





British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI - CONTRACT 2		Borehole Number CP1194	
Boring Method Cable Percussion		Casing Diameter 150mm cased to 2.20m		Ground Level (mOD) 122.45		Client Highways Agency		Job Number WAL060099	
		Location 444665 E 357881 N		Dates 21/09/2006		Engineer Arup		Sheet 1/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	B101					(0.50)	Dark brown clayey TOPSOIL with many rootlets and subangular to subrounded, fine to coarse gravel of sandstone, mudstone and coal.		
0.50	B102				121.95	0.50 (0.50)	MADE GROUND. Light grey sand and angular, coarse, gravel sized fragments of limestone, mudstone and sandstone.		
1.20-1.65 1.20 1.20-1.70	SPT N=19 D1 B2		DRY	1,1/5,4,5,5	121.45	1.00	MADE GROUND. Firm to stiff friable light grey mottled brown slightly gravelly silt/clay. Gravel is angular to subangular, fine to coarse of sandstone, coal and mudstone.		
2.20-2.65	U3			56 blows					
2.70	D4								
3.20-3.65 3.20 3.20-3.70	SPT N=24 D5 B6	2.20	DRY	2,3/5,7,5,7			From 3.20m; gravelly.		
4.20-4.45 4.50 4.50-5.20	U7 D8 B9			100 blows					
5.20-5.65 5.20 5.20-5.70	SPT N=41 D10 B11	2.20	DRY	4,8/12,9,10,10		(8.50)			
6.20-6.65 6.20 6.20-6.70	SPT N=23 D12 B13	2.20	DRY	4,5/5,6,5,7			From 6.20m; slightly gravelly clay.		
7.20-7.65	U14			100 blows					
7.70	D15						At 7.70m; pocket of very gravelly clay. Gravel is angular, fine to coarse of coal.		
8.20-8.65 8.20 8.20-8.70	SPT N=27 D16 B17	2.20	DRY	4,5/5,7,7,8			From 8.20m; occasional ironstone nodules.		
9.50-9.95	U18			100 blows	112.95	9.50	Approximate boundary MADE GROUND. Very stiff grey friable slightly gravelly clay. Gravel is subangular to angular fine to coarse of mudstone and siltstone.		
Remarks								Scale (approx) 1:50	Logged By RMS
								Figure No.	



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		<b>Location</b> 444665 E 357881 N		<b>Dates</b> 21/09/2006		<b>Engineer</b> Arup		<b>Sheet</b> 2/3		
<b>Depth (m)</b>	<b>Sample / Tests</b>	<b>Casing Depth (m)</b>	<b>Water Depth (m)</b>	<b>Field Records</b>	<b>Level (mOD)</b>	<b>Depth (m) (Thickness)</b>	<b>Description</b>	<b>Legend</b>	<b>Water</b>	
10.00	D19						MADE GROUND (as previous sheet)			
11.00-11.45 11.00 11.00	SPT N=46 B21 D20	2.20	DRY	5,6/7,10,12,17			From 11.00m; orange iron staining on the mudstone gravel.			
12.50-12.95	U22			100 blows						
13.00	D23									
14.00-14.45 14.00 14.00-14.50	SPT N=32 D24 B25	2.20	DRY	6,6/7,9,8,8			Below 14.00m; brown mottled grey gravelly clay. Gravel is angular to subangular, fine to coarse of mudstone and siltstone.			
						(10.80)				
15.50-15.95	U26			100 blows						
16.00	D27									
17.00-17.45 17.00 17.00-17.50	SPT N=41 D28 B29	2.20	DRY	6,8/8,9,11,13						
18.50-18.95	U30			100 blows						
19.00	D31									
<b>Remarks</b>							<b>Scale (approx)</b> 1:50	<b>Logged By</b> RMS		
							<b>Figure No.</b>			



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		<b>Location</b> 444665 E 357881 N		<b>Dates</b> 21/09/2006		<b>Engineer</b> Arup			<b>Sheet</b> 3/3	
<b>Depth (m)</b>	<b>Sample / Tests</b>	<b>Casing Depth (m)</b>	<b>Water Depth (m)</b>	<b>Field Records</b>	<b>Level (mOD)</b>	<b>Depth (m) (Thickness)</b>	<b>Description</b>	<b>Legend</b>	<b>Water</b>	
20.00-20.45	U32			100 blows		(10.80)				
20.50	D33			Water strike(1) at 20.30m.	102.15	20.30	Stiff friable dark grey slightly gravelly CLAY. Gravel is angular to subangular, fine to coarse of mudstone and occasional siltstone.		✓1	
20.50-21.00	B34			21/09/2006: DRY	101.45	(0.70)				
				21/09/2006:		21.00	Complete at 21.00m			
<b>Remarks</b>							<b>Scale (approx)</b> 1:50	<b>Logged By</b> RMS	<b>Figure No.</b>	