


|   |                  |                              |             |  |   |              |               |                |
|---|------------------|------------------------------|-------------|--|---|--------------|---------------|----------------|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter   |                  |                              |             | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants.<br>491036-290856  |   |              |               |                |
| Sample/Test   |                  | Drilling and Casing Progress | Water Level | Blows N<br>U100 Blows<br>TCR (%)<br>(RQD (%))  | Description of Strata   | Ground Level |               | 105.00 (m(OD)) |
| Depth (m)   | T<br>Y<br>P<br>E |                              |             |  |   | Depth (m)    | Level m (OD)  | Legend         |
|   |                  |                              |             |  | MADE GROUND: Topsoil.   | (F)          | 0.20          | 104.80         |
| 3.50  | D                |                              |             |  | MADE GROUND: Firm, brown and grey, slightly sandy silty Clay, wit a little fine to coarse, angular to subrounded chalk and sandstone gravel. Sandy between 2.20m and 6.80m. |              |               |                |
| 6.00  | D                |                              |             |  |   |              |               |                |
| 6.80  | D                |                              |             |  |   |              |               |                |
| 7.50  | D                |                              |             |  |   | (F)          | 7.50          | 97.50          |
| 7.90  | D                |                              |             |  |   |              |               |                |
| 8.70  | D                |                              |             |  | MADE GROUND: Soft to firm, brown and black, slightly peaty slightly sandy Silt, with some organic debris below 8.70m.   |              |               |                |
| Remarks   |                  |                              |             |  |   |              |               |                |
| Borehole slabbed upon completion.<br>Borehole sealed with bentonite up to 10.0m.<br>Borehole dry throughout drilling. |                  |                              |             | Day works - 30 minutes washing down equipment.   |   |              |               |                |
| Client<br>Commission for the New Towns / F.G.C.E.L.   |                  |                              |             |  Geotechnical & Materials Consultants Ltd. |   |              | Scale 1:50    |                |
|   |                  |                              |             |  |   |              | Report 96/027 |                |

|   |  |
|---|--|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants. |
|---|--|

491036-290856

| Sample/Test                | TYPE | Drilling and Casing Progress | Water Level | Blows N                            | Description of Strata  | Ground Level | 105.0(       | m(OD) | Legend |
|----------------------------|------|------------------------------|-------------|------------------------------------|--|--------------|--------------|-------|--------|
| Depth (m)                  |      |                              |             | U100 Blows<br>TCR (%)<br>(RQD (%)) |  | Depth (m)    | Level m (OD) |       |        |
| 10.50                      | D    |                              |             |                                    | MADE GROUND: Soft to firm, brown and black, slightly peaty slightly sandy Silt, with some organic debris below 8.70m. (F)  | 10.50        | 94.5         |       |        |
|                            |      | 06.03.96                     |             |                                    | MADE GROUND: Firm, grey and orange, slightly sandy Clay, with a little fine and medium, subangular to subrounded sandstone gravel and occasional pockets and partings of grey silty medium sand. (F) | 11.50        | 93.5         |       |        |
| Empty space for data entry |      |                              |             |                                    |  |              |              |       |        |

Remarks

Type and Diameter of Boring  
 Light Cable Percussion  
 150mm diameter

Location  
 Shelton Road / Willowbrook Rd  
 Corby, Northants. 49082(-290803)

| Sample/Test | Drilling and Casing Progress | Water Level | Blows N    |                   | Description of Strata  | Ground Level |              | Legend |
|-------------|------------------------------|-------------|------------|-------------------|--|--------------|--------------|--------|
|             |                              |             | U100 Blows | TCR (%) (FQD (%)) |  | Depth (m)    | Level m (OD) |        |
| Depth (m)   | T<br>Y<br>P<br>E             |             |            |                   |  |              |              |        |
|             |                              |             |            |                   | MADE GROUND: Topsoil.  | (F)          | 0.20 106.3   |        |
| 1.70        | D                            |             |            |                   | MADE GROUND: Soft to firm, light brown and grey, slightly silty Clay, with some fine to coarse, angular to subrounded sandstone, chalk and flint gravel. | (F)          | 1.70 104.8   |        |
| 6.00        | D                            |             |            |                   | MADE GROUND: Soft, black, slightly sandy Silt, brown in colour between 2.20m and 7.00m.  |              |              |        |
| 7.00        | D                            |             |            |                   |  |              |              |        |
| 7.80        | D                            |             |            |                   |  | (F)          | 7.80 98.7    |        |
| 9.00        | DW                           | 05.03.96    |            |                   | MADE GROUND: Firm to stiff, grey, light brown and orange-brown, slightly sandy Clay, with some fine to coarse, angular to subrounded sandstone gravel.   | (F)          | 9.00 97.5    |        |

