





| | | | | | | | | | | |
|--|------------|------------|--|-----------|---|--------------------|--|---|--------------------------------------|-------------------|
|  British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL | | | | | | | Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade | | Borehole Number M28 | |
| Machine: Flush : Core Dia: mm Method : | | | Casing Diameter | | Ground Level (mOD) 110.15 | | Client Highways Agency | | Job Number F11451 | |
| | | | Location 445233.24 E 364490.15 N | | Dates 05/09/1999- 06/09/1999 | | Engineer WSP Environmental Ltd | | Sheet 1/2 | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water |
| 0.00-0.40 | | | | | D01 0 blows | 110.00 | (0.15) 0.15 | TOPSOIL. | | |
| 0.40-1.10 | 7 | 7 | 0 | 97 | D02 0 blows | | (0.85) | MADE GROUND: Light greyish brown medium and coarse angular gravel sized fragments of limestone. | | |
| 1.00-1.45 | | | | | 1,2/2,3,3,3 SPT N=11 | 109.15 | 1.00 | Grey thinly laminated subhorizontal very thinly and thinly bedded subhorizontal moderately weathered MUDSTONE, weak and very weak with very closely and closely spaced subhorizontal fractures open smooth planar and medium spaced subvertical fractures open rough planar iron stained. (Coal Measures) | | |
| 1.45 | | | 0 | 99 | | | | | | |
| 1.96 | | | | | 1,1/2,13,17,18 SPT 50/270 | | | | | |
| 2.00-2.42 | 100 | 51 | 0 | 99 | | | | | | |
| 2.42 | | | 0 | 10 | | | | | | |
| 2.60 | 86 | 42 | 0 | 99 | | | (3.30) | | | |
| 3.00-3.15 | | | | | 9,16/50,0,0,0 SPT(C) 25*/105 50/45 | | | | | |
| 3.15 | | | | | | | | | | |
| | 100 | 82 | 45 | 15 | | | | | | |
| 4.50-4.76 | | | | | 5,10/15,35,0,0 SPT(C) 50/110 | 105.85 | 4.30 | Light brown and grey thinly laminated subhorizontal very thinly and thinly bedded subhorizontal moderately weathered SILTSTONE, weak to moderately weak with very closely and closely spaced subhorizontal fractures open smooth planar and medium spaced subvertical fractures open smooth planar with much black and orange staining. (Coal Measures) | | |
| 4.76 | | | 0 | 8 | | | | | | |
| 5.50 | | | | | | | | | | |
| | 100 | 63 | 0 | 0 | | | | | | |
| 6.00 | | | 0 | 99 | 05/09/1999:0.00m | | | | | |
| | | | 0 | 99 | 06/09/1999: | | | | | |
| 6.50 | | | 0 | 3 | | | | | | |
| 6.70 | | | 0 | 99 | | | | | | |
| 7.00 | 97 | 40 | 0 | 99 | | | | | | |
| 7.50 | | | 0 | 11 | | | (6.98) | | | |
| 8.50 | 96 | 37 | 0 | 0 | | | | | | |
| 9.00 | | | 0 | 99 | | | | | | |
| 9.40 | | | | | | | | | | |
| | 89 | 29 | 0 | 0 | | | | | | |
| Remarks 1. Inspection pit excavated to 1.00m. 2. Borehole complete at 15.00m. 3. Borehole backfilled with arisings. 4. Marker Post Ref 226/0 +90N. | | | | | | | | Scale (approx) 1:50 | Logged By NBR | Figure No. |



| | | | | | | | | | | |
|--|-----|-------------------------------------|-----|--------------------------------|--|---|-----------------------|--|-------------------------------|------------|
|  British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL | | | | | | Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade | | | Borehole Number M28 | |
| Machine: Flush : Core Dia: mm Method : | | Casing Diameter | | Ground Level (mOD) 110.15 | | Client Highways Agency | | | Job Number F11451 | |
| | | Location 445233.24 E 364490.15 N | | Dates 05/09/1999-06/09/1999 | | Engineer WSP Environmental Ltd | | | Sheet 2/2 | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water |
| 10.50 | | | | | Moderate(1) at 10.00m, sealed at 100000.00m. | | | | | ∇1 |
| | | | 0 | 11 | | 98.87 | 11.28 | | | |
| 11.54 | 84 | 39 | 0 | 99 | | | | Grey very thin and thinly bedded subhorizontal moderately weathered SILTSTONE, weak and very weak, locally moderately weak with very closely spaced subhorizontal fractures open planar smooth and medium spaced subvertical fractures open and tight smooth planar with occasional clay smearing. (Coal Measures) | | |
| 12.00 | | | 0 | 4 | | | | | | |
| 12.10 | | | 0 | 99 | | | | | | |
| 12.30 | | | 0 | 20 | | | | | | |
| 12.50 | 71 | 44 | 0 | 99 | | | (3.22) | | | |
| 13.50 | | | 0 | 25 | | | | | | |
| 13.80 | | | 0 | 9 | | | | —from 13.80m to 14.20m thinly laminated subhorizontal with extremely closely spaced random fractures tight smooth irregular | | |
| 14.20 | | | 0 | 98 | | 95.65 | 14.50 | Soft grey CLAY with much fine to coarse angular and subangular gravel of mudstone. (completely weathered mudstone (Coal Measures) | | |
| 14.50 | | | 0 | 97 | | | (0.50) | —from 14.60m to 15.00m no recovery | | |
| 14.60 | | | | | 06/09/1999: 9.50m 06/09/1999: | 95.15 | 15.00 | Complete at 15.00m | | |
| Remarks | | | | | | Scale (approx) 1:50 | | Logged By NBR | | Figure No. |