
 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL						Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade		Borehole Number M47A			
Machine: Flush : Core Dia: mm Method :			Casing Diameter			Ground Level (mOD) 168.70		Client Highways Agency		Job Number F11451	
			Location 444974.9 E 359794.49 N			Dates 19/09/1999		Engineer WSP Environmental Ltd		Sheet 1/2	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.00-0.30					D01 0 blows		(0.30)	TOPSOIL.			
0.30-0.40					D02 0 blows	168.40	0.30				
0.40-0.80	26	0	0	98	D03 0 blows	168.30	0.40	MADE GROUND: Brown sandy clay with some fine to coarse angular gravel sized fragments of limestone, sandstone and quartz.			
0.80-1.00					D04 0 blows	167.90	0.80	MADE GROUND: Light grey slightly sandy medium and coarse angular gravel sized fragments of limestone.			
1.00							(1.20)	MADE GROUND: Brown very sandy clay with much fine to coarse angular and subangular gravel sized fragments of sandstone, siltstone, quartz, mudstone and coal.			
2.00-2.45	33	0	0	98	8,9/8,9,9,8 SPT N=34	166.70	2.00	MADE GROUND: Brown very clayey very sandy fine to coarse subangular to rounded gravel sized fragments of sandstone, quartz and siltstone.			
2.45							(1.00)				
3.00-3.45	73	0	0	98	6,8/8,8,9,8 SPT N=33	165.70	3.00	MADE GROUND: Brown very sandy clay with much fine to coarse angular gravel sized fragments of sandstone, mudstone, siltstone, quartz and coal.			
3.45	60	0	0	99			(1.00)				
4.00	92	26	0	99	Seepage(1) at 4.00m, sealed at 7.80m.	164.70	4.00	Light grey and orange thinly and very thinly bedded subhorizontal moderately weathered fine and medium grained SANDSTONE, moderately weak and moderately strong with very closely and closely spaced subhorizontal fractures open rough planar iron stained. (Coal Measures) ---from 4.00m to 5.35m non intact recovered as clayey gravel		V1	
5.00			0	13							
5.35			0	25			(3.50)				
6.00	27	3	0	25				---from 6.00m becomes slightly weathered with extremely closely spaced random fractures open and tight rough planar and irregular			
6.30			0	13							
7.50	83	17	0	0		161.20	7.50	Light grey and brown very thinly and thinly bedded subhorizontal slightly weathered fine and medium grained SANDSTONE, moderately weak and moderately strong with very closely and closely spaced subhorizontal fractures open rough planar and medium spaced subvertical fractures open rough planar. (Coal Measures)			
7.80			0	99			(1.50)				
8.90	100	0	0	1							
8.95			0								
9.00	95	13	0	99		159.70	9.00	Grey thinly and thickly laminated subhorizontal moderately to highly weathered MUDSTONE, weak and very weak with extremely and very closely spaced random fractures open smooth planar clay smeared. (Coal Measures)			
9.30			0	25							
9.40			0	25							
Remarks 1. Inspection pit excavated to 1.00m. 2. Borehole complete at 16.00m. 3. 50mm slotted standpipe installed at 16.00m. 4. Marker Post Ref 221/4-30S.								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
10.40							(2.00)			
10.80-10.90	100	0	0	98	12,13/0,0,0,0 SPT(C) 25/95	157.70	11.00	Very soft light grey CLAY with much fine to coarse angular and subangular gravel and occasional cobbles of mudstone. (Workings?) (Coal Measures)		
10.89	100	0	0	98			(1.43)			
11.15	76	44	22	98			12.43	Light grey thinly laminated subhorizontal thinly and medium bedded subhorizontal slightly weathered fine and medium grained SANDSTONE, moderately strong with closely and medium spaced subhorizontal and subvertical fractures open rough planar and irregular iron stained. (Coal Measures)		
12.20			0	99	Slow(2) at 12.20m, sealed at 100000.00m.	156.27				
12.40			0	2						
13.25			0	99						
13.40	100	87	43	0						
13.70			0	7						
13.80	97	66	0	99			(3.57)			
14.60			0	25				---from 14.80m to 15.80m fractures become very closely and closely spaced		
14.80			0	25						
15.80					19/09/1999:13.00m	152.70	16.00	---from 15.80m becomes highly weathered very weak locally weak and moderately weak with extremely closely spaced random fractures tight smooth irregular clay smeared Complete at 16.00m		
Remarks								Scale (approx) 1:50	Logged By NBR	
								Figure No.		