Remarks

Borehole slabbed upon completion.  
 Borehole sealed with bentonite up to 7.50m.  
 Day works - 30 minutes washing down equipment.

Client

Commission for the New Towns / F.G.C.E.L.




Geotechnical & Materials Consultants Ltd.

Scale 1:50

Report 96/027



|   |                  |                              |             |   |              |                       |           |
|---|------------------|------------------------------|-------------|---|--------------|-----------------------|-----------|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter |                  |                              |             | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants.<br>49077(-290831)  |              |                       |           |
| Sample/Test   |                  | Drilling and Casing Progress | Water Level | Blows N   | Ground Level | 106.5( m(OD)          |           |
| Depth (m)   | T<br>Y<br>P<br>E |                              |             | U100 Blows<br>TCR (%)<br>(RQD (%))  |              | Description of Strata | Depth (m) |
|   |                  |                              |             | MADE GROUND: Soft, black, slightly sandy Silt, very soft and damp below 12.90m.   |              |                       |           |
|   |                  |                              |             | (F)   |              |                       |           |
| 14.60   | D                | 28.02.96                     |             | Orange-brown, slightly clayey, fine and medium, SAND, with occasional fine to coarse, angular to subrounded, sandstone and ironstone nodules.(Possible Made Ground)(NSI?) | 14.50        | 92.0                  |           |
|   |                  |                              |             |   | 14.65        | 91.8                  |           |
| Remarks   |                  |                              |             |   |              |                       |           |
| Client  |                  |                              |             |  <b>Geotechnical &amp; Materials Consultants Ltd.</b>                                 |              | Scale 1:50            |           |
| Commission for the New Towns / F.G.C.E.L.                               |                  |                              |             |   |              | Report 96/027         |           |

|   |  |
|---|--|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants. |
|---|--|


490821-290844

| Sample/Test | TYPE | Drilling and Casing Progress | Water Level | Blows N                            | Description of Strata  | Ground Level | 106.4( m(OD) | Legend |  |
|-------------|------|------------------------------|-------------|------------------------------------|--|--------------|--------------|--------|--|
| Depth (m)   |      |                              |             | U100 Blows<br>TCR (%)<br>(RQD (%)) |  | Depth (m)    | Level m (OD) |        |  |
|             |      |                              |             |                                    | MADE GROUND: Topsoil.  | (F)          | 0.20         | 106.20 |  |
| 3.00        | D    |                              |             |                                    | MADE GROUND: Firm to stiff, grey and light brown, locally mottled, slightly silty slightly sandy Clay, with a little fine to coarse, angular to subrounded sandstone and chalk gravel. Between 1.90m and 2.30m brown in colour. Between 6.30m and 6.75m light brown in colour. |              |              |        |  |
|             |      |                              |             |                                    |  |              |              |        |  |
| 6.30        | D    |                              |             |                                    |  |              |              |        |  |
| 6.75        | D    |                              |             |                                    |  |              |              |        |  |
| 7.90        | D    |                              |             |                                    |  | (F)          | 7.90         | 98.50  |  |
| 9.50        | D    |                              |             |                                    | MADE GROUND: Soft, black, slightly sandy Silt, between 9.50m and 10.70m brown in colour. Below 12.50m very soft and damp.  |              |              |        |  |

28.02.96


Remarks  
 Borehole sealed with bentonite up to 13.50m.  
 Borehole slabbled upon completion.  
 Day works - 30 minutes washing down equipment.

