
 <b>British Geological Survey</b> NATURAL ENVIRONMENT RESEARCH COUNCIL							<b>Site</b> Nottinghamshire/ Derbyshire COA NMCS2 Upgrade		<b>Borehole Number</b> <b>M23</b>	
<b>Machine:</b> <b>Flush :</b> <b>Core Dia: mm</b> <b>Method :</b>			<b>Casing Diameter</b>		<b>Ground Level (mOD)</b> 115.91		<b>Client</b> Highways Agency		<b>Job Number</b> F11451	
			<b>Location</b> 444800.27 E 357357.58 N		<b>Dates</b> 17/09/1999		<b>Engineer</b> WSP Environmental Ltd		<b>Sheet</b> 1/2	
<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>
0.25-0.55	100	0	0	98	D01 0 blows	115.66	(0.25) 0.25	TOPSOIL.		
0.55-0.85					D02 0 blows	115.36	(0.30) 0.55	MADE GROUND: Dark grey clay with much fine to coarse angular and subangular gravel sized fragments of carbonaceous mudstone.		
0.85-1.00	100	0	0	98	D03 0 blows	115.06	(0.30) 0.85	MADE GROUND: Light grey medium and coarse angular gravel sized fragments of limestone.		
1.00								MADE GROUND: Brown mottled orange and grey sandy clay with some fine to coarse angular to subrounded gravel sized fragments of sandstone, mudstone, quartz with occasional cobbles.		
1.70-2.15	100	0	0	98	3.5/6,5,7,7 SPT N=25					
2.15										
2.80-3.25	100	0	0	98	2.2/3,4,6,7 SPT N=20		(3.95)			
3.25										
3.50-3.95	76	0	0	98	3.3/3,6,6,8 SPT N=23					
4.25										
4.80	88	16	0	99		111.11	4.80	Greyish brown thinly laminated subhorizontal highly and moderately weathered fine grained SANDSTONE, weak and moderately weak with very closely spaced subhorizontal and inclined fractures open rough irregular iron stained. (Coal Measures) ---from 4.80m to 6.00m non intact		
5.30			0	25						
5.70	84	19	0	25						
5.90			0	0			(2.90)			
6.75	34	0	0	99				---from 6.75m to 7.70m non intact		
6.90										
7.40-7.72	100	0	0	99	10,10/12,18,20,0 SPT(C) 50/165					
7.71			0	25		108.21	7.70	Light grey thinly laminated inclined highly weathered fine grained SANDSTONE, very weak and weak locally moderately weak with extremely closely spaced random fractures open and tight rough irregular clay smeared. (Coal Measures)  ---from 8.70m becomes moderately and highly weathered weak and moderately weak with extremely closely and very closely spaced fractures		
7.80	81	0	0	25						
8.00	75	21	0	25						
8.70	100	9	0	25						
9.50					Slow(1) at 9.50m, sealed at 100000.00m.		(4.10)			▽ <sub>1</sub>
<b>Remarks</b> 1. Inspection pit excavated to 1.00m. 2. Borehole complete at 15.00m. 3. Borehole backfilled with grout. 4. Marker Post Ref 218/9 N.								<b>Scale (approx)</b> 1:50	<b>Logged By</b> NBR	<b>Figure No.</b>



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		Location 444800.27 E 357357.58 N		Dates 17/09/1999		Engineer WSP Environmental Ltd			Sheet 2/2	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.50	93	21	0	25						
	78	0	0	25						
11.90	87	31	18	25				Grey thinly cross laminated subhorizontal thinly and very thinly bedded subhorizontal moderately and highly weathered silty MUDSTONE, weak and very weak with extremely closely and very closely spaced random fractures open and tight smooth irregular and curved clay smeared. (Coal Measures)		
13.40	93	25	0	25			(3.20)			
14.20										
					17/09/1999:11.30m	100.91	15.00	Complete at 15.00m		
Remarks								Scale (approx) 1:50	Logged By NBR	
								Figure No.		