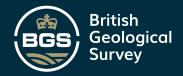


Cable Percussion         150mm cased to 2.20m         103.80         Highways Agency         Number WAL060           Location         Dates 25/09/2006- 445345 E 365120 N         Engineer Arup         Sheet Arup         1/2	(454) (	British Geological Surve	-			Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2		Borehole Number CP1219		
A4545 E 385120 N   2500/20094   Aug	Boring Method Cable Percussion		Casing Diameter 150mm cased to 2.20m  Location			103.80  Dates 25/09/2006-		Client Highways Agency Engineer	Number WAL06009 Sheet	
103.60   81   103.60   103.6										
103.60   2.20	Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water
Second   S	0.20-0.80	B1				103.60	0.20	MADE GROUND. Compact brown sandstone fill (driller's		
120-166	).80-1.20	B2			25/09/2006:	103.00	0.80	slightly gravelly clay. Gravel is angular to subrounded, fine to coarse of mudstone, ironstone, sandstone, coal and		
2.20	.20-1.65 .70	U3 D4			25/09/2006: 43 blows 25/09/2006:	-				
204.65   SPT N=20   DRY   3.4/4.4.5.7   99.60   4.20   MADE GROUND. Stiff light gray motified yellow brown slightly fisable gravelly clay/clayey sand. Gravel is subrounded coarse of fine grained weathered sandstone.   (1.50)   MADE GROUND. Stiff light gray motified yellow brown slightly fisable gravelly clay/clayey sand. Gravel is subrounded coarse of fine grained weathered sandstone.   (1.50)   MADE GROUND. Stiff dark gray friable silf/clay with angular fine to coarse fragments of friable mudstone.   (1.50)   MADE GROUND. Stiff dark gray friable silf/clay with angular fine to coarse fragments of friable mudstone.   (1.50)	2.20-2.65	D5	B	DRY			(3.40)	At 2.20m; stiff fissile dark grey slightly gravelly clay with occasional twigs.		
20-4.65	i.20-3.65	U7			100 blows					
20-4.65 SPT N=20 DPY	.70	D8								<b>*</b>
2.20-5.65 U11 94 blows 98.10 5.70 MADE GROUND. Stiff dark grey friable sit/clay with angular fine to coarse fragments of friable mudstone.  2.20-6.65 D13 120-6.70 B14 100 blows 100 blows 17.70 D16 15.70 B18 2.20 DRY 4,777.5,6,7 B18 2.20 DRY 4,777	.20-4.65	D9	2.20	DRY	3,4/4,4,5,7	99.60		slightly fissile gravelly clay/clayey sand. Gravel is		**************************************
MADE GROUND. Stiff dark grey fliable sit/clay with angular fine to coarse fragments of friable mudstone.   MADE GROUND. Stiff dark grey fliable sit/clay with angular fine to coarse fragments of friable mudstone.	.20-5.65	U11			94 blows					
20-6.65 D13	.70	D12				98.10	5.70	MADE GROUND. Stiff dark grey friable silt/clay with angula fine to coarse fragments of friable mudstone.	г	
7.70 D16  7.70-9.15 SPT N=25 D17  7.70-9.15 D17  7.70-9.20 B18  Remarks  Scale (approx)	.20-6.65 .20-6.65 .20-6.70	D13	2.20	DRY	4,5/5,5,6,6			(BGS)		
70-9.15 SPT N=25 2.20 DRY 4,7/7,5,6,7 D17 B18 SPT N=25 2.20 DRY 4,7/7,5,6,7 SPT N=25 D17 B18 SPT N=25 D17 B18 Scale (approx) Bygget	.20-7.65	U15			100 blows					
7.0-9.15 D17 7.70-9.20 B18  Remarks  Scale (approx)	.70	D16								
7.70-9.15 D17 8.70-9.20 B18  Remarks  Scale (approx)										
(approx) By 99°°	.70-9.15	D17	2.20	טאץ	4,777,5,6,7	18				
1:50 RMS	Remarks							Scale (approx	) Fogg	ed
Figure No.										3



British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2			
Boring Method Cable Percussion			Diamete 0mm cas	er sed to 2.20m	Ground Level (mOD) 103.80		Client Highways Agency		er	
		<b>Location</b> 445345 E 365120 N			Dates 25/09/2006- 29/09/2006		Engineer Arup		Sheet 2/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legeno	Water	
10.20-10.65	U19	(	(17)	100 blows			MADE GROUND (as previous sheet)			
10.70 11.50 11.70-12.15 11.70-12.20	D20 W25 SPT N=27 D21 B22	2.20	DRY	Water strike(1) at 11.50m. 4,5/7,7,6,7			At 11.70m; carbonaceous mudstone.		<b>⊽</b> 1	
13.20-13.65 13.70	U23 D24			84 blows		(10.50)			****	
14.70-15.15 14.70-15.15 14.70-15.20	SPT N=28 D26 B27	2.20	12.10	3,5/7,6,7,8					***************************************	
16.20-16.47 16.20-16.47 16.20-16.60 16.60-16.84 16.60-16.84	SPT 25*/135 50/135 D28 B29 D30 SPT 25*/115 50/125	2.20	12.50	10,15/23,27 29/09/2006:12.00m 29/09/2006: 13,12/26,24 29/09/2006:DRY	87.60 87.20	(0.40)	MADE GROUND. Carbonaceous mudstone recovered as grey clayey angular fine to coarse fragments with many cobbles of hard mudstone. Possible Made Ground.  Complete at 16.84m		***************************************	
55)					(«					
Remarks			35)			-	Scale (approx	) Logge By		