Client  
 Commission for the New Towns / F.G.C.E.L.



**Geotechnical & Materials Consultants Ltd.**

Scale 1:50  
 Report 96/027

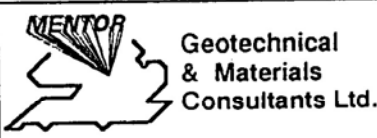
| Type and Diameter of Boring   |      |                              |             | Location  |                   |               |              |
|---|------|------------------------------|-------------|---|-------------------|---------------|--------------|
| Light Cable Percussion<br>150mm diameter  |      |                              |             | Shelton Road / Willowbrook Rd<br>Corby, Northants.<br>490821-290844   |                   |               |              |
| Sample/Test   |      | Drilling and Casing Progress | Water Level | Blows N   |                   | Ground Level  |              |
| Depth (m)   | TYPE |                              |             | U100 Blows  | TCR (%) (ROD (%)) | Depth (m)     | Level m (OD) |
| 10.70   | D    |                              |             |   |                   |               |              |
| 14.50   | D    |                              |             |   |                   |               |              |
| 15.60   | D    | 28.02.96                     |             |   |                   |               |              |
|   |      |                              |             |   |                   | 15.30         | 91.1         |
|   |      |                              |             |   |                   | 15.60         | 90.8         |
|   |      |                              |             | Orange-brown, slightly sandy, fine to coarse, angular to subrounded sandstone GRAVEL, with occasional ironstone nodules. (Possible Made Ground). (NSI?) |                   |               |              |
| MADE GROUND: Soft, black, slightly sandy Silt, between 9.50m and 10.70m brown in colour. Below 12.50m very soft and damp. |      |                              |             |   |                   |               |              |
| Remarks   |      |                              |             |   |                   |               |              |
| Client  |      |                              |             |  Geotechnical & Materials Consultants Ltd.                          |                   | Scale 1:50    |              |
| Commission for the New Towns / F.G.C.E.L.   |      |                              |             |   |                   | Report 96/027 |              |

|   |  |
|---|--|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants.<br>49087(-290861) |
|---|--|

| Sample/Test | Drilling and Casing Progress | Water Level | Blows N<br>U100 Blows<br>TCR (%)<br>(RQD (%)) | Description of Strata  | Ground Level |              | Legend |                         |
|-------------|------------------------------|-------------|---|--|--------------|--------------|--------|-------------------------|
|             |                              |             |   |  | Depth (m)    | Level m (OD) |        |                         |
|             |                              |             |   | MADE GROUND: Topsoil.  | (F)          | 0.20         | 106.30 |                         |
| 3.00-4.00   | B                            |             |   | MADE GROUND: Firm to stiff, grey, slightly silty Clay, with some fine to coarse, angular to subrounded, sandstone, chalk and flint gravel. Below 6.35m brown in colour and slightly sandy. |              |              |        | [Cross-hatched pattern] |
| 7.00-7.85   | B                            |             |   |  |              |              |        |                         |
| 8.00-9.00   | B                            |             |   | MADE GROUND: Soft, black, slightly peaty, Silt. Between 9.10m and 10.90m becoming very peaty and brown in colour.  | (F)          | 7.85         | 98.40  | [Cross-hatched pattern] |
| 9.30        | D                            |             |   |  |              |              |        |                         |

Remarks  
 Gas well installed to 14.9m, sealed with bentonite to base of hole.  
 Waterra sampling system installed to 14.35m.  
 Day works - 30 minutes washing down equipment.

Client  
 Commission for the New Towns / F.G.C.E.L.



