
 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL							Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade		Borehole Number M30	
Machine: Flush : Core Dia: mm Method :			Casing Diameter		Ground Level (mOD) 112.67		Client Highways Agency		Job Number F11451	
			Location 445286.81 E 366790.87 N		Dates 09/09/1999		Engineer WSP Environmental Ltd		Sheet 1/2	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30-0.70	25	0	0	98	D01 0 blows	112.47	(0.20) 0.20	TOPSOIL.		
0.70							(1.55)	MADE GROUND: Grey and brown clayey sandy fine to coarse angular gravel sized fragments of sandstone.		
1.50-1.95	100	0	0	98	3,2/3,3,3,3 SPT N=12	110.92	1.75	MADE GROUND: Brown very sandy clay with some to much fine to coarse angular to subangular gravel sized fragments of mudstone, quartz and sandstone.		
1.95	100	0	0	98	4,7/12,38,0,0 SPT 50/150	109.97	(0.95) 2.70	Stiff orangish brown very sandy CLAY with some fine to coarse angular gravel sized fragments of sandstone. (Glacial Till)		
2.50-2.80							(1.63)			
2.80	100	27	0	98	2,3/3,7,12,28 SPT 50/250	108.34	4.33	Grey and orange very thinly and thinly bedded subhorizontal moderately weathered medium grained SANDSTONE, moderately weak to moderately strong with extremely closely and very closely spaced subhorizontal and random fractures open rough irregular. (Coal Measures)		
3.50-3.90			0	25	25,0/50,0,0,0 SPT 50/50	106.57	6.10	Grey and orangish brown thinly laminated subhorizontal very thinly bedded subhorizontal highly locally moderately weathered SILTSTONE, weak and moderately weak with extremely closely and very closely spaced subhorizontal fractures open smooth planar iron stained. (Coal Measures)		
3.90						105.82	6.85	Stiff grey thinly laminated CLAY. (Completely Weathered Mudstone)		
4.33	100	65	34	25	25,0/50,0,0,0 SPT 25*/100 50/50	105.37	7.30	Grey indistinctly thinly laminated occasionally very thinly bedded subhorizontal highly weathered MUDSTONE, weak and very weak with extremely closely spaced random fractures tight smooth irregular. (Coal Measures)		
4.50-4.70			0	3			(2.00)	---from 7.90m to 8.50m non intact		
4.70	75	30	13	4	25,0/50,0,0,0 SPT 25*/75 50/25	103.37	9.30	Grey and orangish brown thinly and thickly laminated subhorizontal thinly and medium bedded subhorizontal moderately to highly weathered fine and medium SANDSTONE, moderately weak and moderately strong with closely and very closely spaced subhorizontal		
5.00			0	25				---from 9.00m to 9.14m grey thinly laminated siltstone, very weak, non intact		
5.50										
5.50-5.50										
6.10	100	18	0	25						
6.50-6.65			0	98						
6.65			0	99						
6.85										
7.30	100	0	0	25						
7.50-7.60			0	99						
7.60			0	25						
7.90										
8.50	100	71	8	99						
9.00			0	25						
9.14			0	19						
9.30			0	10						
9.50			0	25						
9.80										
Remarks 1. Inspection pit excavated to 0.70m. 2. Borehole complete at 15.00m. 3. 50mm diameter standpipe installed to 15.00m. 4. Marker Post Ref 228/4 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
10.50	100	81	20	0				fractures open rough planar and medium spaced subvertical fractures open rough planar and irregular. (Coal Measures)		
11.00			0	10			(3.15)	---from 10.80m to 11.00m highly weathered with extremely closely and very closely spaced random fractures ---from 11.00m fractures become closely and medium spaced subhorizontal open rough planar		
12.00	90	54	15	8						
12.55			0	25		100.22 100.12	12.45 12.55	Grey thinly laminated highly weathered MUDSTONE, weak with extremely closely spaced subhorizontal fractures tight smooth planar. (Coal Measures)		
13.00	60	25	0	0				Black moderately weathered COAL, weak with extremely closely spaced subhorizontal and subvertical fractures tight and open, smooth planar. (Coal Measures)		
13.50			0	97			(1.65)			
14.00			0	25						
14.50	80	70	52	5		98.47	14.20	Light and dark grey thinly interbedded subhorizontal moderately weathered MUDSTONE and carbonaceous mudstone weak and moderately weak with extremely closely and very closely spaced subhorizontal and random fractures open and tight smooth planar clay smeared. (Coal Measures)		
					09/09/1999:13.30m	97.85 97.67	14.82 (0.18) 15.00	---from 14.00m moderately weathered, very thinly and thinly bedded mudstone, moderately weak with very closely and closely spaced subhorizontal fractures Light grey thinly bedded subhorizontal slightly weathered fine SANDSTONE, moderately strong with extremely closely spaced subhorizontal fractures open rough planar. (Coal Measures)		
								Complete at 15.00m		
Remarks								Scale (approx) 1:50	Logged By NBR	
								Figure No.		