# Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

**Excavation method/plant:** 6T

**Shoring/support:** None

# TP1

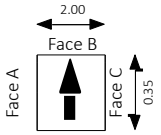
**Project Name:** Proposed Industrial Extension
**Site Location:** Stephen and George Printers, Goat Mill Road, Dowlais
**Client:** Charnwood Group
**Project No:** 6665b

**Excavation date:** 26-07-2017
**Backfill date:** 26-07-2017
**Logged by:** MTE

## Survey details:

Ground Level: 295.0 mOD
Easting: 306700 mOD
Northing: 207445 mOD
Bearing:

## Plan details:




## Face Stability:

Stable

## Groundwater observations:

Dry

| Depth | | Sample | | Test Details | | Strata Details | | | |
|---|---|---|---|---|---|---|---|---|---|
| m | mOD | Type | Class | Type | Result | Description | Depth (thickness) | mOD | Legend |
| 0.10 | 294.90 | ES | | | | Soft dark brown slightly gravelly slightly sandy organic CLAY with roots. (PLACED TOPSOIL) | (*0.13*) | | |
| | | | | | | | 0.13 | 294.87 | |
| 0.40 | 294.60 | B | | | | Soft to firm dark brown slightly gravelly slightly sandy CLAY with a low cobble content. Cobbles and gravel are angular to rounded and of mudstone with some coal. (MADE GROUND) | (*0.42*) | | |
| | | | | | | | 0.55 | 294.45 | |
| 0.80 | 294.20 | B | | | | Extremely weak grey MUDSTONE recovered as angular fragments of sizes between gravel and cobbles. (GRADE B/C SOUTH WALES LOWER COAL MEASURES FORMATION) | (*0.50*) | | |
| | | | | | | | 1.0 | | |
| | | | | | | End of Trialpit at 1.050m | 1.05 | 293.95 | |
| | | | | | | | 2.0 | | |
| | | | | | | | 3.0 | | |

## Weather and environmental conditions:

1. Overcast with rain

## Other comments:

1. Grid reference and ground level approximate and for the centre of the site.
2. Trial pit excavated to a depth of 1.05m to undertake a soakaway test.
3. Trial Pit backfilled with arising upon completion of soakaway test.

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**Excavation method/plant:** 6T

**Shoring/support:** None

# TP2

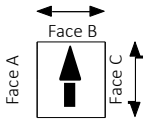
**Project Name:** Proposed Industrial Extension
**Site Location:** Stephen and George Printers, Goat Mill Road, Dowlais
**Client:** Charnwood Group
**Project No:** 6665b

**Excavation date:** 26-07-2017
**Backfill date:** 26-07-2017
**Logged by:** MTE

## Survey details:

Ground Level: 295.0 mOD
Easting: 306700 mOD
Northing: 207445 mOD
Bearing:

## Plan details:




## Face Stability:

Stable

## Groundwater observations:

Shallow seepages

| Depth | | Sample | | Test Details | | Strata Details | | | |
|---|---|---|---|---|---|---|---|---|---|
| m | mOD | Type | Class | Type | Result | Description | Depth (thickness) | mOD | Legend |
| | | | | | | Grass over probably loose grey slightly clayey GRAVEL with medium cobble and medium boulder content. Cobbles, boulders and gravel is rounded to subangular of coal, shaled, mudstone and sandstone. (MADE GROUND) | | | |
| 0.40 | 294.60 | ES | | | | | | | |
| 0.50 | 294.50 | B | | | | | (*1.30*) | | |
| 1.00 | 294.00 | B | | | | | 1.0 | | |
| | | | | | | Probably loose to medium dense grey slightly clayey slightly sandy rounded to subangular GRAVEL of mudstone with low boulder and low cobble content. (MADE GROUND) | 1.30 | 293.70 | |
| | | | | | | | (*0.30*) | | |
| 1.50 | 293.50 | B | | | | | 1.60 | 293.40 | |
| 1.70 | 293.30 | B | | | | Very stiff grey mottled black very gravelly CLAY with loc cobble content. Gravel and cobbles are rounded to aubangular and fine to medium gravel, predomintly tabular. Rare partings of coal fragments. | | | |
| 1.80 | 293.20 | D | | | | | 2.0 | | |
| | | | | | | | (*1.30*) | | |
| 2.50 | 292.50 | B | | | | | | | |
| | | | | | | End of Trialpit at 2.900m | 2.90 | 292.10 | |
| | | | | | | | 3.0 | | |

## Weather and environmental conditions:

1. Overcast with rain

## Other comments:

1. Grid reference and ground level approximate and for the centre of the site.
2. Trial pit excavated to a maximum depth of 2.9m.
3. Very slow progress with excavator between 1.6m and 2.9m.
4. Trial Pit backfilled with arising and mounded to allow for future settlement.