Scale 1:50  
 Report 96/027



|   |  |
|---|--|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants. |
| 49087(-290861)  |  |

| Sample/Test | TYPE | Drilling and Casing Progress | Water Level | Blows N                            | Description of Strata   | Ground Level   | 106.3(       | m(OD)        | Legend |
|-------------|------|------------------------------|-------------|------------------------------------|---|--|--------------|--------------|--------|
| Depth (m)   |      |                              |             | U100 Blows<br>TCR (%)<br>(RQD (%)) |   |  | Depth (m)    | Level m (OD) |        |
| 10.50       | D    |                              |             |                                    | MADE GROUND: Soft, black, slightly peaty, Silt. Between 9.10m and 10.90m becoming very peaty and brown in colour. |  |              |              |        |
| 14.00       | D    |                              |             |                                    |   |  |              |              |        |
| 15.40-15.65 | D    |                              |             |                                    |   | Dark orange-brown, medium grained, SANDSTONE, with occasional bands of ironstone. (Possible Made Ground) | (F)<br>15.40 | 90.9)        | 15.65  |
| (NSI?)      |      |                              |             |                                    |   |  |              |              |        |

Remarks

|   |  |
|---|--|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants. |
|---|--|

49092;-290877

| Sample/Test | TYPE | Drilling and Casing Progress | Water Level | Blows N                          | Description of Strata  | Ground Level | 106.2        | m(OD) | Legend |
|-------------|------|------------------------------|-------------|----------------------------------|--|--------------|--------------|-------|--------|
| Depth (m)   |      |                              |             | U100 Blows<br>TCR (%)<br>(RQD %) |  | Depth (m)    | Level m (OD) |       |        |
|             |      |                              |             |                                  | MADE GROUND: Topsoil.  | (F)          | 0.20         | 106.0 |        |
| 3.00        | D    |                              |             |                                  |  |              |              |       |        |
|             |      |                              |             |                                  | MADE GROUND: Firm, grey, slightly silty slightly sandy Clay, with some fine to coarse, angular to subrounded chalk sandstone and flint gravel. |              |              |       |        |
| 7.90        | D    |                              |             |                                  |  | (F)          | 7.90         | 98.3  |        |
| 9.30        | D    |                              |             |                                  | MADE GROUND: Soft, black, slightly sandy Silt. Between 9.30m and 10.30m brown in colour. Below 12.90m very soft and damp,                      |              |              |       |        |

Remarks

Borehole slabbbed upon completion.  
 Borehole sealed with bentonite up to 13.50m.  
 Day works - 30 minutes washing down equipment.

Client

Commission for the New Towns / F.G.C.E.L.



**Geotechnical & Materials Consultants Ltd.**


Scale 1:50

Report 96/027

|   |   |
|---|---|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants.<br>490921-290877 |
|---|---|

| Sample/Test | Drilling and Casing Progress | Water Level | Blows N    |                   | Description of Strata   | Ground Level  |               | Legend       |
|-------------|------------------------------|-------------|------------|-------------------|---|---|---------------|--------------|
|             |                              |             | U100 Blows | TCR (%) (RCD (%)) |   | Depth (m)   | Level (m(OD)) |              |
| 10.30       | D                            |             |            |                   | MADE GROUND: Soft, black, slightly sandy Silt. Between 9.30m and 10.30m brown in colour. Below 12.90m very soft and damp. |   | 106.2 (m(OD)) |              |
| 15.30       | D                            | 28.02.96    |            |                   |   | Brown and orange-brown, slightly silty, medium SAND, with occasional fine and medium sandstone and ironstone nodules. (Possible Made Ground). | 15.30 (90.9)  | 15.40 (90.8) |

Remarks

|   |   |                             |
|---|---|-----------------------------|
| Client<br>Commission for the New Towns / F.G.C.E.L. |  <b>Geotechnical &amp; Materials Consultants Ltd.</b> | Scale 1:50<br>Report 96/027 |
|---|---|-----------------------------|

|   |  |
|---|--|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants. |
| 490968--290885  |  |

