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|--|------------|------------|--|-----------|---|--------------------|----------------------------------|---|---------------------------------|----------------------------------|--|
|  British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL | | | | | | | | Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI-CONTRACT 2 | | Borehole Number RC1195 | |
| Machine: Flush : Core Dia: mm Method : | | | Casing Diameter 140mm cased to 3.00m | | Ground Level (mOD) 141.35 | | Client Highways Agency | | Job Number WAL060099A | | |
| | | | Location 444639 E 358215 N | | Dates 12/09/2006 | | Engineer Arup | | Sheet 1/2 | | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water | |
| 0.00 | PIT | | 0 | 0 | Groundwater was not apparent during boring(1) at 0.00m. | | | OPEN HOLE | | V1 | |
| | OH | | 0 | 0 | | | (1.90) | | | | |
| 1.20 | 100 | 82 | 0 | 0 | | | | | | | |
| 1.90 | | | 0 | 0 | | 139.45 | 1.90 (0.30) | Recovered non-intact as weak light brown weathered fine to medium SANDSTONE, locally very clayey. | | | |
| 2.20 | | | | | | 139.15 | 2.20 | Very weak blue grey and orange brown thinly laminated very weathered SILTSTONE. Frequent dark brown and orange discolouration, locally thinly laminated deposition. Fractures, where evident, subvertical and vertical, irregular, extremely closely to closely spaced. | | | |
| 2.60 | 91 | 76 | 0 | 0 | P1 | | | Between 2.20m and 2.30m; generally recovered as extremely closely and very closely fissured silt/clay. | | | |
| 3.00 | | | 0 | 0 | | | (2.00) | | | | |
| 3.30 | | | | | | | | | | | |
| 4.05 | | | 0 | 0 | P2 | | | | | | |
| 4.20 | 96 | 81 | 34 | 0 | | 137.15 | 4.20 | Weathered MUDSTONE recovered as stiff to very stiff blue grey friable thinly laminated extremely closely fissured silt/clay. | | | |
| 4.70 | | | 0 | 0 | | | | Between 4.75m and 4.85m; very thin beds of moderately strong brown ironstone (25mm-50mm). | | | |
| 5.05 | | | 0 | 0 | | | (1.70) | Between 5.05m and 5.35m; medium bed of weak brittle black coal, Fractures, horizontal and vertical, extremely closely to very closely spaced, irregular. | | | |
| 5.35 | | | 0 | 0 | | | | | | | |
| 5.90 | | | | | P3 | 135.45 | 5.90 | Generally weak (variably very weak and moderately weak) light and dark grey thinly colour laminated SILTSTONE closely to medium interbedded (thin and medium beds) with weak and moderately weak grey fine grained sandstone with occasional (locally very frequent) very thin brown and black wispy non-persistent laminae. Frequent orange discolouration throughout. | | | |
| 6.15 | 98 | 97 | 22 | 0 | | | | Between 5.90m and 8.20m; fractures, horizontal (5 to 15 degrees), very closely and closely spaced, smooth, planar; subvertical and vertical, very closely spaced, irregular. | | | |
| 7.50-7.70 | | | | | C4 | | | | | | |
| 7.70 | | | 0 | 0 | | | | | | | |
| 8.20 | | | | | P5 | | | At 8.05m; discolouration vug (15mmx20mm). At 8.10m; 25mm bed moderately strong ironstone. Between 8.20m and 11.85m; fractures, horizontal and subhorizontal (5 to 30 degrees), closely and medium spaced, smooth, planar and undulating, very tight to open, vertical (75 to 85 degrees), smooth, planar and undulating, very tight to moderately open. | | | |
| 8.60 | 100 | 100 | 33 | 0 | | | (5.95) | | | | |
| | | | | | | | | At 9.45m; discolouration vug (20mmx28mm). | | | |
| Remarks | | | | | | | | Scale (approx) 1:50 | Logged By TL | | |
| | | | | | | | | Figure No. | | | |
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| | | | Location 444639 E 358215 N | | | Dates 12/09/2006 | | Engineer Arup | | Sheet 2/2 | |
| Depth (m) | TCR | SCR | RQD | FI | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water | |
| 10.10 | | | | | P6 | | | At 10.10m; thinly laminated ferrous mineralisation. | XXXXXXXXXX | | |
| 10.70 10.70-10.98 | | | | | C10 | | | | XXXXXXXXXX | | |
| 11.40-11.73 | | | 0 | 0 | C7 | | | Between 11.10m and 11.70m; locally speckled black. | XXXXXXXXXX | | |
| 11.85 | 91 | 70 | 12 | 0 | | 129.50 | 11.85 | Weak (variably very weak) dark grey thinly to thickly laminated MUDSTONE. Orange discolouration on fractures, frequently penetrating up to 50mm. Fractures, horizontal (5 to 20 degrees) very closely and closely spaced (30/65/130) smooth, planar to irregular, vertical, smooth planar, others subvertical, irregular, apparently random strike. | XXXXXXXXXX | | |
| 13.40 | | | | | | | | At 13.20m; 50mm bed moderately strong ironstone. | XXXXXXXXXX | | |
| 13.75 | | | | | P8 | | (5.25) | | XXXXXXXXXX | | |
| 15.45 | 100 | 77 | 0 | 0 | P9 | | | At 15.05m; 45mm bed moderately strong ironstone. At 15.40m; 55mm bed moderately strong ironstone. | XXXXXXXXXX | | |
| 16.40 | | | 0 | 0 | | | | At 16.30m; 50mm bed moderately strong ironstone. Between 16.40m and 16.85m; recovered as grey clay. | XXXXXXXXXX | | |
| 16.85 | | | 0 | 0 | | | | Between 16.85m and 17.10m; very weak, extremely closely fractured. | XXXXXXXXXX | | |
| 17.10 | | | 0 | 0 | | 124.25 | 17.10 (0.55) | Weak brittle thinly laminated black COAL with occasional flecks of pyrite. Fractures, horizontal and vertical, extremely closely and very closely spaced. | XXXXXXXXXX | | |
| 17.65 | | | | | | 123.70 | 17.65 (0.50) | Very weak dark grey thinly laminated MUDSTONE with occasional black carbonised plant remains variably recovered as stiff extremely closely fissured silt/clay. | XXXXXXXXXX | | |
| | | | | | 12/09/2006: | 123.20 | 18.15 | Complete at 18.15m | XXXXXXXXXX | | |
| | | | | | 12/09/2006: | | | | | | |
| | | | | | 12/09/2006: | | | | | | |
| Remarks | | | | | | | | Scale (approx) 1:50 | Logged By TL | | |
| | | | | | | | | Figure No. | | | |