
 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade			Borehole Number M28	
Machine: Flush : Core Dia: mm Method :		Casing Diameter		Ground Level (mOD) 110.15		Client Highways Agency		Job Number F11451			
		Location 445233.24 E 364490.15 N		Dates 05/09/1999- 06/09/1999		Engineer WSP Environmental Ltd		Sheet 1/2			
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.00-0.40					D01 0 blows	110.00	(0.15) 0.15	TOPSOIL.			
0.40-1.10					D02 0 blows		(0.85)	MADE GROUND: Light greyish brown medium and coarse angular gravel sized fragments of limestone.			
1.00-1.45	7	7	0	97	1,2/2,3,3,3 SPT N=11	109.15	1.00	Grey thinly laminated subhorizontal very thinly and thinly bedded subhorizontal moderately weathered MUDSTONE, weak and very weak with very closely and closely spaced subhorizontal fractures open smooth planar and medium spaced subvertical fractures open rough planar iron stained. (Coal Measures)			
1.45			0	99							
1.96					1,1/2,13,17,18 SPT 50/270						
2.00-2.42	100	51	0	99							
2.42			0	10							
2.60	86	42	0	99			(3.30)				
3.00-3.15					9,16/50,0,0,0 SPT(C) 25*/105 50/45						
3.15											
	100	82	45	15							
4.50-4.76					5,10/15,35,0,0 SPT(C) 50/110	105.85	4.30	Light brown and grey thinly laminated subhorizontal very thinly and thinly bedded subhorizontal moderately weathered SILTSTONE, weak to moderately weak with very closely and closely spaced subhorizontal fractures open smooth planar and medium spaced subvertical fractures open smooth planar with much black and orange staining. (Coal Measures)			
4.76			0	8							
5.50											
	100	63	0	0				--from 5.50m becomes orange with closely spaced subhorizontal and subvertical fractures open rough irregular			
6.00			0	99	05/09/1999:0.00m						
			0	99	06/09/1999:						
6.50			0	3							
6.70			0	99							
7.00	97	40	0	99							
7.50			0	11			(6.98)				
8.50											
	96	37	0	0							
9.00			0	99							
9.40											
	89	29	0	0							
Remarks 1. Inspection pit excavated to 1.00m. 2. Borehole complete at 15.00m. 3. Borehole backfilled with arisings. 4. Marker Post Ref 226/0 +90N.								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
10.50					Moderate(1) at 10.00m, sealed at 100000.00m.					∇1
			0	11		98.87	11.28			
11.54	84	39	0	99				Grey very thin and thinly bedded subhorizontal moderately weathered SILTSTONE, weak and very weak, locally moderately weak with very closely spaced subhorizontal fractures open planar smooth and medium spaced subvertical fractures open and tight smooth planar with occasional clay smearing. (Coal Measures)		
12.00			0	4						
12.10			0	99						
12.30			0	20						
12.50	71	44	0	99			(3.22)			
13.50			0	25						
13.80			0	9				—from 13.80m to 14.20m thinly laminated subhorizontal with extremely closely spaced random fractures tight smooth irregular		
14.20			0	98		95.65	14.50	Soft grey CLAY with much fine to coarse angular and subangular gravel of mudstone. (completely weathered mudstone (Coal Measures)		
14.50			0	97			(0.50)	—from 14.60m to 15.00m no recovery		
14.60					06/09/1999: 9.50m 06/09/1999:	95.15	15.00	Complete at 15.00m		
Remarks						Scale (approx) 1:50		Logged By NBR		Figure No.