| Depth (m) | TYPE | Drilling and Casing Progress | Water Level | Blows N<br>U100<br>Blows<br>TCR (%)<br>(RQD (%)) | Description of Strata  | Ground Level |              | Legend |  |
|-----------|------|------------------------------|-------------|--|--|--------------|--------------|--------|--|
|           |      |                              |             |  |  | Depth (m)    | Level m (OD) |        |  |
|           |      |                              |             |  | MADE GROUND: Topsoil.  | (F)          | 0.20         | 105.5  |  |
| 3.00      | D    | 29.02.96                     |             |  |  |              |              |        |  |
| 6.50      | D    |                              |             |  |  |              |              |        |  |
| 8.00      | D    |                              |             |  |  | (F)          | 8.00         | 97.7   |  |
| 8.80      | D    |                              |             |  | MADE GROUND: Soft, black, slightly sandy Silt. Between 8.80m and 9.70m brown in colour. Below 12.70m very soft and damp. |              |              |        |  |
| 9.70      | D    |                              |             |  |  |              |              |        |  |

Remarks  
 Borehole slabbed upon completion.  
 Borehole sealed with bentonite up to 15.50m.  
 Day works - 30 minutes washing down equipment.

Client  
 Commission for the New Towns / F.G.C.E.L.



Scale 1:50  
 Report 96/027

|   |  |
|---|--|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants. |
| 490968-290885   |  |

| Sample/Test      | Drilling and Casing Progress | Water Level | Blows N                               | Description of Strata   | Ground Level | Depth (m) | Level m (OD) | Legend |
|------------------|------------------------------|-------------|---------------------------------------|---|--------------|-----------|--------------|--------|
| T<br>Y<br>P<br>E |                              |             | U100<br>Blows<br>TCR (%)<br>(RQD (%)) |   |              |           | 105.70       | m(OD)  |
| 16.90            | D                            | 29.02.96    |                                       | MADE GROUND: Soft, black, slightly sandy Silt. Between 8.80m and 9.70m brown in colour. Below 12.70m very soft and damp.  |              |           |              |        |
|                  |                              |             |                                       | Orange-brown, slightly clayey, medium SAND, with some fine and medium, angular to subrounded sandstone and ironstone nodules. Occasional layers (<50mm) of grey sandy clay. (Possible Made Ground). | (F)          | 16.70     | 89.00        |        |
|                  |                              |             |                                       |   | (NSI)        | 17.00     | 88.70        |        |

Remarks

|   |  |
|---|--|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants. |
|---|--|

491033-290889

| Sample/Test |      | Drilling and Casing Progress | Water Level | Blows N    |                   | Description of Strata   | Ground Level |              | Legend |                          |
|-------------|------|------------------------------|-------------|------------|-------------------|---|--------------|--------------|--------|--------------------------|
| Depth (m)   | TYPE |                              |             | U100 Blows | TCR (%) (RCD (%)) |   | Depth (m)    | Level m (OD) |        |                          |
|             |      |                              |             |            |                   | MADE GROUND: Topsoil.   | (F)          | 0.20         | 104.4  | (Hatched pattern legend) |
| 3.00        | D    |                              |             |            |                   |   |              |              |        |                          |
| 3.85        | D    |                              |             |            |                   | MADE GROUND: Firm to stiff, grey locally brown, slightly sandy slightly silty Clay, with some fine to coarse, angular to subrounded chalk, sandstone and flint gravel. Between 4.30m and 4.45m occasional fragments of slag. Below 7.65m occasional pockets of soft black silt. |              |              |        |                          |
| 4.30        | D    |                              |             |            |                   |   |              |              |        |                          |
| 4.50        | D    |                              |             |            |                   |   |              |              |        |                          |
| 5.30        | D    |                              |             |            |                   |   |              |              |        |                          |
| 5.60        | D    |                              |             |            |                   |   |              |              |        |                          |
| 6.70        | D    |                              |             |            |                   |   |              |              |        |                          |
| 7.65        | D    |                              |             |            |                   | MADE GROUND: Orange and light brown, slightly clayey, medium to coarse Sand, with occasional partings (<10mm) of grey clay and occasional fine to coarse sandstone and ironstone nodules.   | (F)          | 7.75         | 96.8   |                          |
| 9.00        | D    | 29.02.96                     |             |            |                   |   | (F)          | 9.00         | 95.6   |                          |

Remarks

Borehole slabbed upon completion.  
 Borehole sealed with bentonite up to 7.00m.  
 Day works - 30 minutes washing down equipment.

