
 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade			Borehole Number M32	
Machine: Flush : Core Dia: mm Method :		Casing Diameter		Ground Level (mOD) 87.08		Client Highways Agency		Job Number F11451		
		Location 44485.27 E 369790.97 N		Dates 10/09/1999		Engineer WSP Environmental Ltd		Sheet 1/2		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.40-0.70	100	18	0	98	D01 0 blows	86.78	(0.30) 0.30	TOPSOIL.		
0.70-0.80					D02 0 blows	86.28	(0.50) 0.50	MADE GROUND: Light grey medium and coarse angular gravel sized fragments of limestone.		
0.80			0	99		86.08	(0.80) 0.80	MADE GROUND: Brown sandy clay with much fine and medium angular to subangular gravel sized fragments of mudstone, quartz, limestone and sandstone.		
1.00	96	0	0	25			(1.00) 1.00			
1.30								Grey thinly laminated subhorizontal highly to moderately weathered MUDSTONE, weak and moderately weak with extremely closely and very closely spaced random fractures open and tight smooth planar and irregular clay smeared. (Coal Measures)		
1.80-2.10	100	0	0	25	5.13/22.28,0,0 SPT 50/150					
2.10										
2.80-3.10	100	0	0	25	7.18/20.30,0,0 SPT 50/150					
3.10							(4.80)			
3.80-3.95	100	100	0	25	25.0/50.0,0,0 SPT(C) 25*/75 50/75					
3.95										
4.80	100	67	0	25						
4.80-5.10	100	11	0	25	7.18/22.28,0,0 SPT(C) 50/150			---from 6.00m to 6.20m becomes dark grey carbonaceous mudstone		
5.10										
5.80-6.10	100	86	0	4	9.14/17.23,0,0 SPT(C) 40/150	81.28	5.80	---from 5.40m to 5.47m black moderately weathered coal very weak with extremely closely spaced subhorizontal and subvertical fractures open smooth planar		
6.10			0	99				Light grey thinly and medium bedded moderately to highly weathered silty fossiliferous MUDSTONE, weak and moderately weak with closely and medium spaced subhorizontal and inclined fractures tight rough irregular clay smeared. (Coal Measures)		
6.20			0	6						
6.35										
6.80-7.10	100	100	0	3	8.17/21.29,0,0 SPT(C) 50/150		(1.75)	---from 6.80m fractures become closely and very closely spaced		
7.10	100	0	0	25						
7.30	87	0	0	25		79.53	7.55	Grey indistinctly thinly laminated locally thinly and very thinly bedded highly and moderately weathered MUDSTONE, weak and very weak with extremely closely spaced random fractures tight smooth planar. (Coal Measures)		
7.80			0	25			(1.25)			
8.80			0	99		78.28	8.80	Black moderately to highly weathered COAL, weak with extremely closely spaced subhorizontal and subvertical fractures open and tight smooth planar. (Coal Measures)		
9.00			0	25						
9.20	100	28	0	0			(0.80)	---from 9.20m to 9.35m grey completely to highly weathered mudstone, very weak with extremely closely spaced random fractures tight smooth planar clay smeared		
9.40			0	25		77.48	9.60			
								Grey very thinly and thinly bedded subhorizontal		
Remarks 1. Inspection pit excavated to 0.80m. 2. Borehole complete at 12.00m. 3. Borehole backfilled with grout. 4. Marker Post Ref 231/5 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
10.20			0	8			(0.90)	moderately weathered silty MUDSTONE, weak and very weak with extremely closely and very closely spaced fractures open rough planar and irregular clay smeared. (Coal Measures)		
10.55	100	81	0	0		76.58	10.50			
10.80			0	99			(0.55)	Grey thinly and medium bedded moderately and slightly weathered SILTSTONE, moderately weak and moderately strong with closely and medium spaced subhorizontal and subvertical fractures open smooth and rough planar and irregular. (Coal Measures)		
11.07			0	25		76.03	11.05			
11.13			0	5			(0.95)	Grey thinly and very thinly bedded subhorizontal moderately weathered silty MUDSTONE, weak and very weak with extremely closely and very closely spaced subhorizontal and random fractures open rough planar and irregular clay smeared. (Coal Measures)		
11.40						75.08	12.00	Complete at 12.00m		
11.50										
Remarks								Scale (approx) 1:50	Logged By NBR	
								Figure No.		