
 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade		Borehole Number M48						
Machine:		Casing Diameter				Ground Level (mOD) 128.23		Client Highways Agency		Job Number F11451				
Flush :						Dates 03/09/1999		Engineer WSP Environmental Ltd		Sheet 1/2				
Core Dia: mm		Location 445180.04 E 356617.26 N												
Method :														
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water			
0.10-0.50	61	0	0	98	D01 0 blows	128.13	0.10	TOPSOIL.						
0.50-0.70								D02 0 blows	127.73	(0.40)	MADE GROUND: Brown very sandy clay with much fine to coarse angular gravel sized fragments of limestone.			
0.70-1.00								D03 0 blows	127.53	(0.20)	MADE GROUND: Greyish brown clayey medium to coarse angular gravel sized fragments of limestone.			
1.00	100	0	0	98	1.0/1.1,1.2 SPT N=5		(2.30)	MADE GROUND: Dark greyish brown sandy clay with much fine to coarse angular to subrounded gravel sized fragments of sandstone, mudstone, coal, quartz and occasional cobbles.						
2.00-2.45														
2.45														
3.00-3.09	77	74	22	11	25.0/50.0,0.0 SPT 25"/50 50/42	125.23	3.00	Light grey very thinly and thinly bedded subhorizontal slightly to moderately weathered fine grained SANDSTONE, moderately weak to moderately strong with very closely and closely spaced subhorizontal fractures open smooth planar, iron stained. (Coal Measures)						
3.09	100	85	47	5			(1.20)	---from 3.65m to 3.90m thinly cross laminated, subhorizontal						
4.00														
4.20			0	25		124.03	4.20	Grey thinly laminated subhorizontal very thinly and thinly bedded subhorizontal highly weathered MUDSTONE, very weak with extremely closely spaced random fractures tight smooth irregular clay smeared. (Coal Measures)						
4.80			0	4			(0.80)							
5.50	91	85	77	0		123.23	5.00	Light grey thinly and medium bedded subhorizontal slightly weathered fine and medium grained SANDSTONE, moderately weak locally moderately strong with closely and medium spaced subhorizontal fractures open rough planar with some iron staining. (Coal Measures)						
5.80														
6.80									0	5				
7.00	100	100	100	0										
7.80			0	4										
8.50	100	97	97	0			(6.77)							
8.80									0	3				
9.80									0	2				
10.00	97	86	54	0										
Remarks 1. Inspection pit excavated to 1.00m. 2. Borehole complete at 15.40m. 3. Borehole backfilled with grout. 4. Marker Post Ref 218/1 -40S												Scale (approx) 1:50	Logged By NBR	
												Figure No.		



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		Location 445180.04 E 356617.26 N		Dates 03/09/1999		Engineer WSP Environmental Ltd		Sheet 2/2		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.30			0	13				---from 10.30m becomes thinly cross laminated with very closely spaced thick laminae of grey highly weathered mudstone, very weak		
			0	3						
11.30										
11.50	96	68	31	0						
11.65			0	25						
11.77			0	4						
			0	25		116.46	11.77	Grey thinly laminated subhorizontal very thinly and thinly bedded subhorizontal moderately weathered MUDSTONE, very weak and weak with very closely and closely spaced subhorizontal fractures open smooth planar clay smeared. (Coal Measures)		
12.35			0	10				---from 12.35m to 12.74m extremely closely and very closely spaced random fractures open smooth irregular clay smeared		
12.74	100	80	39	0						
13.00			0	25			(2.63)	---from 13.00m becomes silty, locally moderately weak to moderately strong		
								---at 13.50m open smooth planar inclined fracture		
13.70	100	0	0	0				---from 13.70m fractures become extremely closely and very closely spaced open smooth irregular clay smeared		
14.30			0	25						
14.40			0	25		113.83	14.40	Black moderately weathered COAL, weak with extremely closely spaced subhorizontal and subvertical fractures tight smooth planar. (Coal Measures)		
						113.38	14.85	Grey very thinly and thinly bedded subhorizontal moderately to highly weathered silty fossiliferous MUDSTONE, very weak with extremely closely and very closely spaced random fractures tight smooth irregular. (Coal Measures)		
14.85					03/09/1999:12.10m	112.83	15.40	Complete at 15.40m		
Remarks								Scale (approx) 1:50	Logged By NBR	
								Figure No.		