Client

Commission for the New Towns / F.G.C.E.L.



**Geotechnical & Materials Consultants Ltd.**

Scale 1:50

Report 96/027

|   |  |               |
|---|--|---------------|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants. | 491061-290942 |
|---|--|---------------|

| Sample/Test |       | Drilling and Casing Progress | Water Level | Blows N    |                   | Description of Strata   | Ground Level |              | Legend |
|-------------|-------|------------------------------|-------------|------------|-------------------|---|--------------|--------------|--------|
| Depth (m)   | TYP E |                              |             | U100 Blows | TCR (%) (RQD (%)) |   | Depth (m)    | Level m (OD) |        |
| 0.05-0.50   | B     |                              |             |            |                   | MADE GROUND: Topsoil.   | 0.10         | 103.4        |        |
| 0.50-0.95   | SB    |                              |             | 6          |                   | MADE GROUND: Soft to firm, brown, friable, slightly sandy Clay, with some fine and medium, angular to subrounded sandstone and flint gravel. Occasional slag fragments and traces of organic material.  |              |              |        |
| 1.00-1.45   | U     |                              |             | 32         |                   |   |              |              |        |
| 1.45-1.50   | D     |                              |             | 15         |                   |   |              |              |        |
| 1.50-1.95   | SB    |                              |             | 28         |                   |   |              |              |        |
| 2.00-2.45   | SB    |                              |             | 28         |                   |   | (F)          | 2.55         | 100.9  |
| 3.00-3.45   | U     |                              |             | 27         |                   | MADE GROUND: Firm, grey, brown and orange-brown, locally mottled very dark grey, slightly silty Clay, with a little fine to coarse, angular to subrounded sandstone and ironstone gravel. Occasional sandstone boulders. Below 5.00m becoming grey in colour. Between 7.00m and 7.35m slag boulder. |              |              |        |
| 3.45-3.50   | D     |                              |             | 10         |                   |   |              |              |        |
| 3.50-3.95   | SB    |                              |             | 28         |                   |   |              |              |        |
| 4.00-4.45   | U     |                              |             | 15         |                   |   |              |              |        |
| 4.45-4.50   | D     |                              |             | 71         |                   |   |              |              |        |
| 4.50-4.95   | SB    |                              |             | 10         |                   |   |              |              |        |
| 5.00-5.45   | U     |                              |             | 41         |                   |   |              |              |        |
| 5.45-5.50   | D     |                              |             | 7          |                   |   |              |              |        |
| 5.50-5.95   | SB    |                              |             | 79         |                   |   |              |              |        |
| 6.00-6.45   | U     |                              |             | 7          |                   |   |              |              |        |
| 6.45-6.50   | D     |                              |             |            |                   |   | (F)          | 7.80         | 95.7   |
| 6.50-6.95   | SB    |                              |             | 13         |                   | PROBABLY MADE GROUND: Orange-brown, fine and medium Sand, with traces of fine to coarse, subangular to rounded ironstone nodules. Occasional layers (<80mm) and partings (<5mm) of firm laminated grey slightly silty clay. (Possibly NSI).   |              |              |        |
| 7.50-7.95   | U     |                              |             | 61         |                   |   |              |              |        |
| 7.95-8.00   | D     |                              |             | 13         |                   |   |              |              |        |
| 8.00-8.45   | SB    |                              |             | 11         |                   |   |              |              |        |
| 8.50-8.95   | U     |                              |             |            |                   |   |              |              |        |
| 8.95-9.00   | D     |                              |             |            |                   |   |              |              |        |
| 9.00-9.45   | SB    |                              |             |            |                   |   |              |              |        |
| 9.50-9.95   | SB    |                              |             |            |                   |   |              |              |        |
| 10.00-10.50 | B     | 21.02.96                     |             |            |                   |   |              |              |        |

Remarks

Chiselled between 2.55m and 3.00m for 45 minutes. Chiselled between 7.00m and 7.35m for 15 minutes.  
 Gas well installed to 7.30m, sealed with bentonite to base.  
 Waterra sampling system installed to 6.95m. Borehole dry throughout drilling.

