
 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade		Borehole Number M33	
Machine: Flush : Core Dia: mm Method :			Casing Diameter		Ground Level (mOD) 88.21		Client Highways Agency		Job Number F11451	
			Location 444621.49 E 371583.51 N		Dates 26/08/1989- 26/08/1999		Engineer WSP Environmental Ltd		Sheet 1/2	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50-0.80	0	0	0	0	D01 0 blows	88.01	(0.20) 0.20	TOPSOIL.		
0.80	20	0	0	97		87.41	0.80 (0.40)	MADE GROUND: Light brown slightly clayey sandy medium to coarse angular gravel sized fragments of limestone.		
1.20			0	98		87.01	1.20	Openholed. MADE GROUND: Light brown clay fill. (Driller's description)		
2.00								MADE GROUND: Brownish grey sandy clay with much fine to coarse angular to subrounded gravel sized fragments of mudstone, sandstone, quartz and limestone.		
2.20-2.65	36	0	0	97	1,2/3,4,4,3 SPT N=14			---from 2.20m becomes light brown mottled grey		
2.65			0	98			(2.80)			
3.00										
3.20-3.65	65	36	0	98	1,6/7,8,8,12 SPT N=35					
3.65			0	3						
4.00						84.21	4.00 (0.20)			
4.20-4.50	53	21	17	99	3,9/16,34,0,0 SPT 50/150	84.01	4.20	Orangish brown very thinly and thinly bedded subhorizontal moderately weathered fine and medium grained SANDSTONE, weak with very closely and closely spaced subhorizontal fractures open rough planar clay infilled. (Coal Measures)		
4.50			0	2				Grey and light grey thinly cross laminated subhorizontal very thinly and thinly bedded subhorizontal slightly and moderately weathered fine and medium grained SANDSTONE, weak and moderately weak with very closely spaced subhorizontal fractures open rough undulose. (Coal Measures)		
5.05	61	0	0	99				---from 4.20m to 5.05m non intact ---from 5.20m to 6.84m non intact		
5.55										
6.50-6.83	95	42	16	99	12,13/14,20,16,0 Heavy(1) at 6.20m, sealed at 2.20m. SPT 25*/125 50/205					
6.53			0	7						
6.84	71	25	0	99				---from 7.20m to 8.08m non intact		
7.43										
7.50-7.74	100	63	0	99	10,15/22,28,0,0 SPT 25*/115 50/120					
8.45			0	25	8,13/26,24,0,0 SPT 50/100		(8.40)			
8.50-8.75			0	6				---from 8.65m to 8.90m fractures become very closely spaced subhorizontal and inclined open rough irregular with clay infill and smearing		
8.65										
8.90	100	41	0	25						
9.70-9.97					8,12/28,22,0,0 SPT 50/115					
9.96										
Remarks 1. Inspection pit excavated to 0.80m. 2. Borehole openholed to 1.20m. 3. Borehole complete at 12.60m. 4. Borehole backfilled with grout. 5. Marker Post Ref233/3 N.								Scale (approx) 1:50	Logged By NBR	
								Figure No.		



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Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.70			0	12				---from 10.50m to 10.90m fractures become very closely spaced random tight rough irregular clay smeared ---from 10.70m becomes slightly weathered ---from 12.10m to 12.60m highly weathered with very closely spaced random fractures open rough irregular clay smeared		
	88	53	7	0						
11.20			0	7						
11.60			0	25						
12.10										
					26/08/1989:2.90m	75.61	12.60	Complete at 12.60m		
Remarks										
									Scale (approx) 1:50	Logged By NBR
									Figure No.	