beds of SILTSTONE. Discontinuities: extremely closely to very closely spaced, randomly orientated, smooth, rough, clean, microfracturing; vertical, planar, smooth, apparent in siltstone beds.  Between 29.10m and 30.60m; poor recovery.	******	
	94	35	0	0				2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Remarks	1			35)		•		Scale (approx)	Logge By	d



(222)	British Geologic		-					Site  M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehold Number RC1220	
Machine: Flush :				Diamete 0mm cas	er sed to 24.00m	Ground Level (mOD) 100.05 Dates 29/01/2007- 31/01/2007		Client Highways Agency	Job Number WAL06009 Sheet 4/4	
Core Dia: r Method:	mm		Locatio		65414 N			<b>Engineer</b> Arup		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend \$	
30.60 30.80					P4	( ¿	(3.33)	MUDSTONE and SILTSTONE (as previous sheet)		
1.78 2.10 2.12 2.20 2.45			0 0 0	0 0 0	P5	68.27 67.93 67.60	31.78 (0.34) 32.12 (0.08) 32.20	Between 31.70m and 31.78m; ironstone with occasional fossil bivalve fragments.  Moderately weak, black, very carbonaceous MUDSTONE. Discontinuities: extremely closely to very closely spaced, subhorizontal, rough, clean.		
2.45 2.45	Sample U6	/ Tests	Casing Depth (m)	Water Depth (m)		07.00	(0.25) 32.45 (1.35)	Weak black vitreous COAL.  Soft to very weak, grey MUDSTONE, with occasional fossilised plant remains.  Strong, light grey SILTSTONE, with rare fossilised plant Relow 33.43m; grey and occasional fossil plant	X X X X X X X X X X X X X X X X X X X	
33.65	P7				31/01/2007:15.60m 31/01/2007: 31/01/2007:6.75m	66.25	33.80	remains. Discontinuities: very closely to medium spaced, subhorizontal to 45 degrees, rough, clean, locally vertical, planar and rough.  Complete at 33.80m	×××××× ××××××× ×××××××	
			(1)	35)						
						(e			(2)	
Remarks	1		B	35)			<u> </u>	Scale (approx) 1:50 Figure	ОР	