Client

Commission for the New Towns / F.G.C.E.L.



Geotechnical & Materials Consultants Ltd.

Scale 1:50

Report

|   |   |
|---|---|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants.<br>491061-290942 |
|---|---|

| Sample/Test | Drilling and Casing Progress | Water Level | Blows N          | Description of Strata   | Ground Level                       | 103.5( m(OD) |              | Legend |
|-------------|------------------------------|-------------|------------------|---|------------------------------------|--------------|--------------|--------|
| Depth (m)   |                              |             | T<br>Y<br>P<br>E |   | U100 Blows<br>TCR (%)<br>(RQD (%)) | Depth (m)    | Level m (OD) |        |
| 10.50-10.95 | SB                           |             | 15               | PROBABLY MADE GROUND: Orange-brown, fine and medium Sand, with traces of fine to coarse, subangular to rounded ironstone nodules. Occasional layers (<80mm) and partings (<5mm) of firm laminated grey slightly silty clay. (Possibly NSI). | (F)                                | 11.00        | 92.5         |        |

Remarks  
Day works - 30 minutes washing down equipment.

|   |   |                      |
|---|---|----------------------|
| Client<br>Commission for the New Towns / F.G.C.E.L. |  <b>Geotechnical &amp; Materials Consultants Ltd.</b> | Scale 1:50<br>Report |
|---|---|----------------------|



LABORATORY TEST RESULTS FOR

CY 40 (BH 21)

| Depth | w (%) | wl (%) | wp (%) | lp (%) | Bulk Density (Mgm <sup>-3</sup> ) | STRENGTH |                              |   |                                | CHEMICAL |    |                          | Soil Type | Remarks              |
|-------|-------|--------|--------|--------|-----------------------------------|----------|------------------------------|---|--------------------------------|----------|----|--------------------------|-----------|----------------------|
|       |       |        |        |        |                                   | Type     | Total Principal Stress (kPa) | Minor Principal Stress Difference (kPa) | Undrained Shear Strength (kPa) | Ø (deg)  | pH | Soil SO <sub>3</sub> (%) |           |                      |
| 3.50  | 20    | 45     | 18     | 27     |                                   |          |                              |   |                                |          |    |                          | F         |                      |
| 5.50  | 23    | 33     | 15     | 18     |                                   |          |                              |   |                                |          |    |                          | F         |                      |
| 6.00  |       |        |        |        |                                   |          |                              |   |                                |          |    |                          | F         | MCT - Separat: sheet |
| 8.50  |       |        |        |        |                                   |          |                              |   |                                |          |    |                          |           | MCT - Separat: sheet |
| 9.00  | 18    | 26     | 14     | 12     |                                   |          |                              |   |                                |          |    |                          |           |                      |

Notes:

- U38 Triaxial test set of three 38mm diameter samples
- U1 Triaxial test on a 108mm dia sample at single cell pressure
- UM Triaxial test on a 108mm dia sample - Multistage test
- UCS Unconfined compression test on soil
- UCR Unconfined compression test on rock
- \* Sulphate test on 2:1 water-soil extract

- VH Hand shear vane test
- VB Borehole shear vane test
- PSD Particle Size Distribution
- ODC One-Dimensional Consolidation Test
- OGC Organic Matter Content (BS 1377:Part 3: 1990)
- OMC Optimum Moisture Content

- MDD Maximum Dry Density
- CBR California Bearing Ratio test
- SST Soil Suction Test - Filter paper method
- SG Specific Gravity (Particle Density)
- MCT Multistage Consolidated Undrained Triaxial

Client

Commission for the New Towns / Frank Graham Consultants.



