


 <b>British Geological Survey</b> NATURAL ENVIRONMENT RESEARCH COUNCIL						<b>Site</b> M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI - CONTRACT 2		<b>Borehole Number</b> RC1212		
<b>Machine:</b> <b>Flush :</b> <b>Core Dia: mm</b> <b>Method :</b>			<b>Casing Diameter</b> 140mm cased to 10.00m  <b>Location</b> 445210 E 362588 N			<b>Ground Level (mOD)</b> 136.30  <b>Dates</b> 31/10/2006-01/11/2006		<b>Client</b> Highways Agency  <b>Engineer</b> Arup		<b>Job Number</b> WAL060099A  <b>Sheet</b> 1/3
<b>Depth (m)</b>	<b>TCR</b>	<b>SCR</b>	<b>RQD</b>	<b>FI</b>	<b>Field Records</b>	<b>Level (mOD)</b>	<b>Depth (m) (Thickness)</b>	<b>Description</b>	<b>Legend</b>	<b>Water</b>
0.00	PIT		0	0	Groundwater was not apparent during boring(1) at 0.00m.			Inspection Pit.		V1
	OH		0	0			(1.20)			
1.20						135.10	1.20	Open Hole. For likely strata description, see CP1212.		
	61	0	0	0			(9.60)			
<b>Remarks</b>									<b>Scale (approx)</b> 1:50	
									<b>Logged By</b> SM	
									<b>Figure No.</b>	



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<b>Machine:</b> <b>Flush :</b> <b>Core Dia: mm</b> <b>Method :</b>		<b>Casing Diameter</b> 140mm cased to 10.00m		<b>Ground Level (mOD)</b> 136.30		<b>Client</b> Highways Agency		<b>Job Number</b> WAL060099A		
		<b>Location</b> 445210 E 362588 N		<b>Dates</b> 31/10/2006- 01/11/2006		<b>Engineer</b> Arup		<b>Sheet</b> 2/3		
<b>Depth (m)</b>	<b>TCR</b>	<b>SCR</b>	<b>RQD</b>	<b>FI</b>	<b>Field Records</b>	<b>Level (mOD)</b>	<b>Depth (m) (Thickness)</b>	<b>Description</b>	<b>Legend</b>	<b>Water</b>
10.80						125.50	10.80	Stiff mottled grey, orange and brown slightly sandy CLAY with subrounded fine and medium lithorelics of very weak mudstone. Sand is fine.		
	40	0	0	0		124.80	11.50	Very weak, laminated to very thinly bedded grey MUDSTONE, locally firm to stiff grey clay, with occasional thin beds of moderately weak fine grained sandstone. Fractures are extremely closely to closely spaced, randomly orientated, generally, tight, irregular and smooth.		
13.00 13.00-13.38					6, 10/24, 28, 30 SPT 82/225					
	100	53	0	0			(4.50)	Between 13.50m and 13.70m; band of grey fine grained sandstone.		
14.50 14.50-14.54					/100 SPT 0'/0 100/40					
			0	0						
15.50	83	70	8	0				Between 15.50m and 15.90m; becoming dark grey carbonaceous mudstone with thin laminae of coal.		
16.00 16.00-16.01 16.10					/100 SPT 0'/0 100/14 P1	120.30	16.00	Moderately strong thinly to thickly laminated MUDSTONE with occasional extremely closely spaced thin laminae of light grey siltstone. With occasional bands of angular coarse ironstone gravel and carbonised plant remains. Fractures are subhorizontal, very closely to closely spaced, generally open, irregular and slightly rough.		
	23	0	0	0			(1.85)	At 16.85m; band of ironstone gravel. Between 16.90m and 17.00m; very weak weathered grey mudstone.		
17.50			0	0	/39,61 31/10/2006:					
17.50-17.58 17.85					31/10/2006: SPT 0'/0 100/82 31/10/2006:	118.45	17.85	No recovery.		
	87	67	0	0	01/11/2006:		(1.15)			
19.00						117.30	19.00	Weak to moderately weak indistinctly bedded black carbonaceous MUDSTONE with extremely closely spaced thin laminae of coal. Fractures are horizontal, very closely spaced, tight, planar and smooth.		
						116.90	19.40	Very weak, laminated to very thinly bedded grey MUDSTONE, locally firm to stiff grey clay, with occasional thin beds of moderately weak fine grained sandstone.		
<b>Remarks</b>								<b>Scale (approx)</b> 1:50	<b>Logged By</b> SM	
								<b>Figure No.</b>		



 <b>British Geological Survey</b> NATURAL ENVIRONMENT RESEARCH COUNCIL						<b>Site</b> M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2			<b>Borehole Number</b> <b>RC1212</b>	
<b>Boring Method</b> Cable Percussion		<b>Casing Diameter</b> 140mm cased to 10.00m		<b>Ground Level (mOD)</b> 136.30		<b>Client</b> Highways Agency			<b>Job Number</b> WAL060099A	
		<b>Location</b> 445210 E 362588 N		<b>Dates</b> 31/10/2006- 01/11/2006		<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>
19.40	P2			01/11/2006: 01/11/2006: 01/11/2006:	115.80	(1.10) 20.50	Fractures are extremely closely to closely spaced, randomly orientated, generally, tight, irregular and smooth.  Complete at 20.50m			
<b>Remarks</b>							<b>Scale (approx)</b> 1:50		<b>Logged By</b> SM	
							<b>Figure No.</b>			