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**Excavation method/plant:** 6T

**Shoring/support:** None

# TP3A

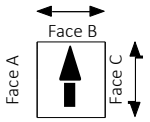
**Project Name:** Proposed Industrial Extension
**Site Location:** Stephen and George Printers, Goat Mill Road, Dowlais
**Client:** Charnwood Group
**Project No:** 6665b

**Excavation date:** 26-07-2017
**Backfill date:** 26-07-2017
**Logged by:** MTE

## Survey details:

Ground Level: 295.0 mOD
Easting: 306700 mOD
Northing: 207445 mOD
Bearing:

## Plan details:




## Face Stability:

Stable

## Groundwater observations:

Dry

| Depth | | Sample | | Test Details | | Strata Details | | | |
|---|---|---|---|---|---|---|---|---|---|
| m | mOD | Type | Class | Type | Result | Description | Depth (thickness) | mOD | Legend |
| | | | | | | Probably loose grey, black and reddish-brown angular coarse GRAVEL with high angular cobble content. Grqvel and cobbles are angular of mudstone, limestone, brick and rare slag, possibly <10%. (MADE GROUND) | (*0.50*) | | |
| 0.30 | 294.70 | ES | | | | | | | |
| 0.40 | | B | | | | | | | |
| | 294.60 | | | | | | 0.50 | 294.50 | |
| | | | | | | Soft quickly becoming firm grey slightly gravelly CLAY. Gravel is angular of mudstone and medium to coarse. (GRADE E SOUTH WALES LOWER COAL MEASURES FORMATION) | | | |
| 0.80 | 294.20 | B | | | | | | | |
| | | | | | | | 1.0 | | |
| 1.20 | 293.80 | D | | | | | | | |
| 1.30 | | D | | | | | | | |
| 1.40 | 293.70 | B | | | | | | | |
| | 293.60 | | | | | | (*2.30*) | | |
| 1.80 | 293.20 | B | | | | | | | |
| | | | | | | | 2.0 | | |
| 2.40 | 292.60 | B | | | | | | | |
| | | | | | | End of Trialpit at 2.800m | 2.80 | 292.20 | |
| | | | | | | | 3.0 | | |

## Weather and environmental conditions:

1. Overcast with rain

## Other comments:

1. Grid reference and ground level approximate and for the centre of the site.
2. Trial pit excavated to a maximum depth of 2.8m.
3. Two different soil stratigraphys encountered in long sides of trial pit and is thus seperated into TP3A and TP3B, this is the log for TP3A, which is the furtheres from the building.
4. Trial Pit backfilled with arising and mounded to allow for future settlement.

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**Excavation method/plant:** 6T

**Shoring/support:** None

# TP3B

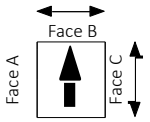
**Project Name:** Proposed Industrial Extension
**Site Location:** Stephen and George Printers, Goat Mill Road, Dowlais
**Client:** Charnwood Group
**Project No:** 6665b

**Excavation date:** 26-07-2017
**Backfill date:** 26-07-2017
**Logged by:** MTE

## Survey details:

Ground Level: 295.0 mOD
Easting: 306700 mOD
Northing: 207445 mOD
Bearing:

## Plan details:




## Face Stability:

Poor

## Groundwater observations:

Dry

| Depth | | Sample | | Test Details | | Strata Details | | | |
|---|---|---|---|---|---|---|---|---|---|
| m | mOD | Type | Class | Type | Result | Description | Depth (thickness) | mOD | Legend |
| 0.30 | 294.70 | ES | | | | Probably loose grey, black and reddish-brown angular coarse GRAVEL with high angular cobble content. Grqvel and cobbles are angular of mudstone, limestone, brick and rare slag, possibly <10%. (MADE GROUND) | (*0.50*) | | |
| | | | | | | | 0.50 | 294.50 | |
| | | | | | | Very loose grey COBBLES with little GRAVEL. Cobbles and gravel are fine to coarse of angular mudstone and occasinal sandstone and rare fragments of brick and slag. (MADE GROUND) | | | |
| | | | | | | | 1.0 | | |
| | | | | | | | (*2.00*) | | |
| | | | | | | | 2.0 | | |
| | | | | | | | 2.50 | 292.50 | |
| | | | | | | End of Trialpit at 2.800m | | | |
| | | | | | | | 3.0 | | |

## Weather and environmental conditions:

1. Overcast with rain

## Other comments:

1. Grid reference and ground level approximate and for the centre of the site.
2. Trial pit excavated to a maximum depth of 2.8m.
3. Two different soil stratigraphys encountered in long sides of trial pit and is thus seperated into TP3A and TP3B, this is the log for TP3B, which is the furtheres from the building.
4. Trial Pit backfilled with arising and mounded to allow for future settlement.

