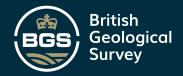


	British Geologic	cal Surve	BY	IL.				Site M1 WIDENING JUNCTION 21 TO 30 PRELIM CONTRACT 2	Boreho Number RC124		
Machine: Flush :	Flush : 140mm cased to 19.30m					Ground Level (mOD) 66.30		Client Highways Agency	Job Number WAL060099		
Core Dia: r	mm		Locatio		373443 N	Dates 21/09/2006- 27/09/2006		Engineer Arup		Sheet	1
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.		(1.20)	Inspection pit.			Z ₁
1.20					_	65.10	1.20	Open hole.			
			(0)	55)							
55)						(<				(5	30
			65	59)							
35)										(8	
Remarks				.61			- - - - - - - - - - - - - - - - - - -		Scale (approx)	Logged By	_ I
									1:50 Figure		-



British Geological Survey NATURAL EMVIRONMENT RESEARCH COUNCIL								Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1243		
Machine:			~ . ~	Diamete 0mm cas	er sed to 19.30m	Ground Leve 66.30		Client Highways Agency	Job Numl WAL060		
Core Dia: n	nm		Locatio		373443 N	Dates 21/09/20 27/09/20	006- 006	Engineer Arup	Shee		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level D (mOD)	epth (m) ckness)	Description	Legen	Water	
55)								OPEN HOLE (as previous sheet)			
	98	85	50	0			(20.95)				
					21/09/2006: 21/09/2006: 21/09/2006: 26/09/2006:			(BGS)			
56)					26/09/2006: 26/09/2006:				(
Remarks			(B)	35)				Scale (approx 1:50 Figure	TL		



	iritish Geologica		-	91				Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borel Numb RC12	er
Machine:				Diamete 0mm cas	r ed to 19.30m		Level (mOD) 66.30	Client Highways Agency	Job Numb	
Core Dia: m	m		Lacatio			Dates		Engineer	Sheet	
Method :			Locatio		73443 N	21	/09/2006- //09/2006	Arup	3/4	
								Агир		
Depth (m)	TCR	SCR	RQD	FI	Field Records	(mOD)	Depth (m) (Thickness)	Description	Legend	Water p
					26/09/2006: 27/09/2006:			OPEN HOLE (as previous sheet)		
22.15			0	0		44.15	22.15	At 21.75m; driller noted rock head. MADE GROUND. Recovered as dark grey brown clayey angular to subrounded medium to coarse gravel of		
22.40 12.55-22.93	94	90	64	0	C1	43.90	22.40	angular to subrounded medium to coarse gravel of sandstone and ironstone. 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.		2
4.45			0	0		((3.25)	Between 22.60m and 22.95m; flow laminated. Between 23.20m and 23.25m; locally very weak. Between 24.50m and 24.60m; locally very weak.		
5.10 5.50 5.65			0	0	P3	40.65	25.65	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).		×
_			0	0				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. Between 26.70m and 26.90m; locally weak, extremely	X X X X X X X X X X X X X X X X X X X	X X X
5.70 5.90 7.00-27.44	100	94	39	0	C2		(2.35)	closely to very closely spaced.	X X X X X X X X X X X X X X X X X X X	×
7.45			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.	X X X X X X X X X X X X X X X X X X X	×
3.00						38.30	28.00	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), closel spaced, smooth, planar, open; subvertical (65 degrees to 70 degrees), apparently closely spaced smooth, planar, open; occasional others irregular, apparently random strike.		
							(2.45)	At 29.10m; 50mm bed strong brown ironstone.		
							E (====,	At 29.40m; 50mm bed strong brown ironstone.		
								At 29.65m; 40mm bed strong brown ironstone.		
							<u> </u>	At 29.85m; 60mm bed strong brown ironstone.		1
Remarks								Scale (approx)	Logge By	ed
								1:50	TL	
								Figure	No.	



	British Geological Surve Iatural environment rese		9				Site M1 WIDENING JUNG CONTRACT 2	CTION 21 TO 30 PRELIMINARY G	RC	ehole nber 1243		
Boring Method Cable Percussion		Casing Diameter 140mm cased to 19.30m			Ground Level (mOD) 66.30					Job Number		
		Location			Dates		Engineer			WAL060099A Sheet		
		445412 E 373443 N			21/09/2006- 27/09/2006		Arup			4/4		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)		Description	Lege	Water		
9)												
8.10 0.30	P4 P5			27/09/2006:	35.85	30.45	Complete at 30.45m					
		(ds	35)	27/09/2006: 27/09/2006:13.96n								
		(BS	39)		(.0		
					(«				(.0		
Remarks			91					Sca (appr		lged		
								1:5	0 1 ıre No.	Ľ		