

	British Geologica NATURAL ENVIRO							Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borel Numb RC12	
Machine: Flush :			~ ~ ~	Diamete	er sed to 21.00m		l Level (mOD) 114.70	Client Highways Agency	Job Numb WAL06	
Core Dia: mm Method:			Locatio		364402 N	Dates 21/11/2006		Engineer Arup	Sheet 1/4	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness	Description	Legen	Water
0.00	PIT O/H		0	0	Groundwater was not apparent during boring(1) at 0.00m.		(1.20)	Inspection Pit.		∇_1
1.20						113.5	1.20	Open Hole. For likely material description to 11.80m, see cable percussion borehole CP1287.		-
			(B)	35)						
50)									(
			(0)	5)				(BGS)		
56)						(
Remarks			(B)	36)			<u> </u>	Scale (approx 1:50 Figure	TL	



Z W J Driusii								Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI - CONTRACT 2		Borehole Number RC1287		
Machine: Flush :				Diamete Omm cas	r ed to 21.00m		Level (mOD) 114.70		Job Numb WAL06			
Core Dia: r	mm		Locatio	on 5161 E 3	64402 N	Dates 21/11/2006		Engineer Arup	Sheet			
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness	Description	Legend	Water		
35)								OPEN HOLE (as previous sheet)		36		
	100	83	69	0								
			O)								
55)												
				0			(19.95					
			O									
55)										36		
Remarks				35)			- - - -	Scale (appro)	TL	ed .		
								Figure	No.			



Machine: Flush : Core Dia: mm Method :		SCR	14	Diametei 0mm casa n 5161 E 3	ed to 21.00m	Dates	Level (mOD) 14.70 /11/2006 Depth (fil) (Thickness)	Highways Agency Engineer Arup	Job Number WAL0600 Sheet 3/4
Depth (m) 21.15 21.30 21.30 21.55-21.93 22.45 22.65-22.80		SCR	RQD	FI FI		21		Arup	3/4
21.15 21.15-21.30 21.30 21.35 21.55-21.93 22.45 22.65 22.65-22.80	TCR	SCR			Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
22.45 22.65-22.80			0						
11.35 11.55-21.93 12.45 12.65 12.65-22.80			0				(19.95)	OPEN HOLE (as previous sheet)	(3)
2.65 2.65-22.80			0	0	25/50 SPT(C) 25*/75 50/75 U1	93.55	21.15	Generally strong (variably moderately strong) light and dark thinly and thickly colour laminated SILTSTONE. Fractures: horizontal (5 degrees to 10 degrees), closely and medium spaced, planar with soft slightly gravelly clay infill up to 30mm.	X X X X X X X X X X X X X X X X X X X
3.45-23.77	100	98	78	0	25/50 SPT(C) 25*/75 50/75	92.25	22.45	Moderately strong to strong grey (locally light and dark grey colour laminated) MUDSTONE. Fractures: subhorizontal (40 degrees to 45 degrees), medium spaced, smooth, plan and undulating; rare vertical, planar.	******
	100	49	9	0	U2		(1.70)		
4,15	100	35	0	0		90.55	24.15	Generally moderately weak (variably very weak to moderately strong) grey MUDSTONE. Frequently weakener structure frequently lost. Fractures: where evident horizontal, extremely closely to closely spaced, smooth, planar; subvertical, smooth, planar; others irregular, apparently random strike.	1,
5.65 5.65-25.80 3.00			0	0	25/50 SPT(C) 25*/75 50/75 P3		(2.50)		
7.05 7.15 7.15-27.30	100	79	60	0	25/50	88.05 87.65	26.65	Weak to moderately weak black carbonaceous MUDSTONE thickly interlaminated with weak brittle black coal with occasional flecks of pyrite. Fractures: horizontal and vertica extremely closely to very closely spaced.	
7.15-27.30 7.30-27.61 7.75 7.90			0 0	0 0	SPŤ(C) 25°/75 50/75 U4		(1.10)	Strong grey MUDSTONE with frequent black carbonised fossil plant remains and frequent subrounded coarse gravel At 27.65m; occasional rounded coarse gravel size vugs. Between 27.75m and 27.90m; locally extremely closely to very closely fractured, size ironstone nodules. Fractures: horizontal (0 degrees to	
8.65 8.65-28.88	100	87	68	0	24,1/50 SPT(C) 50/75	86.55	28.15	10 degrees), medium spaced, smooth, undulating. Generally strong (variably moderately strong to strong) grey SILTSTONE. Fractures: horizontal, closely and medium spaced, smooth, planar and undulating, open; subvertical, apparently widely spaced, smooth planar.	X X X X X X X X X X X X X X X X X X X
3.95	100	67	59	0	P5		(2.15)		X X X X X X X X X X X X X X X X X X X
Remarks				35)		1		Scale (approx	Logged By



(999) (British Geologic			ı,				Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1287
Machine: Flush :				Diamete	er sed to 21.00m		Level (mOD) 114.70	Client Highways Agency	Job Number WAL060099
Core Dia: n	nm		Locatio		364402 N	Dates 21	/11/2006	Engineer Arup	Sheet 4/4
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness	Description	Legend Market
30.10			0	0	P6 25/50 SPT(C) 25*/75	84.40	(2.15)	Returnen 30 15m and 30 30m; strong light brown	******* ******* ******
30.15 30.15-30.30 30.30 30.65			0	0	SPT(C) 25*/75 50/75 P7		(0.85)	Weak grey brown MUDSTONE. Fractures: subhorizontal (40 degrees to 45 degrees), very closely spaced, smooth, Between 30.75m and 31.15m; non-intact; recovered	
31.15 31.28			0	0	-	83.55 83.42	(0.13)	clayey, planár, tight. Moderately strong light and dark grey black thinly colour laminated SILTSTONE.	******
	Sample	/ Tests	Casing Depth (m)	Water Depth (m)		83.05	31.28 (0.37) 31.65	Strong light grey fine grained SANDSTONE. Fractures: horizontal, apparently medium spaced, smooth, planar; 1 no	
31.30-31.60	P8		0	50)	21/11/2006: 21/11/2006: 21/11/2006:	_		nortzontal, apparentry medium spaced, smooth, planar; I no vertical, rough, stepped, open. Complete at 31.65m	
35)				350)					
35)						(¿			
Remarks					1		<u> </u>	Scale (approx)	Logged By
								1:50	TL
								Figure	No.