**Geotechnical & Materials Consultants Ltd.**

Report


96/027

|   |  |
|---|--|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants. |
| 49098:-290921   |  |

| Sample/Test | Drilling and Casing Progress | Water Level | Blows N    |                   | Description of Strata  | Ground Level |              | Legend |
|-------------|------------------------------|-------------|------------|-------------------|--|--------------|--------------|--------|
|             |                              |             | U100 Blows | TCR (%) (RQD (%)) |  | Depth (m)    | Level m (OD) |        |
| 0.05-0.50   | D                            |             |            |                   | MADE GROUND: Topsoil.  | (F)          | 0.35         | 104.3  |
| 0.75        | D                            |             |            |                   |  |              |              |        |
| 1.00-1.45   | SB                           |             | 8          |                   |  |              |              |        |
| 1.75        | D                            |             |            |                   |  |              |              |        |
| 2.00-2.45   | U                            |             | 29         |                   | MADE GROUND: Firm, brown grey, slightly silty Clay, with some fine to coarse, angular to subrounded sandstone, chalk and flint gravel. |              |              |        |
| 2.50        | D                            |             |            |                   |  |              |              |        |
| 2.75        | D                            |             |            |                   |  |              |              |        |
| 3.00-3.45   | SB                           |             | 8          |                   |  |              |              |        |
| 3.75        | D                            |             |            |                   |  | (F)          |              |        |
| 4.00-4.45   | U                            |             | 34         |                   | MADE GROUND: Soft, black, slightly sandy Silt.   | (F)          | 4.00         | 100.7  |
|             |                              |             |            |                   | MADE GROUND: Firm, brown, slightly sandy Clay, with a little fine and medium, angular to subrounded chalk and sandstone gravel.        | (F)          | 4.20         | 100.5  |
|             |                              |             |            |                   |  | (F)          | 4.40         | 100.3  |
| 4.50        | D                            |             |            |                   |  |              |              |        |
| 4.75        | D                            |             |            |                   |  |              |              |        |
| 5.00-5.45   | SB                           |             | 8          |                   |  |              |              |        |
| 5.75        | D                            |             |            |                   |  |              |              |        |
| 6.00-6.45   | SB                           | 27.02.96    | 7          |                   |  |              |              |        |
| 6.75        | D                            |             |            |                   |  |              |              |        |
| 7.00-7.45   | SB                           |             | 7          |                   | MADE GROUND: Soft, damp, black locally brown, slightly sandy Silt. Between 4.40m and 4.60m peaty.                                      |              |              |        |
| 7.75        | D                            |             |            |                   |  |              |              |        |
| 8.00-8.45   | SB                           |             | 11         |                   |  |              |              |        |
| 8.75        | D                            |             |            |                   |  |              |              |        |
| 9.00-9.45   | SB                           |             | 18         |                   |  |              |              |        |
| 9.75        | D                            |             |            |                   |  |              |              |        |
| 10.00-10.45 | SB                           |             | 22         |                   |  | (F)          | 10.00        | 94.7   |

Remarks

Borehole sealed with bentonite up to 9.50m. Borehole slabbed upon completion.  
 Borehole dry throughout drilling.  
 Day works - 30 washing down equipment.

|   |  |                      |
|---|--|----------------------|
| Client<br>Commission for the New Towns / F.G.C.E.L. |  <p><b>Geotechnical &amp; Materials Consultants Ltd.</b></p> | Scale 1:50<br>Report |
|---|--|----------------------|

|   |  |
|---|--|
| Type and Diameter of Boring<br>Light Cable Percussion<br>150mm diameter | Location<br>Shelton Road / Willowbrook Rd<br>Corby, Northants. |
|---|--|

49098:-290921

| Sample/Test | TYPE | Drilling and Casing Progress | Water Level | Blows N                            | Description of Strata  | Ground Level | Depth (m) | Level m (OD) | Legend |
|-------------|------|------------------------------|-------------|------------------------------------|--|--------------|-----------|--------------|--------|
| 10.75       | D    | 27.02.96                     |             | U100 Blows<br>TCR (%)<br>(RQD (%)) | Brown and orange, fine and medium slightly silty slightly clayey SAND, with occasional layers (<50mm) of firm grey clay. (Possible Made Ground). | (NS1?)       | 11.00     | 93.7         |        |

Remarks

Client  
 Commission for the New Towns / F.G.C.E.L.



Scale 1:50  
 Report