

| (BCB) | British Geologica NATURAL ENVIRO | | • | 501 | | | | Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade | Boreho Numbe M45 | er |
|---------------------------|--|------------|--|---------|--|------------------------------------|-----------------------------|---|-------------------------|-------|
| Flush : | | | Casing | Diamete | er | Ground Level (mOD) 109.83 | | Client Highways Agency | Job Number F11451 | |
| Core Dia: mm Method: | | | Location 445268.85 E 364467.93 N | | | Dates 26/08/1999- 01/09/1999 | | Engineer WSP Environmental Ltd | Sheet | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water |
| 0.70-0.80 0.80-1.25 | 70 | 0 | 0 | 98 | 3,2/2,3,3,4 D01 0 blows SPT N=12 | 109.63 109.13 | (0.50) 0.70 | TOPSOIL. MADE GROUND: Light brown slightly clayey sandy medium and coarse angular gravel sized fragments of limestone. Firm orangish brown and grey mottled sandy CLAY with many root and rootlet traces with grey gleying. (Glacial Till) | | |
| 1.25 | | | 0 | 98 | | | (1.30) | | | |
| 2.00 2.00-2.22 2.22 | 51 | 9 | 0 | 0 25 | 10,15/27,23,0,0 SPT 25*/115 50/105 | 107.83 | 2.00 | Grey thinly laminated subhorizontal very thinly bedded subhorizontal moderately weathered SiLTSTONE, weak with very closely and extremely closely spaced subhorizontal and subvertical fractures open rough planar with much iron staining. (Coal Measures) | | |
| 2.75 3.00-3.45 | 89 | 34 | 0 | 99 | 6,11/17,10,9,12 SPT N=48 | 106.93 106.83 | | Brown very sandy CLAY with much fine to medium angular gravel of siltstone. (Workings?) (Coal Measures) Grey very clayey sandy fine to coarse angular and | | |
| 3.45 3.80 | | | 0 | 25 | - | | (1.80) | subángular GRÁVEL óf mudstone and ironstone. (Workings?) (Coal Measures) | | |
| 4.00-4.33 4.33 | 64 | 6 | 0 | 25 | 10,13/15,24,11,0 SPT 50/180 | | (1.50) | | | |
| 5.00-5.28 5.27 | 86 | 52 | 0 | 25 | 9,15/27,23,0,0 SPT 50/125 | 105.03 | 4.80 | Grey thinly and thickly laminated subhorizontal moderately weathered MUDSTONE, weak with very closely and extremely closely spaced subhorizontal fractures open smooth planar clay smeared and closely spaced subvertical and inclined fractures open smooth irregular, (Coal | | |
| 5.55 6.00-6.31 | 28 | 28 | 0 | 97 | 9,10/16,28,6,0 SPT 50/155 | | | Measures) | | |
| 6.30 | | | 0 | 4 | _ | | | from 6.05m to 6.08m brown ironstone band, strongfrom 6.35m becomes very thinly and thinly bedded slightly to moderately weathered weak to moderately weak with very closely and closely spaced | | |
| 6.80 7.00-7.12 7.11 | 90 | 64 | 22 | 8 | 25,0/50,0,0,0 SPT 25*/70 50/45 | | (4.75) | subhorizontal fractures and medium spaced subvertical and inclined fractures | | |
| 7.85 | 100 | 77 | 14 | 25 | 25,0/50,0,0,0 26/08/1999:0.00m | | | from 7.85m to 8.00m extremely closely and very closely spaced random fractures open smooth clay | | |
| 8.08 8.00-8.09 | | | 0 | 13 | 01/09/1999: SPT(C) 25*/50 50/35 | | | smeared , | | |
| 9.00 | 100 | 75 | 0 | 99 | | 100.28 | 9,55 | from 9.50m to 9.55m non intact | | |
| 9.55 10.00 Remarks | | | 0 | 20 | | 35,20 | | Grey thinly cross laminated subhorizontal thinly and very thinly bedded subhorizontal slightly and moderately weathered SILTSTONE, very weak and weak with | | |
| | n pit excava | ated to 0. | 80m. 2. E | orehole | complete at 15.15m. | 3. Boreho | le backfilled v | with arisings. 4. Marker Post Ref 226/1 - 30S. Scale (approx) | Logged | ţ |
| | | | | | | | | 1:50 Figure P | NBR Io. | |



| (856) | British Geologica NATURAL ENVIRO | | | 11. | | | | Site Nottinghamshire/ Derbyshire COA NMCS2 Upgrade | Boreho Number M45 | |
|--------------------------|--|-----|---|---------|--|------------------------------------|--|--|-------------------------|--|
| Machine: Flush : | | | Casing | Diamete | PF | | Level (mOD) 09.83 | Client Highways Agency | Job Number F11451 | |
| Core Dia: mm Method : | | | Location 445268.85 E 364467.93 N | | | Dates 26/08/1999- 01/09/1999 | | Engineer WSP Environmental Ltd | Sheet 2/2 | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | |
| | | | 0 | 25 | | 99.59 | (0.69) | extremely closely and very closely spaced subhorizontal fractures open, smooth planar iron stained and medium spaced subvertical fractures open rough irregular iron stained. (Coal Measures) | | |
| 10.68 10.80 10.90 | 98 | 71 | 0 | 10 | | | | Light greyish brown thinly and medium bedded subhorizontal moderately weathered medium grained SANDSTONE, very weak and weak with closely and medium spaced subhorizontal fractures open rough planar and very closely spaced subvertical and inclined fractures open rough irregular with black and orange iron staining. (Coal Measures) —from 10.80m to 10.85m grey highly weathered | | |
| 11.80 | 99 | 37 | 0 | 0 | | | | siltstone, very weak | | |
| 12.80 | 100 | 52 | 9 | 0 | | | (4.91) | | | |
| 13.70 | | | 0 | 25 | | | | | | |
| 14.03 14.30 14.70 | | | 0 | 7 25 | | | | from 14.03m to 14.09m soft greyish brown very sandy clayfrom 14.30m to 14.80m with much iron staining and occasional coarse gravel sized vugs | | |
| | | | (di | 56) | 01/09/1999:11.10n 01/09/1999: 01/09/1999:5.30m | 94.68 | 15.15 | Complete at 15.15m | | |
| | | | | | | (| | | | |
| Remarks | | | (6) | 35) | | | <u>- </u> | Scale (approx 1:50 | NBR | |