# Earth Science Partnership

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**Excavation method/plant:** 6T

**Shoring/support:** None

# TP4

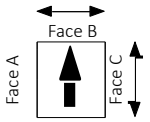
**Project Name:** Proposed Industrial Extension
**Site Location:** Stephen and George Printers, Goat Mill Road, Dowlais
**Client:** Charnwood Group
**Project No:** 6665b

**Excavation date:** 26-07-2017
**Backfill date:** 26-07-2017
**Logged by:** MTE

## Survey details:

Ground Level: 295.0 mOD
Easting: 306700 mOD
Northing: 207445 mOD
Bearing:

## Plan details:




## Face Stability:

Stable

## Groundwater observations:

Dry

| Depth | | Sample | | Test Details | | Strata Details | | | |
|---|---|---|---|---|---|---|---|---|---|
| m | mOD | Type | Class | Type | Result | Description | Depth (thickness) | mOD | Legend |
| | | | | | | Probably medium dense blackish grey slightly clayey GRAVEL with low cobble and low boulder content. Cobbles and gravel of fine to coarse mudstone, coal, sandstone and brick are angular to subrounded. (MADE GROUND) | (*1.40*) | | |
| 0.40 | 294.60 | ES | | | | | | | |
| 0.50 | 294.50 | B | | | | | | | |
| | | | | | | | 1.0 | | |
| | | | | | | | 1.40 | 293.60 | |
| 1.50 | 293.50 | B | | | | Extremely weak grey and orange-brown MUDSTONE recovered as angular fragments with sizes between gravel and cobbles. (GRADE B/C SOUTH WALES LOWER COAL MEASURES FORMATION) | (*0.40*) | | |
| 1.70 | 293.30 | B | | | | | | | |
| | | | | | | End of Trialpit at 1.800m | 1.80 | 293.20 | |
| | | | | | | | 2.0 | | |
| | | | | | | | 3.0 | | |

## Weather and environmental conditions:

1. Overcast with rain

## Other comments:

1. Grid reference and ground level approximate and for the centre of the site.
2. Trial pit excavated to a maximum depth of 1.8m.
3. Trial Pit backfilled with arising and mounded to allow for future settlement.

# Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

**Excavation method/plant:** 6T

**Shoring/support:** None

# TP5

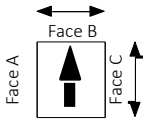
**Project Name:** Proposed Industrial Extension
**Site Location:** Stephen and George Printers, Goat Mill Road, Dowlais
**Client:** Charnwood Group
**Project No:** 6665b

**Excavation date:** 26-07-2017
**Backfill date:** 26-07-2017
**Logged by:** MTE

## Survey details:

Ground Level: 295.0 mOD
Easting: 306700 mOD
Northing: 207445 mOD
Bearing:

## Plan details:




## Face Stability:

Stable

## Groundwater observations:

Dry

| Depth | | Sample | | Test Details | | Strata Details | | | |
|---|---|---|---|---|---|---|---|---|---|
| m | mOD | Type | Class | Type | Result | Description | Depth (thickness) | mOD | Legend |
| | | | | | | Soft dark brown slightly gravelly slightly sandy organic CLAY with roots. (PLACED TOPSOIL) | (*0.30*) | | |
| 0.20 | 294.80 | ES | | | | | 0.30 | 294.70 | |
| 0.40 | 294.60 | B | | | | Soft to firm dark brown slightly gravelly sandy CLAY with a low cobble content. Cobbles and gravel are angular to rounded and of mudstone with some coal. (MADE GROUND) | (*0.30*) | | |
| 0.50 | 294.50 | ES | | | | | 0.60 | 294.40 | |
| 0.80 | 294.20 | D | | | | Extremely weak orange-brown MUDSTONE recovered as an angular coarse GRAVEL. Grey on fresh faces. (GRADE B SOUTH WALES LOWER COAL MEASURES FORMATION) | | | |
| 1.00 | 294.00 | B | | | | | 1.0 | | |
| | | | | | | | (*1.30*) | | |
| 1.90 | 293.10 | B | | | | End of Trialpit at 1.900m | 1.90 | 293.10 | |
| | | | | | | | 2.0 | | |
| | | | | | | | 3.0 | | |

## Weather and environmental conditions:

1. Overcast with rain

## Other comments:

1. Grid reference and ground level approximate and for the centre of the site.
2. Trial pit excavated to a maximum depth of 1.9m.
3. Trial Pit backfilled with arising and mounded to allow for future settlement.

# Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

# TP6

**Project Name:** Proposed Industrial Extension
**Site Location:** Stephen and George Printers, Goat Mill Road, Dowlais
**Client:** Charnwood Group
**Project No:** 6665b

**Excavation date:** 26-07-2017
**Backfill date:** 26-07-2017
**Logged by:** MTE

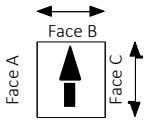
**Excavation method/plant:** 6T

**Shoring/support:** None

## Survey details:

Ground Level: 295.0 mOD
Easting: 306700 mOD
Northing: 207445 mOD
Bearing:

## Plan details:




## Face Stability:

Very poor

## Groundwater observations:

Dry

| Depth | | Sample | | Test Details | | Strata Details | | | |
|---|---|---|---|---|---|---|---|---|---|
| m | mOD | Type | Class | Type | Result | Description | Depth (thickness) | mOD | Legend |
| 0.40 | 294.60 | ES | | | | Grass over dark grey slightly gravelly CLAY with medium cobble content and low boulder content. Gravel and cobbles of sandstone, mudstone, occasioanl bricks and rare slag fragments, possibly <5%. (MADE GORUND) | | | |
| 0.50 | 294.50 | B | | | | | (1.00) | | |
| 0.90 | 294.10 | B | | | | | | | |
| | | | | | | | 1.00 | 294.00 | |
| 1.20 | 293.80 | D | | | | Very loose to loose orange-brown BOULDERS with some orange-brown slightly sandy slightly gravelly CLAY. Boulders, cobbles and gravel rounded to subangular of sandstone, mudstone and rare slag, <5%. (MADE GROUND). | | | |
| 1.50 | 293.50 | B | | | | | | | |
| | | | | | | | (2.00) | | |
| 2.50 | 292.50 | B | | | | | | | |
| | | | | | | | 3.00 | 292.00 | |
| 3.10 | 291.90 | D | | | | Extremely weak orange-brown MUDSTONE recovered as a angular coarse GRAVEL. Grey on fresh faces. (GRADE B SOUTH WALES LOWER COAL MEASURES FORMATION) | (0.30) | | |
| 3.20 | 291.80 | B | | | | | | | |
| | | | | | | End of Trialpit at 3.300m | 3.30 | 291.70 | |

## Weather and environmental conditions:

1. Overcast with rain

## Other comments:

1. Grid reference and ground level approximate and for the centre of the site.
2. Trial pit excavated to a maximum depth of 3.3m.
3. Trial Pit continually collapsing while digging between 1m and 3m.
4. Trial Pit backfilled with arisings and mounded to allow for future settlement.

# Earth Science Partnership

Consulting Engineers | Geologists | Environmental Scientists

**Excavation method/plant:** 6T

**Shoring/support:** None

# TP7

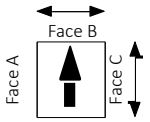
**Project Name:** Proposed Industrial Extension
**Site Location:** Stephen and George Printers, Goat Mill Road, Dowlais
**Client:** Charnwood Group
**Project No:** 6665b

**Excavation date:** 26-07-2017
**Backfill date:** 26-07-2017
**Logged by:** MTE

## Survey details:

Ground Level: 295.0 mOD
Easting: 306700 mOD
Northing: 207445 mOD
Bearing:

## Plan details:




## Face Stability:

Stable

## Groundwater observations:

Dry

| Depth | | Sample | | Test Details | | Strata Details | | | |
|---|---|---|---|---|---|---|---|---|---|
| m | mOD | Type | Class | Type | Result | Description | Depth (thickness) | mOD | Legend |
| 0.20 | 294.80 | B | | | | Grass over dark grey mottled black slightly sandy slightly gravelly CLAY with low boulder content and roots. Gravel of mudstone, sandstone and occasional brick are medium to coarse and subrounded to subangular. (MADE GROUND). | (0.50) | | |
| 0.30 | 294.70 | ES | | | | | 0.50 | 294.50 | |
| 0.60 | 294.40 | D | | | | Extremely weak orange-brown MUDSTONE recovered as an angular coarse GRAVEL. Grey on fresh faces. (GRADE B SOUTH WALES LOWER COAL MEASURES FORMATION) | (0.70) | | |
| 1.00 | 294.00 | B | | | | | 1.0 | | |
| | | | | | | End of Trialpit at 1.200m | 1.20 | 293.80 | |
| | | | | | | | 2.0 | | |
| | | | | | | | 3.0 | | |

## Weather and environmental conditions:

1. Overcast with rain

## Other comments:

1. Grid reference and ground level approximate and for the centre of the site.
2. Trial pit excavated to a maximum depth of 1.2m.
3. Trial Pit backfilled with arising and mounded to allow for future settlement.