



<div><div><div>British Geological Survey</div><div>NATURAL ENVIRONMENT RESEARCH COUNCIL</div></div></div>						Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade		Borehole Number M29B			
Machine: Flush : Core Dia: mm Method :			Casing Diameter			Ground Level (mOD) 103.40		Client Highways Agency		Job Number F11451	
			Location 445315.41 E 365300.85 N			Dates 24/08/1999- 26/08/1999		Engineer WSP Environmental Ltd		Sheet 1/3	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
							(0.90)	MADE GROUND: Greyish brown sandy clay with some fine and medium angular gravel sized fragments of limestone, sandstone and mudstone.			
						102.50	0.90	MADE GROUND: Sandstone and mudstone backfill. (Driller's description)			
	10	0	0	98			(7.30)				
						95.20	8.20	MADE GROUND: Limestone backfill. (Driller's description)			
							(0.80)				
9.00					24/08/1999:0.00m 25/08/1999:	94.40	9.00	MADE GROUND: Brown sandy clay with much fine to coarse angular to subrounded gravel fragments of sandstone, mudstone, quartz, coal and limestone.			
	27	0	0	98							
Remarks 1. Inspection pit excavated to 0.90m. 2. Borehole openholed to 9.00m. 3. Borehole complete at 21.00m. 4. Borehole backfilled with grout. 5.Marker Post Ref 226/9 +15N.									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	
10.50-10.95					1,2/2,3,3,3 SPT N=11		(3.35)				
10.95											
12.00-12.45					1,1/2,2,3,3 SPT N=10						
12.45						91.05	12.35	Firm grey indistinctly thinly laminated slightly sandy CLAY with much fine and medium subangular mudstone lithorelicts. (Completely Weathered Mudstone) (Coal Measures)			
13.06						90.34	13.06	Grey thinly cross laminated subhorizontal very thinly bedded subhorizontal slightly weathered fine and medium grained SANDSTONE, moderately weak to moderately strong with very closely and closely spaced subhorizontal fractures open rough planar. (Coal Measures)			
13.50-13.54					25,0/50,0,0,0 SPT 25*/20 50/20	89.90	13.50	---from 13.20m vertical open rough irregular iron stained fracture			
13.54							(0.70)				
14.20						89.20	14.20	Grey thinly laminated subhorizontal medium bedded subhorizontal highly weathered MUDSTONE, very weak with extremely closely spaced random fractures tight smooth irregular clay smeared. (Coal Measures)			
							(1.26)				
15.00-15.02					25,0/50,0,0,0 SPT 25*/10 50/10			Grey thinly laminated subhorizontal very thinly subhorizontal moderately weathered medium grained SANDSTONE, weak locally moderately weak with very closely spaced subhorizontal fractures open rough planar and closely spaced subvertical fractures open rough irregular iron stained. (Coal Measures)			
15.02						87.94	15.46	---from 15.00m fractures become closely and very closely spaced			
15.46								Grey thinly laminated subhorizontal thinly and very thinly bedded subhorizontal highly weathered MUDSTONE, weak with extremely closely spaced random fractures tight smooth irregular clay smeared. (Coal Measures)			
								---from 16.50m to 18.00m non intact (possible workings)			
16.50-16.85					8,8/17,18,15,0 SPT 50/200		(3.29)				
16.85											
					7,9/15,14,21,0 25/08/1999:9.27m						
18.00-18.35					25/08/1999: SPT 50/200			---from 18.50m dark grey carbonaceous mudstone, very weak non intact (workings)			
18.35					25/08/1999:0.00m						
18.50					26/08/1999:	84.65	18.75	No recovery. (Workings?)			
18.75							(0.75)				
19.50-19.55					25,0/50,0,0,0 SPT 25*/20 50/30	83.90	19.50	Black vitreous moderately weathered COAL weak with extremely closely spaced subhorizontal and subvertical fractures tight smooth planar. (Coal Measures)			
19.55											
Remarks								Scale (approx) 1:50		Logged By NBR	
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Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
			0	98			(1.45)			
20.95					26/08/1999:9.25m 26/08/1999:	82.45 82.40	20.95 21.00	Very stiff grey extremely closely fissured fossiliferous silty CLAY. (Completely Weathered Seatearth) Complete at 21.00m		
Remarks							Scale (approx) 1:50		Logged By NBR	
							Figure No.			