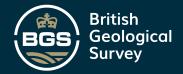


(1911)	British Geologica IATURAL ENVIRO			ı		Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehold Number RC1224			
Machine: Casing Diameter Flush : 140mm cased to 8.00m						Ground Level (mOD)		Client Highways Agency	Job Numbe	
Core Dia: m		Locatio			Dates 04/10/2006-		Engineer	WAL0600 Sheet		
		445359 E 366814 N			09/10/2006		Arup	1/3		
Depth (m)	TCR	SCR	RQD	FI	Field Records Groundwater was	(mOD)	Depth (m) (Thickness)	Description	Legend	5
0.00	ОН		0	0	not apparent during boring(1) at 0.00m.	(<		OPEN HOLE. Refer to borehole CP1224 for likely material description.	(¿	∇1
			(B)	55)						
35)	32	0	0	0		(×	(7.20)		(3
7.20			(0)	55)	- 04/10/2006:DRY	108.60		Poor recovery. Recovered as firm to stiff grey brown slightly	,	
7.20	83	0	0	0	04/10/2006: 04/10/2006: 05/10/2006:			Poor recovery. Recovered as firm to stiff grey brown slightly sandy gravelly clay. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse sandstone, siltstone, mudstone and coal. With occasional cobbles. Probably MADE GROUND.		
8.70	53	0	0	0		K				2
Remarks			(8)	35)		1	1	Scale (approx) 1:50 Figure	SM	d



	British Geologica		-	L		Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1224			
Machine: Casing Diameter 140mm case Core Dia: mm Method: Casing Diameter 140mm case 14				Dates 04/10/2006-			Client Highways Agency	Job Number WAL060099,		
							Engineer			
							Arup	2/3		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	
10.20	33	0	0	0		(s	(7.30)	Probably MADE GROUND (as previous sheet)		
1.70	59	0	0	0						
4.50					05/10/2006:DRY 05/10/2006: 05/10/2006:DRY 06/10/2006:	101.30	14.50	Poor recovery. Recovered as 0.90m of stiff mottled grey at brown slightly gravelly CLAY. Possible		
	79	56	24	0			(2.60)			
7.10 7.20	87	87	43	0	P1	98.70	17.10	Moderately strong very thinly bedded light grey with occasional dark grey laminations fine and medium grained SANDSTONE. Moderately weathered with iron staining throughout. Fractures are subhorizontal, closely to medium spaced, open, undulating and slightly rough with iron staining penetrating up to 10mm. Subvertical fractures are indistinctly spaced, open, undulating and rough. From approximately 17.90m to 18.50m; assumed zone of core loss.		
8.50	100	83	43	0		(s	(2.90)			
0.00 Remarks					-		<u>-</u> - - - -	Scale (approx	Logged	
								1:50 Figure	SM	



	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehol Number RC122	
Machine: Flush :	sh : 140mm cased to 8.00m						Level (mOD) 15.80	Client Highways Agency	Job Numb WAL060	
Core Dia: mm Method :			Locatio		66814 N	Dates 04/10/2006- 09/10/2006		Engineer Arup		t 3
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness	Description	Legend	Water
20.80	76	69	36	0	P2	95.80 95.45 95.00	(0.45)	Moderately weak grey fine and medium grained SANDSTONE, recovered as cobbles up to 100mm x 80mm 80mm with some iron staining. Stiff dark grey CLAY with occasional carbonaceous plant remains. Moderately strong very thinly bedded light grey with occasional dark grey laminations fine and medium grained SANDSTONE. Fractures are subhorizontal, closely to medium spaced, once, undulating and slightly rough with	X	
21.50	Sample	/ Tests	Casing Depth (m)	Water Depth (m)			<u>- </u>	iron staining penetrating up to 10mm. Subvertical fractures are indistinctly spaced, open, undulating and rough. At 21.20m; 45 degree fracture, open, undulating and rough.		
21.90-22.15	U3				06/10/2006:DRY 06/10/2006: 06/10/2006:DRY 09/10/2006:	-	(2.80)	At 21.30m; 45 degree fracture, open, undulating and rough. At 21.85m; horizontal fracture, heavily iron stained, penetrating 5mm to 8mm. At 21.85m; horizontal fracture, heavily iron stained, penetrating 5mm to 8mm. Between 22.50m and 22.65m; stiff grey clay with some weak lithorelics of mudstone.		
				.61	09/10/2006: 09/10/2006:	92.20	23.60	Complete at 23.60m		
						(0
Remarks							<u>-</u>	Scale (approx)	Logge	ed
								1:50	SM	