
 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL								Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade		Borehole Number M31	
Machine: Flush : Core Dia: mm Method :			Casing Diameter		Ground Level (mOD) 94.66		Client Highways Agency		Job Number F11451B		
			Location 445343.93 E 368124.81 N		Dates 24/08/1999		Engineer WSP Environmental Ltd		Sheet 1/2		
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.05-0.05					D1		(0.60)	MADE GROUND: Light brown mottled grey and orange sandy clay with occasional medium angular gravel sized fragments of sandstone.			
0.50-0.80					D2	94.06	0.60	MADE GROUND: Dark grey fine to coarse angular gravel sized fragments of carbonaceous mudstone.			
						93.96	0.70				
						93.86	0.80	MADE GROUND: Light brownish grey sandy medium to coarse angular gravel sized fragments of limestone.			
							(0.40)	MADE GROUND: Grey mudstone and limestone. (Driller's description)			
						93.46	1.20	MADE GROUND: Dark brown slightly sandy clay with some to much fine to coarse angular to rounded gravel sized fragments of siltstone, sandstone, mudstone, quartz, limestone and coal.			
								---from 3.20m to 5.35m very sandy			
								---from 4.20m becomes brownish grey mottled orangish brown with many root and rootlet traces with grey gleying			
								---from 6.00m to 6.20m dark grey ---from 6.20m with much fine to coarse angular to rounded gravel and occasional cobbles			
							(12.35)	---from 7.45m becomes dark brownish grey mottled orange and light grey			
Remarks 1. Inspection pit excavated to 1.20m. 2. Borehole openholed from 0.80m to 1.20m. 3. Borehole complete at 19.70m. 4. Borehole backfilled with grout. 5. MarkerPost Ref 229/7 +50N.								Scale (approx) 1:50		Logged By NBR	
								Figure No.			



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			Location 445343.93 E 368124.81 N		Dates 24/08/1999		Engineer WSP Environmental Ltd			Sheet 2/2	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
								---at 11.20m with some sandstone and mudstone cobbles ---from 11.95m to 12.20m orange and grey sandy clay with much root and rootlet traces with grey gleying			
						81.11	13.55 (2.40)	MADE GROUND: Grey and dark grey very sandy clay with much fine and medium angular to rounded gravel sized fragments of mudstone, sandstone, quartz and coal. (Possible Workings/Colliery Waste)			
						78.71	15.95 (0.75)	Light grey thinly laminated subhorizontal highly weathered MUDSTONE, very weak with extremely closely spaced subhorizontal and random fractures, tight, smooth irregular clay smeared. (Coal Measures)			
						77.96	16.70 (3.00)	---from 16.55m to 16.65m ironstone nodule Grey thinly laminated subhorizontal thinly and very thinly bedded subhorizontal slightly weathered MUDSTONE moderately weak, with very closely and closely spaced subhorizontal and inclined fractures open smooth planar and irregular clay smeared. (Coal Measures)			
						74.96	19.70	---from 19.00m to 19.30m with extremely closely and very closely spaced subhorizontal fractures ---from 19.30m to 19.40m highly weathered very weak with extremely closely spaced random fractures Complete at 19.70m			
Remarks								Scale (approx)	Logged By		
								1:50	NBR		
								Figure No.			